

# A1500V-7 iZnO\_AZO

customer : First Solar Inc.  
street : 28101 Cedar Park Blvd.  
locate : Perrysburg, OH 43551

nominal voltage	: 480Y/277V 60Hz	power	: 558 kW
phases	: 3Ph/N/PE	nom. current	820A
control power 1	: 24VDC		
control power 2	: 230VAC	pre fuse	: max. 1000A
control power 3	:	machine number	: 011003
degree of protection	: IP43 IP20	control cabinet recipient	year of manufacture 2010
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according safety of machines		Electrical equipment of machines	made with CAD-system: WSCAD 55
EN 60 204 (VDE 0113/1)			

Date: 12/05	Developer: Henker	cover sheet	P/005388	388-810000
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## contents

no.	system	sheet	designation	file	date		
1		0001	cover sheet	357_D.0001	02.12.2010		
2		0001	contents	357_I.0001	01.04.2011		
3		0002	contents	357_I.0002	01.04.2011		
4		0003	contents	357_I.0003	01.04.2011		
5		0004	contents	357_I.0004	01.04.2011		
6		0005	contents	357_I.0005	01.04.2011		
7		0006	contents	357_I.0006	01.04.2011		
8		0007	contents	357_I.0007	01.04.2011		
9		0008	contents	357_I.0008	01.04.2011		
10		0009	contents	357_I.0009	01.04.2011		
11		0001	list of changes	357_FG.0001	31.01.2011		
12		0010	designations general	357_FG.0010	31.03.2011		
13		0011	plant identifier (AKZ)	Description	357_FG.0011		
14		0012	plant identifier (AKZ)	Description	357_FG.0012		
15		0013	Location identifier (OKZ)	Description	357_FG.0013		
16		0014	Location identifier (OKZ)	Description	357_FG.0014		
17		0015	Location identifier (OKZ)	Description	357_FG.0015		
18		0016	Location identifier (OKZ)	Description	357_FG.0016		
19		0017	Location identifier (OKZ)	Description	357_FG.0017		
20		0018	Location identifier (OKZ)	Description	357_FG.0018		
21		0019	graphical symbol	Description	357_FG.0019		
22		0020	graphical symbol	Description	357_FG.0020		
23		0021	graphical symbol	Description	357_FG.0021		
24		0022	graphical symbol	Description	357_FG.0022		
25		0023	graphical symbol	Description	357_FG.0023		
26		0024	graphical symbol	Description	357_FG.0024		
27		0025	graphical symbol	Description	357_FG.0025		
28		0026	graphical symbol	Description	357_FG.0026		
29		0027	core color	Description	357_FG.0027		
30	=A01	layout	0001	cover sheet	357_A01_D.0001		
31	=A01	"	0010	machine layout	357_A01_FG.0010		
32	=A01	"	0011	machine layout	cable routes	357_A01_FG.0011	
33	=A01	"	0020	function plans	357_A01_FG.0020	31.03.2011	
34	=A01	"	0021	Not-Aus, Türschalter, Geräte	Emergency stop, door switches, d	357_A01_FG.0021	31.03.2011
35	=A01	"	0022	transport		357_A01_FG.0022	31.03.2011
36	=A01	"	0023	process		357_A01_FG.0023	31.03.2011
37	=B01	single-phase diagram	0001	cover sheet	357_B01_D.0001	01.04.2011	
38	=B01	"	0010	main power distribution - overview	power consumption (preliminary)	357_B01.0010	01.04.2011
39	=B01	"	0011	main power distribution	=C01	357_B01.0011	01.04.2011
40	=B01	"	0012	power distribution 115V sockets	=C02	357_B01.0012	01.04.2011
41	=B01	"	0013	power distribution 1	=D11	357_B01.0013	01.04.2011
42	=B01	"	0014	power distribution 1	=D11	357_B01.0014	01.04.2011
43	=B01	"	0015	power distribution 1	=D11	357_B01.0015	01.04.2011
44	=B01	"	0016	power distribution 1	=D11	357_B01.0016	01.04.2011
45	=B01	"	0017	power distribution 1	=D11	357_B01.0017	01.04.2011
46	=B01	"	0018	power distribution 1	=D11	357_B01.0018	01.04.2011
47	=B01	"	0019	power distribution 2	=D12	357_B01.0019	01.04.2011
48	=B01	"	0020	power distribution 3	=D13	357_B01.0020	01.04.2011
49	=B01	"	0021	power distribution 3	=D13	357_B01.0021	01.04.2011
50	=B01	"	0022	power distribution 3	=D13	357_B01.0022	01.04.2011
51	=B01	"	0023	power distribution 3	=D13	357_B01.0023	01.04.2011
52	=B01	"	0024	power distribution 3	=D13	357_B01.0024	01.04.2011
53	=B01	"	0025	power distribution main control	=D21	357_B01.0025	01.04.2011

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no.	system	sheet	designation	file	date
107	=D11+CCMD01 power distribution 1 vacuum equipment	0045	24VDC	CCMD01	357_D11.0045
108	=D11+CCMD01 "	0046	24VDC	CCMD02, CCMD03	357_D11.0046
109	=D11+CCMD01 "	0047	SP-guard	L1PV01	357_D11.0047
110	=D11+CCMD01 "	0048	SP-guard	L9PV01	357_D11.0048
111	=D11+CCMD01 "	0049	SP-guard	V1PV01	357_D11.0049
112	=D11+CCMD01 "	0053	magnetron fan		357_D11.0053
113	=D11+CCMD01 "	0054	digital inputs		357_D11.0054
114	=D11+CCMD01 "	0055	analog inputs		357_D11.0055
115	=D11+CCMD01 "	0056	digital outputs		357_D11.0056
116	=D11+CCMD01 "	0057	digital outputs	process doors	357_D11.0057
117	=D11+CCMD01 "	0058	emergency off		357_D11.0058
118	=D11+CCMD01 "	0059	interlock	door drives	357_D11.0059
119	=D11+CCMD01 "	0060	flow monitoring pump stations		357_D11.0060
120	=D12 power distr. 2 process equipment: power supplies	0001	cover sheet		357_D12_D.0001
121	=D12+CCMD02 "	0006	layout outside		357_D12.0006
122	=D12+CCMD02 "	0007	mounting plate		357_D12.0007
123	=D12+CCMD02 "	0010	input 1		357_D12.0010
124	=D12+CCMD02 "	0011	power supply	P1GEN11	357_D12.0011
125	=D12+CCMD02 "	0012	generators	P2GEN11/12	357_D12.0012
126	=D12+CCMD02 "	0013	generators	P2GEN21/22	357_D12.0013
127	=D12+CCMD02 "	0014	generators	P2GEN31/32	357_D12.0014
128	=D12+CCMD02 "	0015	input 2		357_D12.0015
129	=D12+CCMD02 "	0018	digital inputs		357_D12.0018
130	=D12+CCMD02 "	0019	digital outputs		357_D12.0019
131	=D12+CCMD02 "	0020	interlock		357_D12.0020
132	=D12+CCMD02 "	0021	power switch 1, 2	signals	357_D12.0021
133	=D13 power distr. 2 process equipment: heaters	0001	cover sheet		357_D13_D.0001
134	=D13+CCMD03 "	0006	layout outside		357_D13.0006
135	=D13+CCMD03 "	0007	mounting plate		357_D13.0007
136	=D13+CCMD03 "	0010	supply		357_D13.0010
137	=D13+CCMD03 "	0011	heater power	L1, B1, B2	357_D13.0011
138	=D13+CCMD03 "	0012	heater power	P1, P2	357_D13.0012
139	=D13+CCMD03 "	0014	heaters L1	front side	357_D13.0014
140	=D13+CCMD03 "	0015	heaters L1	backside	357_D13.0015
141	=D13+CCMD03 "	0017	heaters B1	front side	357_D13.0017
142	=D13+CCMD03 "	0018	heaters B1	backside	357_D13.0018
143	=D13+CCMD03 "	0020	heaters B2	front side	357_D13.0020
144	=D13+CCMD03 "	0021	heaters B2	backside	357_D13.0021
145	=D13+CCMD03 "	0023	heaters P1	front side	357_D13.0023
146	=D13+CCMD03 "	0024	heaters P1	front side	357_D13.0024
147	=D13+CCMD03 "	0025	heaters P1	backside	357_D13.0025
148	=D13+CCMD03 "	0026	heaters P1	backside	357_D13.0026
149	=D13+CCMD03 "	0027	heaters P1	backside	357_D13.0027
150	=D13+CCMD03 "	0031	heater P2	backside	357_D13.0031
151	=D13+CCMD03 "	0032	heater P2	backside	357_D13.0032
152	=D13+CCMD03 "	0033	heater P2	backside	357_D13.0033
153	=D13+CCMD03 "	0035	control cabinet cooling		357_D13.0035
154	=D13+CCMD03 "	0036	PLC	heater control	357_D13.0036
155	=D13+CCMD03 "	0037	digital outputs		357_D13.0037
156	=D13+CCMD03 "	0038	digital outputs		357_D13.0038
157	=D13+CCMD03 "	0039	digital inputs		357_D13.0039
158	=D13+CCMD03 "	0040	Signale Heizergruppen		357_D13.0040
159	=D13+CCMD03 "	0042	interlock		357_D13.0042

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no.	system	sheet	designation	file	date
213	=E11+CCPS01 process devices	0010	+P1GEN11, +P1GEN12	+P1MAG11, +P1MAG12	357_E11.0010 01.04.2011
214	=E11+CCPS01 "	0011	+P1GEN2x		357_E11.0011 01.04.2011
215	=E11+CCPS01 "	0012	+P1GEN3x		357_E11.0012 01.04.2011
216	=E11+CCPS02 "	0013	+P2GEN11, +P2GEN12	+P2MAG11, +P2MAG12	357_E11.0013 01.04.2011
217	=E11+CCPS02 "	0014	+P2GEN21	+P2MAG21	357_E11.0014 01.04.2011
218	=E11+CCPS03 "	0015	+P2GEN22	+P2MAG22	357_E11.0015 01.04.2011
219	=E11+CCPS03 "	0016	+P2GEN31, +P2GEN32	+P2MAG31, +P2MAG32	357_E11.0016 01.04.2011
220	=E21 operator station	0001	cover sheet		357_E21_D.0001 01.04.2011
221	=E21 "	0006	front view	operator station	357_E21.0006 01.04.2011
222	=E21 "	0007	left side view	operator station	357_E21.0007 01.04.2011
223	=E21+CCOS "	0010	Touchpanel (HMI)	operator station	357_E21.0010 01.04.2011
224	=E21+CCOS "	0011	control keys, switches	operator station	357_E21.0011 01.04.2011
225	=E21+CCOS "	0012	datalogging PC	operator station	357_E21.0012 01.04.2011
226	=E22 process messurment	0001	cover sheet		357_E22_D.0001 01.04.2011
227	=E22+CCORM "	0006	layout outside	resistance test unit	357_E22.0006 01.04.2011
228	=E22+CCORM "	0007	mounting plate	resistance test unit	357_E22.0007 01.04.2011
229	=E22+CCORM "	0010	resistance test unit		357_E22.0010 01.04.2011
230	=E22+CCORM "	0011	PLC inputs, outputs	resistance test unit	357_E22.0011 01.04.2011
231	=M30 actuators/ sensors module: T1, L1, B1, B2	0001	cover sheet		357_M30_D.0001 01.04.2011
232	=M30+B1KK01 "	0006	layout outside		357_M30.0006 01.04.2011
233	=M30+B1KK01 "	0007	mounting plate		357_M30.0007 01.04.2011
234	=M30+B1KK01 "	0010	supply		357_M30.0010 01.04.2011
235	=M30+B1KK01 "	0011	digital inputs		357_M30.0011 01.04.2011
236	=M30+B1KK01 "	0012	digital I/O		357_M30.0012 01.04.2011
237	=M30+B1KK01 "	0013	analog inputs		357_M30.0013 01.04.2011
238	=M30+B1KK01 "	0014	analog inputs		357_M30.0014 01.04.2011
239	=M30+B1KK01 "	0015	analog inputs		357_M30.0015 01.04.2011
240	=M30+B1KK01 "	0016	digital I/O		357_M30.0016 01.04.2011
241	=M30+B1KK01 "	0017	loading station		357_M30.0017 01.04.2011
242	=M30+B1KK01 "	0018	valve unit B1		357_M30.0018 01.04.2011
243	=M30+B1KK01 "	0019	door locking		357_M30.0019 01.04.2011
244	=M30+B1KK01 "	0020	pressure switch		357_M30.0020 01.04.2011
245	=M30+B1KK01 "	0021	T1SC07...09		357_M30.0021 01.04.2011
246	=M30+B1KK01 "	0022	T1SC11...13		357_M30.0022 01.04.2011
247	=M30+B1KK01 "	0023	L1SC		357_M30.0023 01.04.2011
248	=M30+B1KK01 "	0024	B1SC		357_M30.0024 01.04.2011
249	=M30+B1KK01 "	0025	B2SC		357_M30.0025 01.04.2011
250	=M30+B1KK01 "	0026	B1GD01		357_M30.0026 01.04.2011
251	=M30+B1KK01 "	0027	L1 digitale input upside		357_M30.0027 01.04.2011
252	=M30+B1KK01 "	0028	L1 digitale input bottomside		357_M30.0028 01.04.2011
253	=M30+B1KK01 "	0029	B1 digitale input upside		357_M30.0029 01.04.2011
254	=M30+B1KK01 "	0030	B1 digitale input bottomside		357_M30.0030 01.04.2011
255	=M30+B1KK01 "	0031	B2 digitale input upside		357_M30.0031 01.04.2011
256	=M30+B1KK01 "	0032	B2 digitale input bottomside		357_M30.0032 01.04.2011
257	=M30+B1KK01 "	0033	flow monitoring L1		357_M30.0033 01.04.2011
258	=M30+B1KK01 "	0034	flow monitoring B1		357_M30.0034 01.04.2011
259	=M30+B1KK01 "	0035	flow monitoring B2		357_M30.0035 01.04.2011
260	=M30+B1KK01 "	0036	T1HMI01		357_M30.0036 01.04.2011
261	=M30+B1KK01 "	0037	pressure measurment L1, B1		357_M30.0037 01.04.2011
262	=M30+B1KK01 "	0038	measurings for vacuum		357_M30.0038 01.04.2011
263	=M30+B1KK01 "	0039	mass spectrometer		357_M30.0039 01.04.2011
264	=M30+B1KK01 "	0040	--		357_M30.0040 01.04.2011
265	=M30+B1KK01 "	0041	substrate fixing		357_M30.0041 01.04.2011

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266	=M31 actuators/ sensors module: P1	0001	cover sheet	357_M31_D.0001	01.04.2011	
267	=M31+P1KK01 "	0006	layout outside	357_M31_0006	01.04.2011	
268	=M31+P1KK01 "	0007	mounting plate	357_M31_0007	01.04.2011	
269	=M31+P1KK01 "	0010	supply	357_M31_0010	01.04.2011	
270	=M31+P1KK01 "	0011	digital I/O	357_M31_0011	01.04.2011	
271	=M31+P1KK01 "	0012	analog inputs	357_M31_0012	01.04.2011	
272	=M31+P1KK01 "	0013	analog inputs	357_M31_0013	01.04.2011	
273	=M31+P1KK01 "	0014	digital I/O	357_M31_0014	01.04.2011	
274	=M31+P1KK01 "	0018	valve unit	357_M31_0018	01.04.2011	
275	=M31+P1KK01 "	0019	rotation monitoring	357_M31_0019	01.04.2011	
276	=M31+P1KK01 "	0021	P1 digitale input upside	357_M31_0021	01.04.2011	
277	=M31+P1KK01 "	0022	P1SC	357_M31_0022	01.04.2011	
278	=M31+P1KK01 "	0023	door control - sensors	folding flange 1	357_M31_0023	01.04.2011
279	=M31+P1KK01 "	0024	door control - sensors	folding flange 2	357_M31_0024	01.04.2011
280	=M31+P1KK01 "	0025	door control - sensors	folding flange 3	357_M31_0025	01.04.2011
281	=M31+P1KK01 "	0026	flow monitoring P1		357_M31_0026	01.04.2011
282	=M31+P1KK01 "	0027	flow monitoring P1		357_M31_0027	01.04.2011
283	=M31+P1KK01 "	0028	flow monitoring P1		357_M31_0028	01.04.2011
284	=M31+P1KK01 "	0029	pyrometer		357_M31_0029	01.04.2011
285	=M31+P1KK01 "	0030	measurings for vacuum		357_M31_0030	01.04.2011
286	=M31+P1KK01 "	0031	MFC & leak detection	folding flange 1	357_M31_0031	01.04.2011
287	=M32 actuators/ sensors module: P2	0001	cover sheet		357_M32_D.0001	01.04.2011
288	=M32+P2KK01 "	0006	layout outside		357_M32_0006	01.04.2011
289	=M32+P2KK01 "	0007	mounting plate		357_M32_0007	01.04.2011
290	=M32+P2KK01 "	0010	supply		357_M32_0010	01.04.2011
291	=M32+P2KK01 "	0011	digital I/O		357_M32_0011	01.04.2011
292	=M32+P2KK01 "	0012	analog inputs		357_M32_0012	01.04.2011
293	=M32+P2KK01 "	0013	analog inputs		357_M32_0013	01.04.2011
294	=M32+P2KK01 "	0014	digital I/O		357_M32_0014	01.04.2011
295	=M32+P2KK01 "	0018	valve unit		357_M32_0018	01.04.2011
296	=M32+P2KK01 "	0019	rotation monitoring		357_M32_0019	01.04.2011
297	=M32+P2KK01 "	0020	horn and light stack		357_M32_0020	01.04.2011
298	=M32+P2KK01 "	0021	P2 digitale input upside		357_M32_0021	01.04.2011
299	=M32+P2KK01 "	0022	P2SC		357_M32_0022	01.04.2011
300	=M32+P2KK01 "	0023	door control - sensors	folding flange 1	357_M32_0023	01.04.2011
301	=M32+P2KK01 "	0024	door control - sensors	folding flange 2	357_M32_0024	01.04.2011
302	=M32+P2KK01 "	0025	door control - sensors	folding flange 3	357_M32_0025	01.04.2011
303	=M32+P2KK01 "	0026	flow monitoring P2		357_M32_0026	01.04.2011
304	=M32+P2KK01 "	0027	flow monitoring P2		357_M32_0027	01.04.2011
305	=M32+P2KK01 "	0028	flow monitoring P2		357_M32_0028	01.04.2011
306	=M32+P2KK01 "	0029	pyrometer		357_M32_0029	01.04.2011
307	=M32+P2KK01 "	0030	measurings for vacuum		357_M32_0030	01.04.2011
308	=M32+P2KK01 "	0031	MFC & leak detection	folding flange 1	357_M32_0031	01.04.2011
309	=M32+P2KK01 "	0032	MFC & leak detection	folding flange 2	357_M32_0032	01.04.2011
310	=M32+P2KK01 "	0033	MFC & leak detection	folding flange 3	357_M32_0033	01.04.2011
311	=M39 actuators/ sensors modules: B8, B9, L9, T9	0001	cover sheet		357_M39_D.0001	01.04.2011
312	=M39+B9KK01 "	0006	layout outside		357_M39_0006	01.04.2011
313	=M39+B9KK01 "	0007	mounting plate		357_M39_0007	01.04.2011
314	=M39+B9KK01 "	0010	supply		357_M39_0010	01.04.2011
315	=M39+B9KK01 "	0011	digital inputs		357_M39_0011	01.04.2011
316	=M39+B9KK01 "	0012	analog inputs		357_M39_0012	01.04.2011
317	=M39+B9KK01 "	0013	digital I/O		357_M39_0013	01.04.2011
318	=M39+B9KK01 "	0017	unloading station		357_M39_0017	01.04.2011

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no.	system	sheet	designation	file	date
319	=M39+B9KK01 actuators/ sensors modules: B8, B9, L9, T9	0018	valve unit B9	357_M39.0018	01.04.2011
320	=M39+B9KK01 "	0019	door locking	357_M39.0019	01.04.2011
321	=M39+B9KK01 "	0020	pressure switch	357_M39.0020	01.04.2011
322	=M39+B9KK01 "	0021	B8SC	357_M39.0021	01.04.2011
323	=M39+B9KK01 "	0022	B9SC	357_M39.0022	01.04.2011
324	=M39+B9KK01 "	0023	L9SC	357_M39.0023	01.04.2011
325	=M39+B9KK01 "	0024	T9SC01...03	357_M39.0024	01.04.2011
326	=M39+B9KK01 "	0025	T9SC07...09	357_M39.0025	01.04.2011
327	=M39+B9KK01 "	0026	T9GD01	357_M39.0026	01.04.2011
328	=M39+B9KK01 "	0027	B8 digitale input bottomside	357_M39.0027	01.04.2011
329	=M39+B9KK01 "	0028	B9 digitale input upside	357_M39.0028	01.04.2011
330	=M39+B9KK01 "	0029	B9 digitale input bottomside	357_M39.0029	01.04.2011
331	=M39+B9KK01 "	0030	L9 digitale input upside	357_M39.0030	01.04.2011
332	=M39+B9KK01 "	0031	L9 digitale input bottomside	357_M39.0031	01.04.2011
333	=M39+B9KK01 "	0032	flow monitoring B8	357_M39.0032	01.04.2011
334	=M39+B9KK01 "	0033	flow monitoring B9	357_M39.0033	01.04.2011
335	=M39+B9KK01 "	0034	flow monitoring L9	357_M39.0034	01.04.2011
336	=M39+B9KK01 "	0036	T9HMI01 & T9HMI02	357_M39.0036	01.04.2011
337	=M39+B9KK01 "	0037	pressure measurement L9	357_M39.0037	01.04.2011
338	=M39+B9KK01 "	0038	measurements for vacuum	357_M39.0038	01.04.2011
339	=M39+B9KK01 "	0039	mass spectrometer	357_M39.0039	01.04.2011
340	=M39+B9KK01 "	0040	air preheater	357_M39.0040	01.04.2011
341	=M39+B9KK01 "	0041	glass fixing	357_M39.0041	01.04.2011
342		0001	list of cables	357_KL.0001	01.04.2011
343		0002	list of cables	357_KL.0002	01.04.2011
344		0003	list of cables	357_KL.0003	01.04.2011
345		0004	list of cables	357_KL.0004	01.04.2011
346		0005	list of cables	357_KL.0005	01.04.2011
347		0006	list of cables	357_KL.0006	01.04.2011
348		0007	list of cables	357_KL.0007	01.04.2011
349		0008	list of cables	357_KL.0008	01.04.2011
350		0009	list of cables	357_KL.0009	01.04.2011
351		0010	list of cables	357_KL.0010	01.04.2011
352		0011	list of cables	357_KL.0011	01.04.2011
353		0012	list of cables	357_KL.0012	01.04.2011
354		0013	list of cables	357_KL.0013	01.04.2011
355		0014	list of cables	357_KL.0014	01.04.2011
356		0015	list of cables	357_KL.0015	01.04.2011
357		0016	list of cables	357_KL.0016	01.04.2011
358		0017	list of cables	357_KL.0017	01.04.2011
359		0018	list of cables	357_KL.0018	01.04.2011
360		0001	electric parts	357_ML.0001	01.04.2011
361		0002	electric parts	357_ML.0002	01.04.2011
362		0003	electric parts	357_ML.0003	01.04.2011
363		0004	electric parts	357_ML.0004	01.04.2011
364		0005	electric parts	357_ML.0005	01.04.2011
365		0006	electric parts	357_ML.0006	01.04.2011
366		0007	electric parts	357_ML.0007	01.04.2011
367		0008	electric parts	357_ML.0008	01.04.2011
368		0009	electric parts	357_ML.0009	01.04.2011
369		0010	electric parts	357_ML.0010	01.04.2011
370		0011	electric parts	357_ML.0011	01.04.2011
371		0012	electric parts	357_ML.0012	01.04.2011

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				check					sheet 7	of 9		
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## contents

no.	system	sheet	designation	file	date
372		0013	electric parts	357_ML.0013	01.04.2011
373		0014	electric parts	357_ML.0014	01.04.2011
374		0015	electric parts	357_ML.0015	01.04.2011
375		0016	electric parts	357_ML.0016	01.04.2011
376		0017	electric parts	357_ML.0017	01.04.2011
377		0018	electric parts	357_ML.0018	01.04.2011
378		0019	electric parts	357_ML.0019	01.04.2011
379		0020	electric parts	357_ML.0020	01.04.2011
380		0021	electric parts	357_ML.0021	01.04.2011
381		0022	electric parts	357_ML.0022	01.04.2011
382		0023	electric parts	357_ML.0023	01.04.2011
383		0024	electric parts	357_ML.0024	01.04.2011
384		0025	electric parts	357_ML.0025	01.04.2011
385		0026	electric parts	357_ML.0026	01.04.2011
386		0027	electric parts	357_ML.0027	01.04.2011
387		0028	electric parts	357_ML.0028	01.04.2011
388		0029	electric parts	357_ML.0029	01.04.2011
389		0030	electric parts	357_ML.0030	01.04.2011
390		0031	electric parts	357_ML.0031	01.04.2011
391		0032	electric parts	357_ML.0032	01.04.2011
392		0033	electric parts	357_ML.0033	01.04.2011
393		0034	electric parts	357_ML.0034	01.04.2011
394		0035	electric parts	357_ML.0035	01.04.2011
395		0036	electric parts	357_ML.0036	01.04.2011
396		0037	electric parts	357_ML.0037	01.04.2011
397		0038	electric parts	357_ML.0038	01.04.2011
398		0039	electric parts	357_ML.0039	01.04.2011
399		0040	electric parts	357_ML.0040	01.04.2011
400		0041	electric parts	357_ML.0041	01.04.2011
401		0042	electric parts	357_ML.0042	01.04.2011
402		0043	electric parts	357_ML.0043	01.04.2011
403		0044	electric parts	357_ML.0044	01.04.2011
404		0045	electric parts	357_ML.0045	01.04.2011
405		0046	electric parts	357_ML.0046	01.04.2011
406		0047	electric parts	357_ML.0047	01.04.2011
407		0048	electric parts	357_ML.0048	01.04.2011
408		0049	electric parts	357_ML.0049	01.04.2011
409		0050	electric parts	357_ML.0050	01.04.2011
410		0051	electric parts	357_ML.0051	01.04.2011
411		0052	electric parts	357_ML.0052	01.04.2011
412		0053	electric parts	357_ML.0053	01.04.2011
413		0054	electric parts	357_ML.0054	01.04.2011
414		0055	electric parts	357_ML.0055	01.04.2011
415		0056	electric parts	357_ML.0056	01.04.2011
416		0057	electric parts	357_ML.0057	01.04.2011
417		0058	electric parts	357_ML.0058	01.04.2011
418		0059	electric parts	357_ML.0059	01.04.2011
419		0060	electric parts	357_ML.0060	01.04.2011
420		0061	electric parts	357_ML.0061	01.04.2011
421		0062	electric parts	357_ML.0062	01.04.2011
422		0063	electric parts	357_ML.0063	01.04.2011
423		0064	electric parts	357_ML.0064	01.04.2011
424		0065	electric parts	357_ML.0065	01.04.2011

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			check							
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				check							sheet 9	of 9	
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## description of device designation

### parts description

#### example designation

```
=xxx +CC -50Axxx10:a3
    | L. a3  >component connection marker
    |   -- ":" > terminal number identification
    |       (application to leave something)
    |       ... "10" > counting number from components
    |       ... xxx > short description of component function
    |           (application to leave something)
    |       ... A >components name according to DIN EN 61346
    |       ... "50" sheet number circuit plan
    |           for electro part
    |       ... "-" > electrical part
    |       ... CC > fitting place control cabinet
    |       ... "+" > toponym
    |       ... xxx > plant description
    |       ... "=" > system code
```

### description place

control cabinet
+CCMS main switch
+CCMD main distribution
+CCMC main control (...PLC, vacuum pumps and others)
+CCSC servo controller
+CCOS operation station
+CCPC personal computer
+CCTF transformer
+CCPS generators
+KK terminal box
or
+?? proper devices

Please note:  
plant identifier [AKZ] and location identifier [OKZ] are only necessary in the circuit diagram, if there are'nt identically equal to the entry in frame of the sheet!

### terminal clip main describtion

-x0	input terminal clip
-x1	power terminal 400V
-x2	power terminal 230V
-x3..	control power 24V
-x4..	Emergency-Stop and interlock terminals
-XP	equipotential bonding terminal
-..X_	terminal clip on sheet

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				devel.	Henker						+
				check	.				sheet 10		
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parts description                        in circuit plan

example designation

=xzz +xy&&&zz -50Axxx10:a3

```

+--> description electric part
+--> description pin (if used)
+--> (application to leave something)
+--> electric component number (sheet-wise)
+--> brief functional description of component
+--> (application to leave something)
+--> components name according to DIN EN 61346
+--> "50" sheet number circuit plan
+--> for electro part
+--> electric part

+--> place in electrical cabinet
+--> "+" > description place (if used)

+--> plant description
+--> "=" > description plant (if used)

```

description plant:

=xzz                    x..functional sign  
                           zz..consecutive number

example:

=D01        superior power feed-in  
  =D01        low voltage power input or distributions  
  =E31        sub-power distribution  
  =M31        equipment for control, automation

Please note:  
 plant identifier [AKZ] and location identifier [OKZ] are only necessary in the circuit diagram, if there are'nt identically equal to the entry in frame of the sheet!

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<b>description functional sign:</b>									
=A..	Allgemeine übergeordnete Listen				superior general lists				
=B..	Allgemeine übergeordnete Zeichnungen Einpolige Darstellung von Leistungskreisen Prinzipschaltbilder: Regelung, analog oder digital				superior general scheme single phase circuit diagram				
=C..	Übergeordnete Einspeisung				superior power feed-in				
=D..	Niederspannungseinspeisungen und Verteilungen Sicherheitsgerichtete Steuerung (Notaus) Steuerspannungserzeugung AC Steuerspannungserzeugung DC (24V) Stromversorgung SPS- Zentralgerät Stromversorgung Rechner Stromversorgung SPS- Eingänge Stromversorgung SPS- Ausgänge Schrankbeleuchtung, Steckdosen, Schrankheizung				low voltage power feed-in and distribution safety-related control (e.g. emergency stop) control power supply AC control power supply DC (24V) power supply PLC power supply computer power supply PLC-input power supply PLC-output lighting, sockets, heating for electrical cabinets				
=E..	Unter verteilungen Einzelgeräte Prozeßgeräteausstattung				sub-power distributions individual devices process equipment				
=M..	Überwachen, schützen, speichern, automatisieren digitale SPS Eingänge digitale SPS Ausgänge analoge SPS Eingänge analoge SPS Ausgänge				equipment to control, automate, measurement digital PLC input digital PLC output analoge PLC input analoge PLC output				
=Z..	Zubehör Gerätebaupläne Kabelbaupläne Zeichnungen				accessories device construction plans cable construction plans drawings				

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parts description                        in circuit plan

example designation

=xxx +xy&&&zz -50Axxx10:a3

```

+-----+
|       | L a3> description electric part
|       | L --> description pin (if used)
|       | L --> (application to leave something)
|       | L xxx >electric component number (sheet-wise)
|       | L xxx >brief functional description of component
|       | L --> (application to leave something)
|       | L A >components name according to DIN EN 61346
|       | L -> "50" sheet number circuit plan
|       | L --> for electro part
|       | L --> electric part
|       | L ss > place in electrical cabinet
|       | L --> "+" > description place (if used)
|       | L xxx > plant description
|       | L --> "=" > description plant (if used)
+-----+

```

description place:

+xy&&&zz    x..module type, place identifier  
               y..module number, plant identifier  
               zz..consecutive number  
               &&&..component identifier (maximum 4 figures)

example:

+P1MAG01 process module 1,  
               magnetron 01  
+CCMD01 electrical cabinet,  
               power distribution 01

Please note:  
plant identifier [AKZ] and location identifier [OKZ] are only necessary in the circuit diagram, if there are'nt identically equal to the entry in frame of the sheet!

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description module type, place identifier:

#### Schaltschrank

+CC...	<b>Schaltschrank allg.</b>	<b>control cabinet, generic</b>
+CCTF	Schaltschrank, Transformator	control cabinet, transformer
+CCPS	Schaltschrank, Generatoren	cabinet, power supplies
+CCMC	Schaltschrank, Hauptsteuerung	control cabinet, main control
+CCMD	Schaltschrank, Hauptverteilung	control cabinet, main distribution
+CCMS	Schaltschrank, Hauptschalter	control cabinet, main switch
+CCPC	Schaltschrank, Rechnertechnik	control cabinet, computers
+CCSC	Schaltschrank, Servocontroller	control cabinet, servo controller
+CCOS	Schaltschrank, Bedienplatz	control cabinet, operating station
+..KK	Anlagenklemmkasten	machine terminal box
+KK	abgesetzter Klemmkasten	

#### **Modulbezeichnung**

+Tx	Transfermodul, Quertransport bei Clusteranlagen Handlerkammer	transfer module, cross transport at cluster tools handler chamber
+Lx	Schleusenmodul	load lock module
+Bx	Puffermodul	buffer module
+Px	Prozessmodul	process module
+Hx	Handhabungsmodul	handling modul
+Rx	Rückführstrecke	feed back strain
+Vx	modulunabhängiger Pumpstand	module independent pumping station

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description component identifier:

### Binärsensoren

S...	<b>Sensor, allg.</b>	<b>sensor, generic</b>
SG	Sicherheits-Lichtgitter	safety light curtain
SF	Gasflusswächter	gas flow switch
SD	Türschalter mit und ohne Zuhaltung	door switch with and w/out lock
SDH	Haubenschalter	cover switch
SL	Druckluftwächter	compressed air switch
SN	NOT-AUS	emergency stop
SC	Positionsschalter	position switch
SP	Druckschalter (für Vakuum)	pressure switch
SW	Wasserflußwächter	water flow switch
SWT	Wasserflußwächter Target	water flow switch target
SWU	Wasserflußwächter Magnetronumgebung	water flow switch magnetron environment
SWG	Wasserflußwächter Generator	water flow switch generator
SWL	Wasserflußwächter Leckage	water flow switch leakage
SWN	Wasserflußwächter Matchbox	water flow switch matchbox

### Analoge und Digitale Messgeräte

G...	<b>Wert-Geber, allg.</b>	<b>analog sensor, generic</b>
GV	Geschwindigkeitssensor	speed sensor
GF	Kraftsensor	force sensor
GH	Feuchtesensor	humidity sensor
GT	Temperatursensor	temperature sensor
GP	Drucksensor	pressure sensor
GL	Lagesensor	position sensor
GO	Sauerstoffsensor (Lambda-Sonde)	oxygen sensor
GQ	Qualitätsaufnehmer, Stoffeigenschaften, Analyse	quality analyser
GD	Datensor, z.B. Strichcode, RF-ID-Leser	data sensor, e.g. bar code or RF ID reader

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description component identifier:

### Antriebe

A...	<b>Antriebe, allg.</b>	<b>drive, generic</b>
AD	Drehantrieb	rotating drive
AH	Hubantrieb	lifting drive
AK	Carrierantrieb	carrier drive
AP	Walzenantrieb	drum drive
AS	Schiebeantrieb	shifting drive
AW	Wickelantrieb	winding drive
AR	Regelantrieb	control drive
AL	Verriegelungsantrieb	locking drive

### Andere

LMP	Kammerbeleuchtung	chamber lamp
WAB	Wasseraufbereitung	water supply
HDL	Be- und Entlademodul	substrat load/ unload handler
HMI	Mensch-Maschine-Schnittstelle	human machine interface

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description component identifier:									
V...	<b>Ventil, allg.</b>			<b>valve, generic</b>					
VG	Gasventil			gas valve					
VB	Belüftungsventil			venting valve					
VD	Drosselventil			throttle valve					
VM	Meßventil			measuring valve					
VP	Spülgasventil			purge gas valve					
VS	Schleusenventil, Hochvakuumventil			gate valve, high vacuum valve					
VV	Vorvakuumventil			fore vacuum valve					
VW	Wasserventil			water valve					
P...	<b>Pumpe, allg.</b>			<b>pump, generic</b>					
PC	Kryogene Pumpe			cryogenic pump					
PD	Öldiffusionspumpe			oil diffusion pump					
PI	Ionengetterpumpe			ion getter pump					
PR	Rootspumpe			roots blower					
PT	Turbomolekularpumpe			turbo molecular pump					
PV	Vorvakumpumpe			pre vacuum pump					
M...	<b>Vakuummessgerät, allg.</b>			<b>vacuum gauge</b>					
MC	Kapazitätsmessröhre			capacitance diaphragm gauge					
MI	Bayard-Alpert-Messgerät			bayard alpert gauge					
MK	Kombinationsmessgerät			combi gauge					
MP	Penning-Messgerät			penning gauge					
MS	Restgasanalyse, Massenspektrometer			residual gas analysis, mass spectrometer					
MT	Pirani-Messgerät			pirani gauge					

0	1	2	3	4	5	6	7	8	9
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**comparision of circuit symbols: DIN EN to ANSI**

graphical symbol IEC (DIN EN)	graphical symbol ANSI	meaning			
		Pushbutton N.C.			
		Pushbutton N.O.			
		Relay contact open			
		Relay contact closed			
		Indicator light			
		Fuse			
		Plug and socket			
		Temperature switch			
		Pressure switch			
		Liquid level switch			
		Proximity switch			
		Contactor coil			
		Motor starter coil			

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				devel.	Henker						+
				check	.						sheet 19
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0	1	2	3	4	5	6	7	8	9
<b>A</b> component identifier according to DIN		<b>B</b> component identifier according to DIN		<b>B</b> component identifier according to DIN		<b>B</b> component identifier according to DIN			
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning
	touch screen		temperature switch (general)		vacuum gauge		temperature controller		
			temperature switch (general)				mass flow controller (MFC)		temperature sensor M12 Connection
			level switch (general)				weighing cell		flow monitor M12 Connection
			proximity switch, general				pyrometer		pressure switch
			reflexion detector		absolute encoder		thermocouple		laser sensor
			light barrier						cylinder with limit switches
			reflexion detector						
			proximity sensor (general)						

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				devel.	Henker				+		
				check	.				Blatt 20		
cond.	alter.	date	name	norm					von 27	sh.	

0	1	2	3	4	5	6	7	8	9
<b>C</b> component identifier according to DIN		<b>E</b> component identifier according to DIN		<b>F</b> component identifier according to DIN		<b>G</b> component identifier according to DIN			
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning		
	capacitor		lamp universal		Fuse		generator power supply AC to DC		
	accu/batterie with PTC		Heater		Fuse 3-pole		generator power supply AC to pulsed DC		
					Fuse switch disconnector 1-pole		RF-generator RF-power supply		
					Fuse switch disconnector 3-pole		accu/batterie with PTC		
					mininature circuit breaker 1-pole				
					mininature circuit breaker 3-pole				
					electr. residual current device <RCD>				
					mininature circuit breaker w. thermal tripping				

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	graphical symbol Description	388-810000	P/005388	
				devel.	Henker				+		
				check	.				Blatt 21		
cond.	alter.	date	name	norm				description		von 27	sh.

0	1	2	3	4	5	6	7	8	9
K component identifier according to DIN		K component identifier according to DIN		K component identifier according to DIN		L component identifier according to DIN			
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning		
	digital signal input module DI (example)		normally open contact						
	element digital input DI element digital output DO (example)		normally closed contact						
			change-over contact						
			electromagnetic operation device, relay coil						
			time delay relay						
			control valve						
			optoelectronic coupler						
				-.-					

				date	12/05	A1500V-7 iznO_AZO	LEIBOLD OPTICS	graphical symbol Description	388-810000	P/005388	+ Blatt 22 von 27 sh.
				devel.	Henker						
				check	.						
cond.	alter.	date	name	norm				description			

0	1	2	3	4	5	6	7	8	9
<b>M</b> component identifier according to DIN		<b>P</b> component identifier according to DIN		<b>Q</b> component identifier according to DIN		<b>R</b> component identifier according to DIN			
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning		
	three phase AC motor		signal lamp		circuit breaker w. therm/magn. release 3-pole		resistor		
			flashing light		motor circuit breaker w. therm/magn. release 3-pole		heating resistance		
	servo motor		horn		load switch 1-pole		inductance coil w. core		
	DC-motor				load switch 3-pole		inductance coil, 3-pole		
	AC fan, 1-pole				switch-disconnector 1-pole		RC element		
					switch-disconnector 3-pole		Profibus terminator		
					power contactor				
					normally open power contact				
					normally open power contact, three-pole				
					control valve				
					bidirectional diode thyristor				
					thyristor switch (semiconductor relays)				
					undervoltage release				

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				devel.	Henker
				check	.

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**LEYBOLD OPTICS**

graphical symbol  
Description

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+

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cond.	alter.	date	name	norm	
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0	1	2	3	4	5	6	7	8	9
<b>S</b> component identifier according to DIN		<b>T</b> component identifier according to DIN		<b>U</b> component identifier according to DIN		<b>V</b> component identifier according to DIN			
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning		
	switch, normal open	480V	autotransformer (single pole illustration)						
	switch, normal closed	400V							
E	button, normal open		transformer (single pole illustration)						
	switch, maintained-contact	500VAC 230V							
F	rotary switch, normal open								
O	limit switch, normal closed	L1 L2 PE 0 230	transformer						
g  13 14	key-lock switch, 1-pole, normal open								
H  11 21 12 22	emergency stop switch, resting, 2-pole, normal closed	230VAC 24VDC	power supply AC to DC						
(  AS1 AS1 BNS260	emergency stop switch w. AS-interface safety switch with AS-interface	K1 k L1	current transformer						

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	graphical symbol Description	388-810000	P/005388	
				devel.	Henker						+
				check	.						Blatt 24
cond.	alter.	date	name	norm				description			von 27 sh.

0	1	2	3	4	5	6	7	8	9
W component identifier according to DIN		X component identifier according to DIN			■ component identifier according to DIN		■ component identifier according to DIN		
graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning	graphical symbol	meaning
	cable, three-conductor		terminal						
	single line, 50mm² black		terminal multi-level a/b						
	cable shielded		plug connection						
	connection adapter (power bus bar)		earth grounding bar						
	sensor/actor connection box example: 4 inputs M12		Profibus connector						
			Y adapter for M12 connectors						
			SUB-D jack (9-pin)						

0	1	2	3	4	5	6	7	8	9
Symbol element	meaning	conductor	meaning	graphical symbol	meaning	Symbol	meaning		
	elec. equipment, components, functional unit, function (general)		Junction of conductors				line filter		
			Connection of conductors (node)						
			conductor						
	limiting line of a group of related objects (e.g. system, location)		moved conductor						
	shielding		twisted conductors						
	limiting line of options		shielded conductor						
			optical fiber (cable) <FOC>, general						
			conductor - earth ground connections, protective earth						
			conductor - optional (not installed!)						
			bus connection						

				date	12/05	A1500V-7 iznO_AZ0	LEIBOLD OPTICS	graphical symbol Description	388-810000	P/005388	
				devel.	Henker						+
				check	.						Blatt 26
cond.	alter.	date	name	norm				description			von 27 sh.

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

## core color

### color codes

#### color DIN47102 IEC 60757

Black	sw	BK
Brown	br	BN
Red	rt	RD
Orange	or	OG
Yellow	ge	YE
Green	gn	GN
Blue	bl	BU
Violet	vi	VT
Grey	gr	GY
white	ws	WH
Pink	rs	PK
Turquoise	tk	TQ

### colors of conductors

colors	conductor type	polarity code
black	400/500VAC - phase conductor	L1; L2; L3
green/ yellow	protective earth conductor	PE
light blue	neutral conductor	N
orange	external voltage	
red	230 VAC control power	Ls; LSNA
red/ white	230 VAC control power ground	Ns
dark blue	24 VDC actor power	A24; A24NA; A24IL
dark blue	24 VDC measurement power	M24
violet	24 VDC sensor power	S24; W24
dark blue/ white	24 VDC ground	GND

				date	12/05	A1500V-7 izno_AZ0	 LEYBOLD OPTICS	core color Description	388-810000	P/005388	+	
				devel.	Henker						sheet 27	
				check	.						of 27 sh.	
cond.	alter.	date	name	norm								

# partial arrangement:

## =A01

# layout

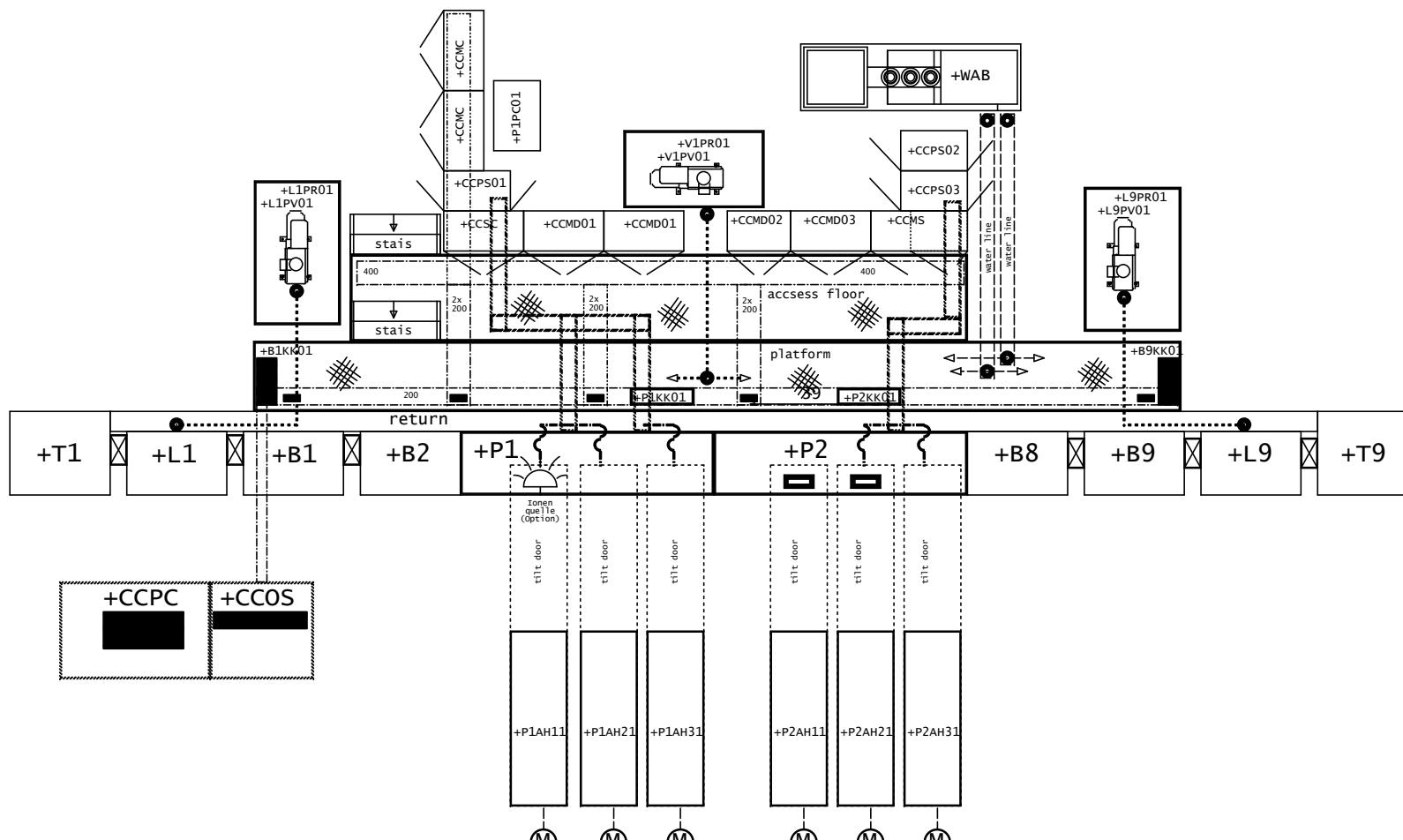
machine number:	011003	year of manufa <u>t</u> ure:
 LEYBOLD OPTICS LEYBOLD OPTICS DRESDEN GmbH Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 fax : +49 351 86695 42	remark :	
Plant built according to:	safety of machines - Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet
		P/005388 388-810000

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

# machine layout

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	machine layout	388-810000	P/005388	=A01
				devel.	Henker				+		
				check					sheet 10	of 23	
cond.	alter.	date	name	norm					<		11 >

0	1	2	3	4	5	6	7	8	9	10	11	12	13
---	---	---	---	---	---	---	---	---	---	----	----	----	----



#### description of device designation

numbers:  
 +xy&&&zz x..module type  
 y..module number  
 zz..consecutive number  
 &&&..component identifier (maximum 4 figures)

example:  
 +P1MAG01 process module 1,  
 magnetron 01

component identifier:  
 HDL substrat TH heater/cooling AS slide drive  
 HMI human machine GT temperature sensor AK short drive  
 SC position switch TV thermal evaporator SC photoelectric  
 GL position sensor PUL pulse unit VS gate valve, high  
 SD doorswitch vacuum valve

guard locking, magn.  
 light barrier or reflection light barrier  
 position switch to servo drive

gate valve

(M) motor

cable duct for power or signals  
 cable duct for sputter cables  
 ..... vacuum line

column/barrier

			date	12/05
			devel.	Henker
			check	
cond.	alter.	date	name	norm

A1500v-7 izno\_AZ0

LEYBOLD OPTICS

machine layout  
cable routes

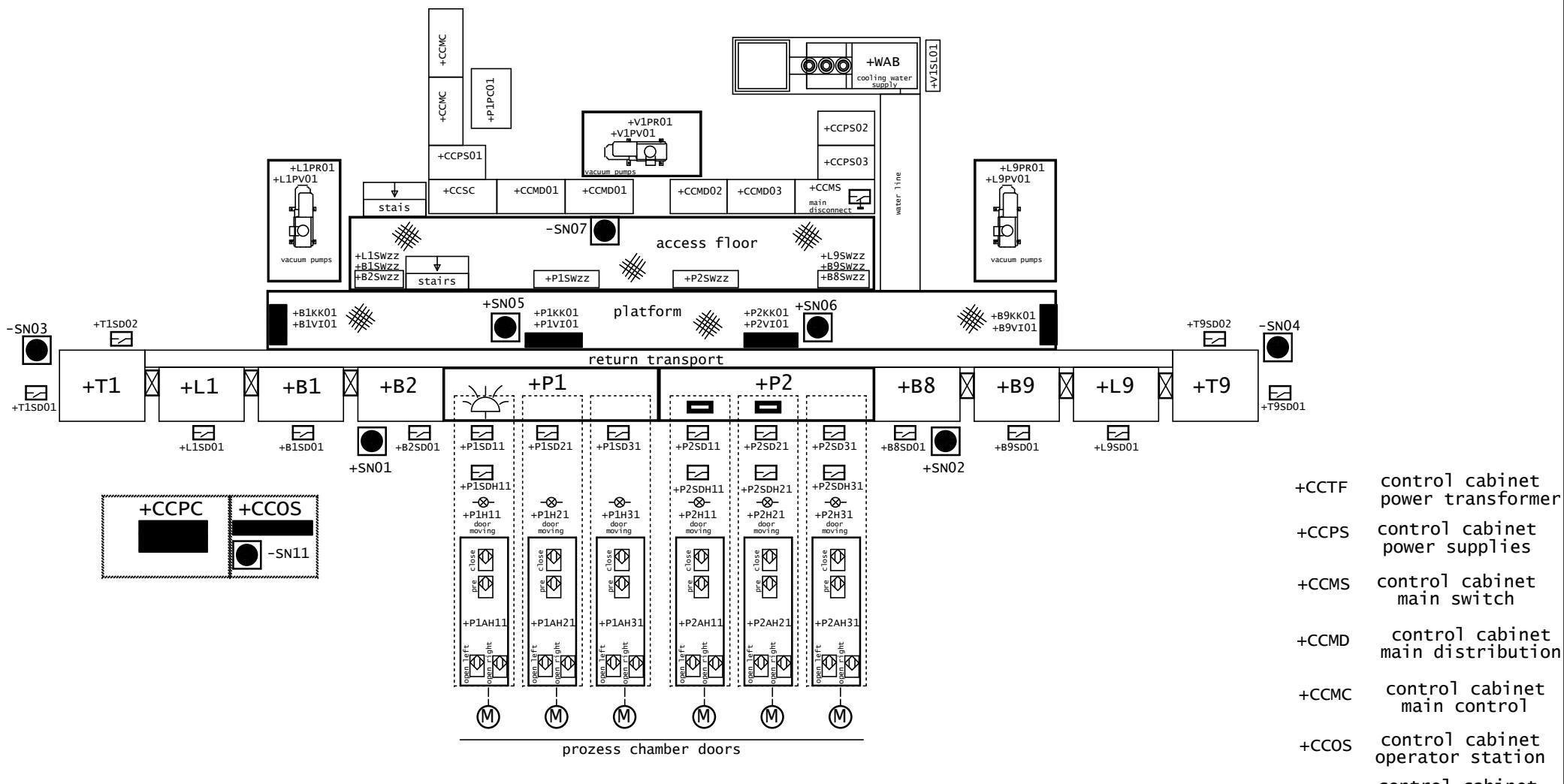
388-810000  
+  
layout

=A01
sheet 11 of 1
<10 von 23
20 >

0	1	2	3	4	5	6	7	8	9
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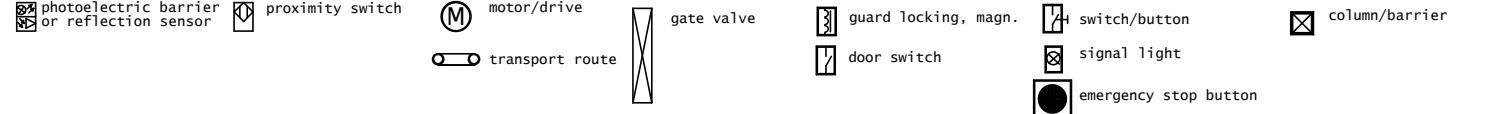
# function plans

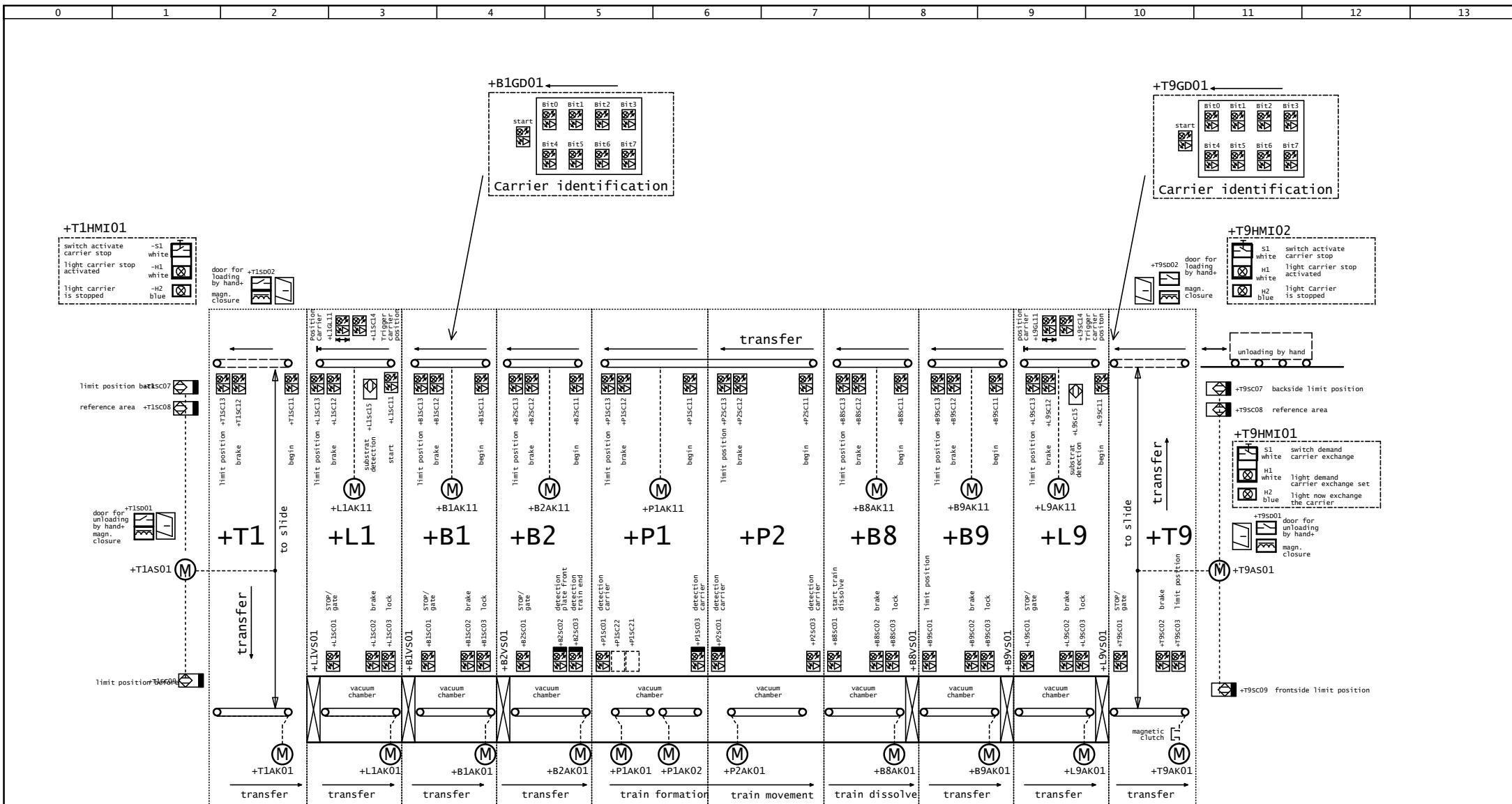
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	function plans	388-810000	P/005388	=A01
				devel.	Henker				+		
				check							

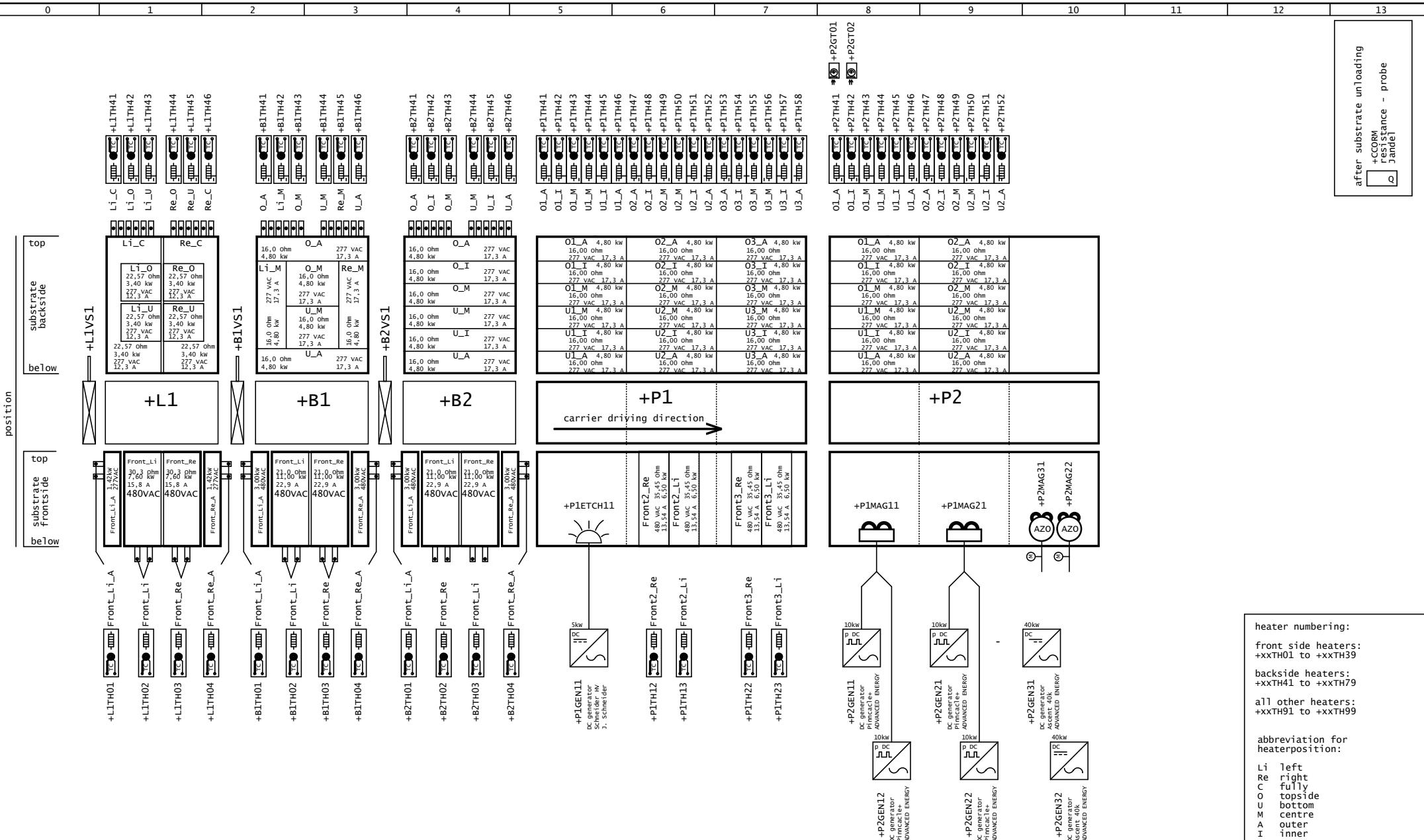


### **description of device designation**

&&&. component identifier (maximum 4 figures)  
 component identifier:  
 HDL substrat load/unload SC position switch GT temperature sensor  
 AS slide drive SD doorswitch HMI human machine interface  
 AH lifting drive SN emergency stop interface  
 VS gate valve, high SL compressed air switch KK terminal box  
 vacuum valve SW water flow switch







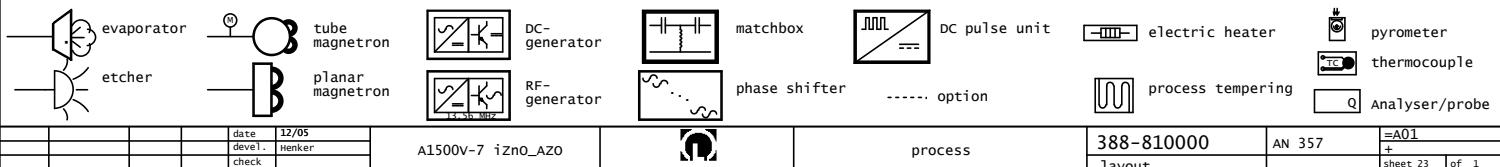
## description of device designation

numbers:  
+xy&&&zz    x..module type  
y..module number  
zz..consecutive number  
&&&..component identifier (maximum 4 figures)

component identifier:  
ETCH etcher    TH heater/cooling  
GEN generator    GT temperature sensor  
GENC generator control    TE thermal evaporator  
MAG magnetron    PUL pulse unit  
MTCH adjust network    IS ion source

example:  
+P1MAG01 process module 1,  
magnetron 01

## description of device icons



heater numbering:  
front side heaters:  
+xxTH01 to +xxTH39  
backside heaters:  
+xxTH41 to +xxTH79  
all other heaters:  
+xxTH91 to +xxTH99

abbreviation for  
heaterposition:  
Li left  
Re right  
C fully  
O topside  
U bottom  
M centre  
A outer  
I inner

after substrate unloading  
+CCDM test instance - probe  
Jandel

# partial arrangement:

## =B01

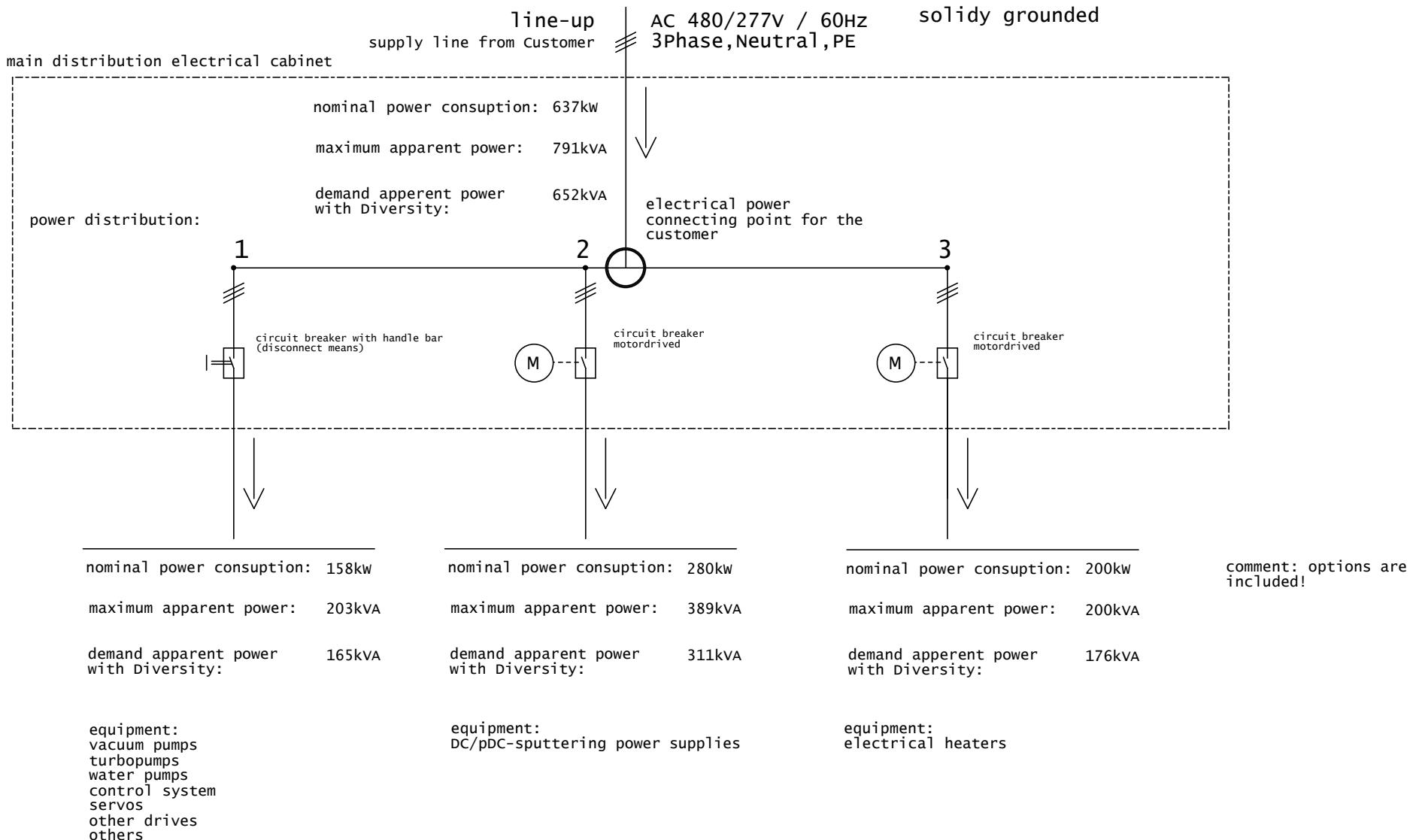
### single-pole circuit diagram

machine number:	011003	year of manufacture:	>
 LEYBOLD OPTICS LEYBOLD OPTICS DRESDEN GmbH Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

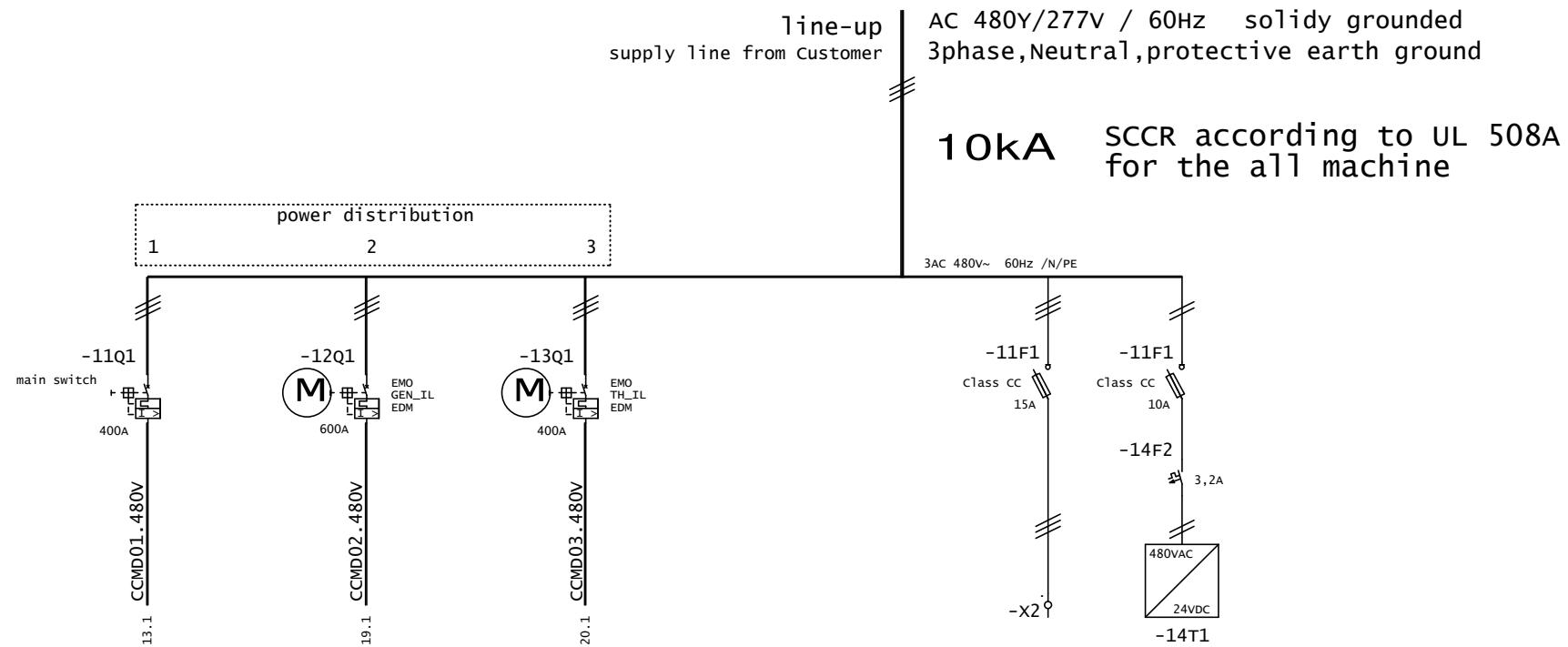
## A1500-v7 Inline Sputter Tool for i-ZNO and AZO coating

### electrical power consumption for the plant



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	main power distribution - overview power consumption (preliminary)	388-810000	P/005388	=B01
				devel.	Henker				+		
				check					sheet 10	of 26	
cond.	alter.	date	name	norm					<		11 >

0      1      2      3      4      5      6      7      8      9



- > maindistribution spezified to a SCCR of 35kA
  - > maindistribution was build from SIEMENS
  - > UL-Label: UL-BT-67 36 78

**Please note:**  
Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 izno_AZO	 LEYBOLD OPTICS	main power distribution =C01	388-810000	P/005388	=B01
				devel.	Henker				+		
				check					sheet 11	of 26	
cond.	alter.	date	name	norm					<10	12 >	

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

=C02+KKE01

### utilisation power supply

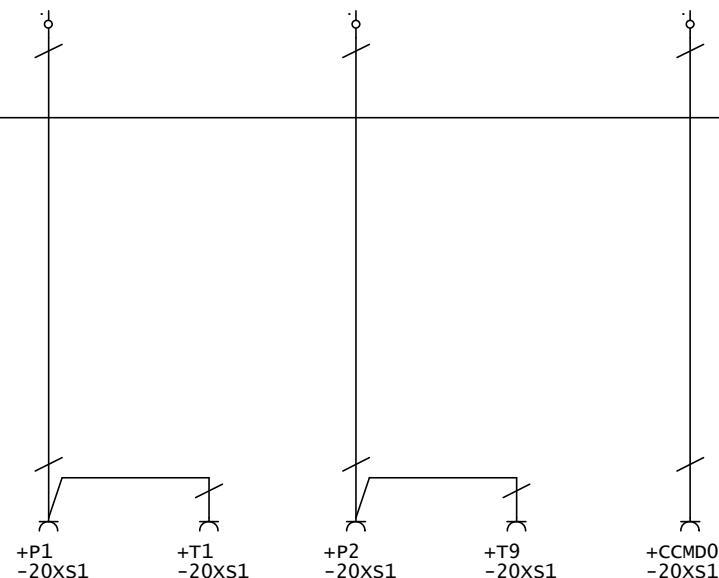
line-up 2  
supply line from customer

AC 115V / 60Hz  
1phase,Neutral,protective earth ground

terminal box

Übergabekasten auf Kundenseite  
Anbringort am Schaltschrank =C01+CCMS

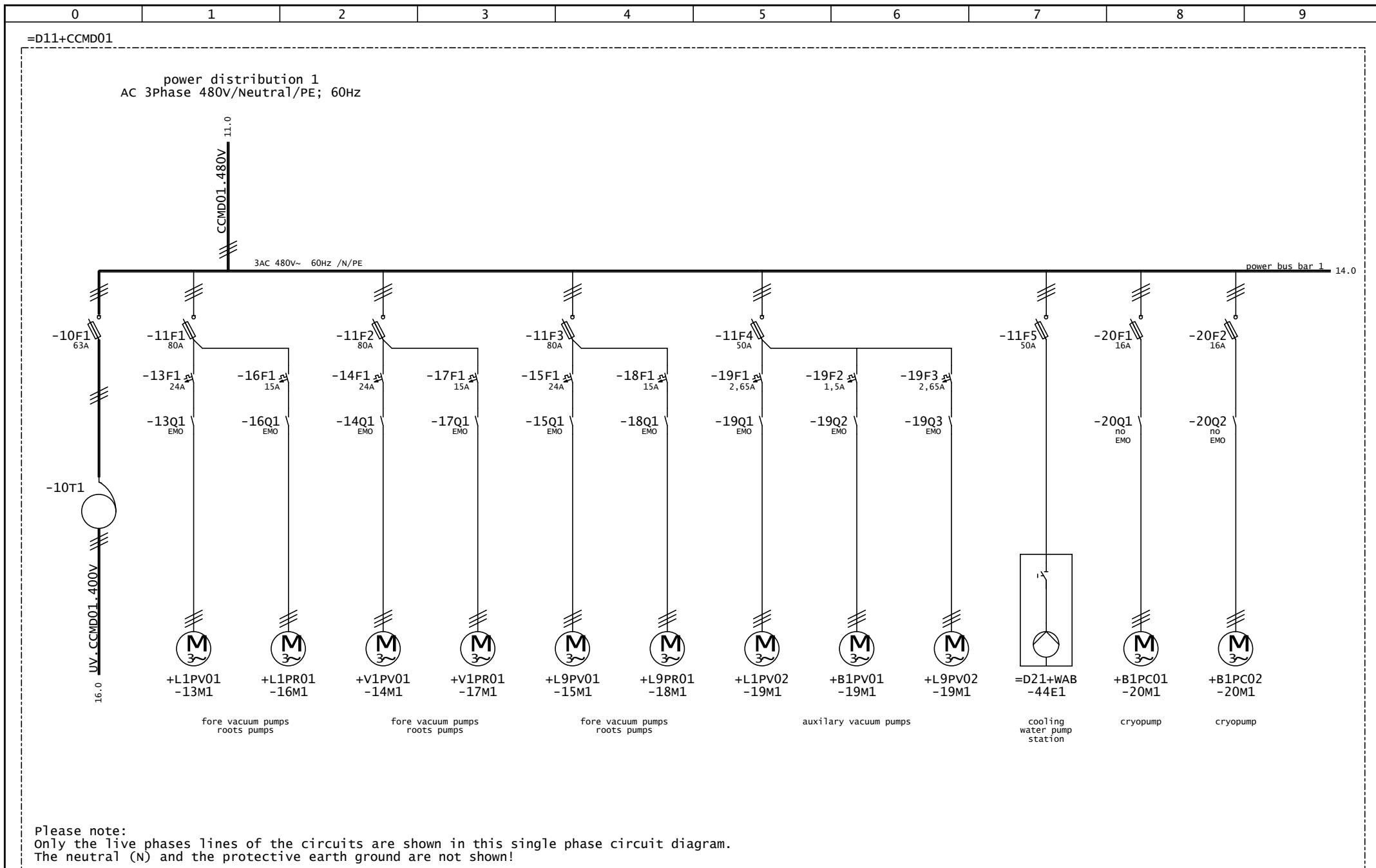
3 Stromkreise 1-ph AC115V / 60Hz fehlerstromgeschützt/GFCI protected



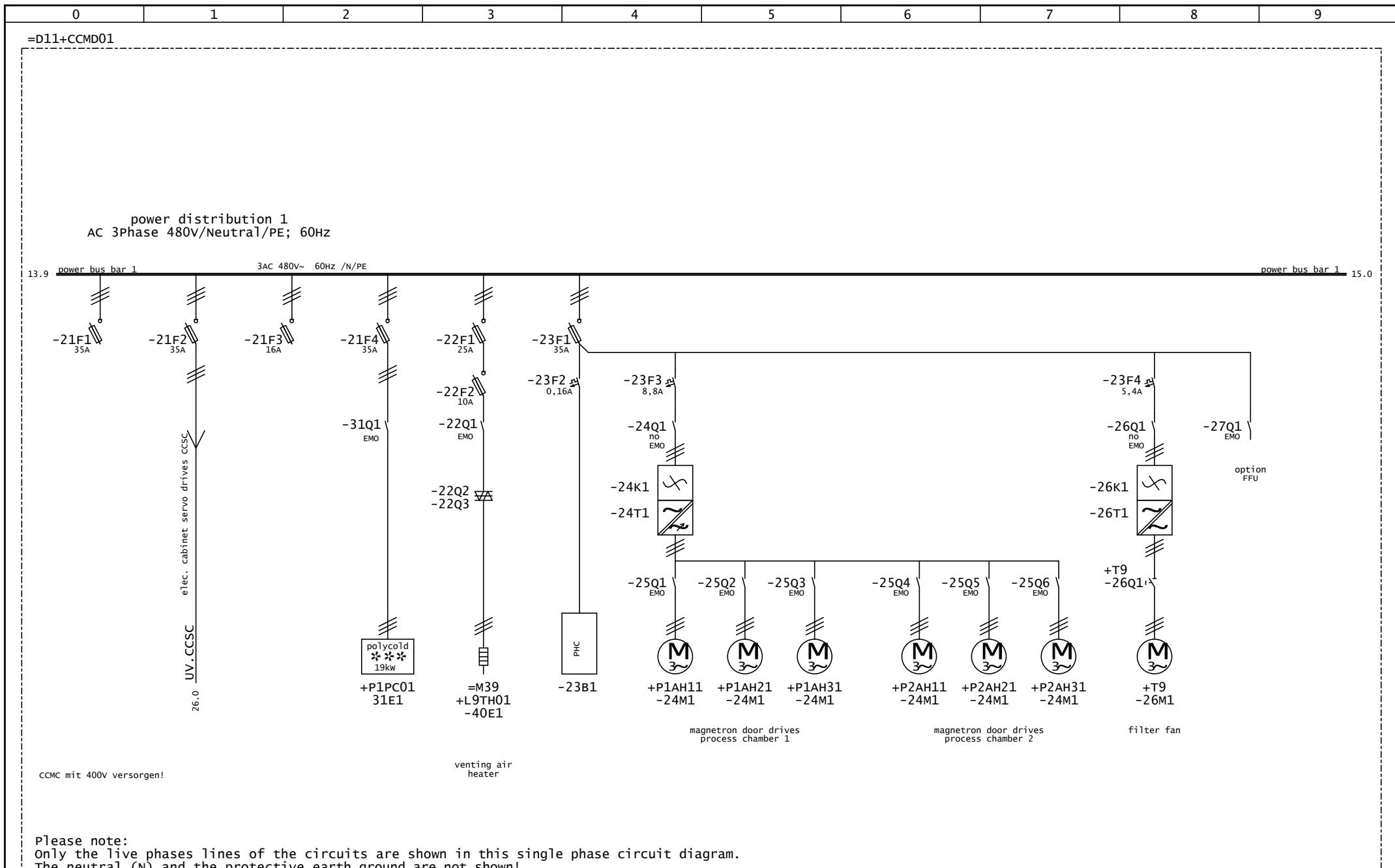
service sockets  
1AC 115V~ 60Hz /N/PE

Please note:  
Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution 115V sockets =C02	388-810000	P/005388	=B01
				devel.	Henker				+		
				check						sheet 12 of 26	
cond.	alter.	date	name	norm					< 11		13 >



date	12/05	devel.	Henker	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	power distribution 1 =D11	388-810000	P/005388	=B01
check									+
cond.	alter.	date	name				1-ph circuit diagram		sheet 13 of 26
			norm						< 12 14 >

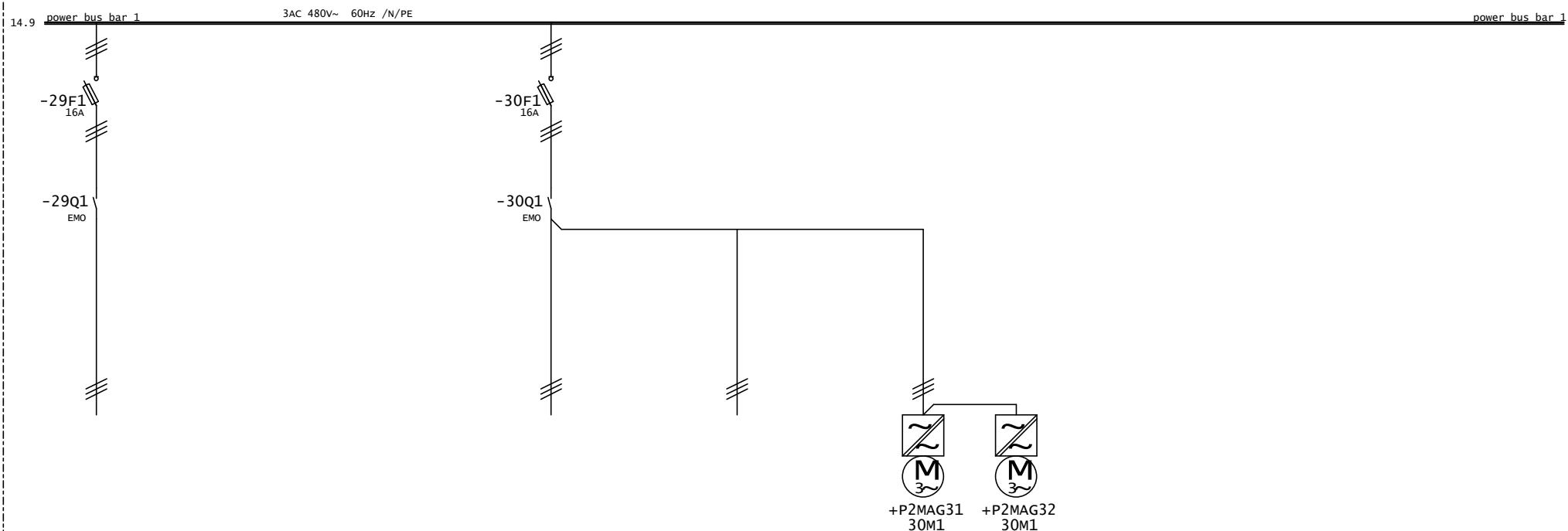


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	power distribution 1 =D11	388-810000	P/005388	=B01
				devel.	Henker				+		
				check							
cond.	alter.	date	name	norm					sheet 14 of 26		
									< 13	15 >	

0	1	2	3	4	5	6	7	8	9
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=D11+CCMD01

power distribution 1  
AC 3Phase 480V/Neutral/PE; 60Hz

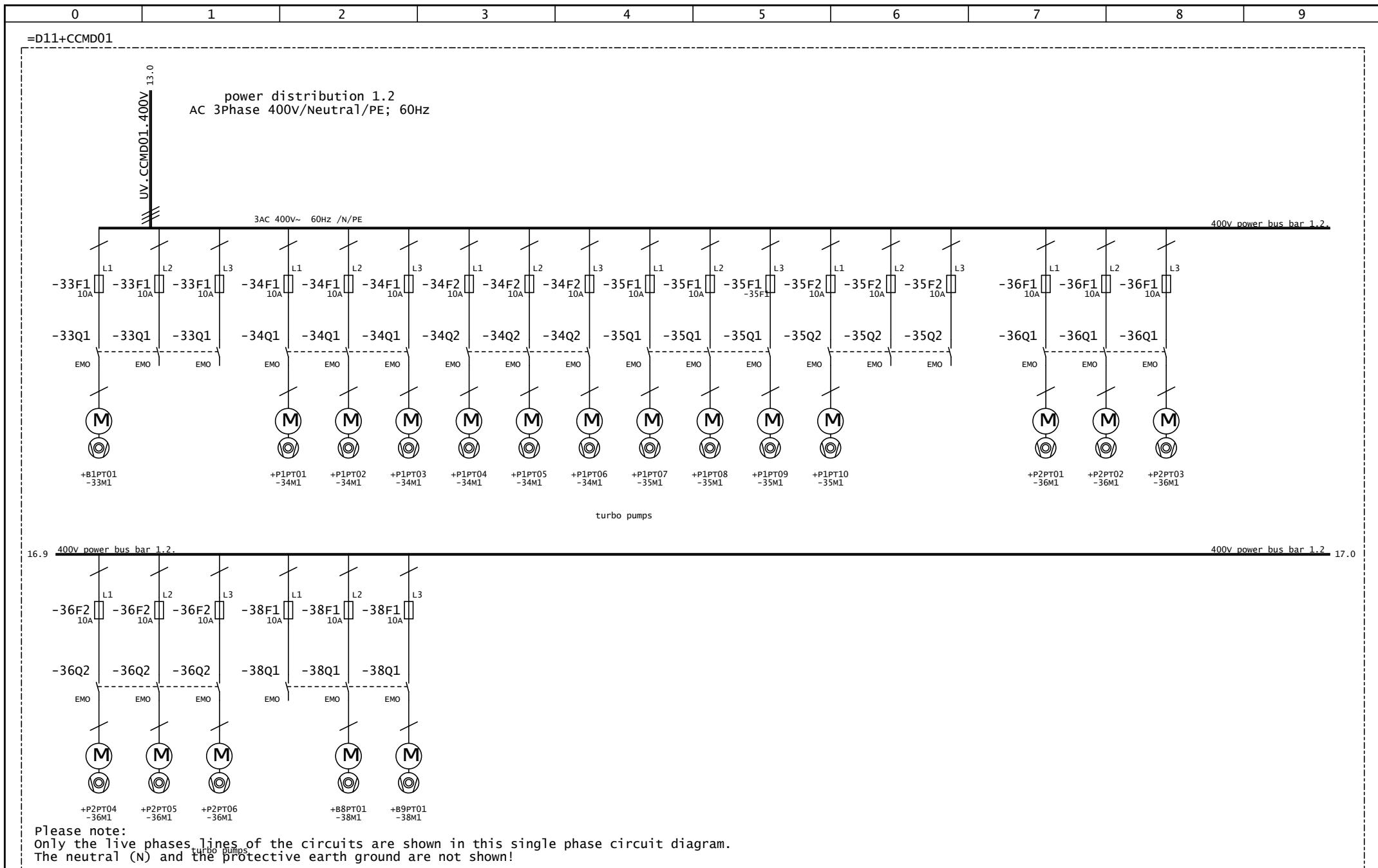


Please note:

Only the live phases lines of the circuits are shown in this single phase circuit diagram. The neutral (N) and the protective earth ground are not shown!

The neutral (N) and the protective earth ground are not shown.

				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution 1 =D11	388-810000	P/005388	=B01
				devel.	Henker				+ sheet 15	of 26	
				check					< 14		16 >
cond.	alter.	date	name	norm					1-ph circuit diagram		

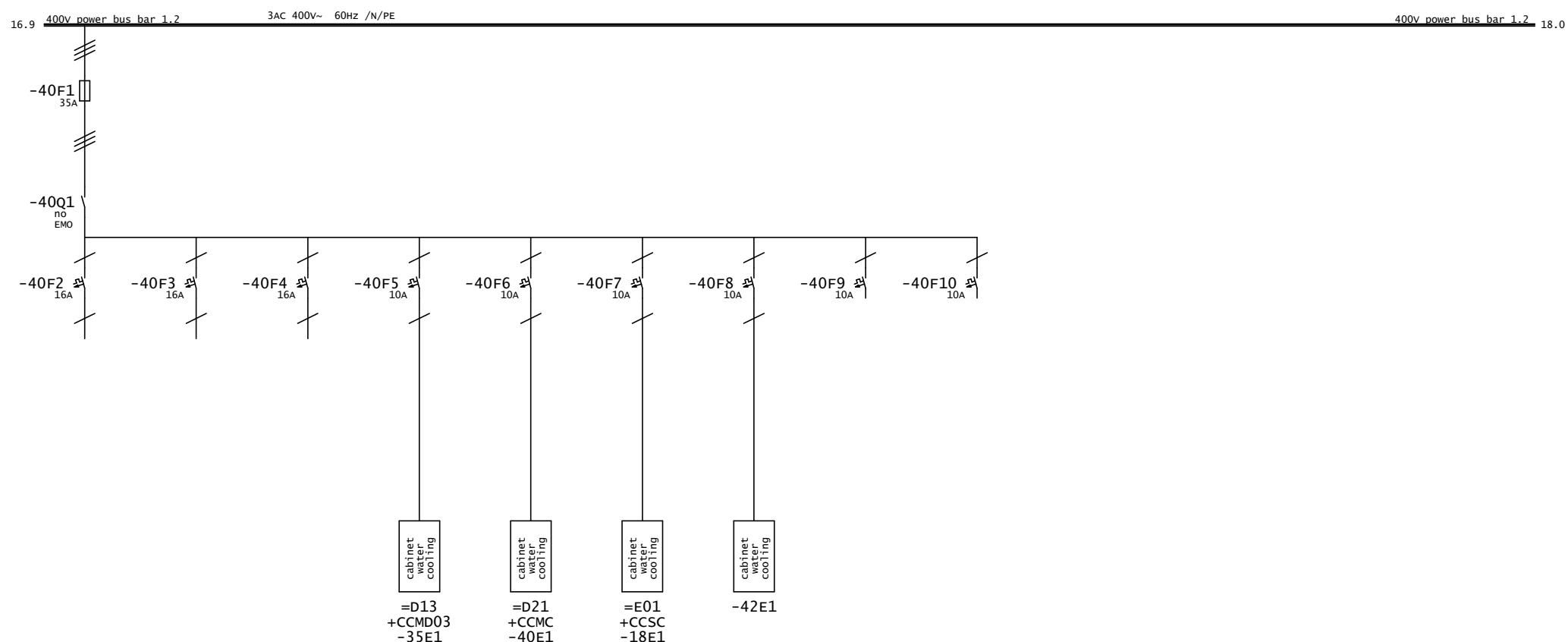


				date	12/05	A1500V-7 izn0_AZ0	LEYBOLD OPTICS	power distribution 1 =D11	388-810000	P/005388	=B01
				devel.	Henker						+
				check							sheet 16 of 26
cond.	alter.	date	name	norm					1-ph circuit diagram		< 15 17 >

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

=D11+CCMD01

power distribution 1.2  
AC 3Phase 400V/Neutral/PE; 60Hz



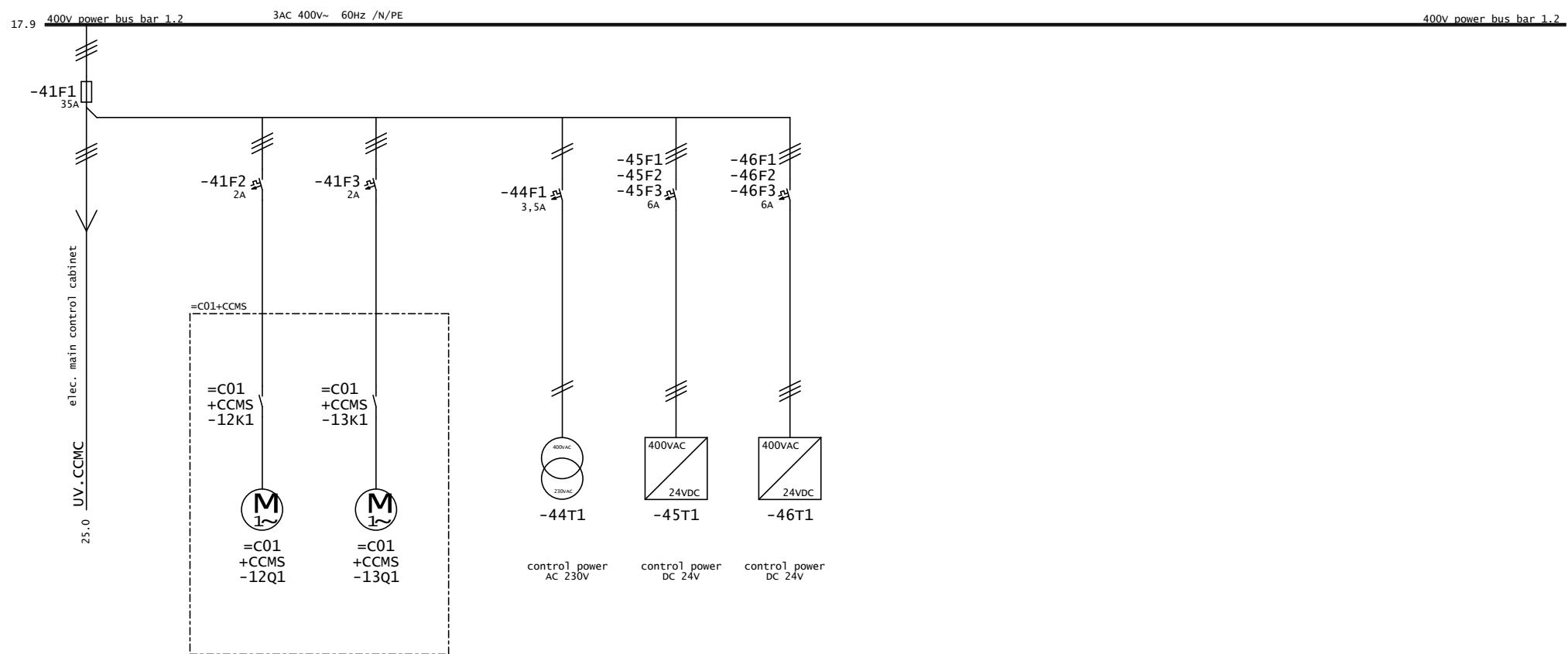
Please note:  
Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	power distribution 1 =D11	388-810000	P/005388	=B01
				devel.	Henker				+		
				check						sheet 17 of 26	
cond.	alter.	date	name	norm					< 16	18 >	

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

=D11+CCMD01

power distribution 1.2  
AC 3Phase 400V/Neutral/PE; 60Hz



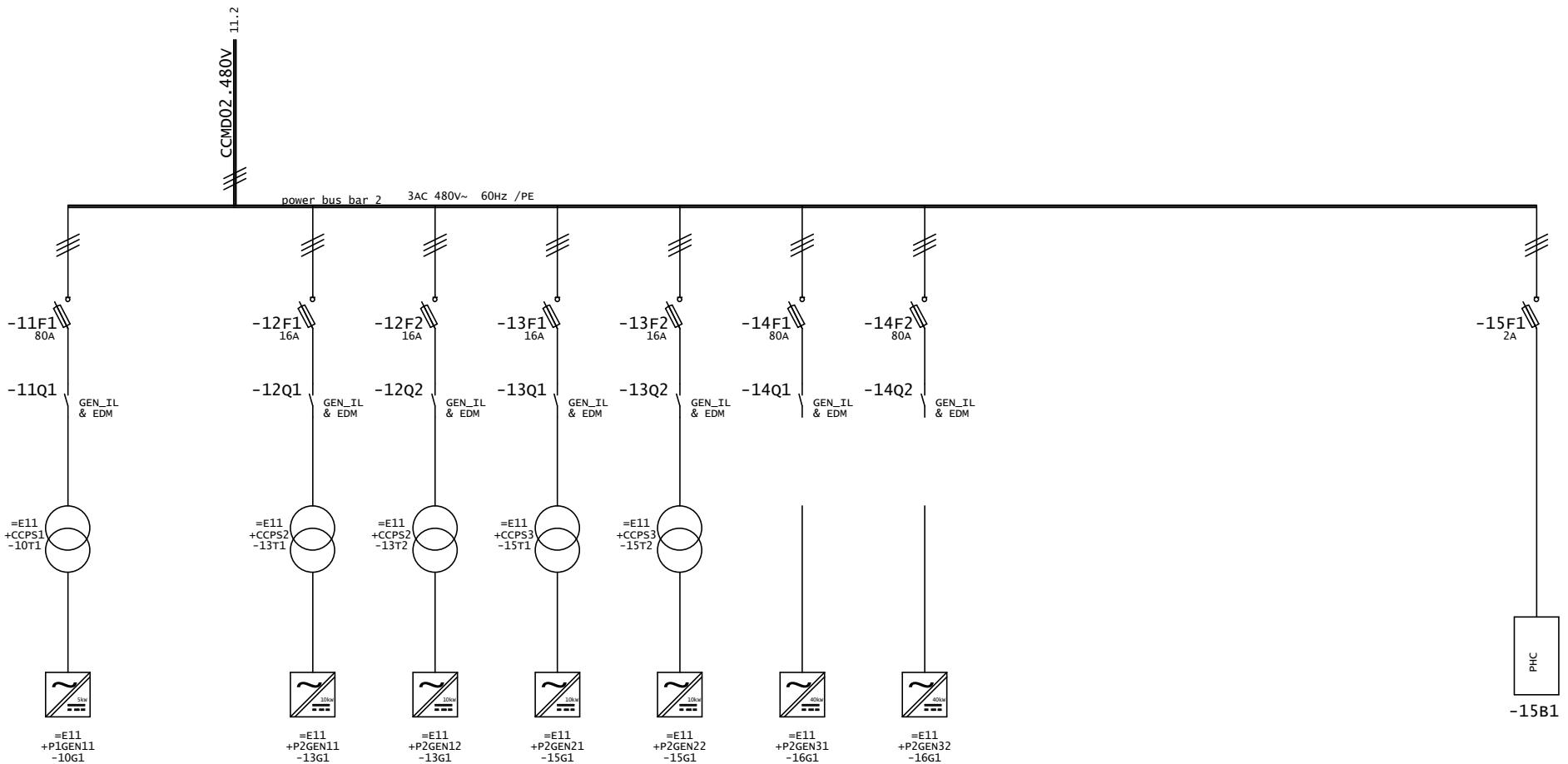
Please note:  
Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 izn0_AZ0	 <b>LEBOLD OPTICS</b>	power distribution 1 =D11	388-810000	P/005388	=B01
				devel.	Henker				+		
				check							
cond.	alter.		date	name	norm				sheet 18 of 26		
									< 17	19 >	

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

=D12+CCMD02

power distribution 2  
AC 3Phase 480V/Neutral/PE; 60Hz



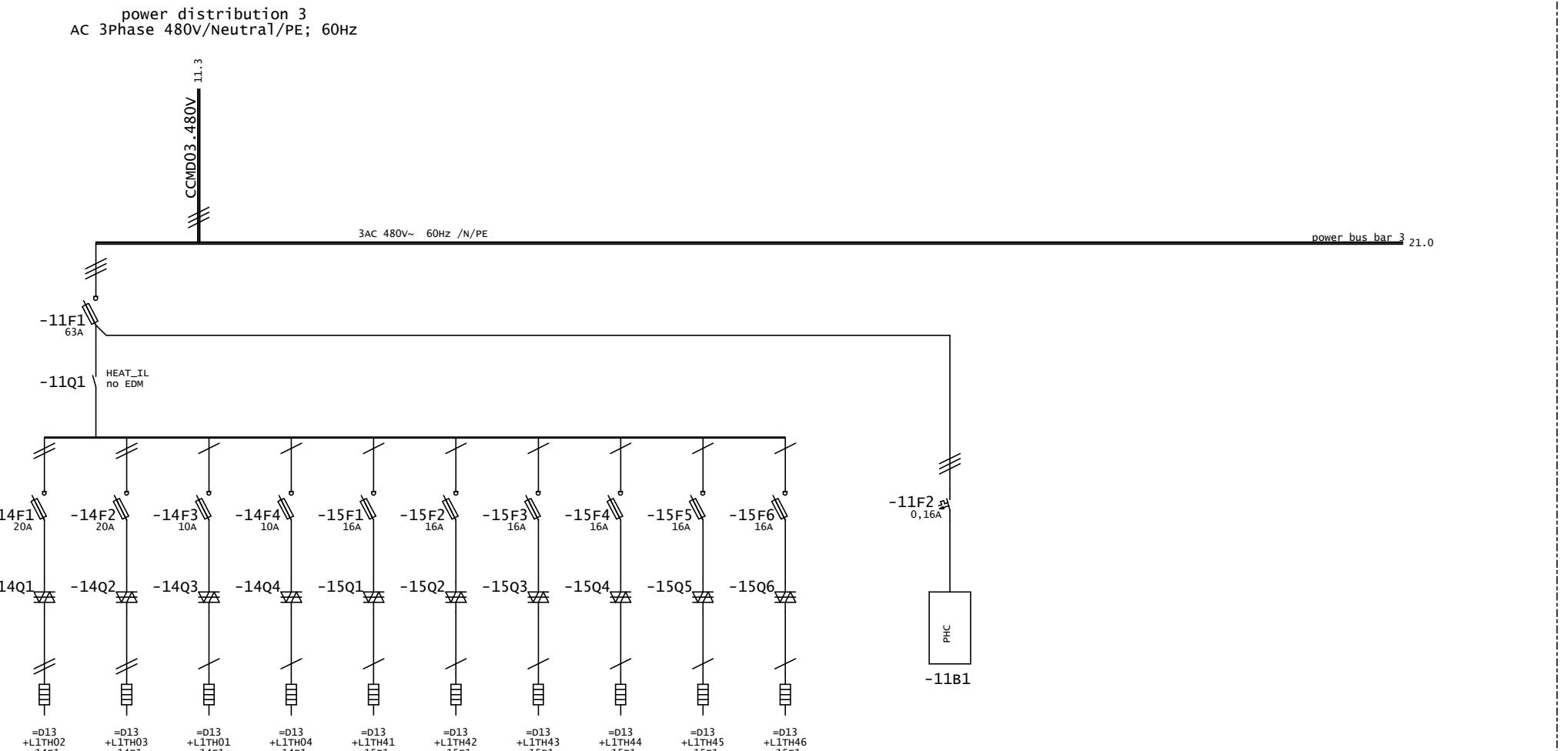
## Please note:

Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	power distribution 2 =D12	388-810000	P/005388	=B01
				devel.	Henker				+		
				check							
cond.	alter.	date	name	norm					sheet 19 of 26		
									< 18		20 >

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

=D13+CCMD03

**Please note:**

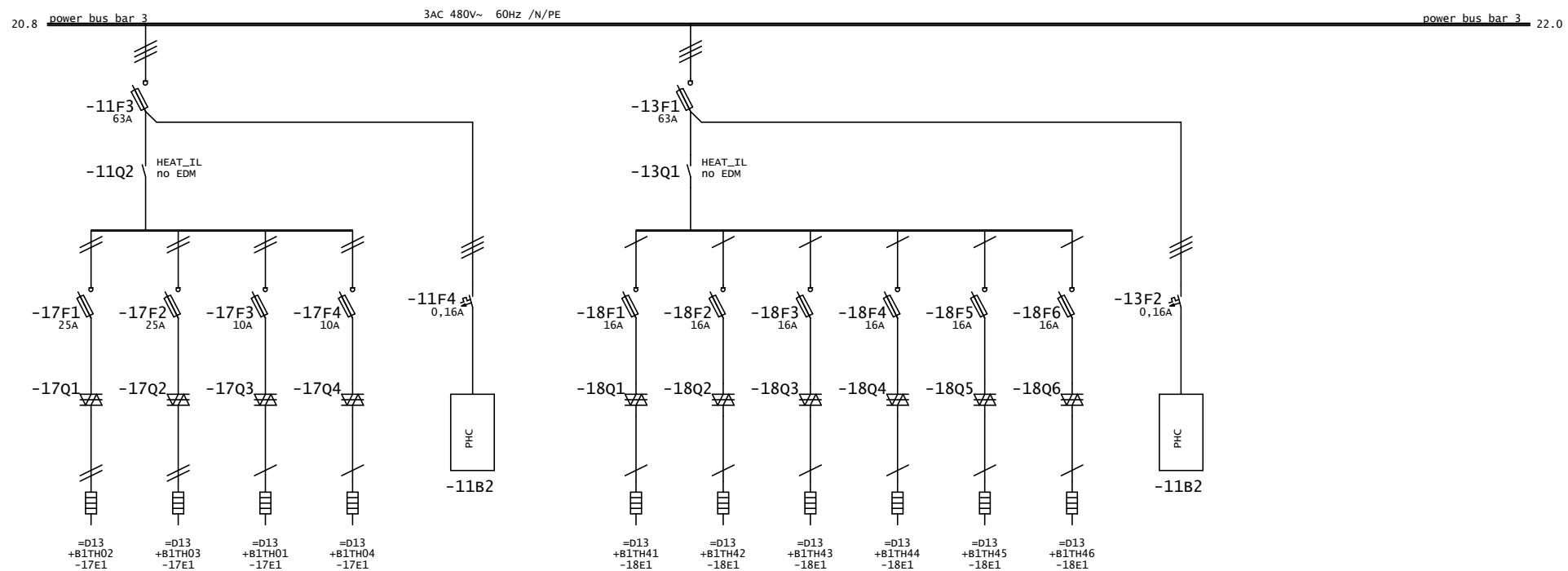
Only the live phases lines of the circuits are shown in this single phase circuit diagram.  
The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution 3 =D13	388-810000	P/005388	=B01
				devel.	Henker				+		
				check							
cond.	alter.	date	name	norm					sheet 20 of 26		
									< 19	21 >	

0      1      2      3      4      5      6      7      8      9

=D13+CCMD03

### power distribution 3



Please note:

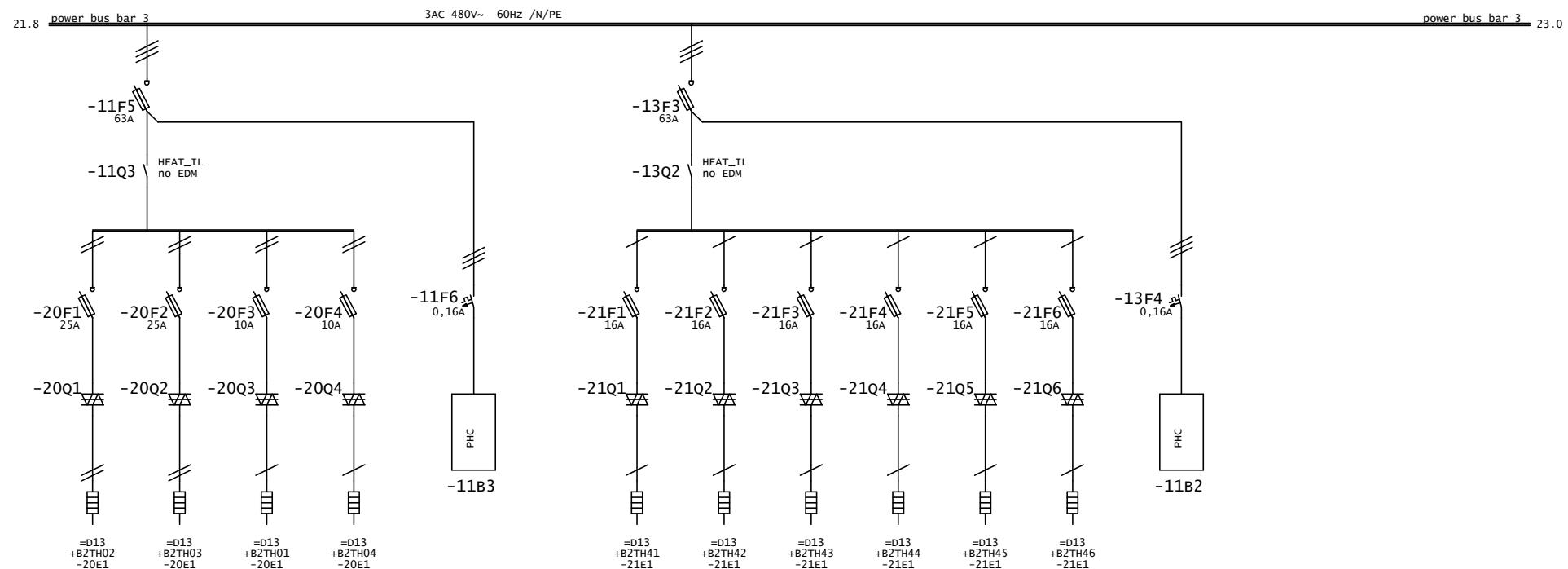
Only the live phases lines of the circuits are shown in this single phase circuit diagram. The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution 3 =D13	388-810000	P/005388	=B01
				devel.	Henker				+ sheet 21	of 26	
				check					< 20		22 >
cond.	alter.	date	name	norm					1-ph circuit diagram		

0      1      2      3      4      5      6      7      8      9

=D13+CCMD03

power distribution 3  
AC 3Phase 480V/Neutral/PE; 60Hz



Please note:

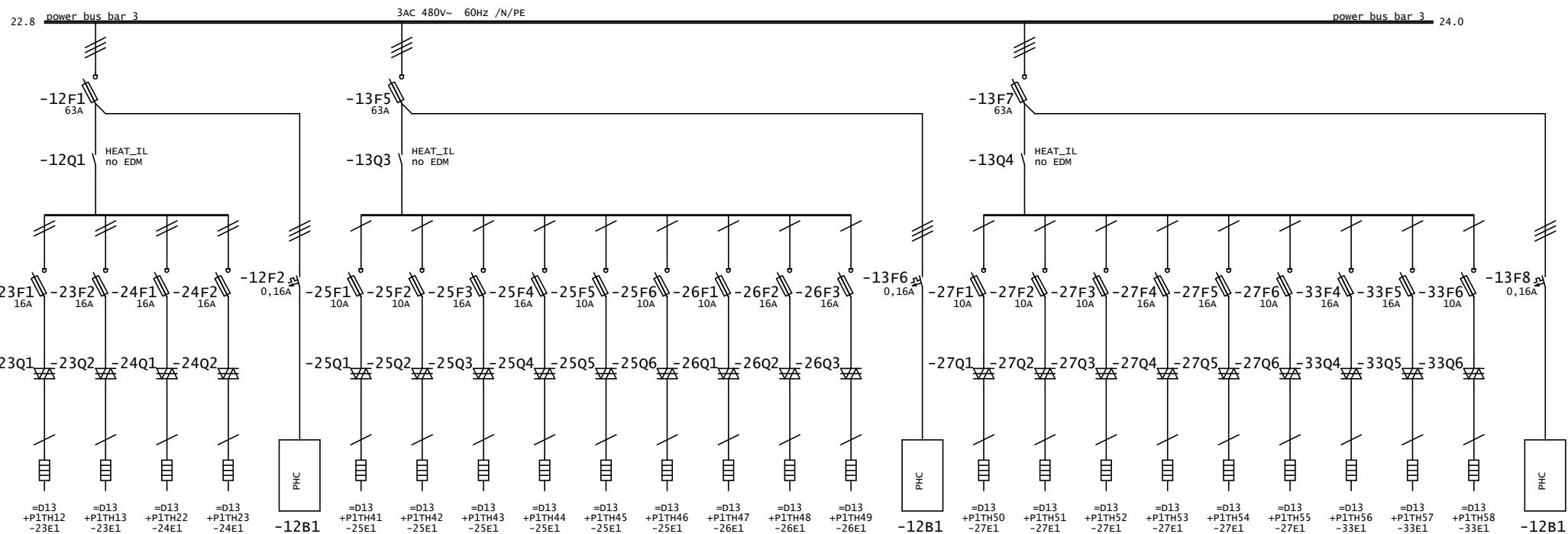
Only the live phases lines of the circuits are shown in this single phase circuit diagram. The neutral (N) and the protective earth ground are not shown!

			date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	power distribution 3 =D13	388-810000	P/005388	=B01
			devel.	Henker				+ sheet 22	of 26	
			check					< 21		
cond.	alter.	date	name	norm						> 23 >

0 1 2 3 4 5 6 7 8 9

=D13+CCMD03

power distribution 3  
AC 3Phase 480V/Neutral/PE; 60Hz



Please note:

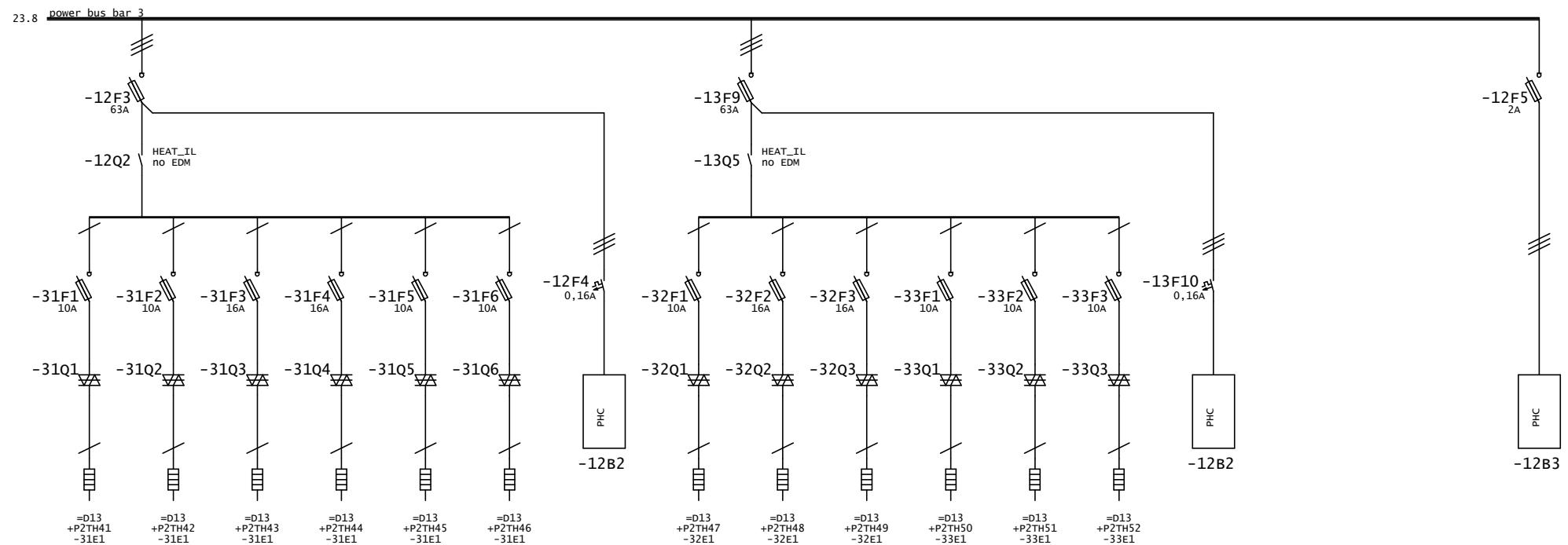
Only the live phases lines of the circuits are shown in this single phase circuit diagram. The neutral (N) and the protective earth ground are not shown!

				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	power distribution 3 =D13	388-810000	P/005388	=801
				devel.	Henker				+ sheet 23	of 26	
				check					< 22	24 >	
cond.	alter.	date	name	norm							

0 1 2 3 4 5 6 7 8 9

=D13+CCMD03

power distribution 3  
AC 3Phase 480V/Neutral/PE; 60Hz

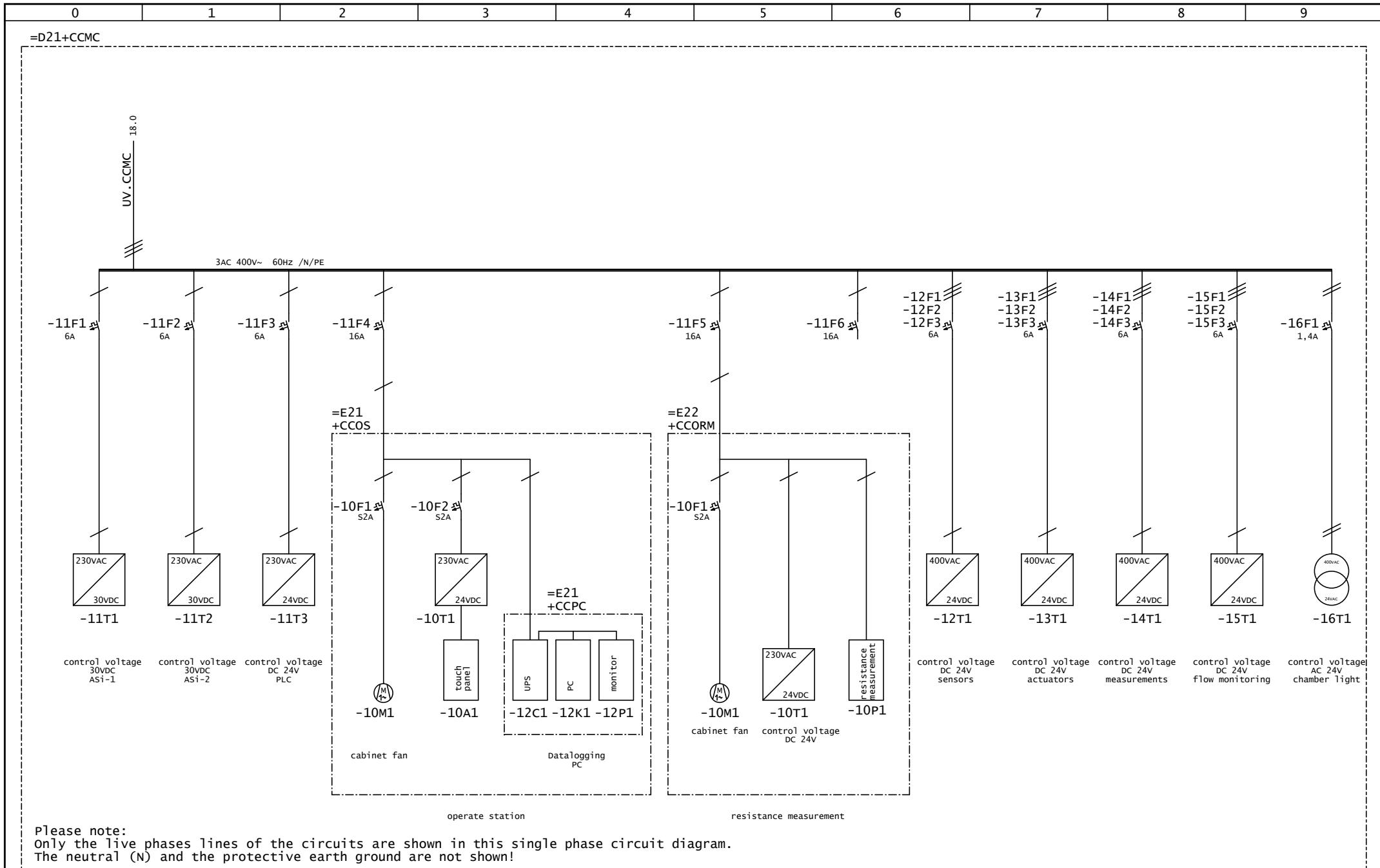


Please note:

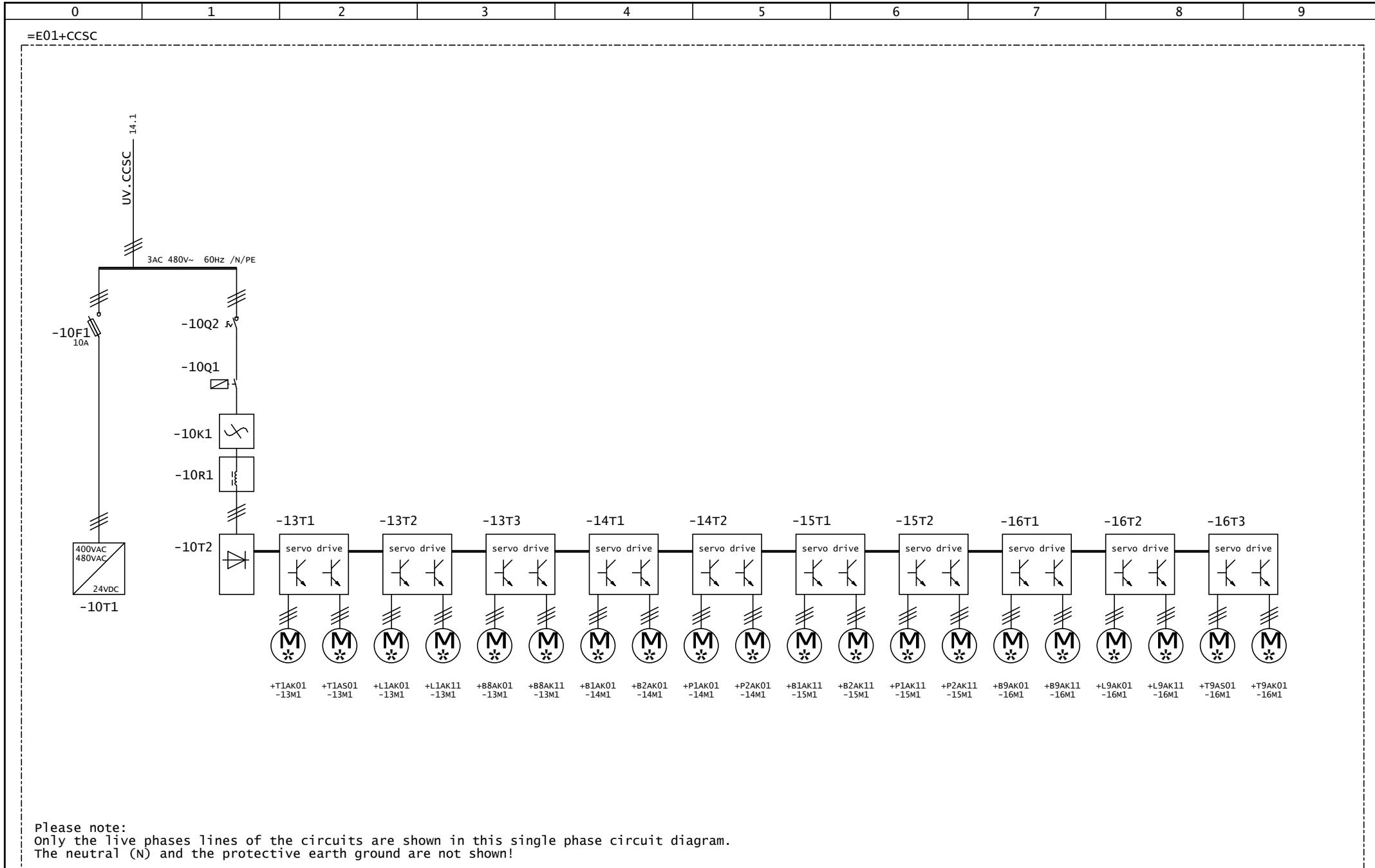
Only the live phases lines of the circuits are shown in this single phase circuit diagram. The neutral (N) and the protective earth ground are not shown!

The neutral (N) and the protective earth ground are not shown.

				date	12/05	A1500V-7 izn0_Az0	 LEYBOLD OPTICS	power distribution 3 =D13	388-810000	P/005388	=B01
				devel.	Henker				+ sheet 24	of 26	
				check					< 23	25 >	
cond.	alter.	date	name	norm							



				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	power distribution main control =D21	388-810000	P/005388	=B01
				devel.	Henker				+		
				check						sheet 25 of 26	
cond.	alter.	date	name	norm					< 24		26 >



date	12/05	devel.	Henker	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	power distributuon servo control =E01	388-810000	P/005388	=B01
check									+
cond.	alter.	date	name				1-ph circuit diagram		=B02/20 >
							< 25		=B02/20 >

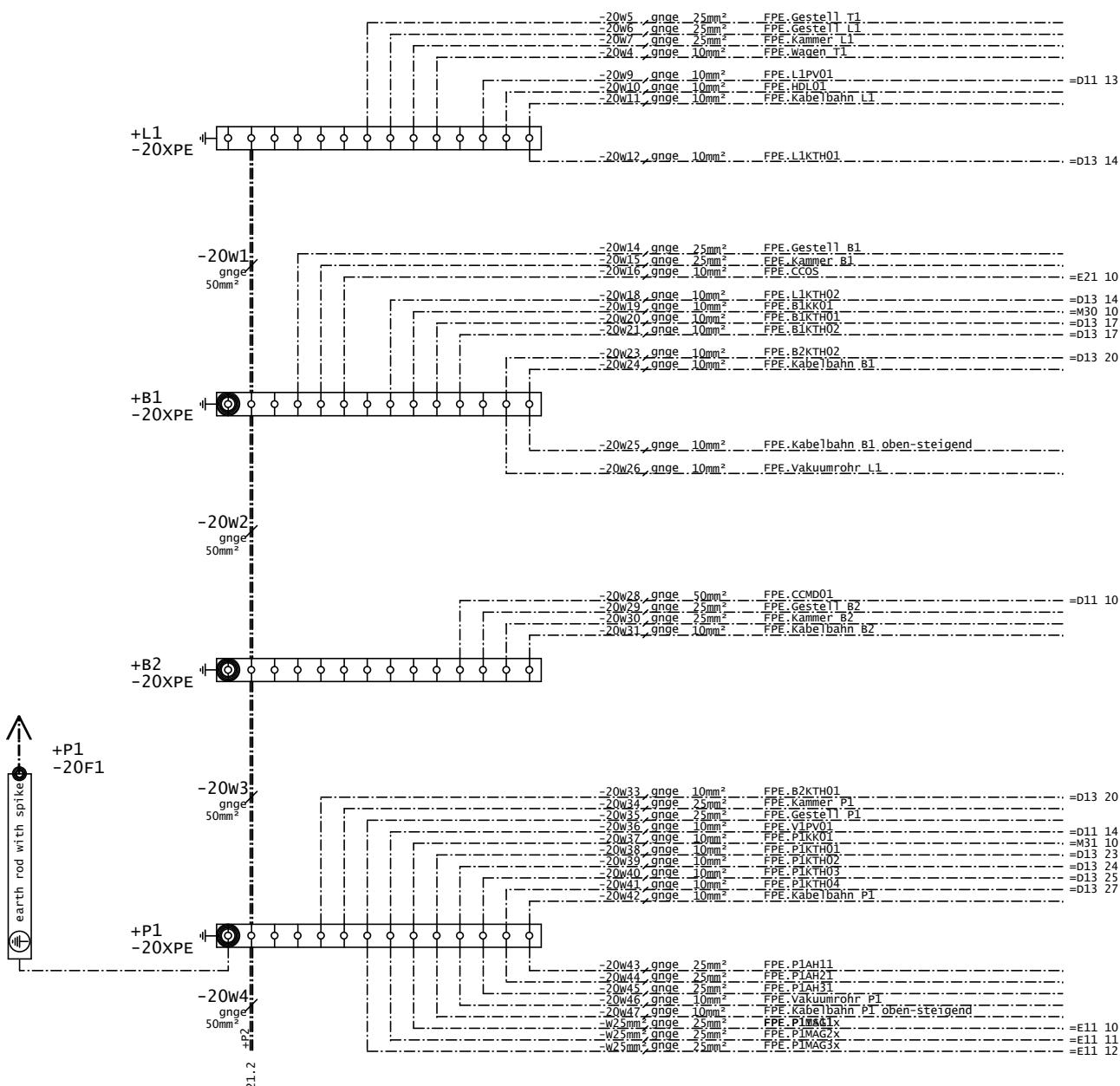
# partial arrangement:

## =B02

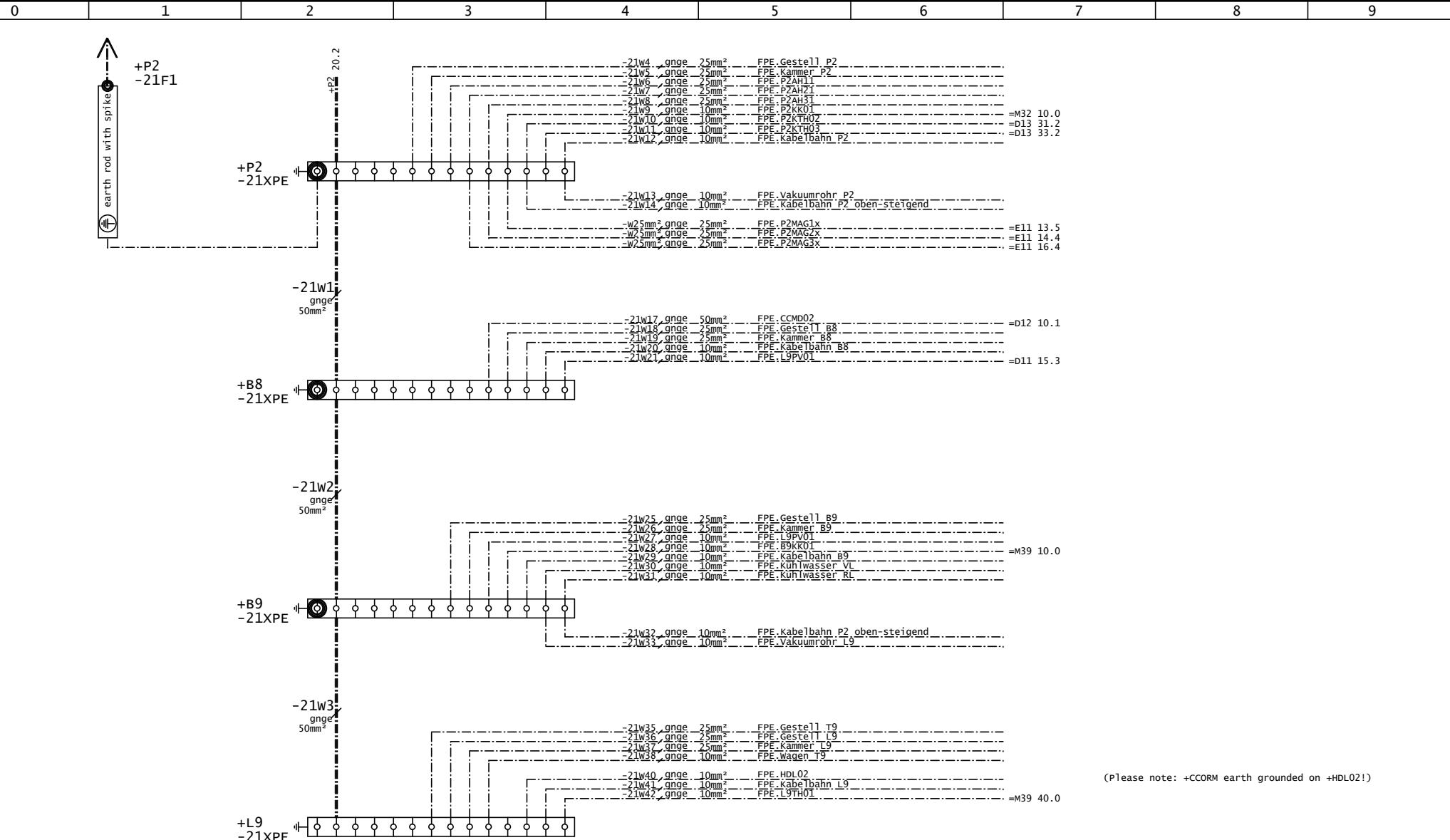
### earth ground schematic, Profibus

machine number: 011003	year of manufacture: >
 LEYBOLD OPTICS LEYBOLD OPTICS DRESDEN GmbH Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42	remark :
Plant built according to: safety of machines - Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker
cover sheet	P/005388 388-810000

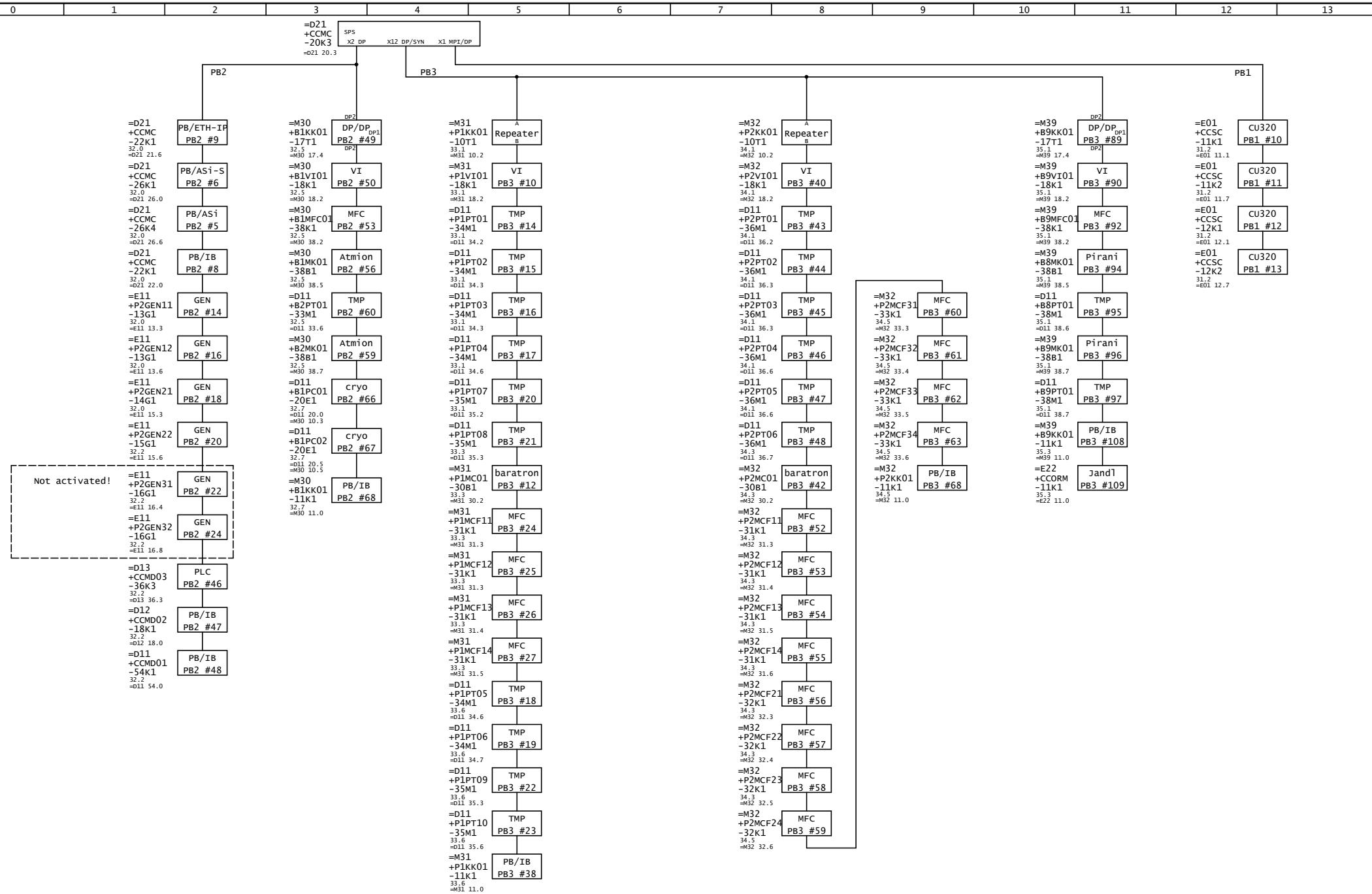
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



				date	12/05	A1500V-7 iznO_AZ0		grounding scheme L1-P1	388-810000	P/005388	=B02
				devel.	Henker				+ES		
				check						sheet 20	of 35
cond.	alter.	date	name	norm					<=B01/26	21 >	

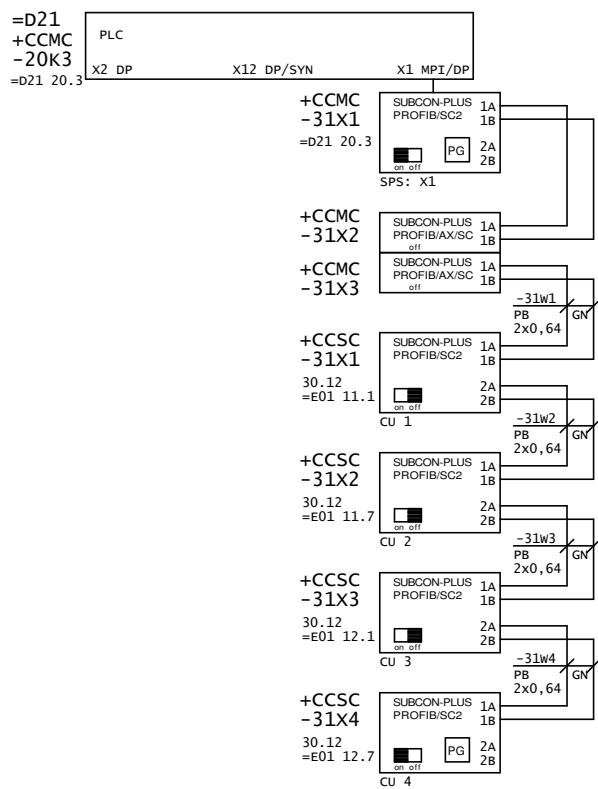


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	grounding scheme P2-L9	388-810000	P/005388	=B02
				devel.	Henker				+ES		
				check					sheet 21	of 35	
cond.	alter.	date	name	norm					< 20		30 >

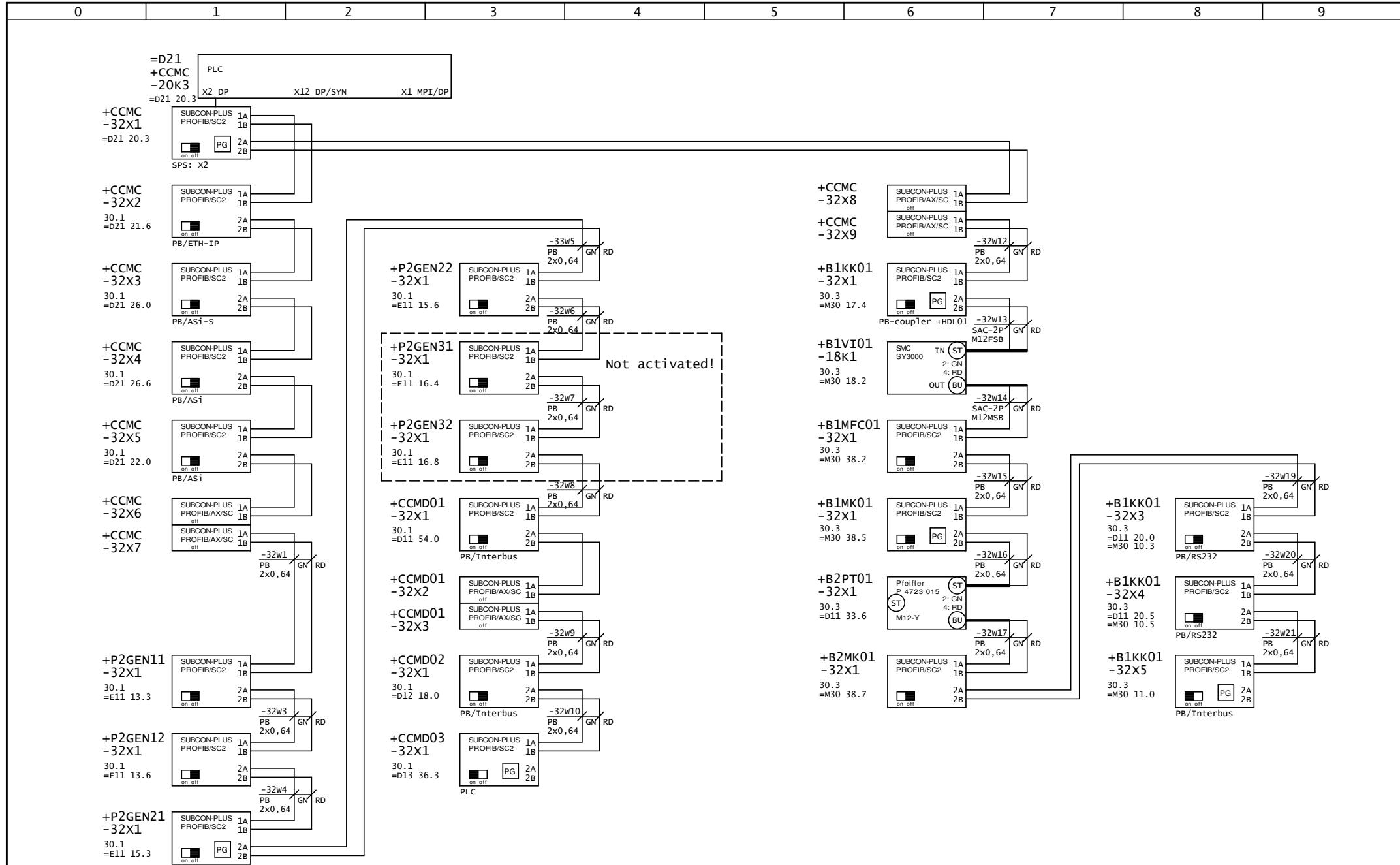


			date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	Profibus overview	388-810000	P/005388	=A01
			devel.	Henker				+PB		
			check						sheet 30 of 35	
cond.	alter.	date	name	norm				circuit diagram	<21	31

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	Profibus line 1	388-810000	P/005388	=B02
				devel.	Henker				+PB		
				check					sheet 31 of 35		
cond.	alter.	date	name	norm					< 30		32 >



				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	Profibus line 2	<b>388-810000</b>	P/005388	=B02
				devel.	Henker				+PB		
				check						sheet 32	of 35
cond.	alter.	date	name	norm						< 31	33 >

This diagram illustrates a detailed industrial control system architecture across nine horizontal sections (0-9). The connections are organized into several main functional groups:

- Section 0:** A central PLC block labeled "PLC" receives digital inputs X2 DP and X12 DP/SYN, and sends output X1 MPI/DP.
- Section 1:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to various logic nodes (e.g., PG, M12-Y, BU) and analog inputs (e.g., -33w1 to -33w7).
- Section 2:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w8 to -33w15).
- Section 3:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w16 to -33w23).
- Section 4:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w24 to -33w31).
- Section 5:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w32 to -33w39).
- Section 6:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w40 to -33w47).
- Section 7:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w48 to -33w55).
- Section 8:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w56 to -33w63).
- Section 9:** A "SUBCON-PLUS PROFIB/SC2" module (1A, 1B) is connected to logic nodes (PG, M12-Y, BU) and analog inputs (-33w64 to -33w71).

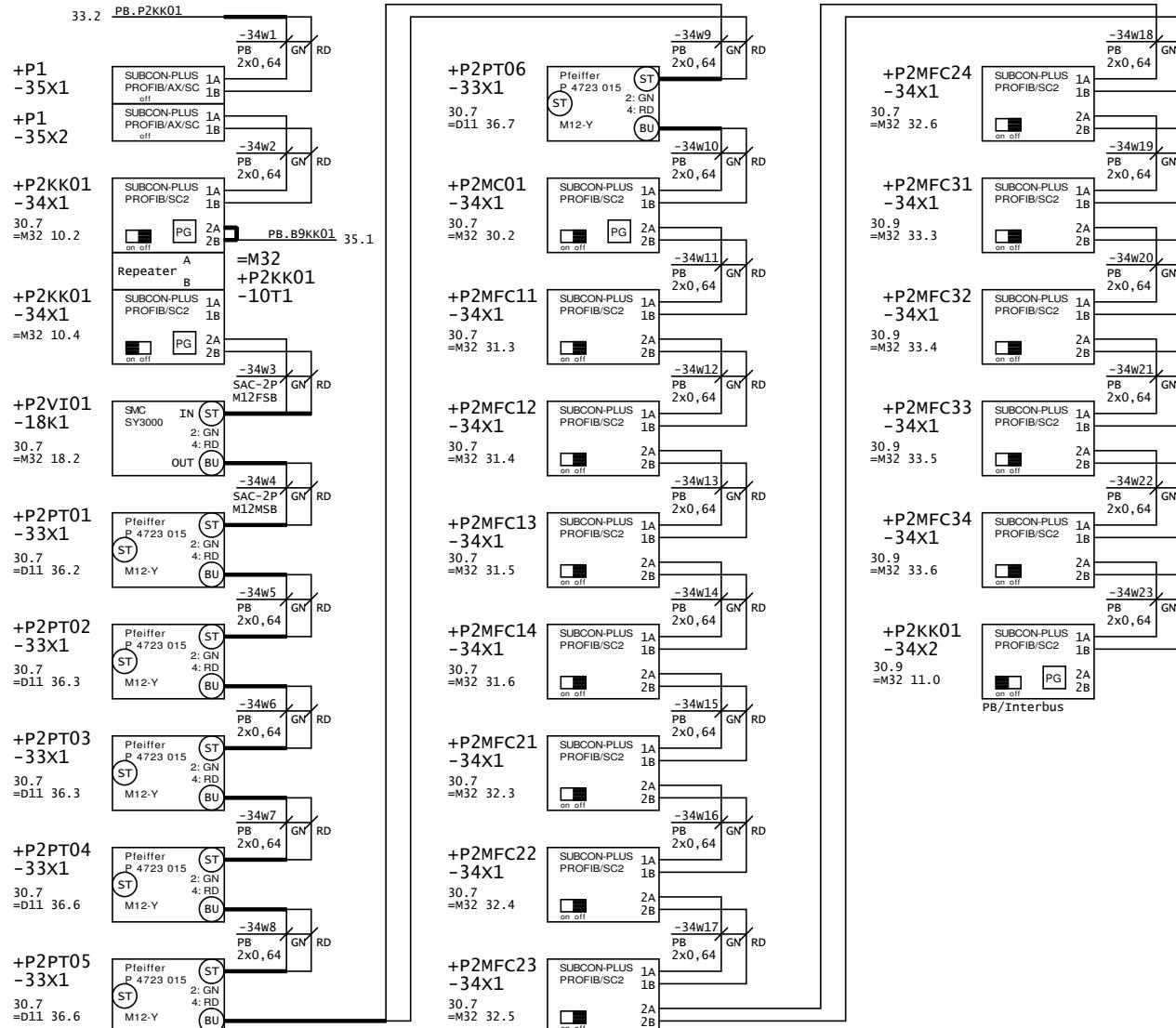
External components and specific connections include:

- Section 1:** A "Repeater A" and "Repeater B" are connected to the PLC and various modules.
- Section 2:** A "SMC SY3000" unit is connected to the PLC and various modules.
- Section 3:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 4:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 5:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 6:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 7:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 8:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.
- Section 9:** A "Pfeiffer P 4723 015" sensor is connected to the PLC and various modules.

The connections involve a mix of digital inputs (X2 DP, X12 DP/SYN, X1 MPI/DP), analog inputs (-33w1 to -33w71), and logic nodes (PG, M12-Y, BU) throughout the system.

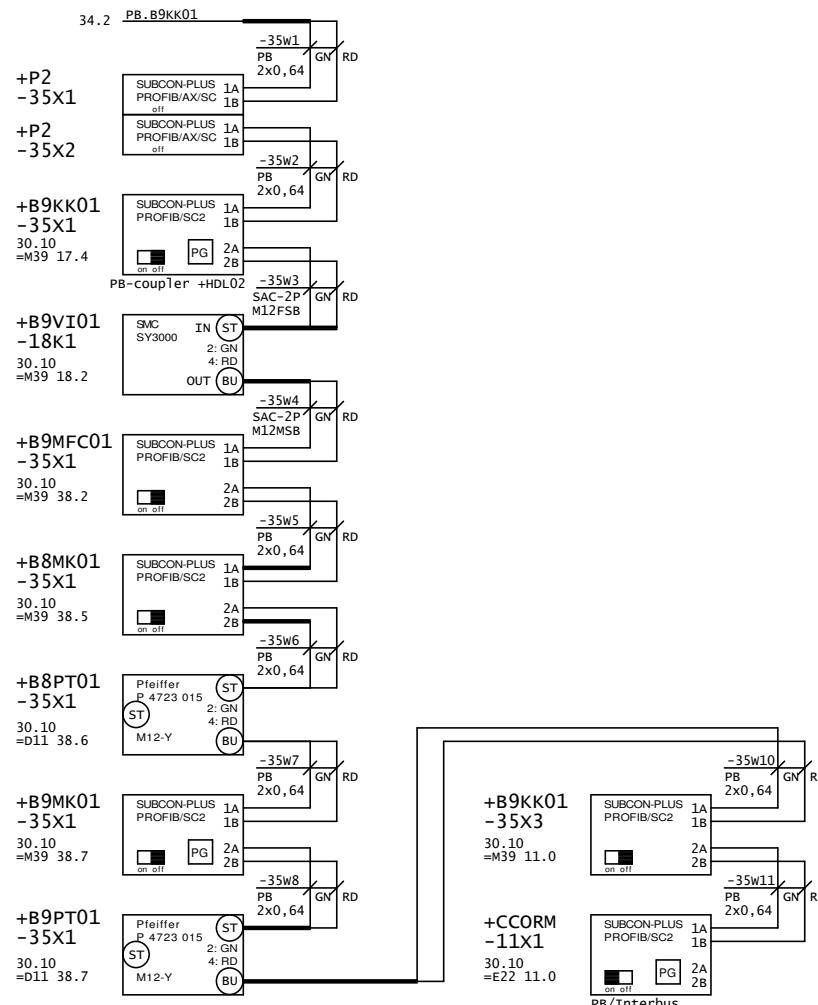
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	Profibus line 3	388-810000	P/005388	=B02
				devel.	Henker				+PB		
				check						sheet 33	of 35
cond.	alter.	date	name	norm					< 32	34 >	

0 1 2 3 4 5 6 7 8 9



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	Profibus line 3	388-810000	P/005388	=B02
				devel.	Henker				+PB		
				check						sheet 34	of 35
cond.	alter.	date	name	norm						< 33	35 >

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	Profibus line 3	388-810000	P/005388	=B02
				devel.	Henker				+PB		
				check							
cond.	alter.	date	name	norm					circuit diagram		
									< 34	=C01/6 >	

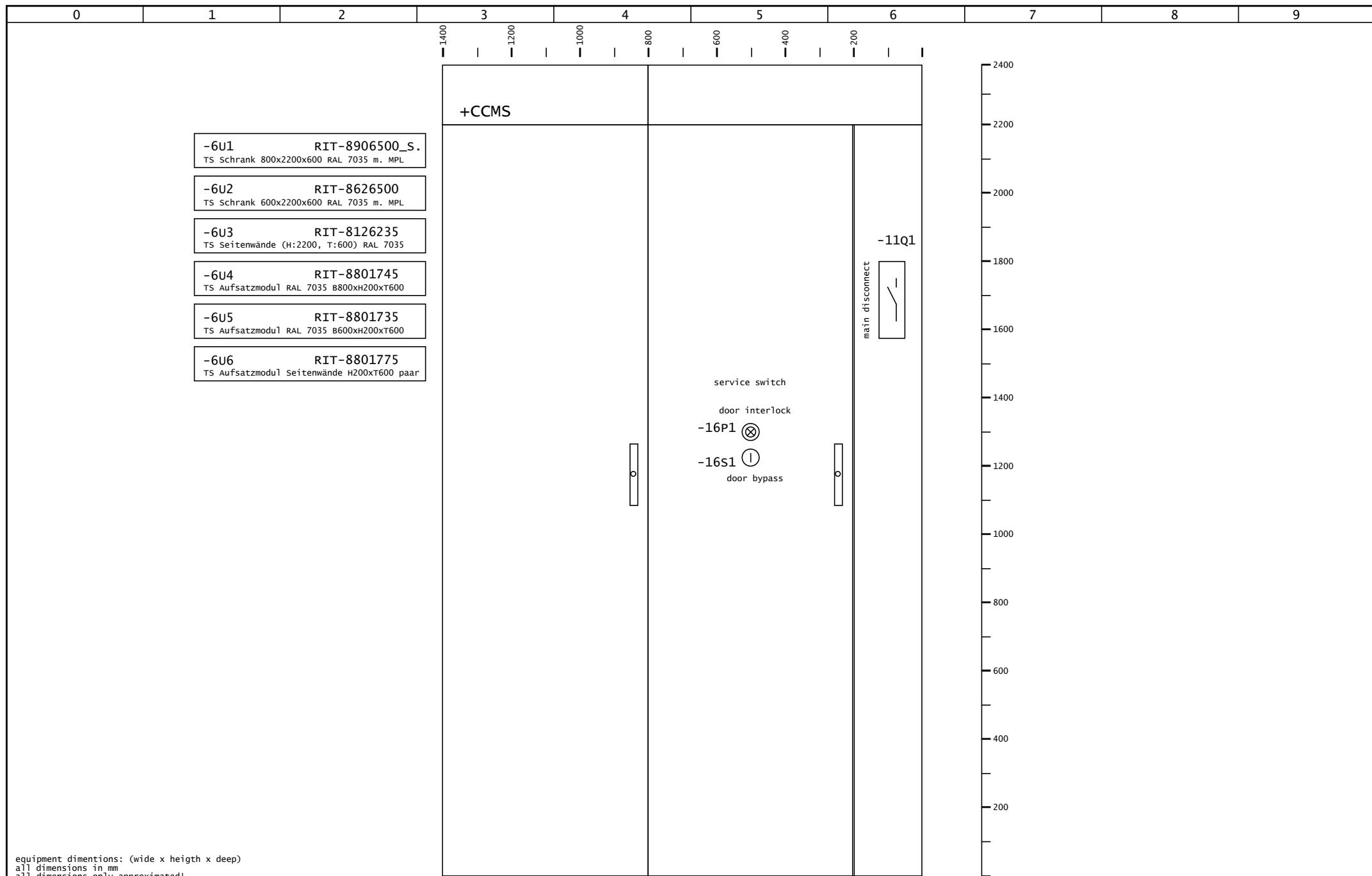
# partial arrangement:

## =C01

### feed-in

machine number: 011003	year of manufacture: 2010
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42	remark :
Plant built according to: safety of machines - Elektrische Ausrüstung von Maschinen	<b>EN 60 204</b> (VDE 0113/1)

Date: 12/05	Developer: Henker	cover sheet	P/005388	388-810000
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equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

all dimensions only approximated!				date	12/05
				devel.	Henker
				check	
cond.	alter.	date	name	norm	

A1500v-7 iznO\_AZO



LEYBOLD OPTICS

## layout outside

388-810000

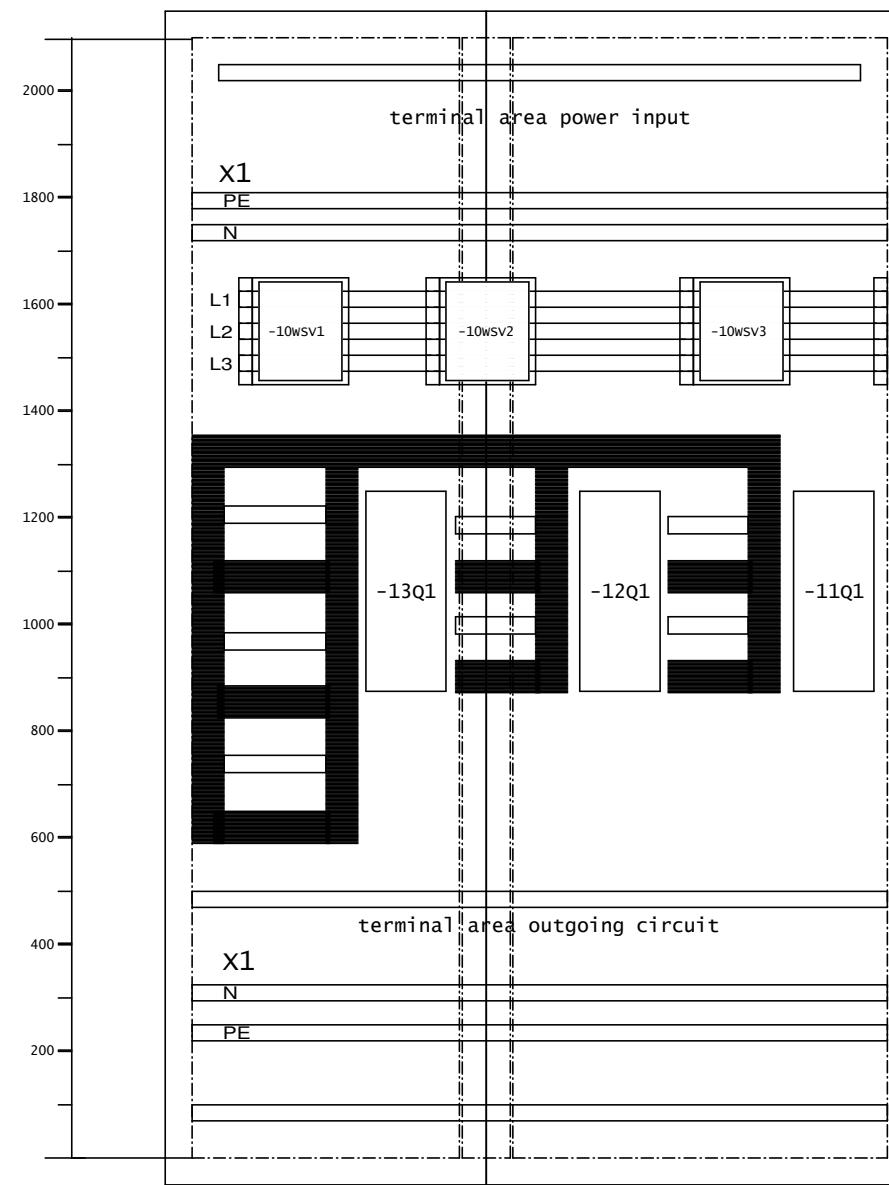
P/005388

=C01	
+CCMS	
sheet 6	of 16
<=B02/35	7 >

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

1400 | 1200 | 1000 | 800 | 600 | 400 | 200 |

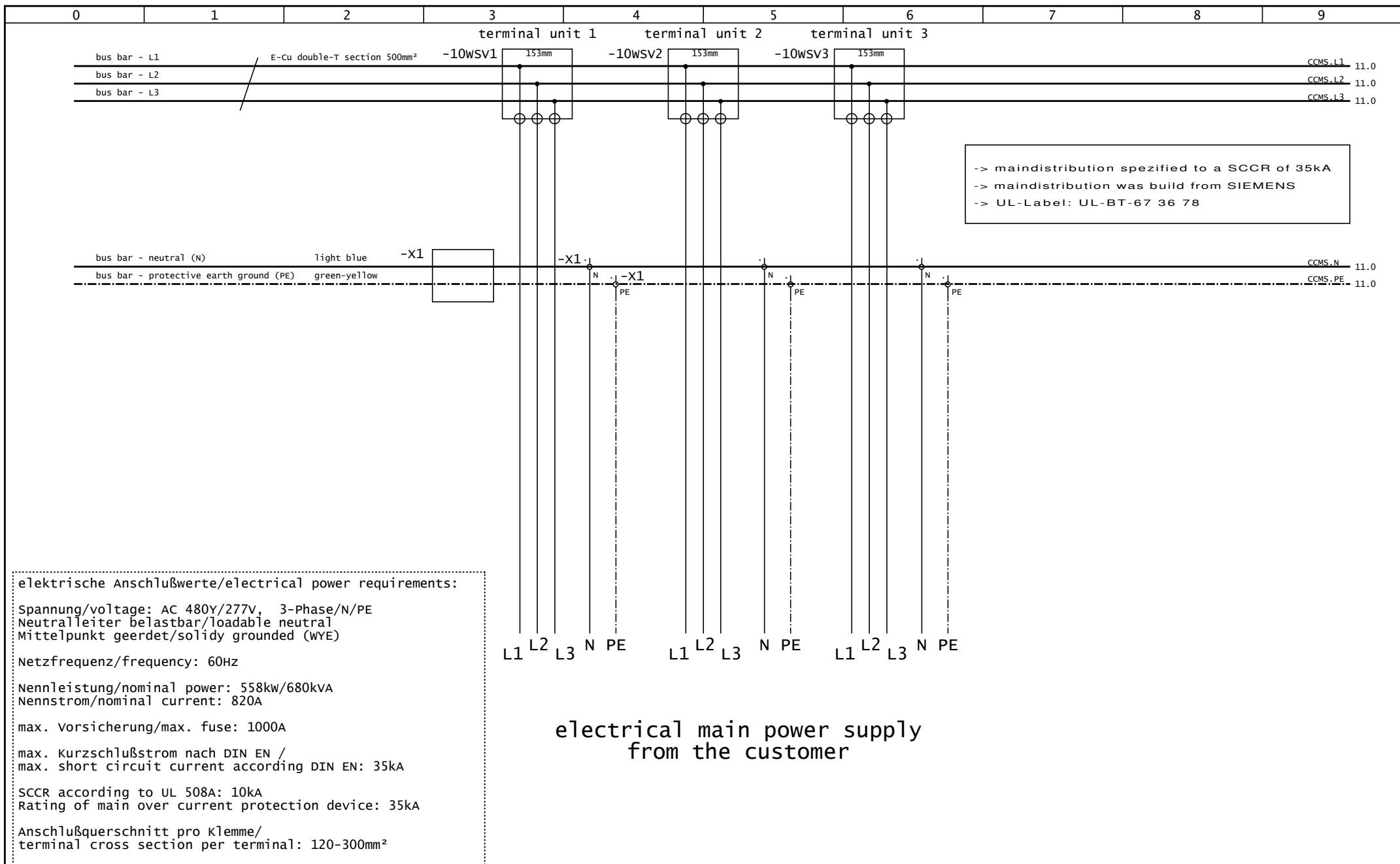
+CCMS



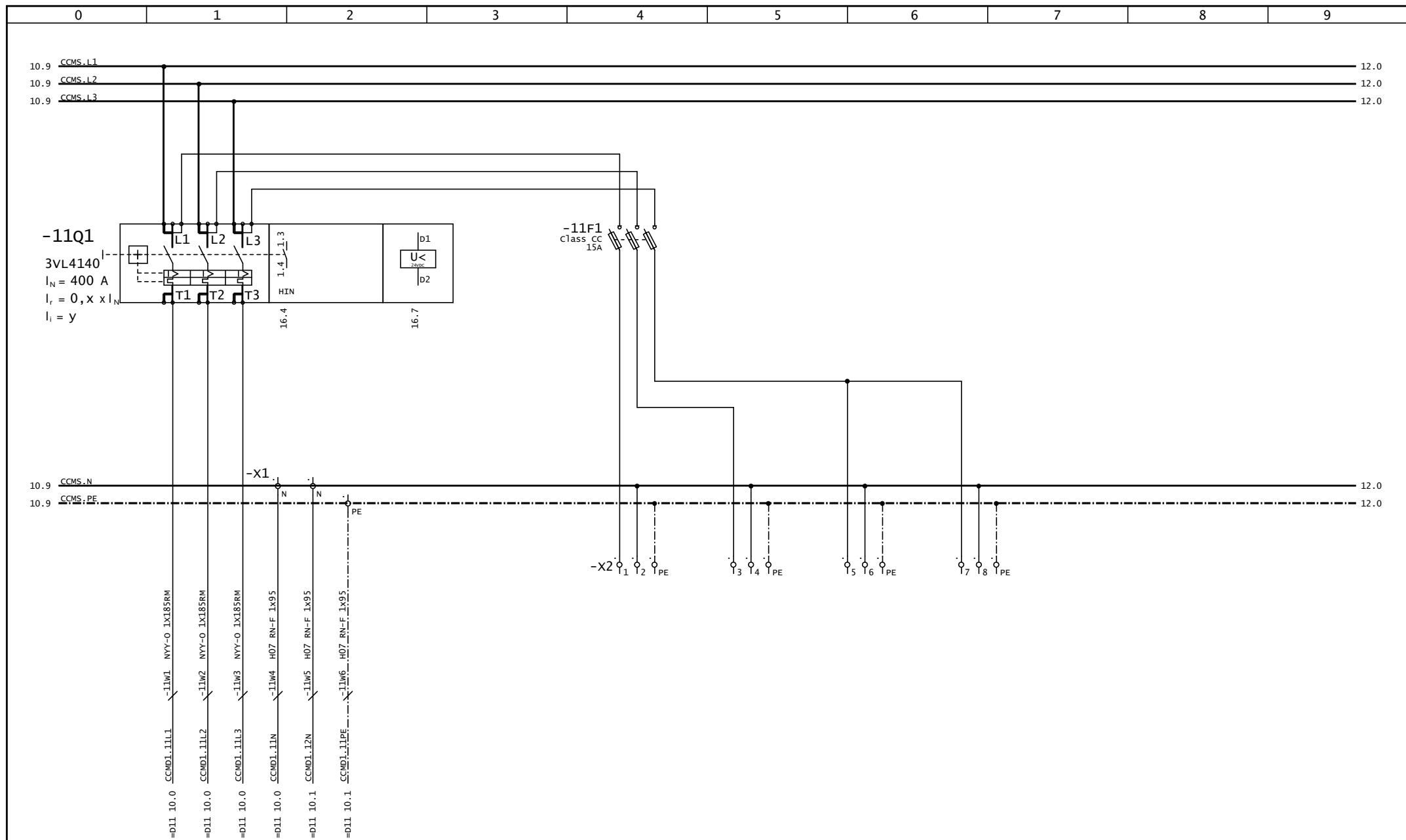
2200 | 2000 | 1800 | 1600 | 1400 | 1200 | 1000 | 800 | 600 | 400 | 200 |

equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

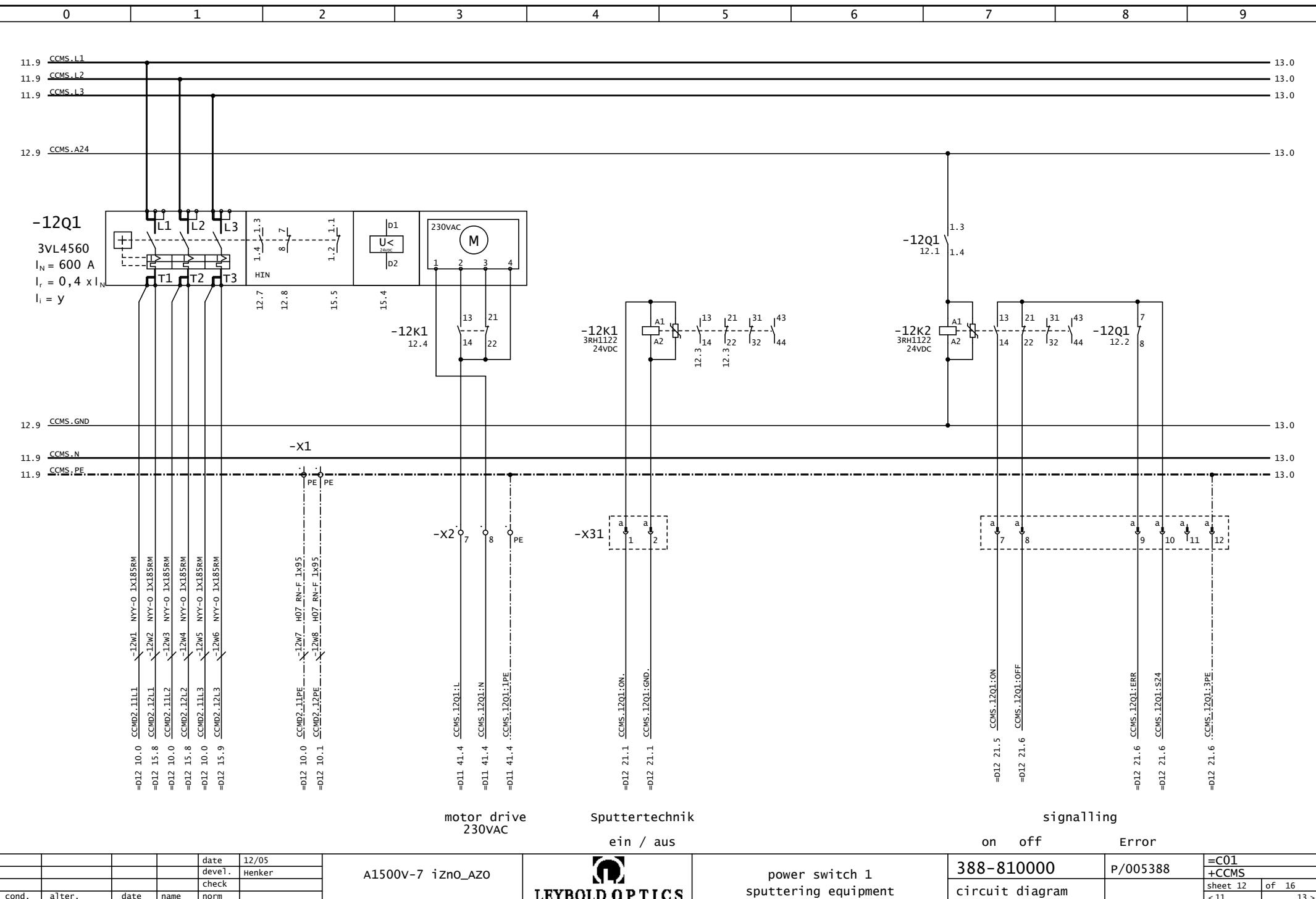
					date	12/05	A1500V-7 iznO_AZ0	LEYBOLD OPTICS	mounting plate	388-810000	P/005388	=C01
					devel.	Henker				+CCMS		
					check					sheet 7 of 16		
cond.	alter.	date	name	norm						< 6	10 >	

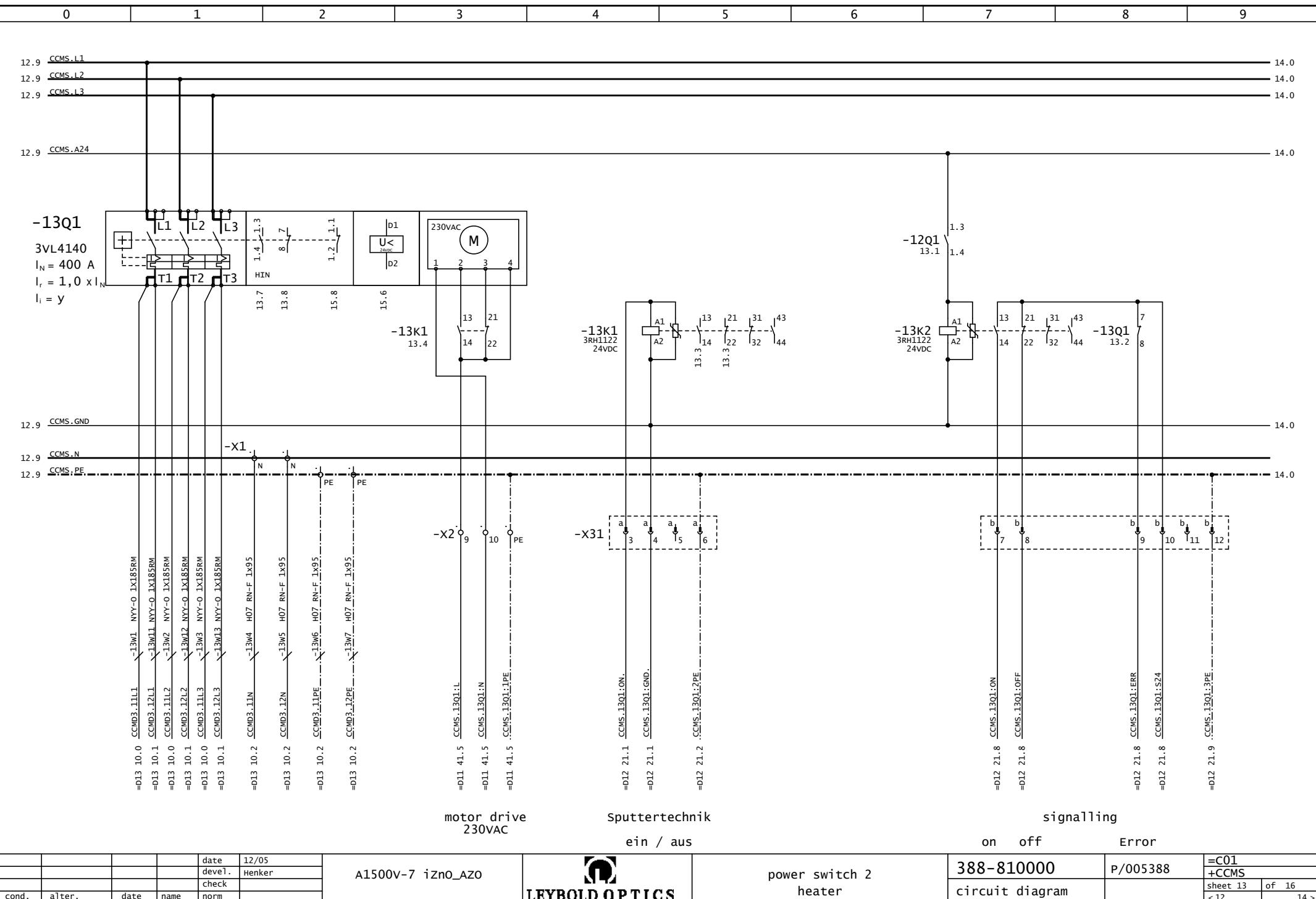


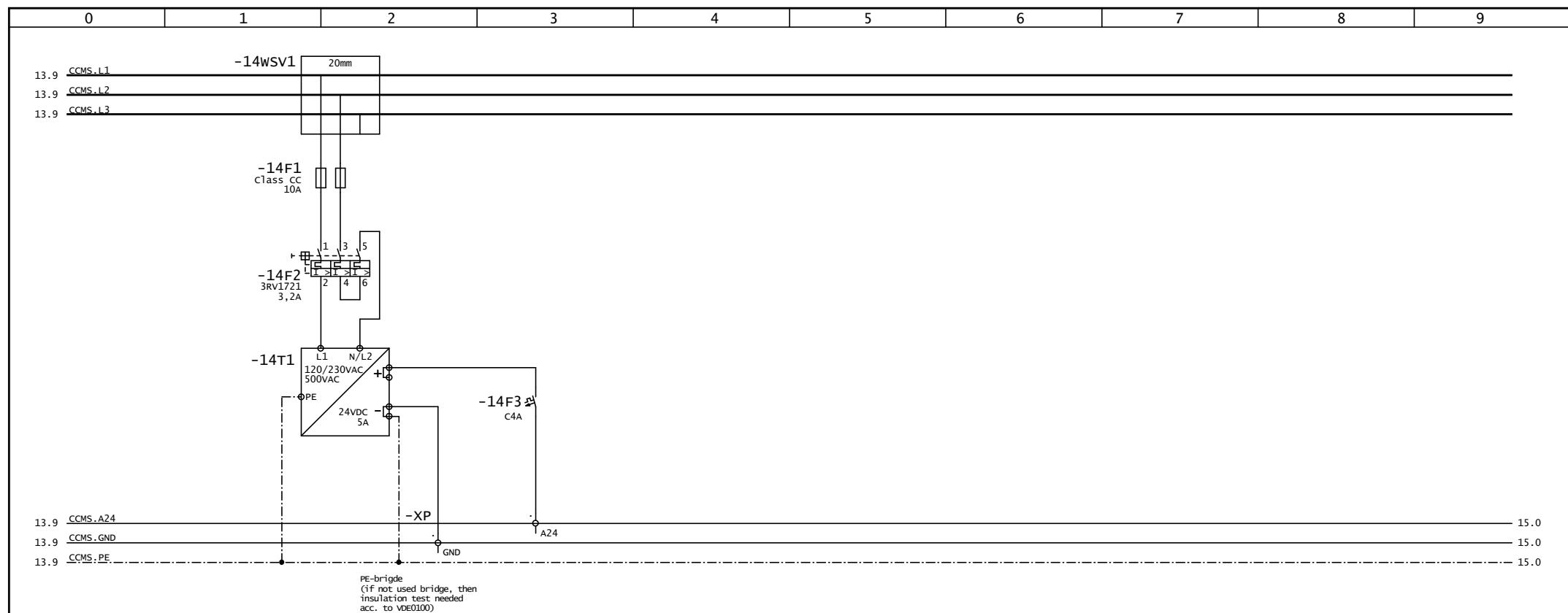
				date	12/05	A1500V-7 iznO_AZ0   <b>LEBOLD OPTICS</b>	feed-in	388-810000 P/005388	=C01
				devel.	Henker				+CCMS
				check					sheet 10 of 16
cond.	alter.	date	name	norm					<7 11>



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	main switch	<b>388-810000</b>	P/005388	=C01	
				devel.	Henker				+CCMS		sheet 11	of 16
				check							< 10	12 >
cond.	alter.	date	name	norm					circuit diagram			



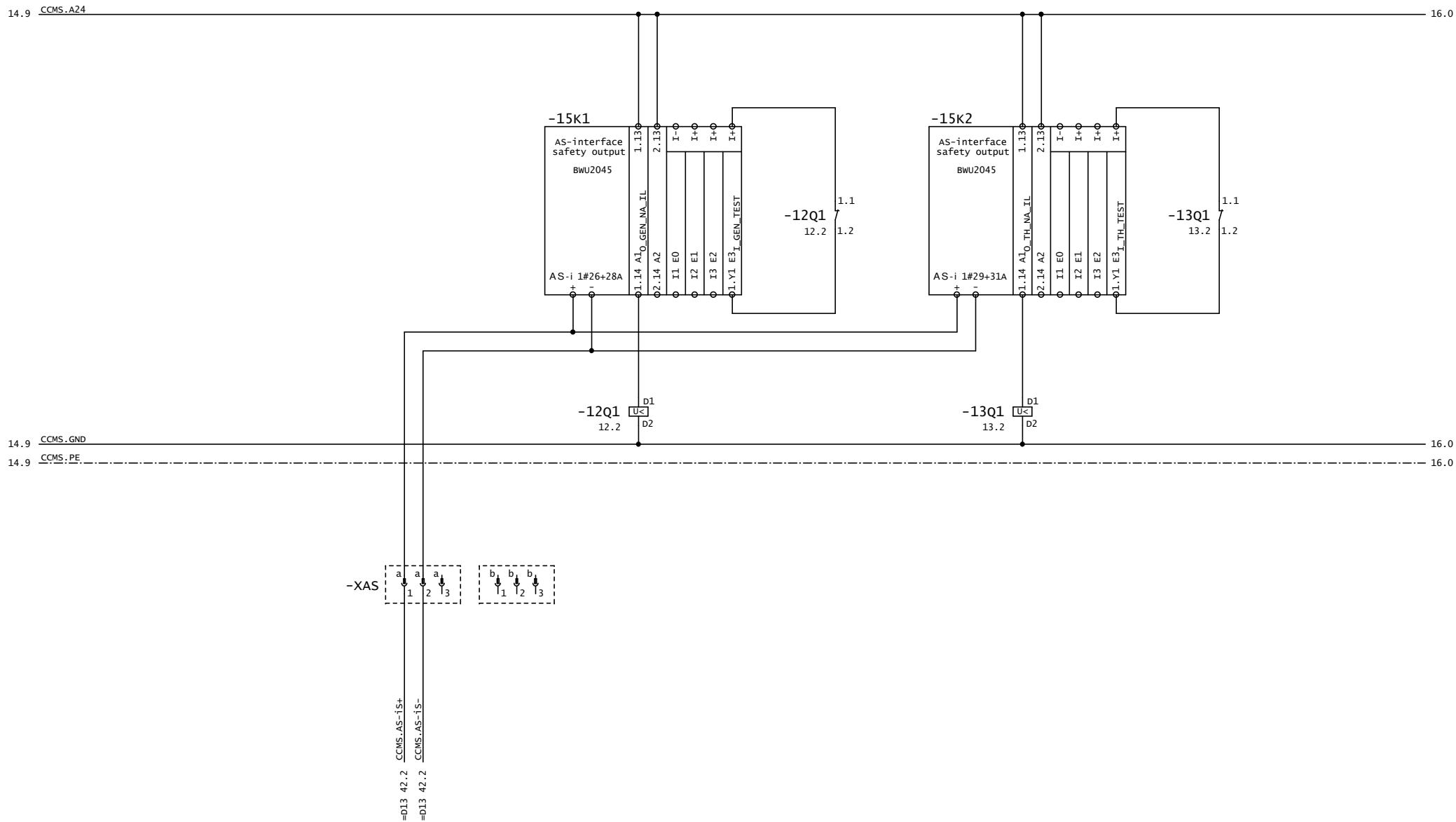




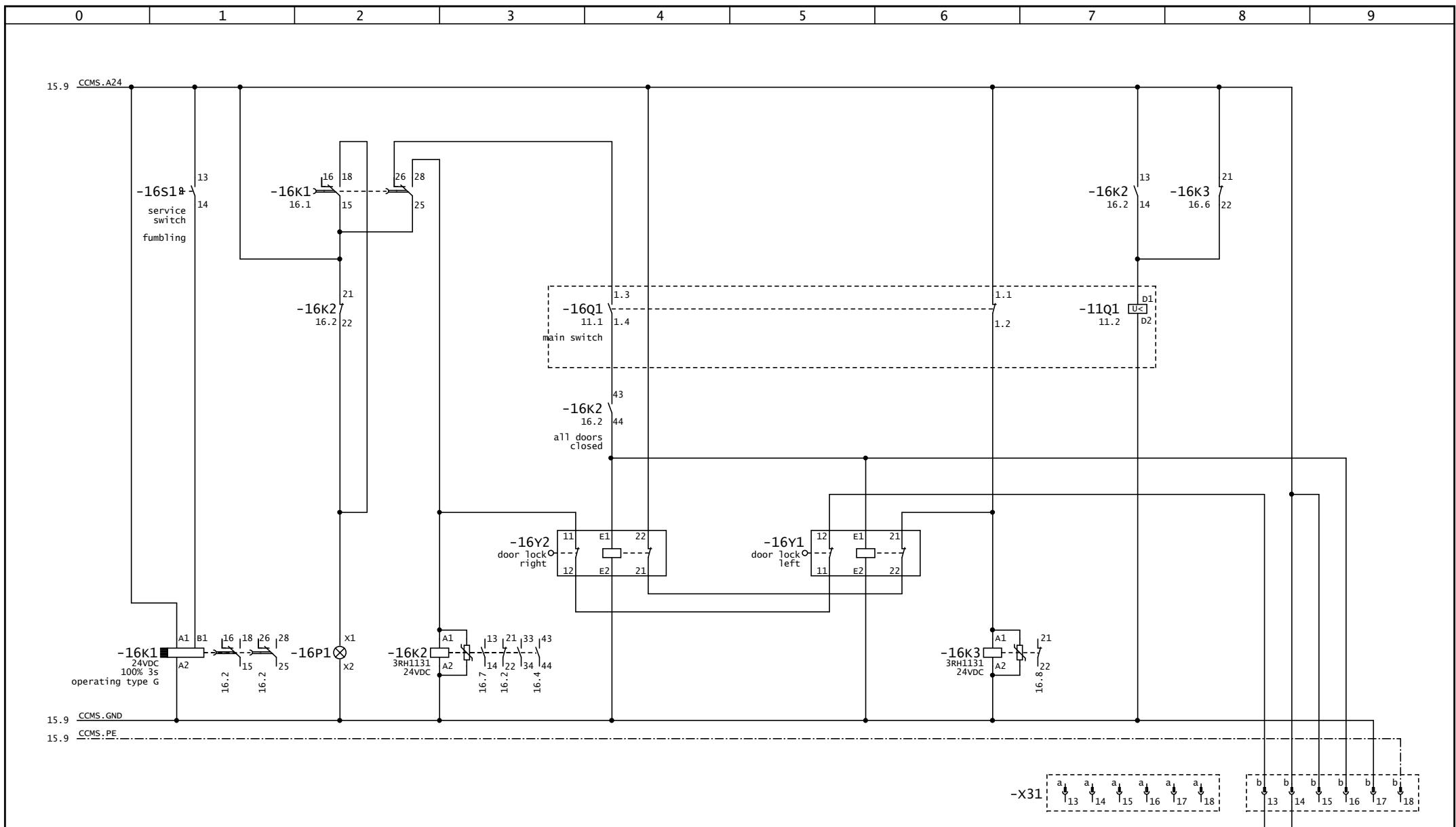
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	24VDC	388-810000	P/005388	=C01
				check					+CCMS		
cond.	alter.	date	name	norm					sheet 14	of 16	

&lt; 13 15 &gt;

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	interlock	388-810000	P/005388	=C01
				devel.	Henker				+CCMS		
				check					sheet 15	of 16	
cond.	alter.	date	name	norm					< 14	16 >	



alle Türen

geschlossen

verriegelung

aktiv

verriegelung

Schrankreihe (Option)

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	doorlock	388-810000	P/005388	=C01
				devel.	Henker				+CCMS		
				check					sheet 16 of 16		
cond.	alter.	date	name	norm					<15	=C02/10 >	

# partial arrangement:

## =C02

### service sockets 115V

machine number:	011003	year of manufa <u>t</u> ure:
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :
Plant built according to:	safety of machines - Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet
		P/005388 388-810000

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

power input 2 (from customer) - 3x service power circuits:

voltage: AC 1 Phase 115V +/-10%

frequency: 60 Hertz +/-2%

max. fuse: 20 Amps

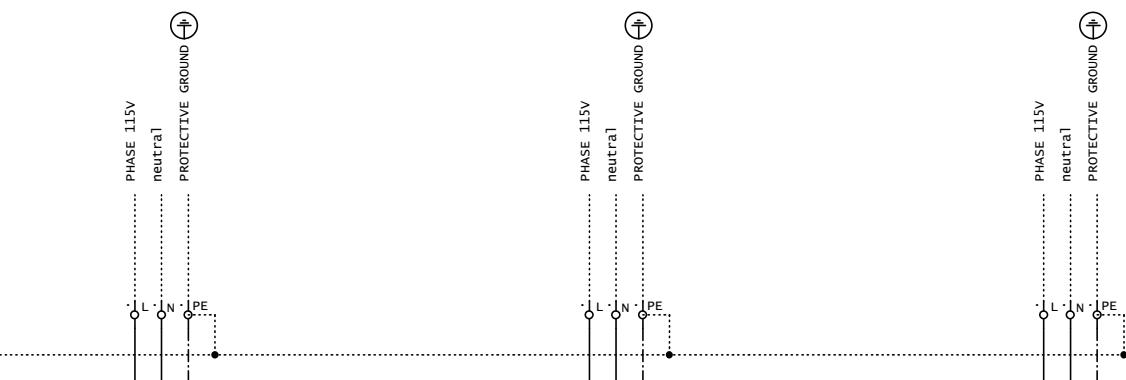
others: circuits have to GFCI protected!

terminal cross-section: 1-10mm<sup>2</sup> (26-8AWG)

service power input 1

service power input 2

service power input 3



+KKEx01

-20WPE1  
H07V-K 1x10

-20W1  
3x2,5  
orange

+P1  
-20XS1

-20W3  
3x2,5  
orange

+T1  
-20XS1

-20W5  
3x2,5

+CCMD02  
-20XS1

## customer connection box (external)

service socket

NEMA 5-20R

AC 1Ph 110V

Frontside of module P1

Frontside of module P2

left at elec.-cabinet CCMD02

Backside of module T1  
right at the frame

Backside of module T9  
right at the frame

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	service sockets 115V	388-810000	P/005388	=C02
				devel.	Henker				+KKEx01		
				check					sheet 10 of 10		
cond.	alter.	date	name	norm					<=C01/16	=D11/6 >	

This technical floor plan diagram illustrates the layout of various components within a room. The horizontal axis (X) is labeled from 0 to 9, and the vertical axis (Y) is labeled from 0 to 2400. A grid is present at every 200 units.

**Equipment Labels:**

- 6U1 RIT-8226500**: TS Schrank 1200x2200x600 RAL 7035 m. MPL
- 6U2 RIT-8226500**: TS Schrank 1200x2200x600 RAL 7035 m. MPL
- 6U3 RIT-8126235**: TS Seitenwände (H:2200, T:600) RAL 7035
- 6U4 RIT-4592700**: TS Montageplattenzwischenstück 2200 hoch
- 6U5 RIT-8801765**: TS Aufsatzmodul RAL 7035 B1200xH200xT600
- 6U6 RIT-8801765**: TS Aufsatzmodul RAL 7035 B1200xH200xT600
- 6U7 RIT-8801775**: TS Aufsatzmodul seitenvände H200xT600 paar
- 6U8 RIT-4396000**: PS Tragschienen für schw. Einbauten (600)
- +CCMD01**: Located in the central area between U1 and U2.
- 42E1 water cooling**: Located in the central area between U3 and U4.
- emergency stop**: Located near the bottom center, indicated by a circle with a cross.
- +SN07 -59S1**: Located near the bottom center, below the emergency stop.

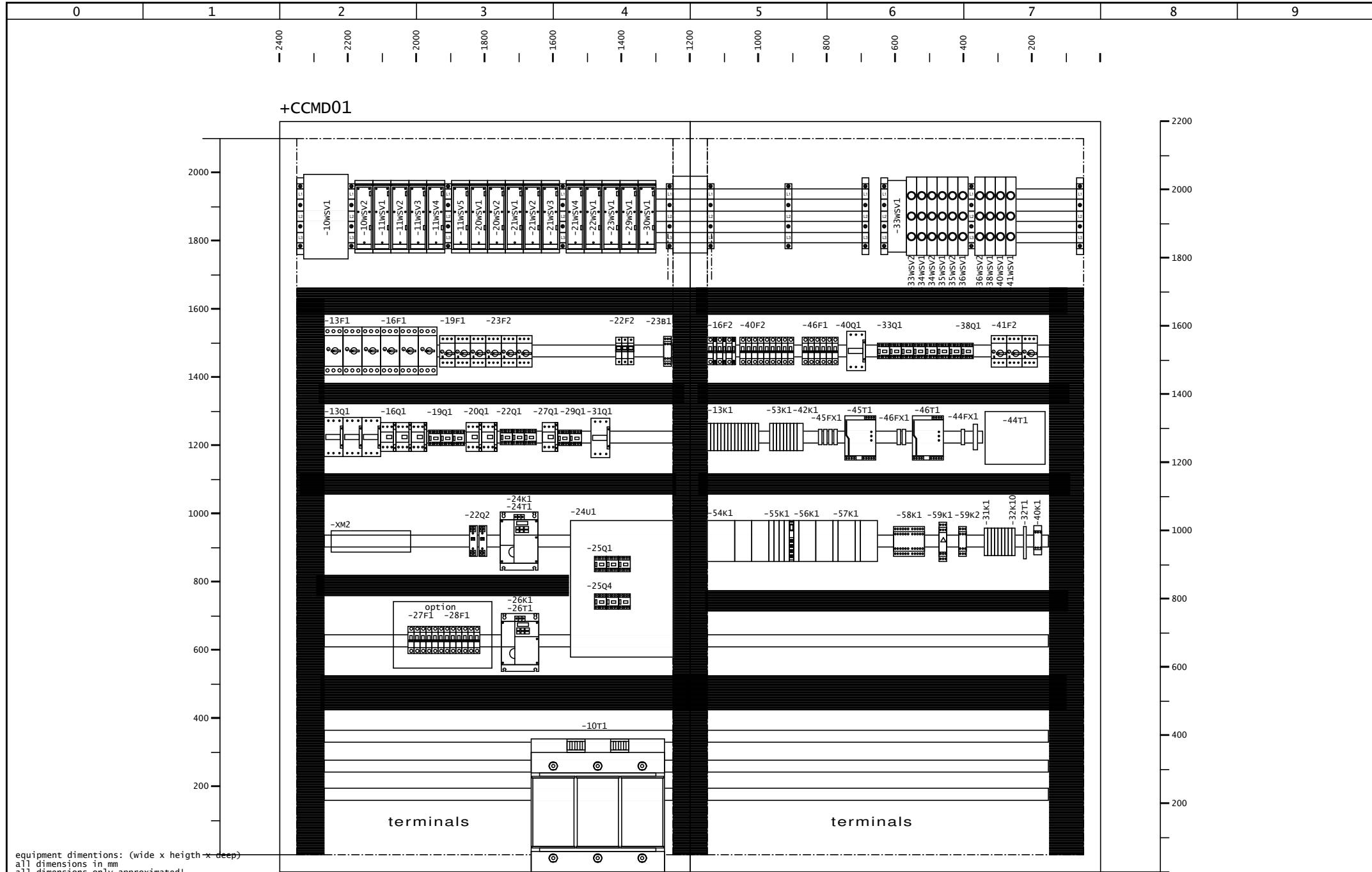
**Dimensions:**

- Horizontal dimensions (X): 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.
- Vertical dimensions (Y): 2400 (top), 2200, 2000, 1800, 1600, 1400, 1200, 1000, 800, 600, 400, 200, 0 (bottom).

**Notes:**

- equipment dimentions: (wide x height x deep)
- all dimensions in mm

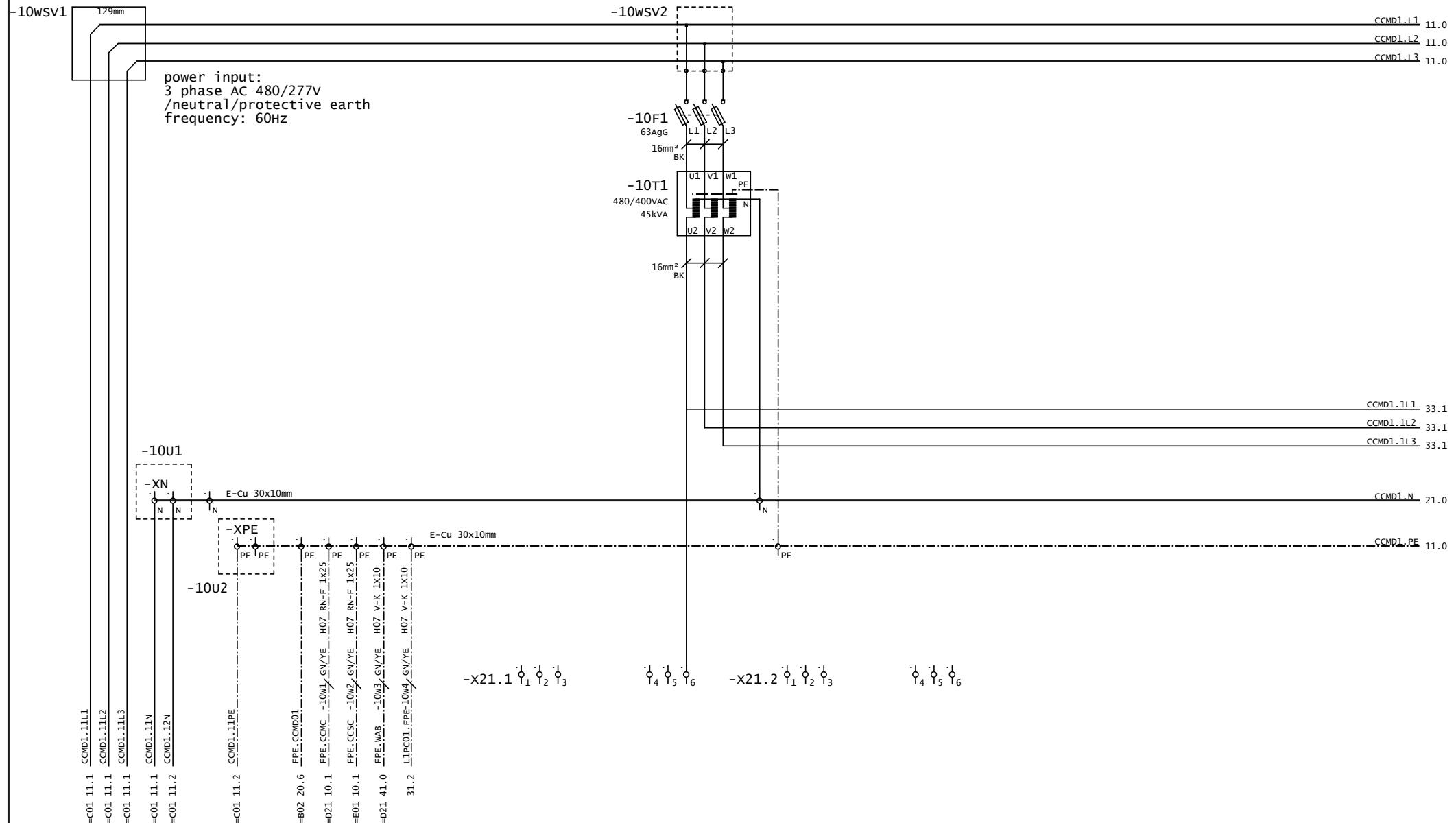
equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!



equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

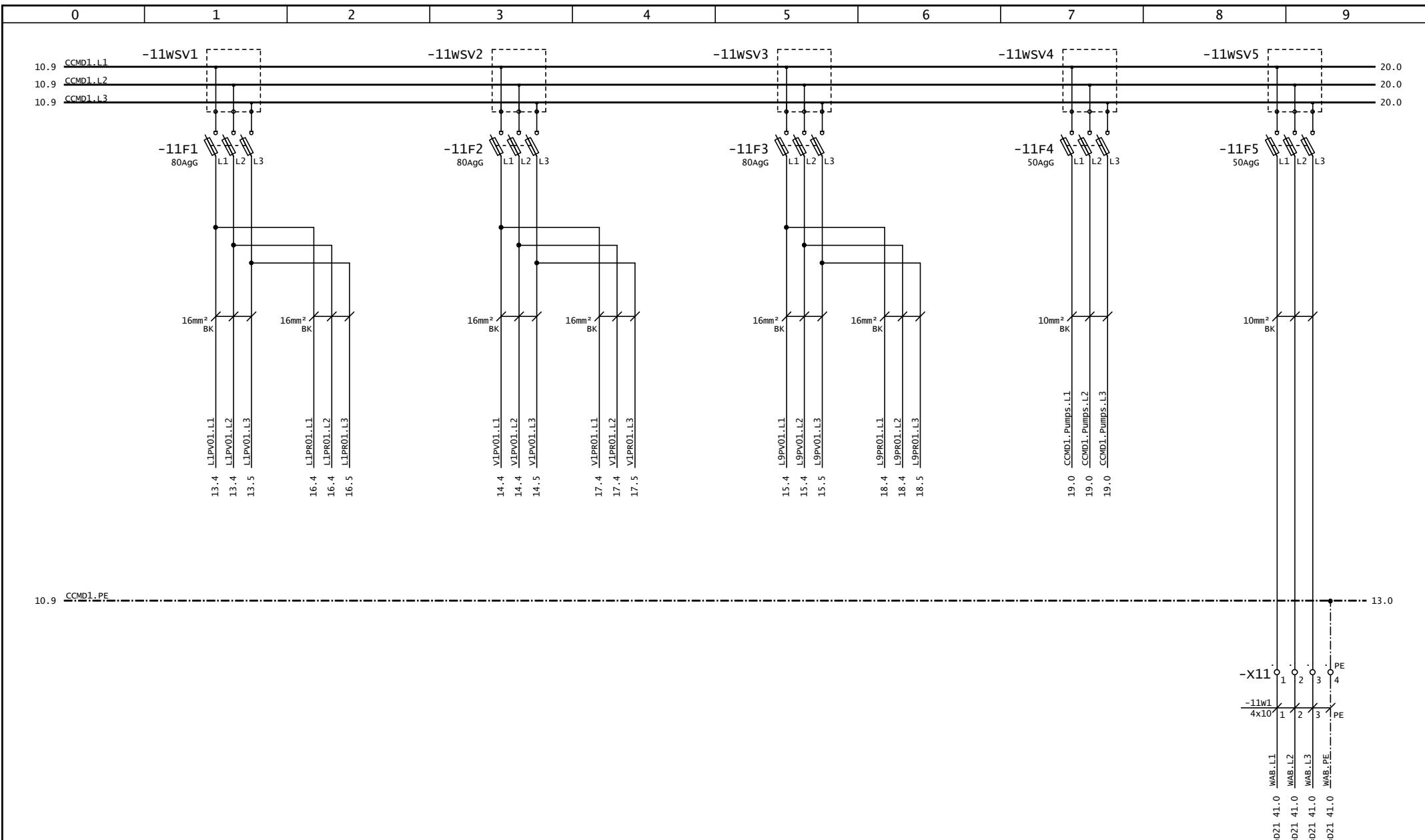
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	mounting plate	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 7	of 60	
cond.	alter.	date	name	norm				layout	< 6		10 >

0	1	2	3	4	5	6	7	8	9
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cabinet lighting  
(option)

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	feed-in transformer 400Vac	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 10 of 60		
cond.	alter.	date	name	norm					< 7	11 >	



power  
vacuumpumps L1  
L1PV01, L1PR01

power  
vacuumpumps process  
V1PV01, V1PR01

power  
vacuumpump L9  
L9PV01, L9PR01

power  
cooling water pump  
L1PV02, B1PV01  
L9PV02

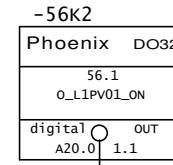
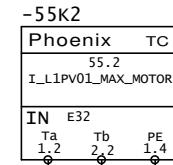
power  
WAB

				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	distribution AC 460V	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 11	of 60	
cond.	alter.			date	name	norm			< 10	13 >	

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

13.9 CCMD1.A24NA

14.0



L1PV01.L1 11.1  
L1PV01.L2 11.1  
L1PV01.L3 11.1

53

54

6mm<sup>2</sup>

BK

-13K1

A1

A2

-13Q1

DILM50 RDC24

11

A1

A2

2

4

6

5

21

33

43

13

22

34

44

14

12

14

11

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3

2

4

6

8

10

12

14

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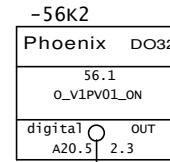
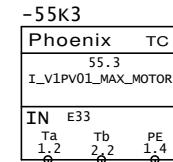
571

573

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

13.9 CCMD1.A24NA

15.0



V1PV01.L1 11.3  
V1PV01.L2 11.3  
V1PV01.L3 11.3

-14F1  
PKZM4-32 24A

6mm<sup>2</sup>

BK

-14K1

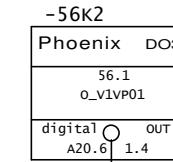
A1

A2

-14Q1

DILM50 RDC24

11  
A1 1 3 5  
A2 2 4 6  
12  
14  
21 33 43 13  
22 34 44 14



13.9 CCMD1.S24

15.0

13.9 CCMD1.A24

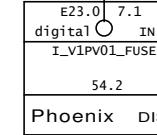
15.0

-XM2

4

5

6



-14K2

A1

12

14

11

13.9 CCMD1.GND

15.0

13.9 CCMD1.PE

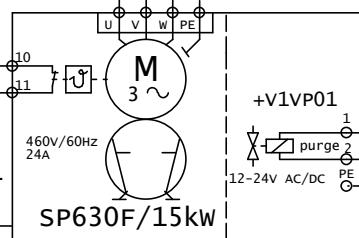
15.0

-X31  
a a a a  
5 6 7 8  
-14W1  
2x0,34 BN WH

-XM1  
5 6 7 8  
PE

-X31  
b b b b  
5 6 7 8  
-14W3  
3x0,75 1 2 PE

+V1PV01  
-14M1  
460V/60Hz  
24A



+V1VP01  
purge  
12-24V AC/DC PE

Please note:  
vacuum pump does heavy starting.  
Start the pump only four times per hour  
at the most so as to avoid overloading  
the motor or the motor starter.  
Wait for a minimum of 10 minutes between  
the startings.

=B02 20.6 FPE\_V1PV01

V1PV01.SP-Guard 49.2

				date	12/05	A1500V-7 izn0_AZ0	LEYBOLD OPTICS	V1PV01	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 14	of 60	
cond.	alter.	date	name	norm				circuit diagram		< 13	15 >

0	1	2	3	4	5	6	7	8	9
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14.9 CCMD1.A24NA

L9PV01.L1  
L9PV01.L2  
L9PV01.L311.5  
11.5  
11.553  
54

-55K4

Phoenix TC  
55.4  
I\_L9PV01\_MAX\_MOTOR

IN E34  
Ta 1.2  
Tb 2.2  
PE 1.4

-56K2

Phoenix DO32  
56.1  
O\_L9PV01\_ON

digital OUT  
A21.0 3.1

-56K2

Phoenix DO32  
56.1  
O\_L9VP01

digital OUT  
A21.1 4.1

-15F1  
PKZM4-32  
24A6mm<sup>2</sup>

BK

-15K1

A1

A2

-15Q1

DILM50  
RDC24

11

A1

A2

6

5

21

33

43

13

22

34

44

14

1

2

3

4

5

6

7

8

9

10

11

12

13

14

-15K2

A1

12

14

11

1

2

3

4

5

6

7

8

9

10

11

12

13

14

14.9 CCMD1.S24

14.9 CCMD1.A24

14.9 CCMD1.GND

14.9 CCMD1.PE

16.0

16.0

16.0

16.0

16.0

-X31

a a a a

9 10 11 12

BN WH

2x0,34

-XM1

9 10 11 12

PE

-15W2

4x6

1 2 3 PE

-X31

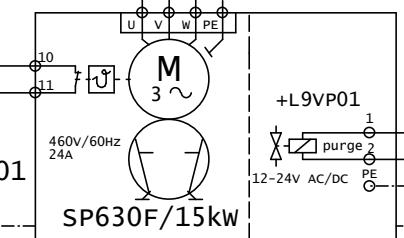
b b b b

9 10 11 12

BN PE

3x0,75

1 2 PE

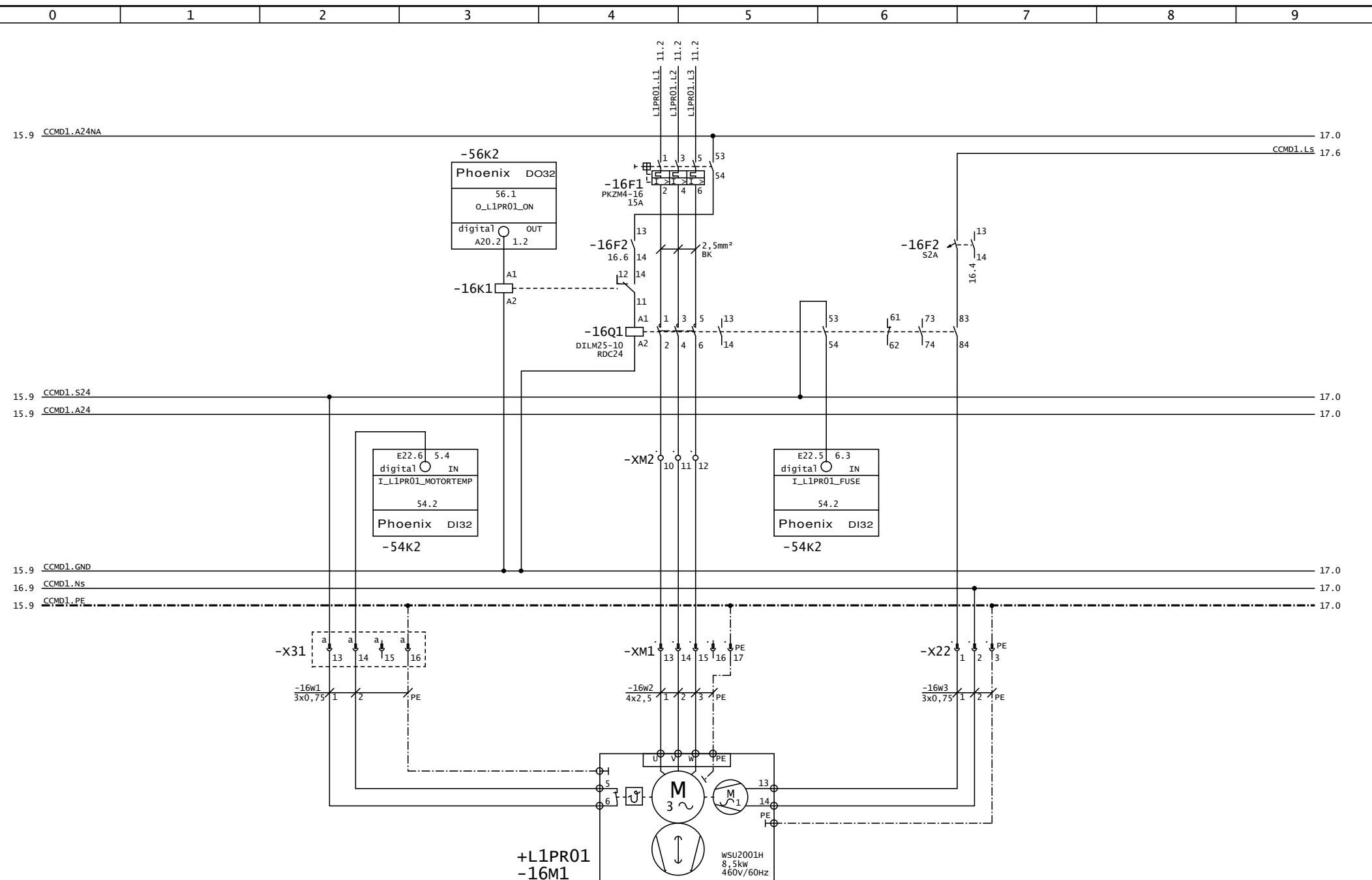


=B02 21.6 FPE\_L9PV01

L9PV01\_SP-Guard 48.2

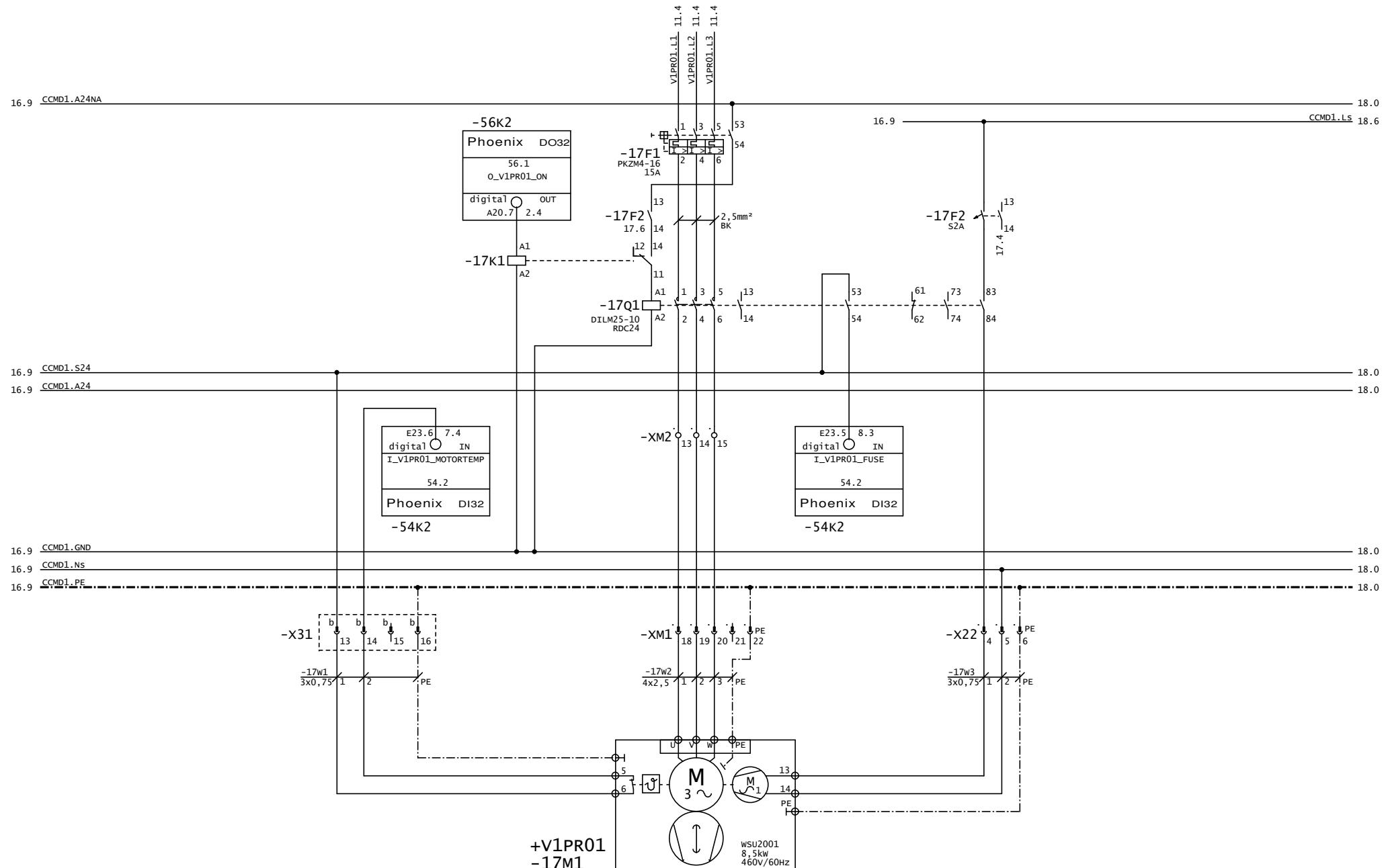
Please note:  
vacuum pump does heavy starting.  
Start the pump only four times per hour  
at the most so as to avoid overloading  
the motor or the motor starter.  
Wait for a minimum of 10 minutes between  
the startings.

				date	12/05	A1500V-7 izn0_AZ0	LEYBOLD OPTICS	388-810000	P/005388	=D11
				devel.	Henker			+CCMD01		
				check				sheet 15	of 60	
cond.	alter.	date	name	norm				circuit diagram		< 14 16 >

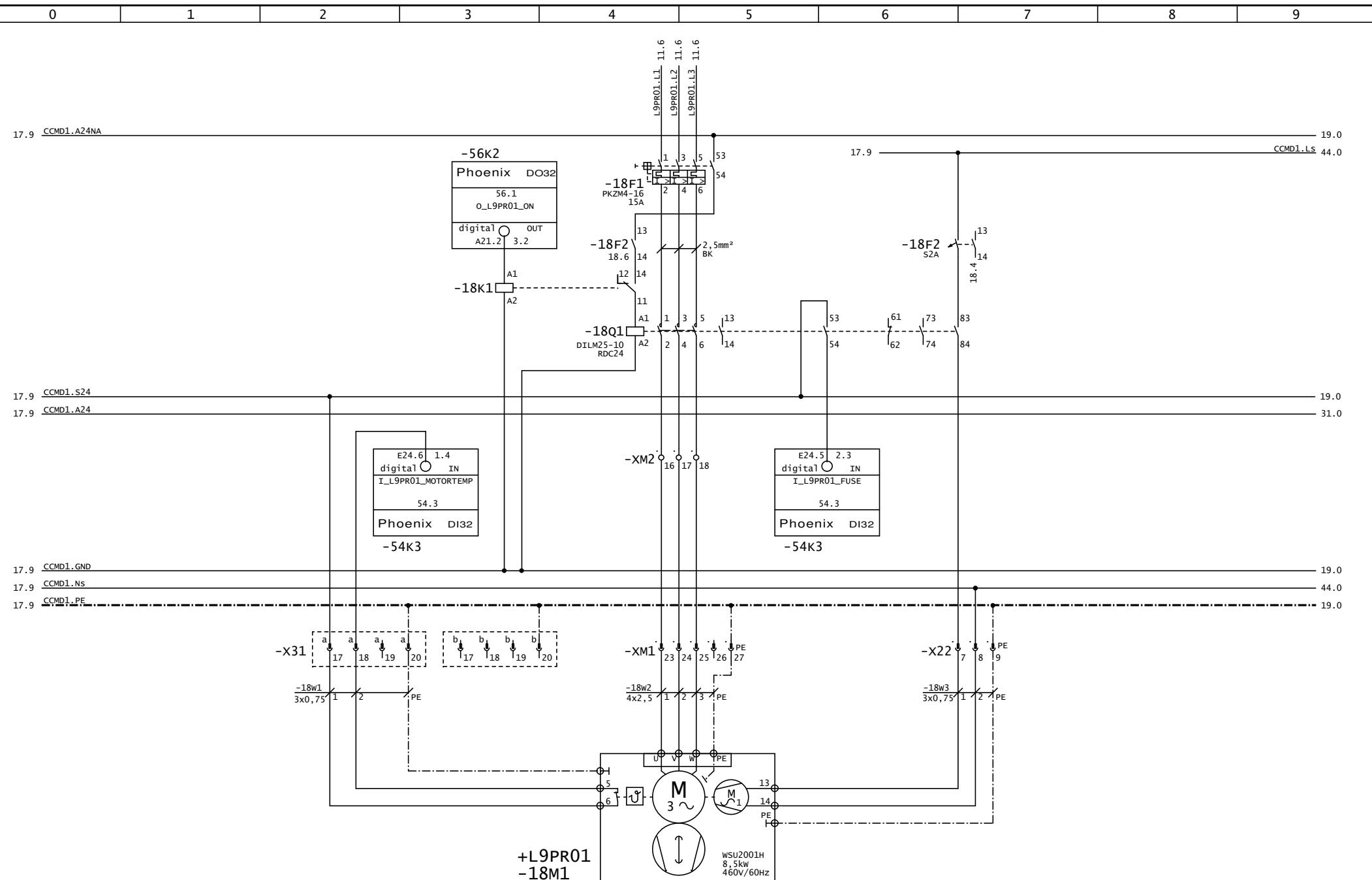


				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	L1PR01	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 16	of 60	
cond.	alter.	date	name	norm					< 15		> 17 >

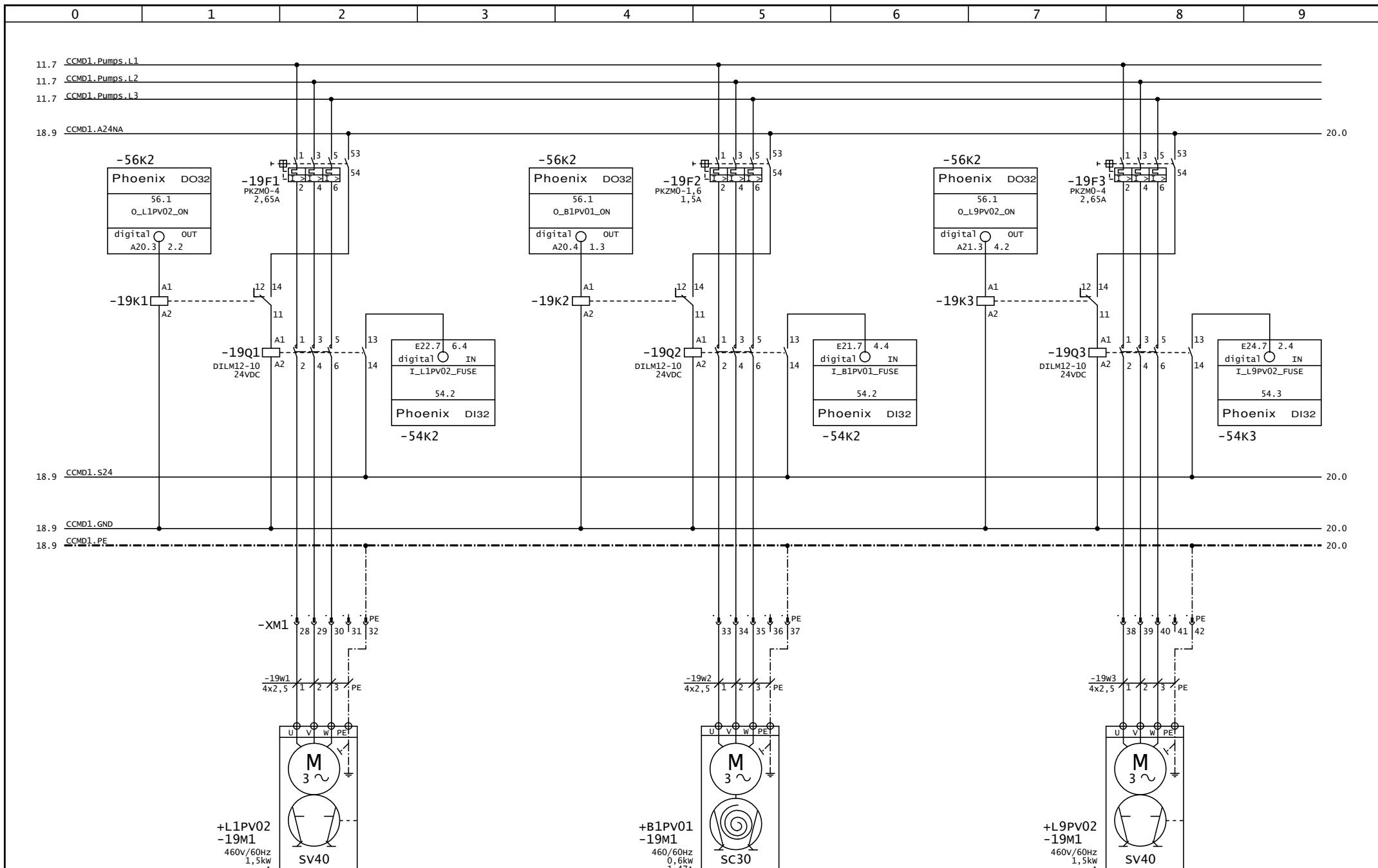
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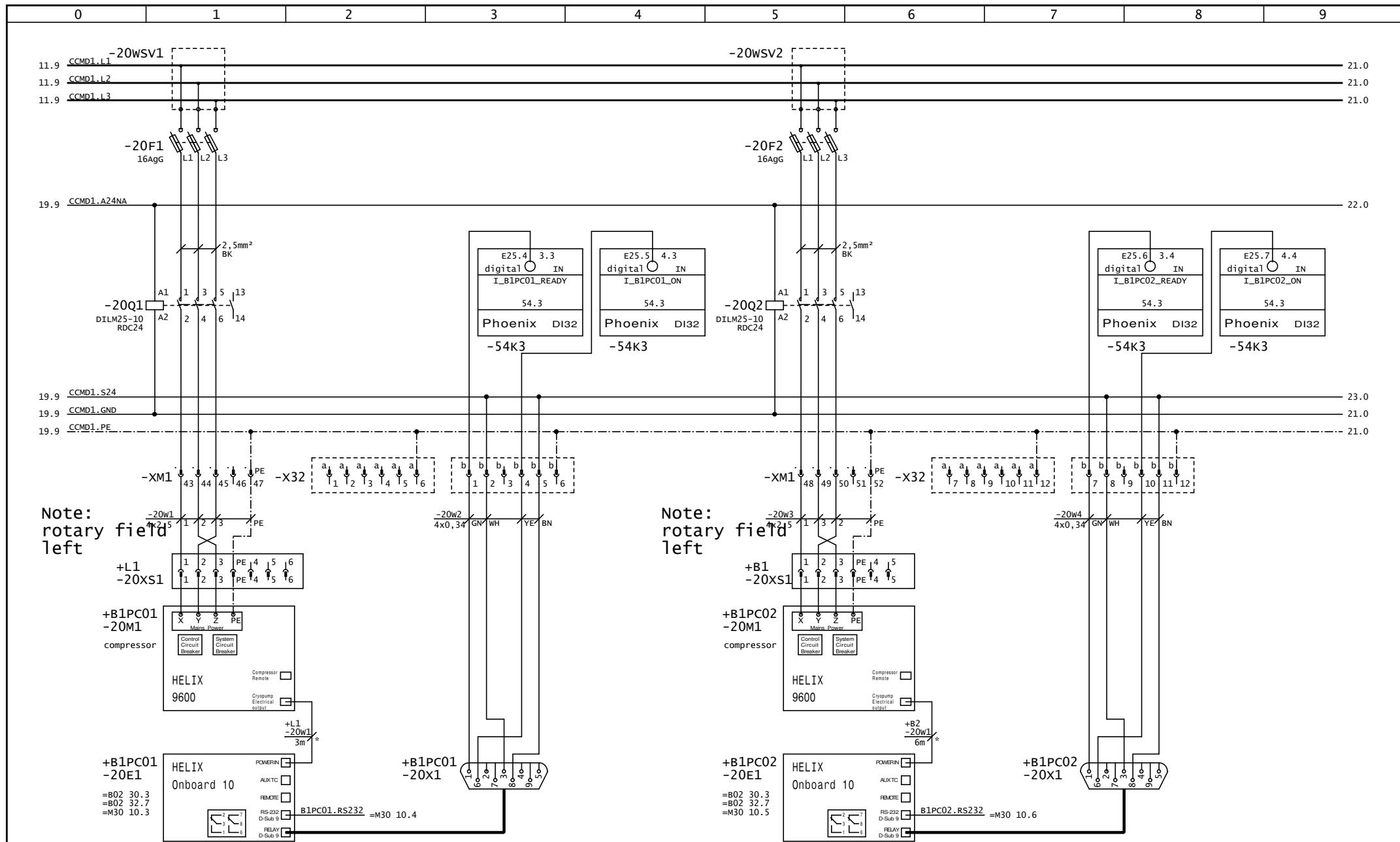
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				devel.	Henker				+CCMD01		
				check					sheet 17	of 60	
cond.	alter.	date	name	norm				circuit diagram		< 16	18 >



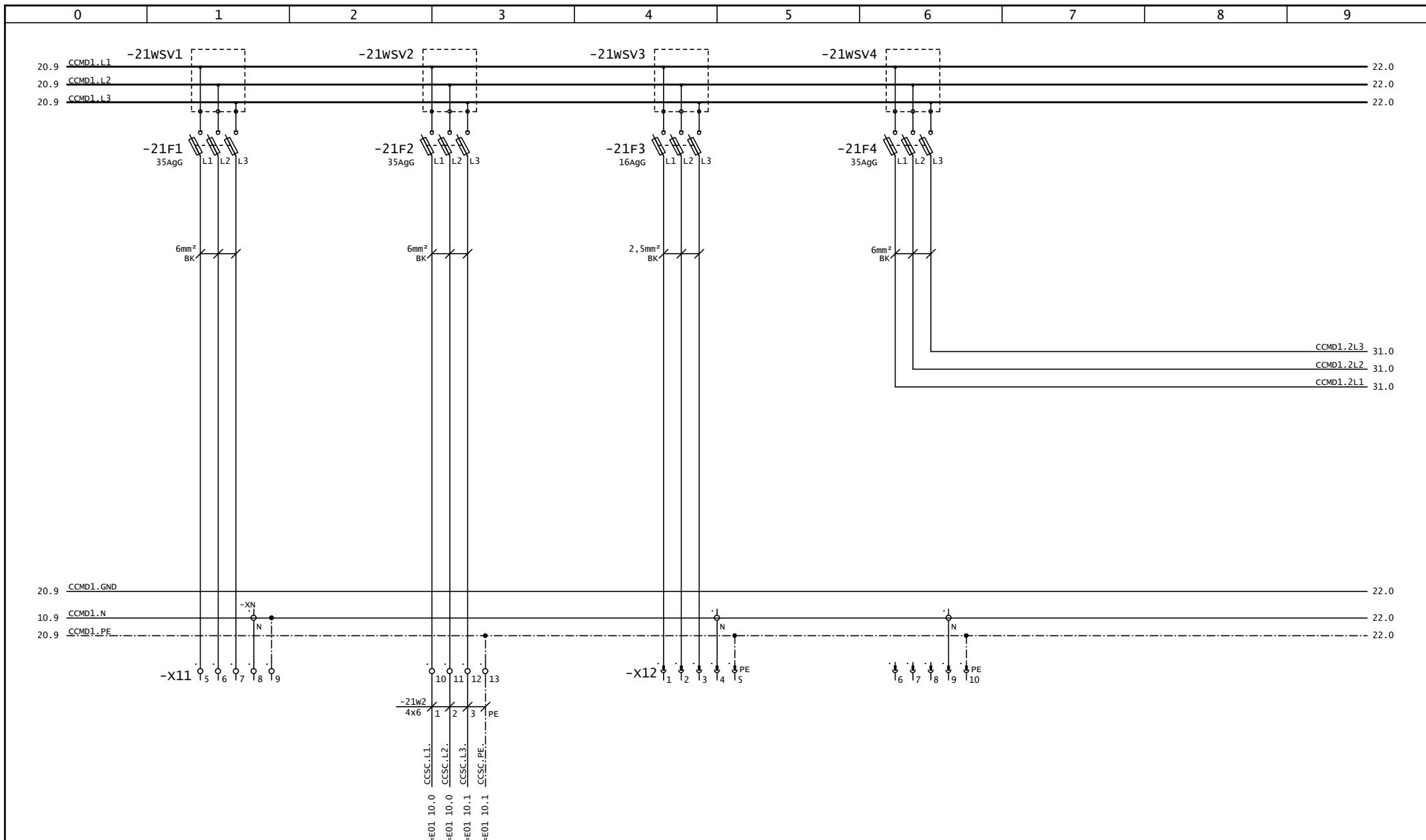
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				devel.	Henker				+CCMD01		
				check					sheet 18	of 60	
cond.	alter.	date	name	norm					< 17		19 >



				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	L1PV02 L9PV02	388-810000	P/005388	=D11
				devel.	Henker						+CCMD01
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cond.	alter.	date	name	norm					circuit diagram		< 18 20 >



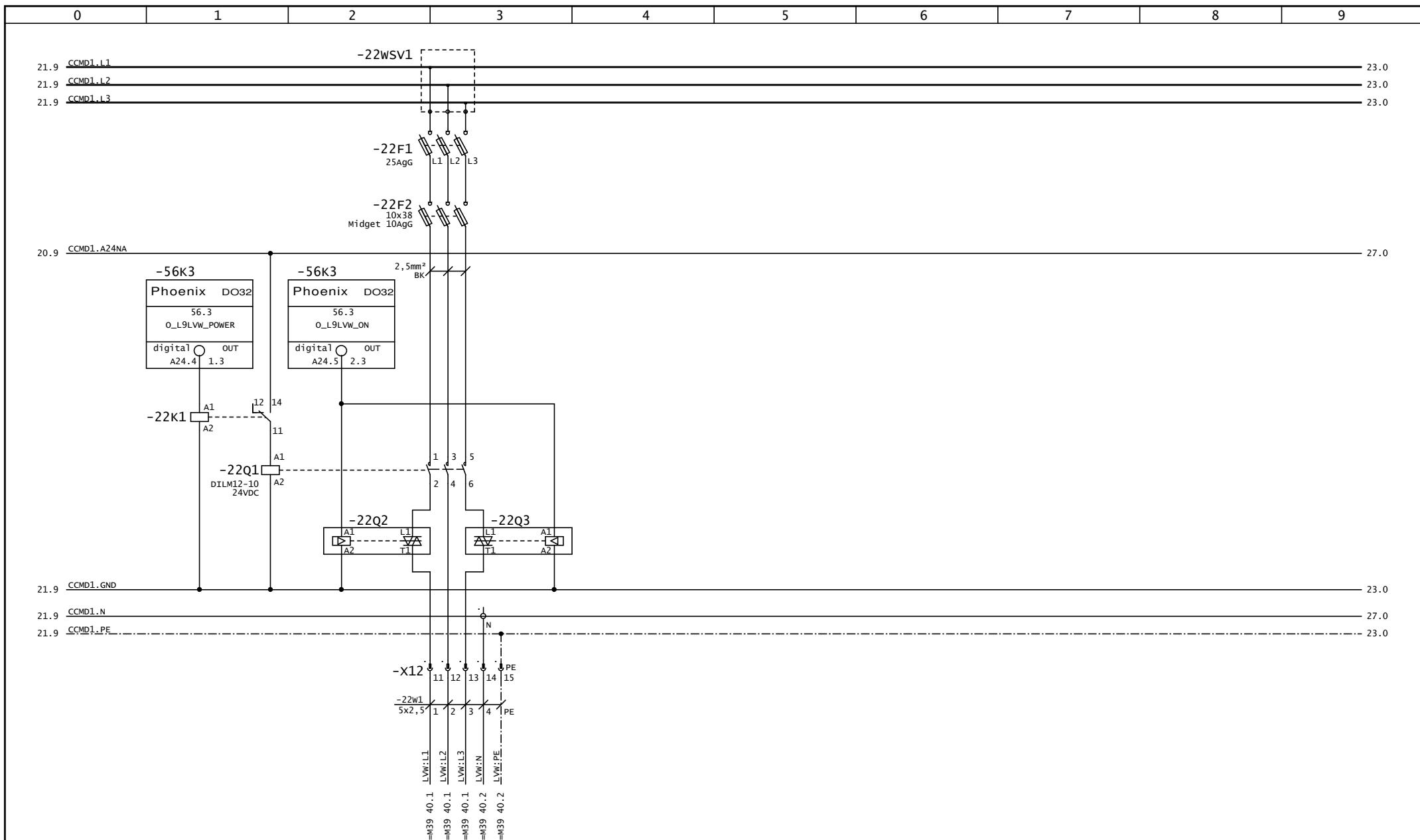
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				devel.	Henker				+CCMD01		
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cond.	alter.	date	name	norm					< 19	21 >	
								circuit diagram			



## Versorgung Servos

## CCSC

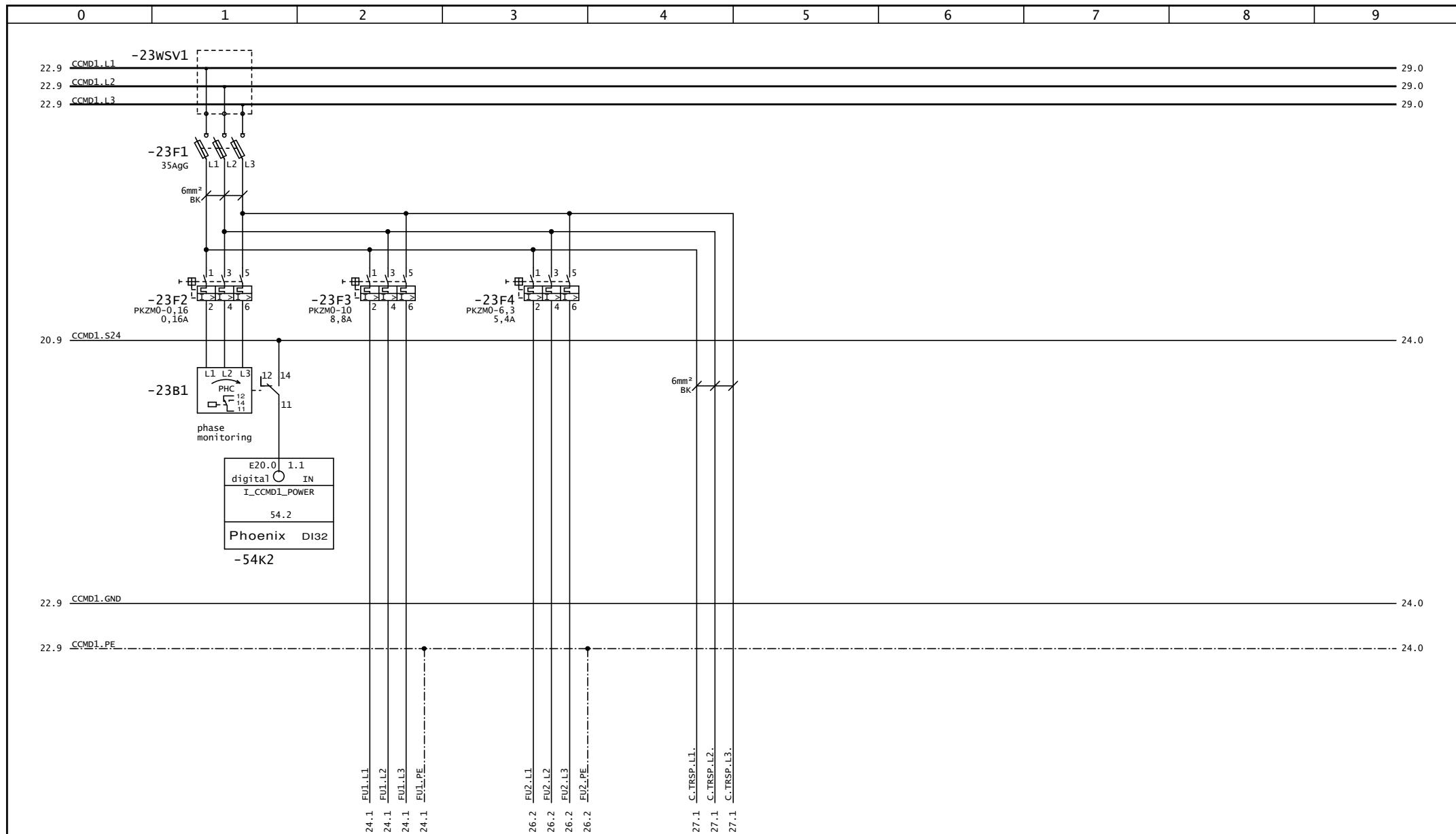
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	distribution 480VAC CCMC, CCSC, HDL01, HDL02	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 21 of 60		
cond.	alter.	date	name	norm					< 20	22 >	



## Versorgung Luftvorwärmer

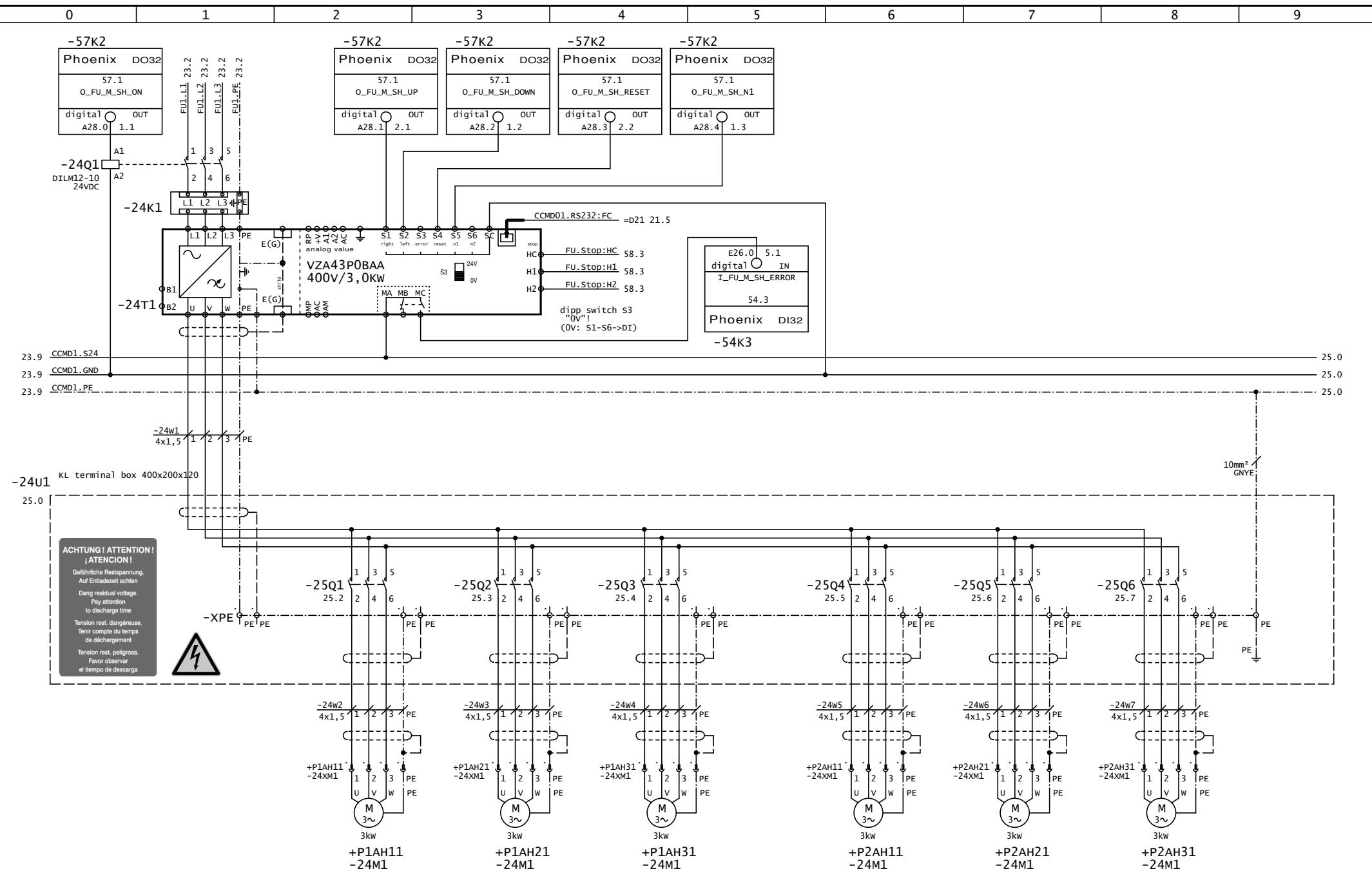
L9TH01

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	distribution 480VAC venting air preheater	388-810000	P/005388	D11
				devel.	Henker				+CCMD01		
				check					sheet 22 of 60		
cond.	alter.	date	name	norm					< 21	23 >	

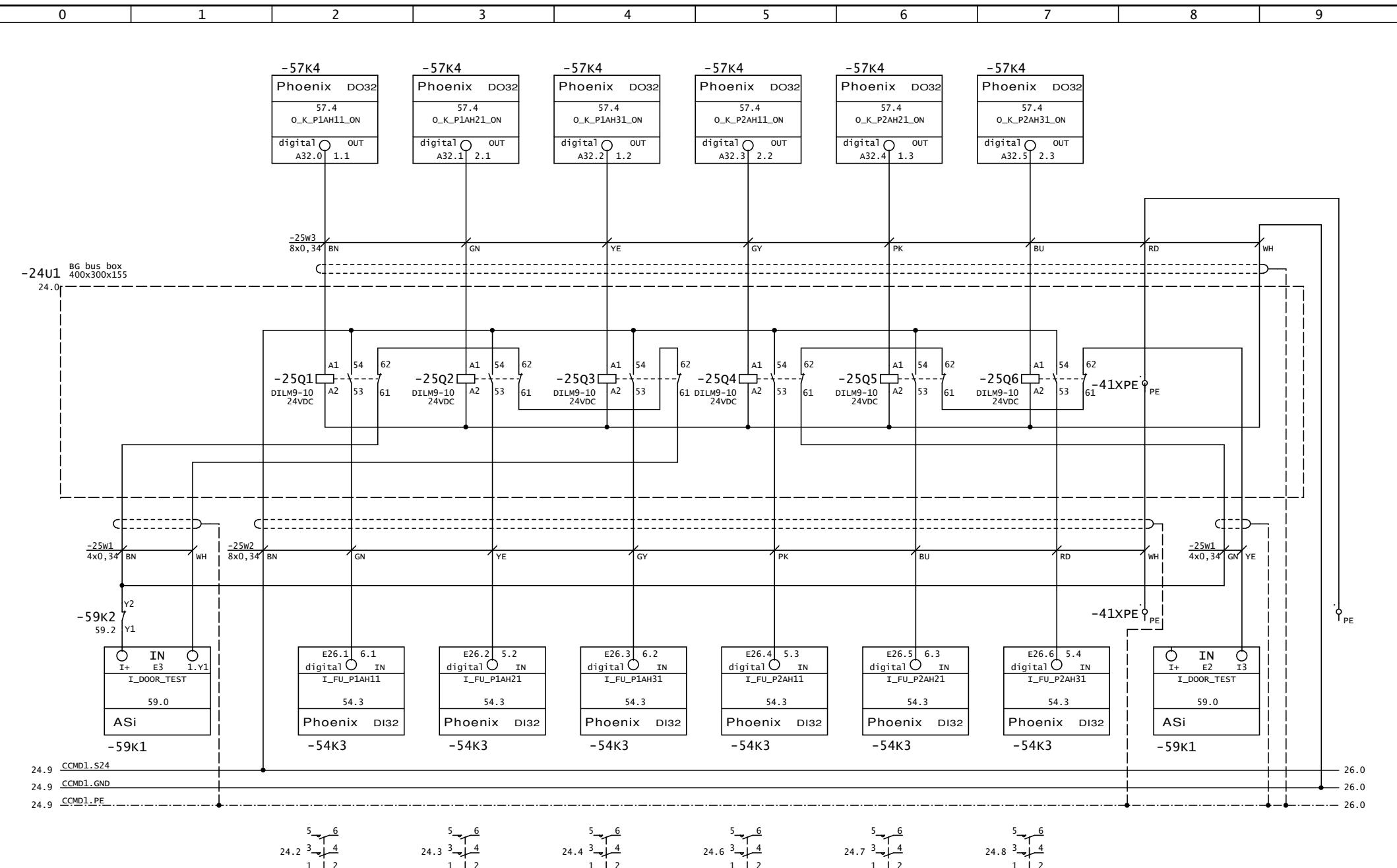


Frequenzumrichter	Frequenzumrichter	Lüftung
Türantriebe	Kühlung T9	Rücktransport

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	distribution 480VAC	388-810000	P/005388	=D11	
				devel.	Henker				+CCMD01			
				check							sheet 23	of 60
cond.	alter.	date	name	norm					circuit diagram			< 22

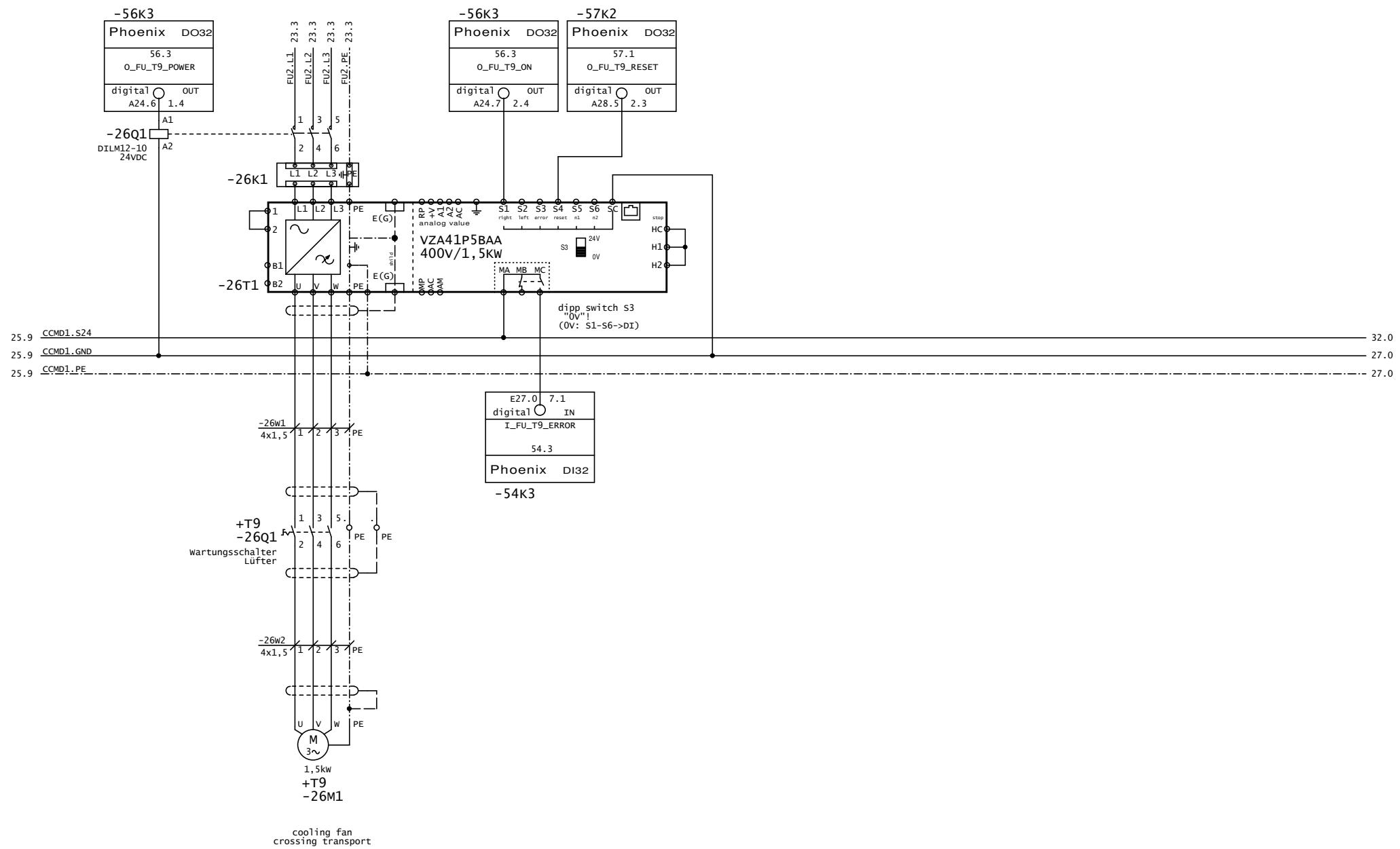


				date	12/05	A1500V-7 iznO_AZ0		magnetron door drives	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
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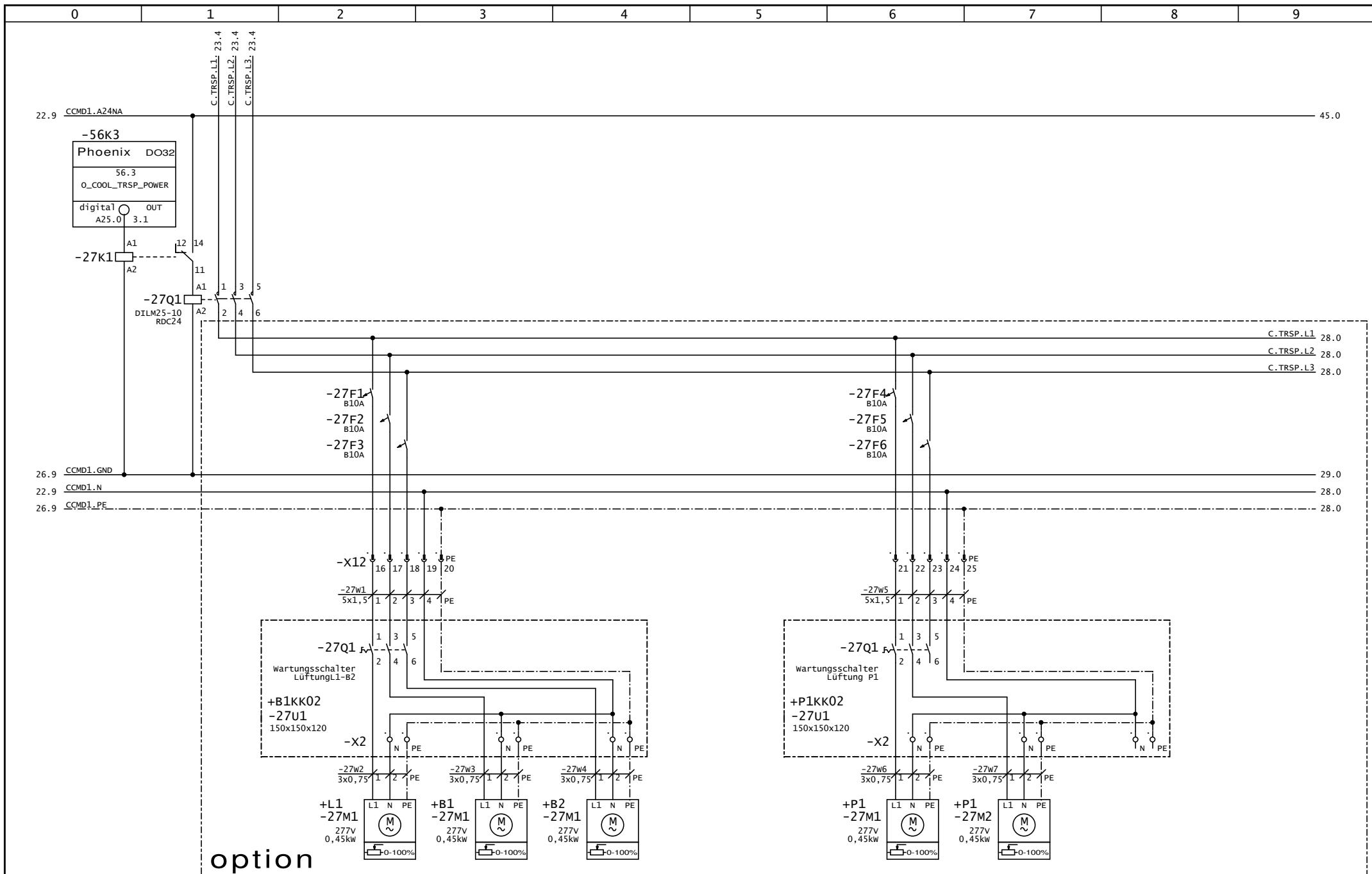


				date	22/05				=D11	
				devel.	Henker				+CCMD01	
				check					sheet 25 of 60	
cond.	alter.	date	name	norm		A1500V-7 izn0_AZ0	LEYBOLD OPTICS	process door control	388-810000	P/005388
								circuit diagram		
									< 24	26 >

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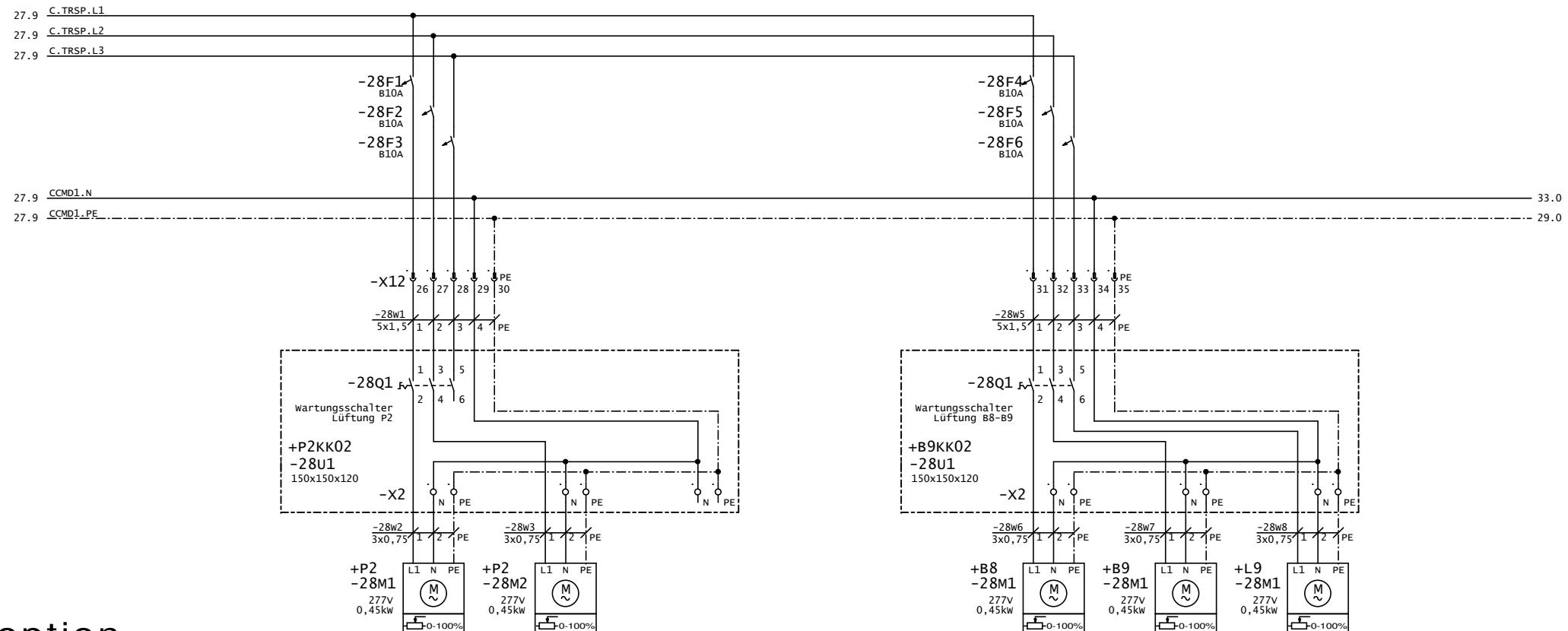


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	cooling T9	388-810000	P/005388	=D11
				devel.	Henker						+CCMD01
				check							sheet 26 of 60
cond.	alter.	date	name	norm					circuit diagram		< 25 27 >

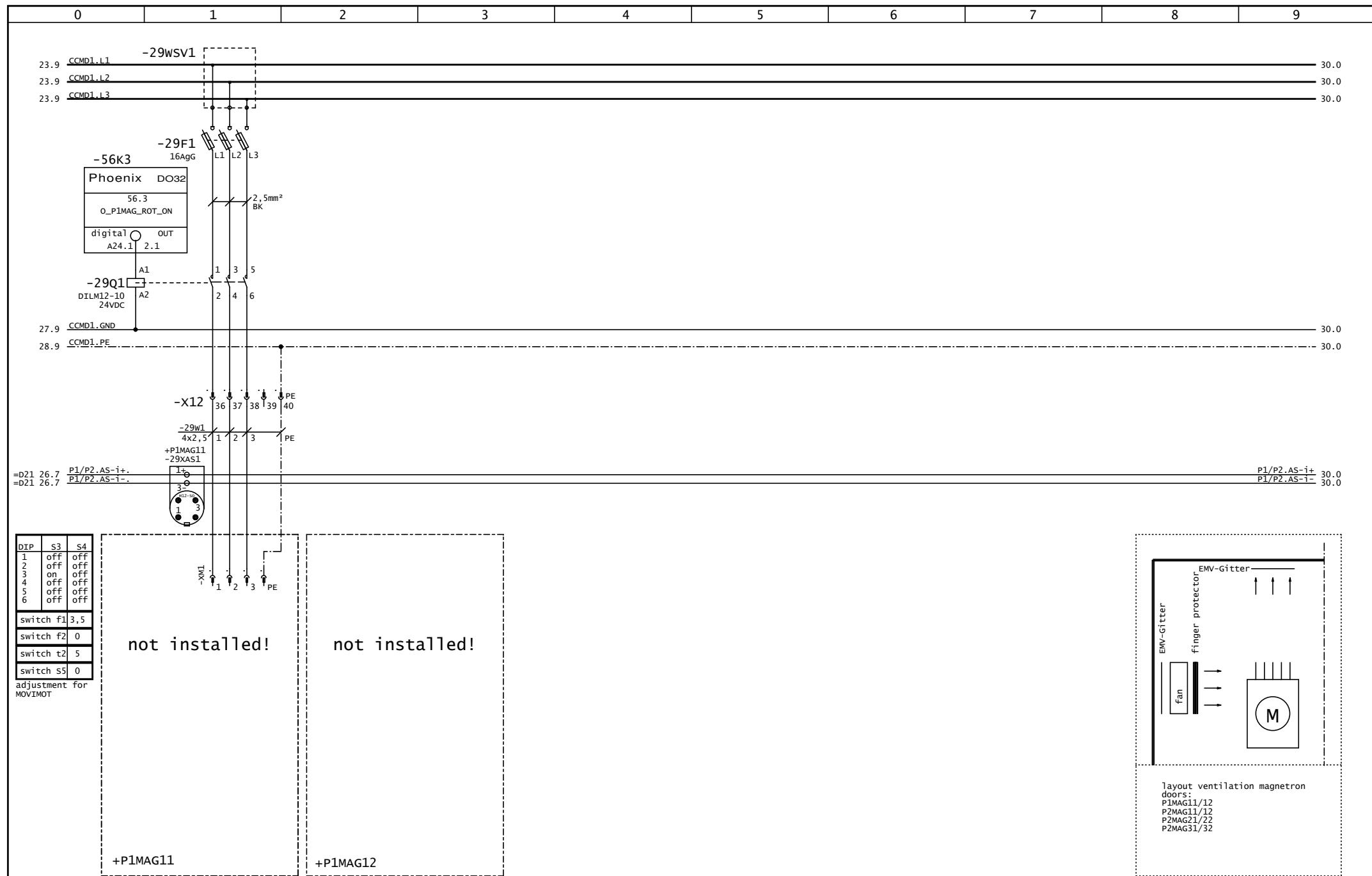


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				devel.	Henker				+CCMD01		
				check					sheet 27 of 60		
cond.	alter.	date	name	norm				circuit diagram		< 26	28 >

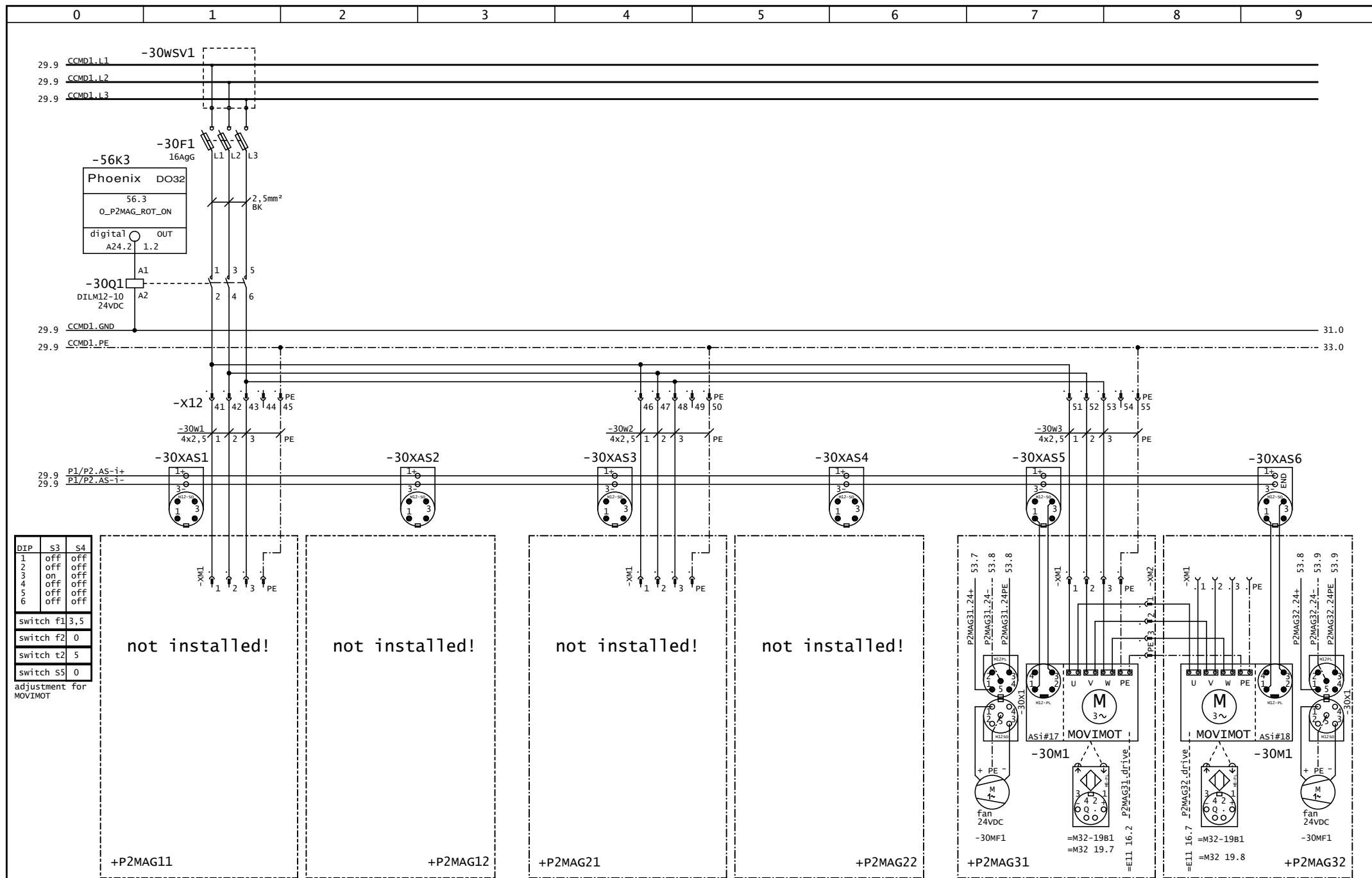
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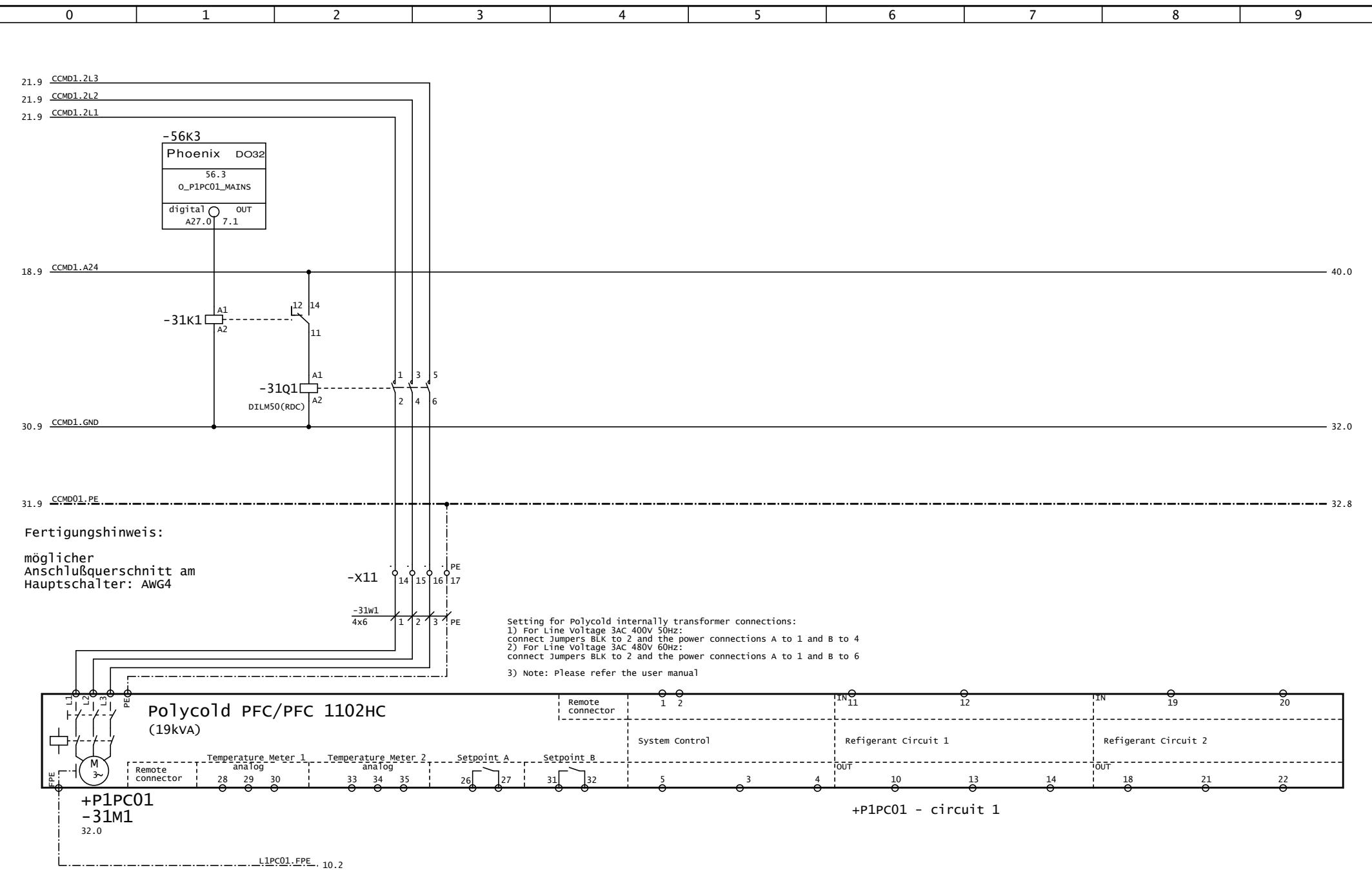


				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	ventilation return transport L1-P1	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 28	of 60	
cond.	alter.	date	name	norm					< 27	29 >	

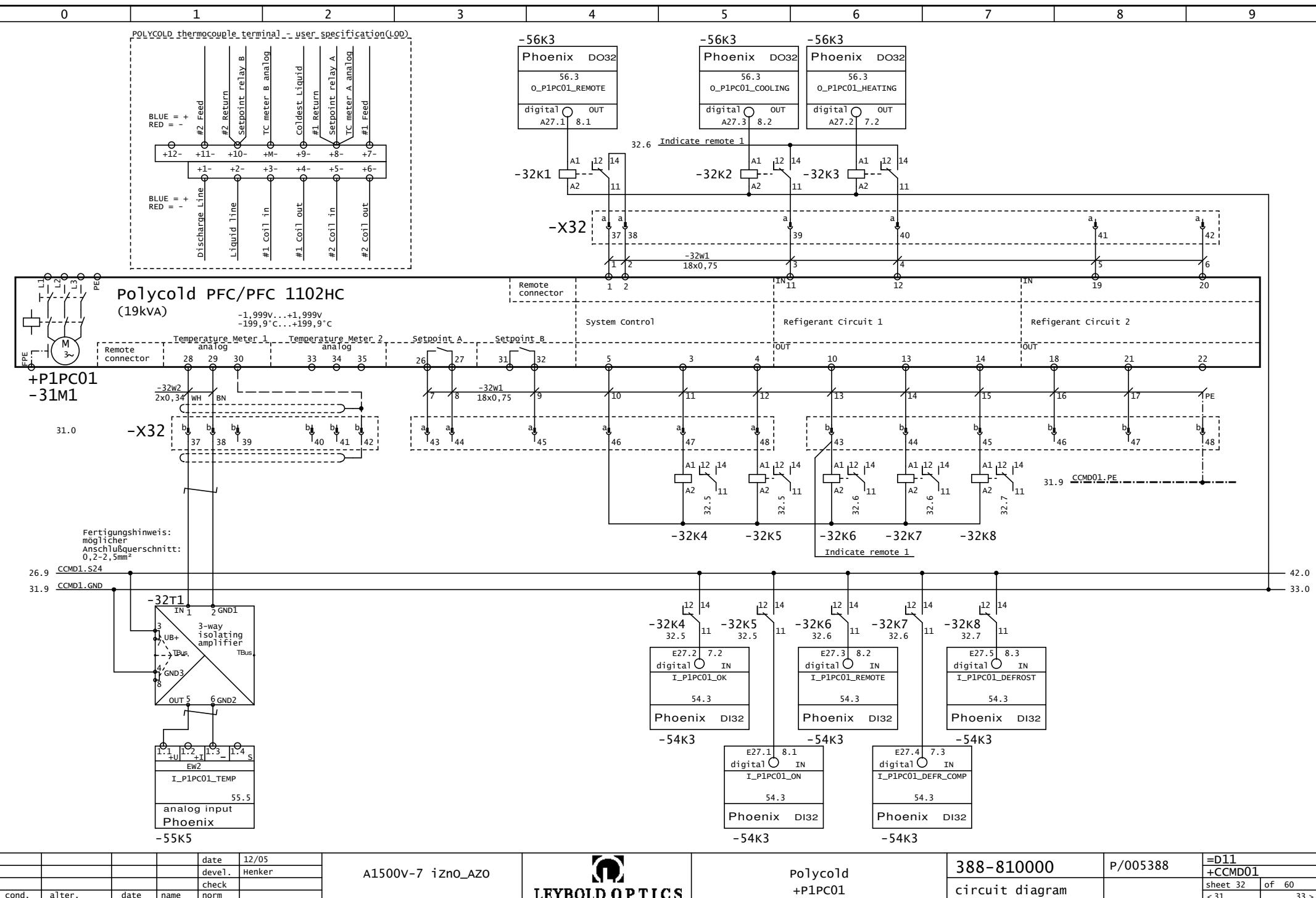


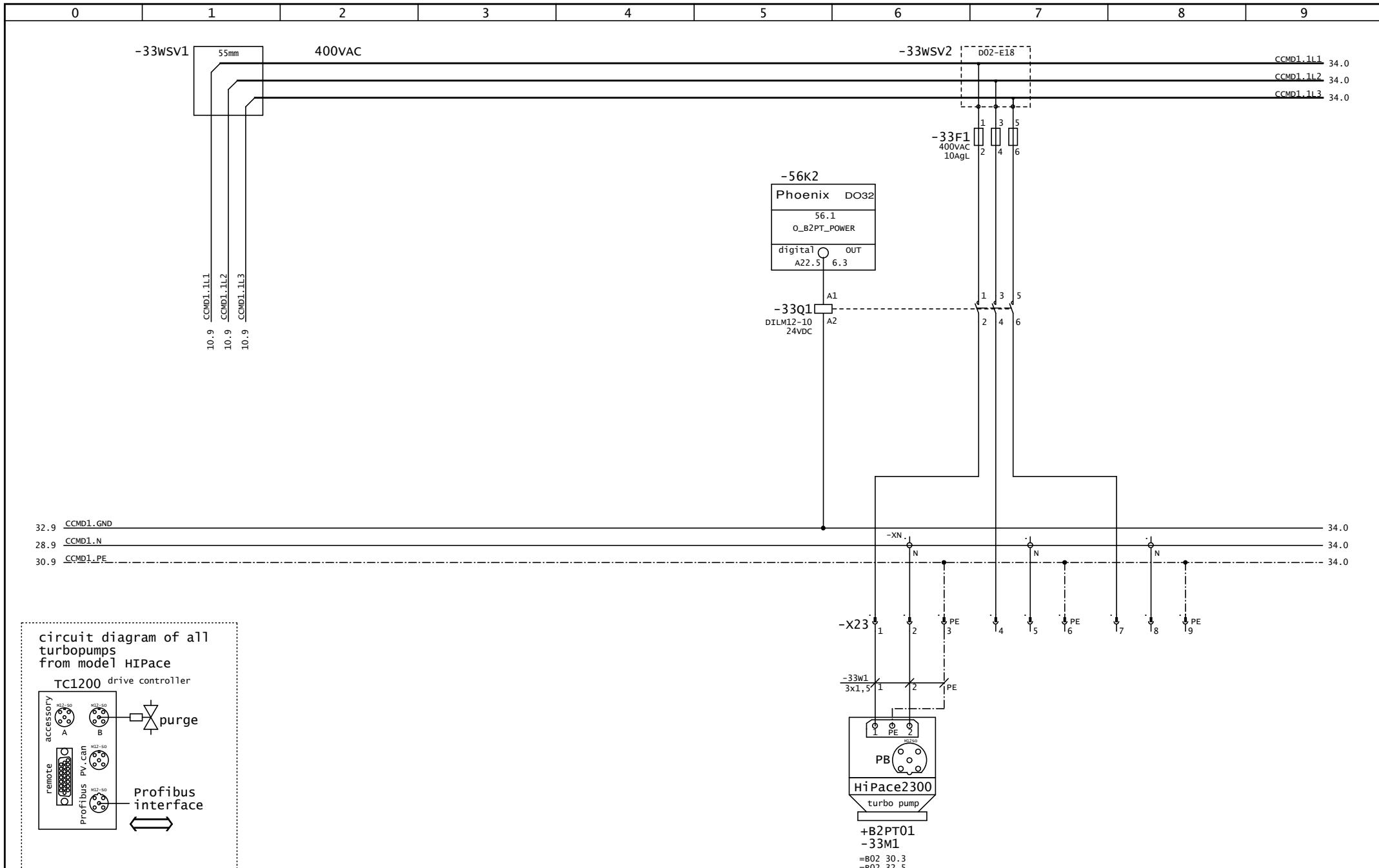
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				devel.	Henker				+CCMD01		
				check						sheet 29	of 60
cond.	alter.	date	name	norm					circuit diagram	< 28	30 >



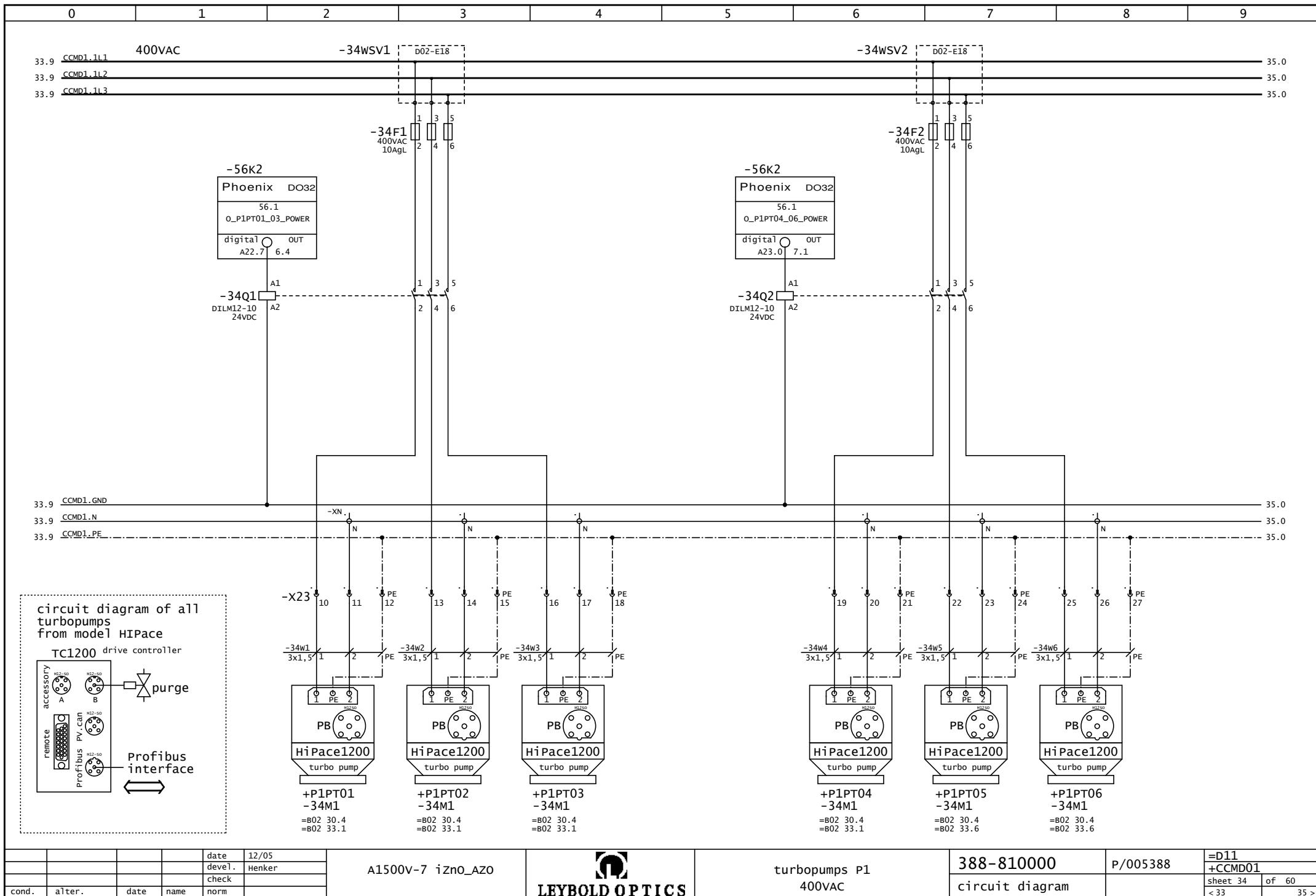


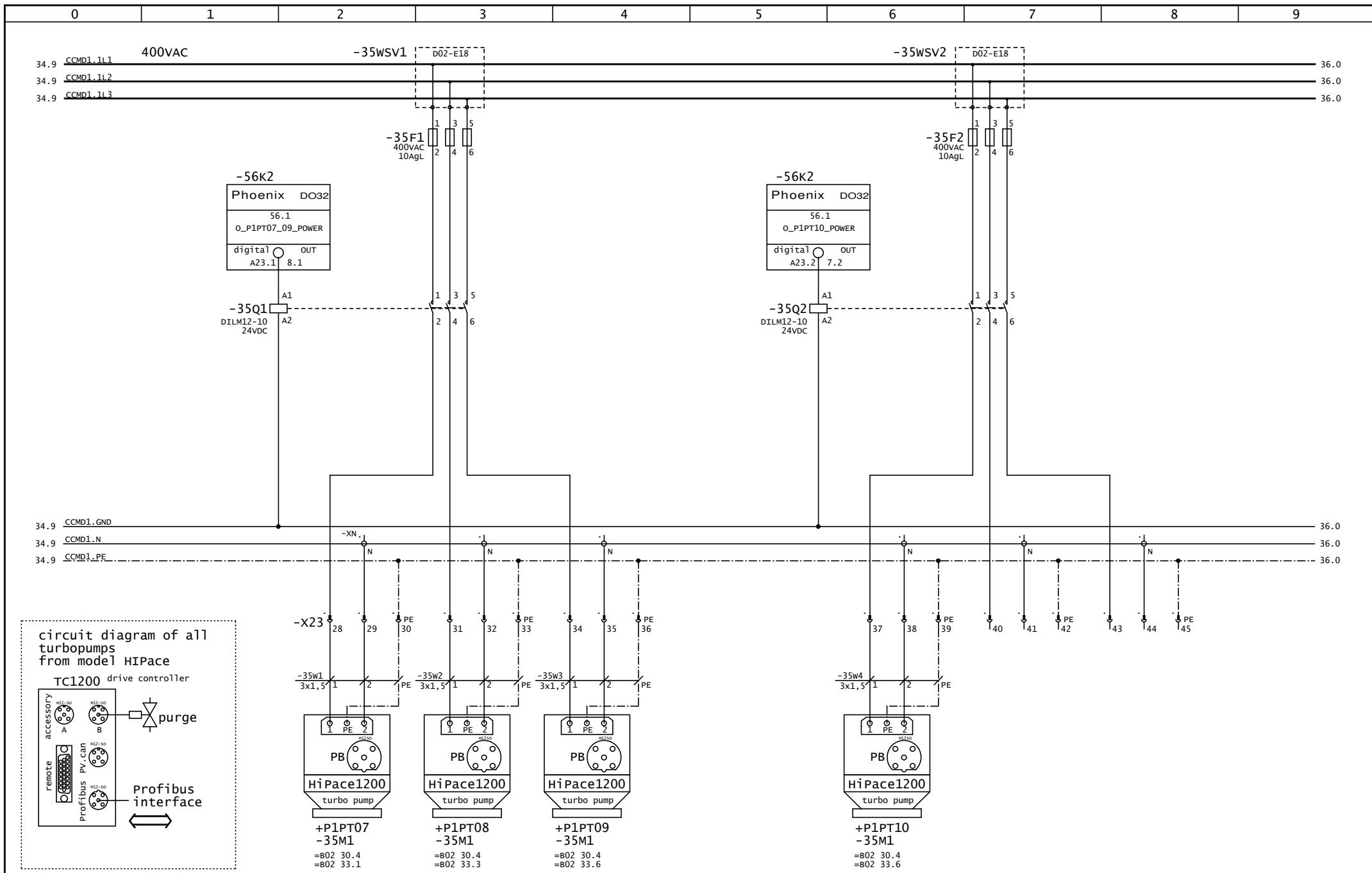
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	Polycold +P1PC01	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 31	of 60	
cond.	alter.	date	name	norm					< 30		32 >



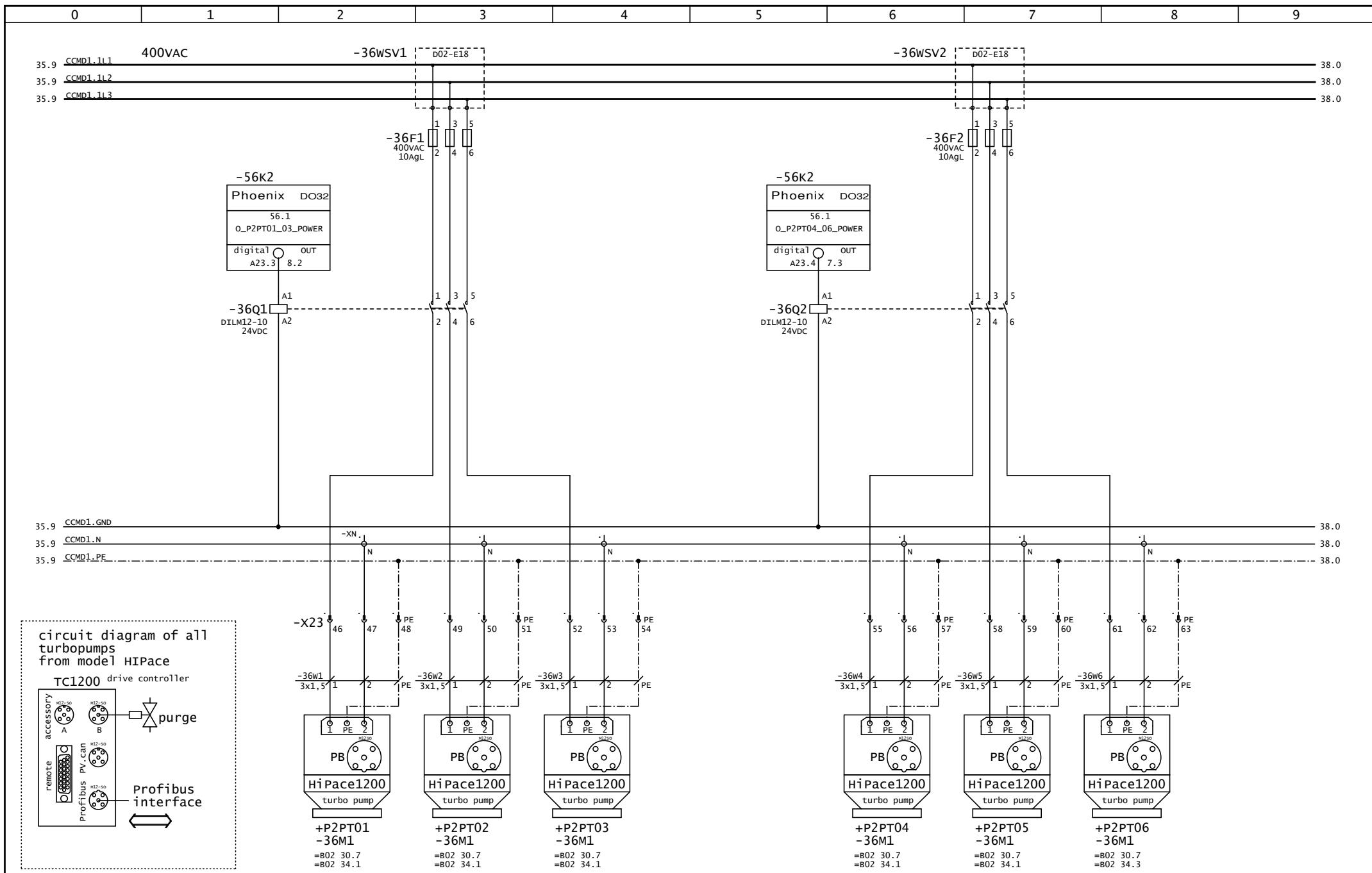


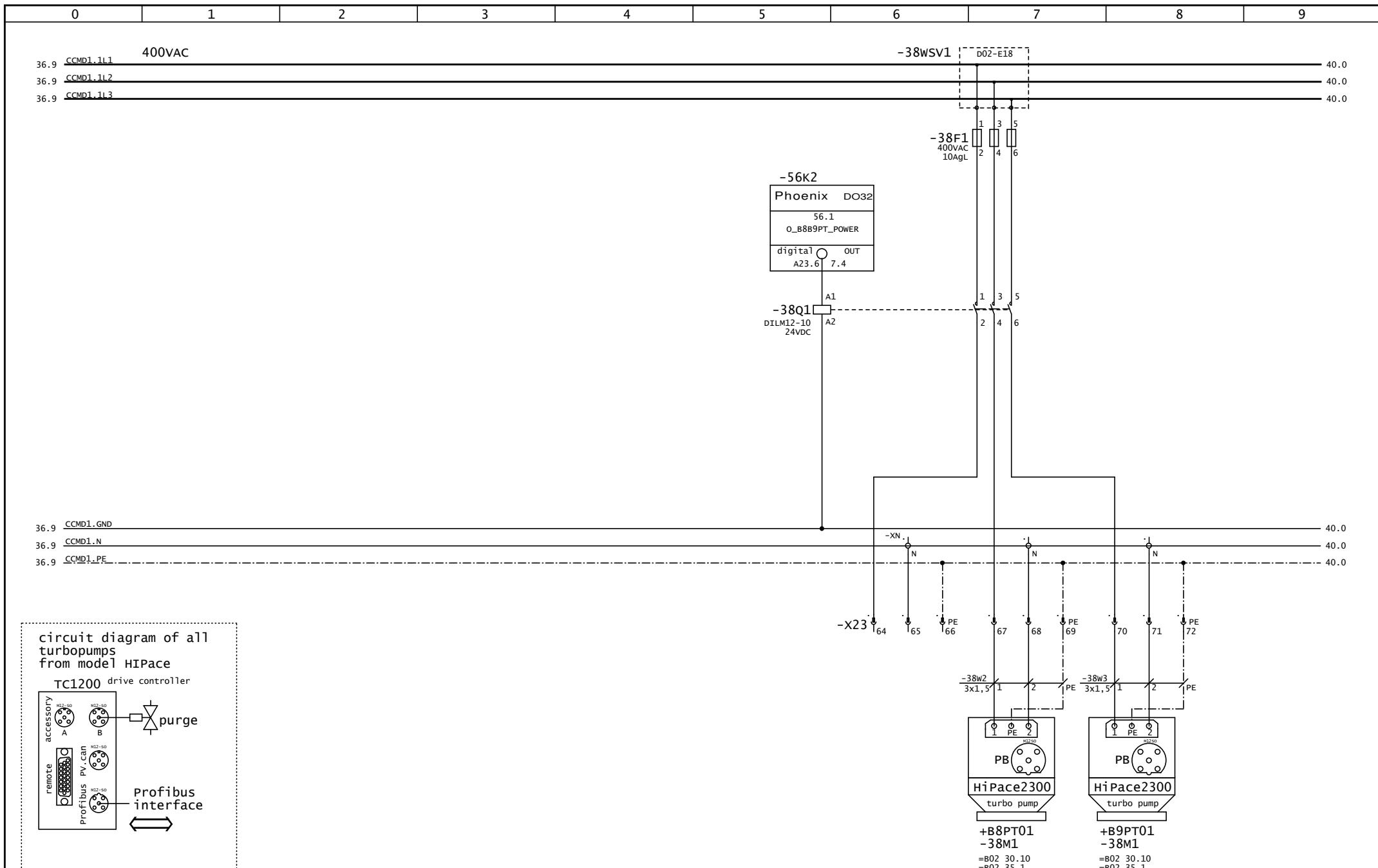
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	turbo pumps B2 400VAC	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 33 of 60		
cond.	alter.	date	name	norm					< 32	34 >	



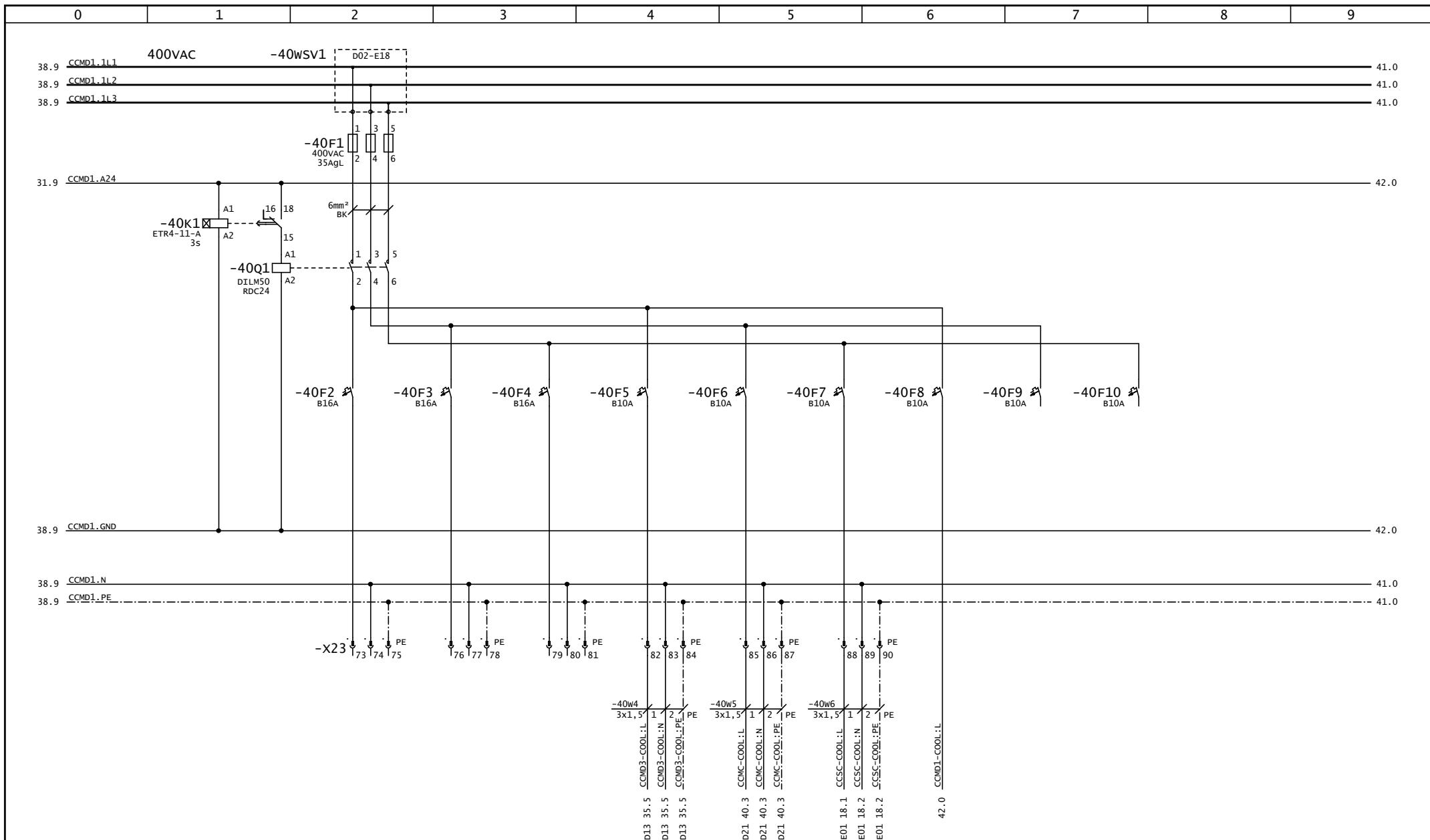


				date	12/05	A1500V-7 izn0_AZ0	 LEIBOLD OPTICS	turbopumps P1 400VAC	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 35 of 60		
cond.	alter.	date	name	norm					< 34	36 >	



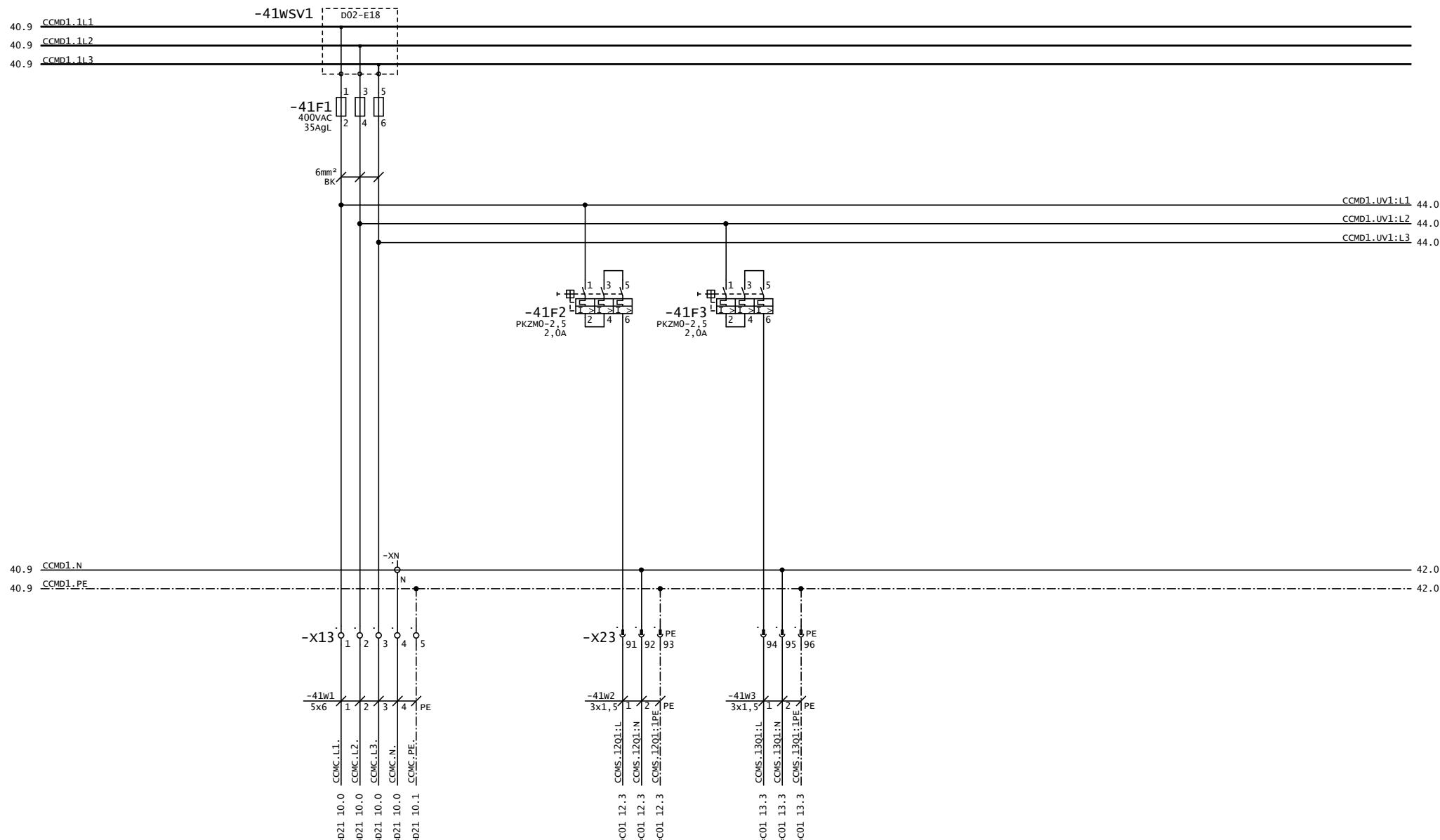


				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	turbopumps B8, B9 400VAC	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 38 of 60		
cond.	alter.	date	name	norm					< 36	40 >	



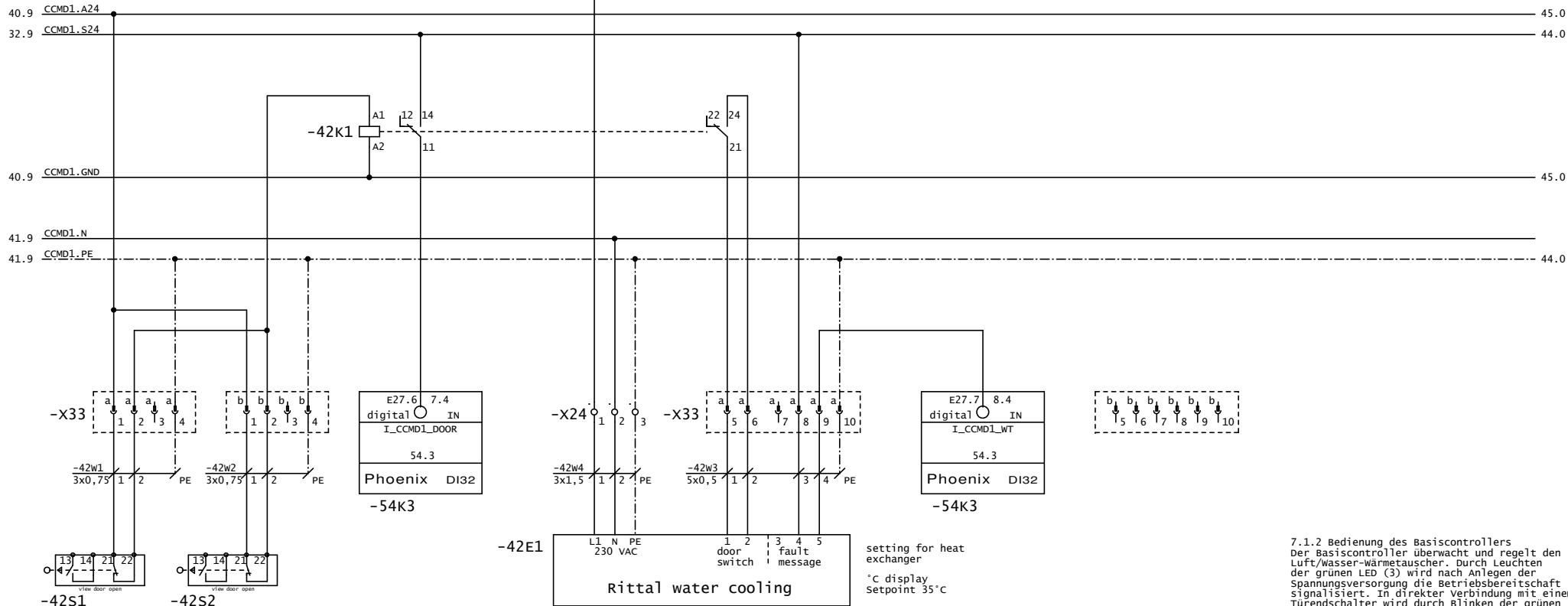
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	distribution AC 230V 400VAC	388-810000	P/005388	=D11 +CCMD01
				devel.	Henker						sheet 40 of 60
				check							< 38      41 >
cond.	alter.	date	name	norm							

0	1	2	3	4	5	6	7	8	9
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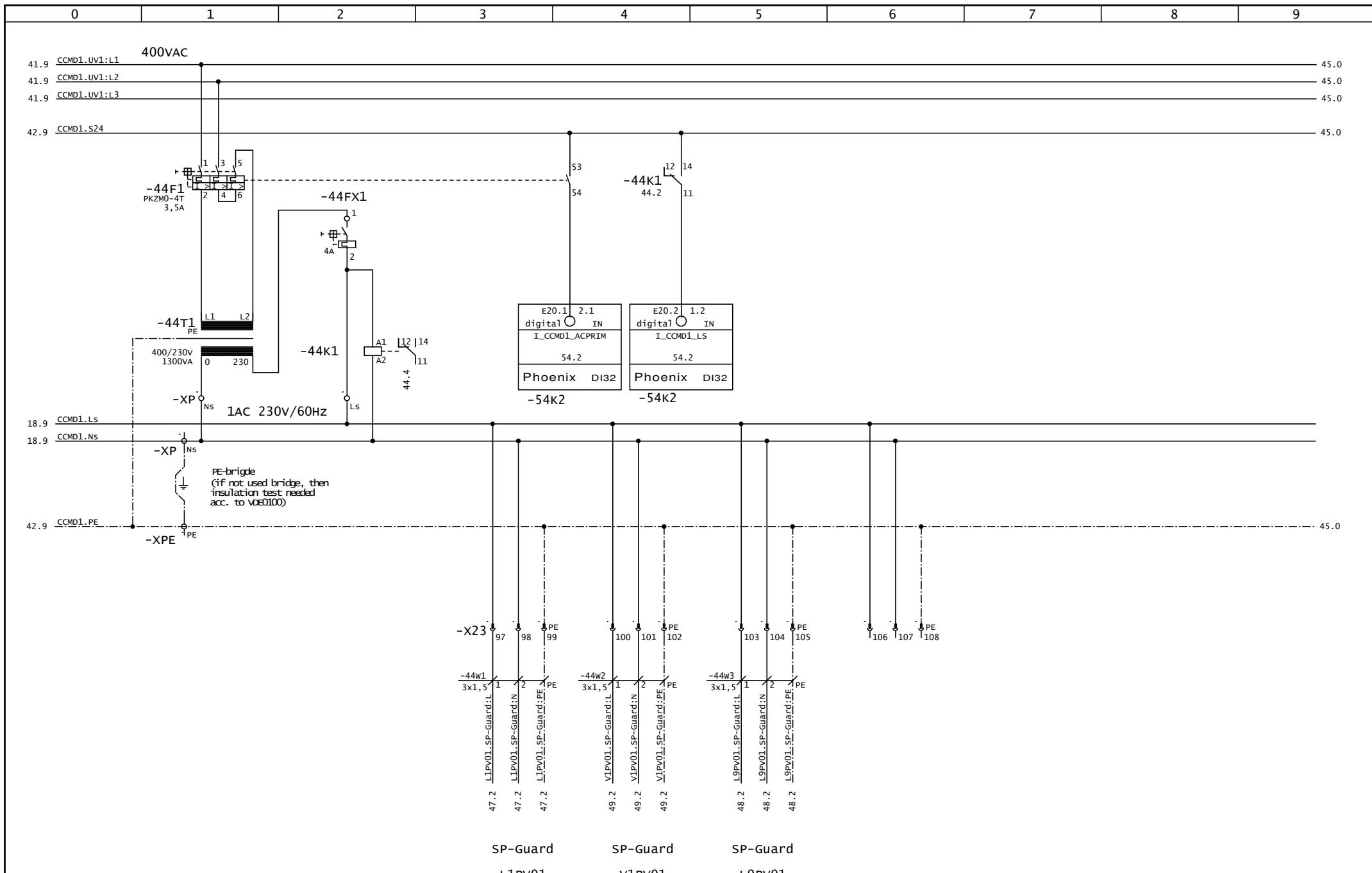
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	distribution AC 230V 400VAC	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 41 of 60		
cond.	alter.		date	name	norm				< 40	42 >	

0	1	2	3	4	5	6	7	8	9
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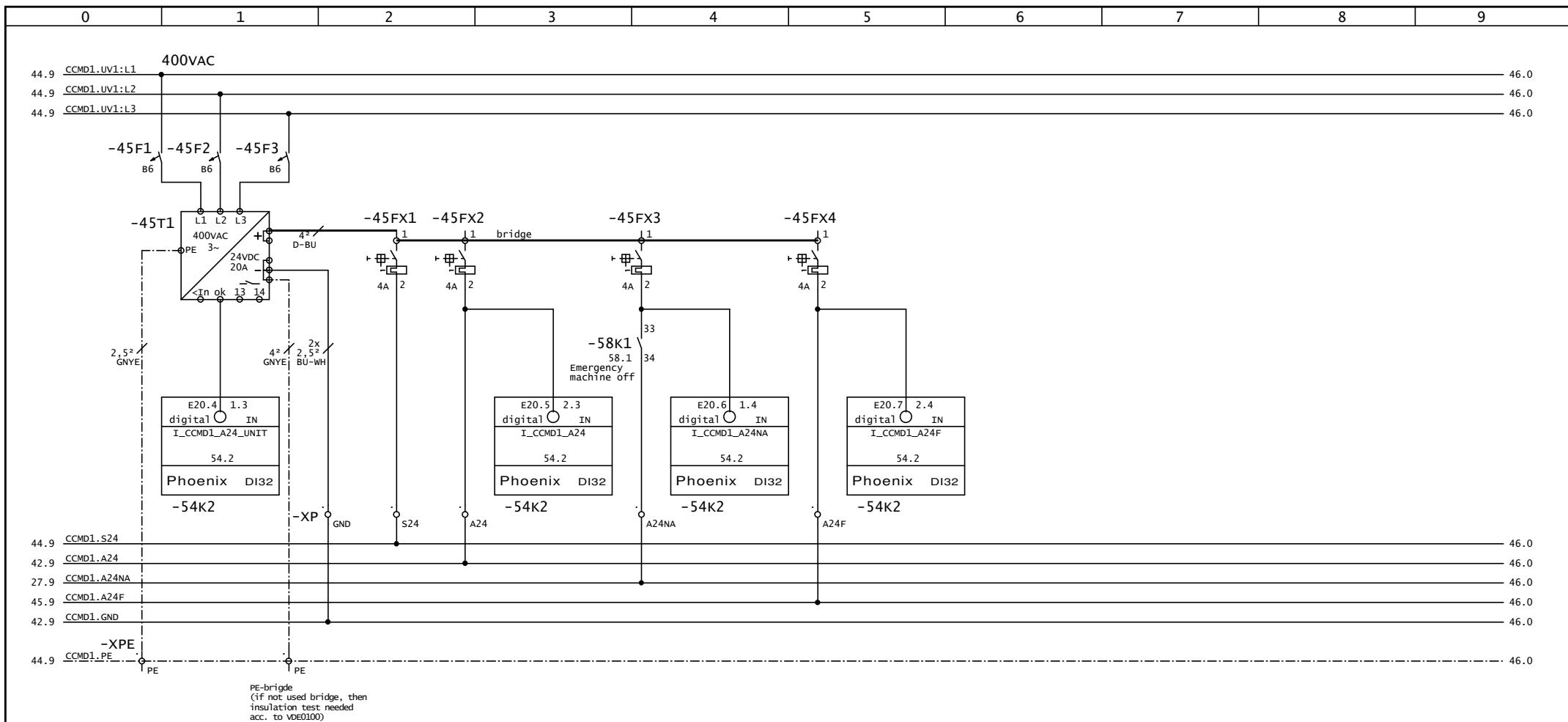
40.6 CCMD1-COOL:1

7.1.2 Bedienung des Basiscontrollers  
Der Basiscontroller überwacht und regelt den  
Luft/wasser-Wärmetauscher. Durch Leuchten  
der grünen LED (3) wird nach Anlegen der  
Spannungsversorgung die Betriebsbereitschaft  
signalisiert. In direkter Verbindung mit einem  
Türschalter wird durch Blinken der grünen  
LED eine offene Schaltzurkunft signalisiert.  
Die rote LED (4) signalisiert eine zu hohe  
Schaltzurkunft.  
Innenraumtemperatur: bei 5 K über dem eingestellten  
Sollwert leuchtet die rote LED dauernd.  
Zusätzlich kann die Übertemperaturmeldung  
noch durch einen integrierten potentialfreien  
Kontakt an der Anschlussklemme des Luft/  
Wasser-Wärmetauschers abgefragt werden.  
K1 Störmelderelektrolyt mit wechselseitigem  
Klemme 3: NC (normally closed)  
Klemme 4: C (Anschluss Versorgungsspannung  
Störmelderelektrolyt)  
Klemme 5: NO (normally open)  
Die Definitionen NC und NO beziehen sich auf  
den spannungslosen Zustand. Sobald Spannung  
anliegt, zieht das Störmelderelektrolyt an. Daraus  
folgt, dass die Relaiskontakte ihren Zustand  
wechseln (Kontakt 3 - 4 geöffnet; Kontakt 4 - 5  
geschlossen), was den normalen Betriebszustand  
des Wärmetauschers darstellt.  
Leckagealarm im Wasserkreislauf wird durch  
Blinken der roten LED angezeigt. In diesem Fall  
ist das Gerät manuell zu resetten, indem die  
gummisierte Potentiometeranzeige (5) für 3 sec.

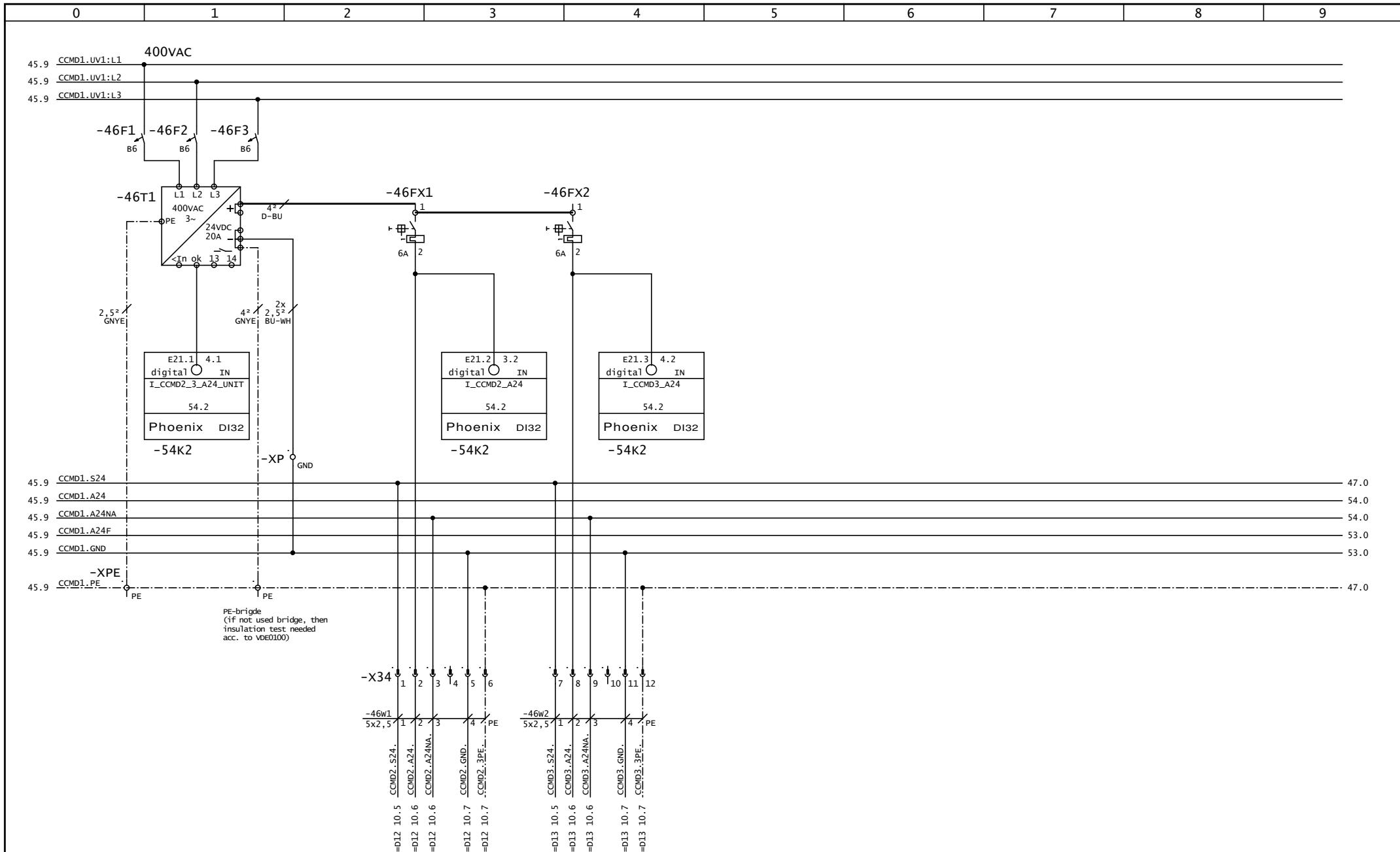
				date	12/05	A1500V-7 izn0_AZ0		control cabinet cooling	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
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cond.	alter.	date	name	norm					< 41	44 >	



				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	230VAC	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 44 of 60		
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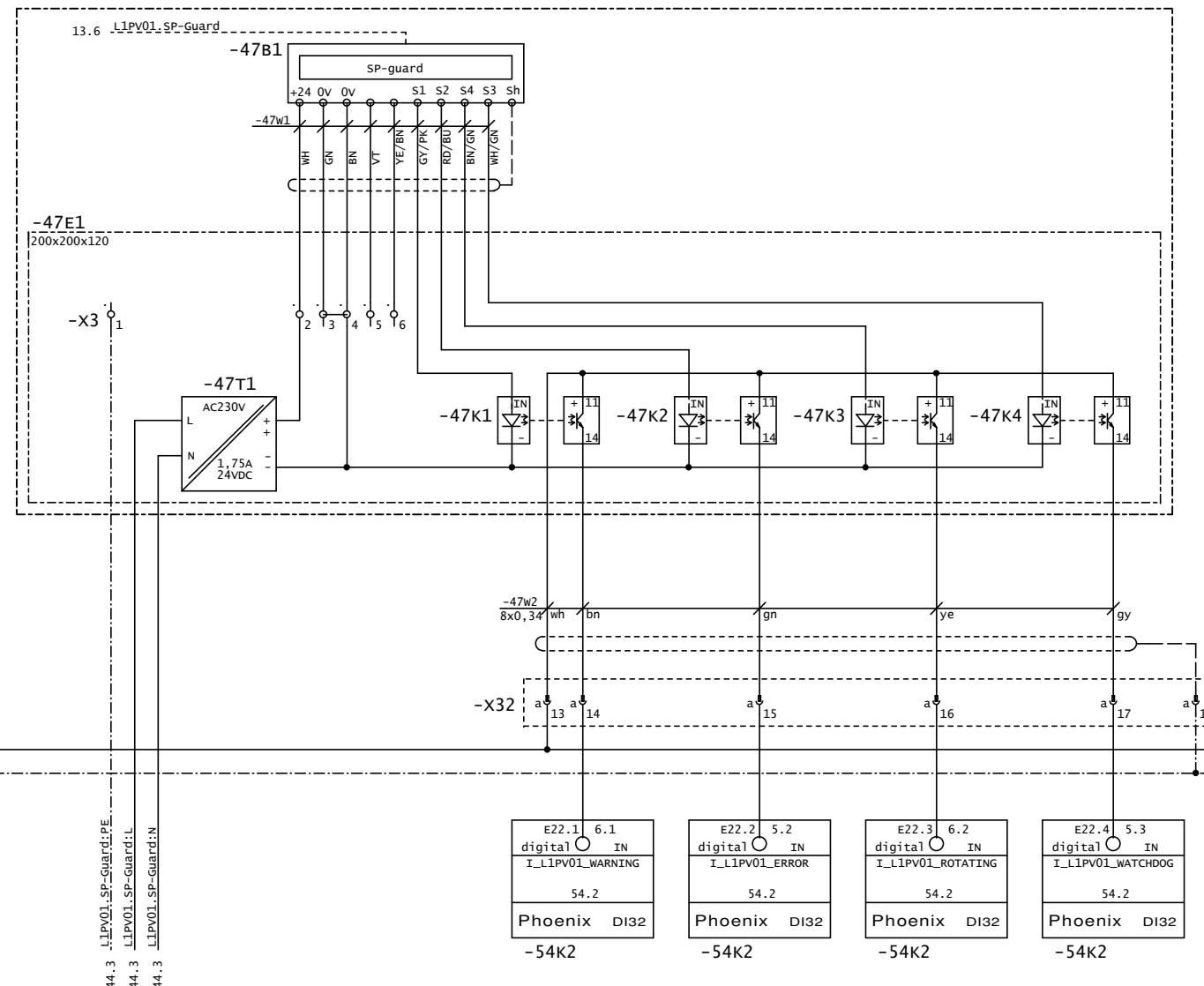
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				check					sheet 45 of 60		
cond.	alter.	date	name	norm					< 44	46 >	



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				devel.	Henker				+CCMD01		
				check					sheet 46 of 60		
cond.	alter.	date	name	norm					circuit diagram		< 45 47 >

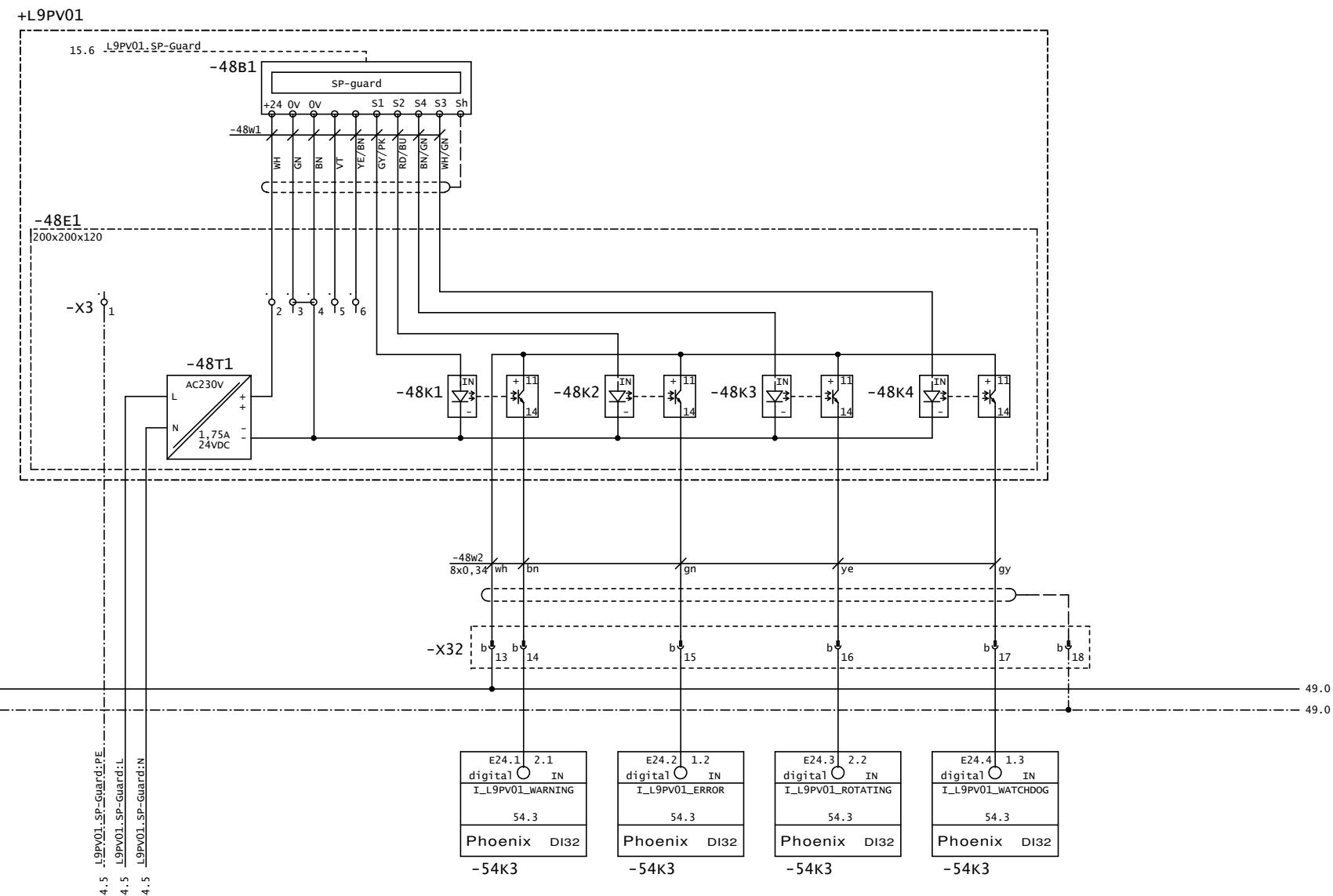
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+L1PV01



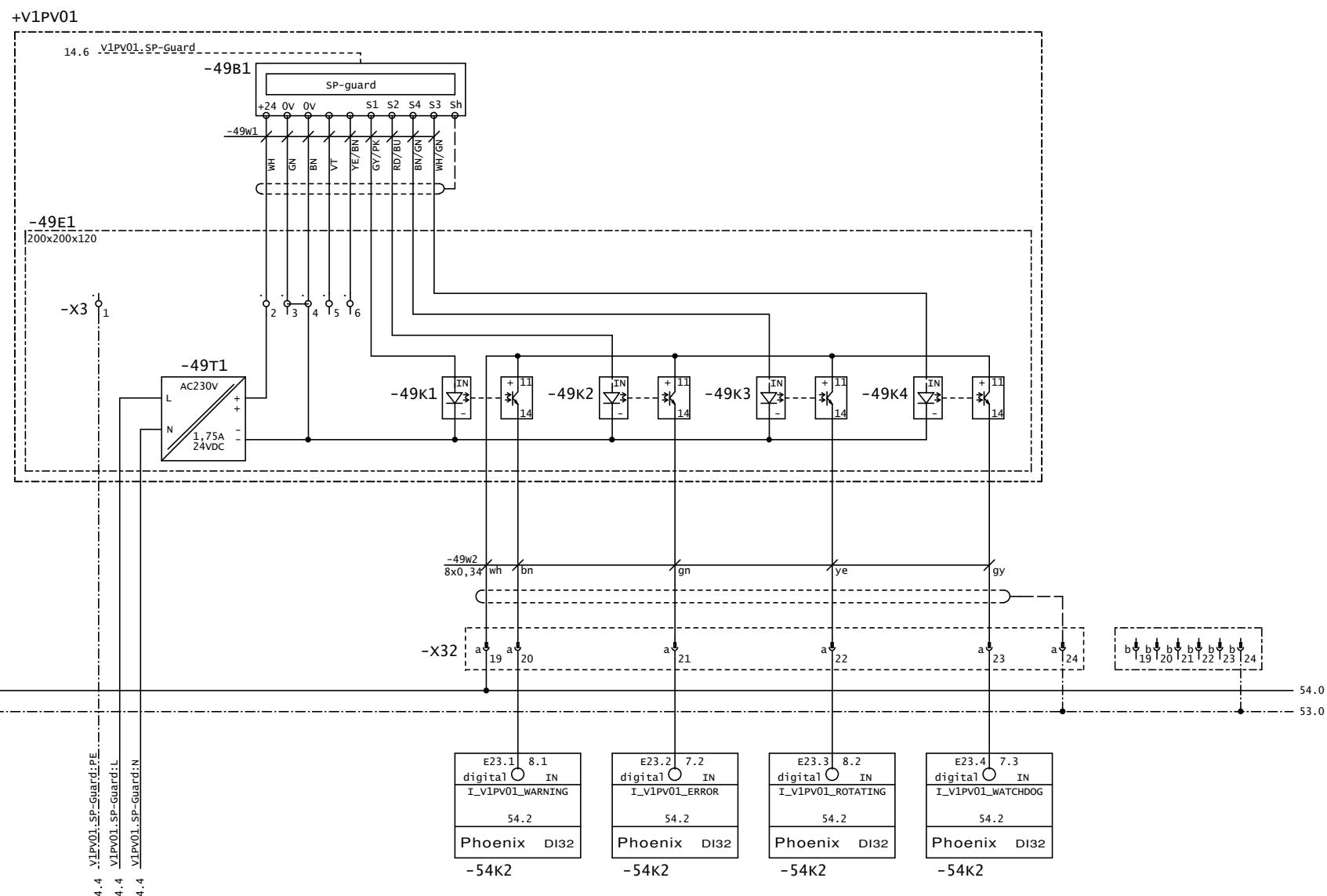
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				devel.	Henker						+CCMD01
				check							sheet 47 of 60
cond.	alter.	date	name	norm					circuit diagram		< 46 48 >

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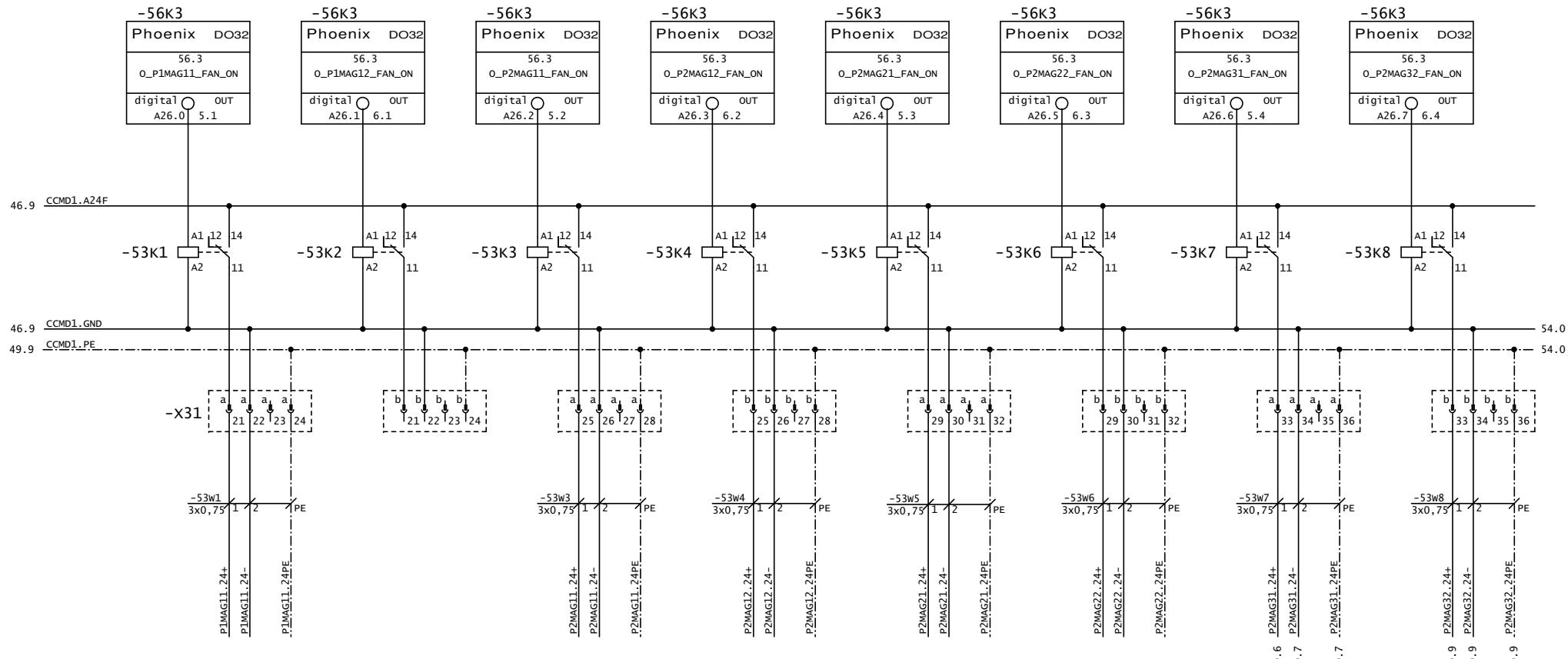
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				devel.	Henker				+CCMD01		
				check					sheet 48 of 60		
cond.	alter.	date	name	norm					circuit diagram		< 47 49 >

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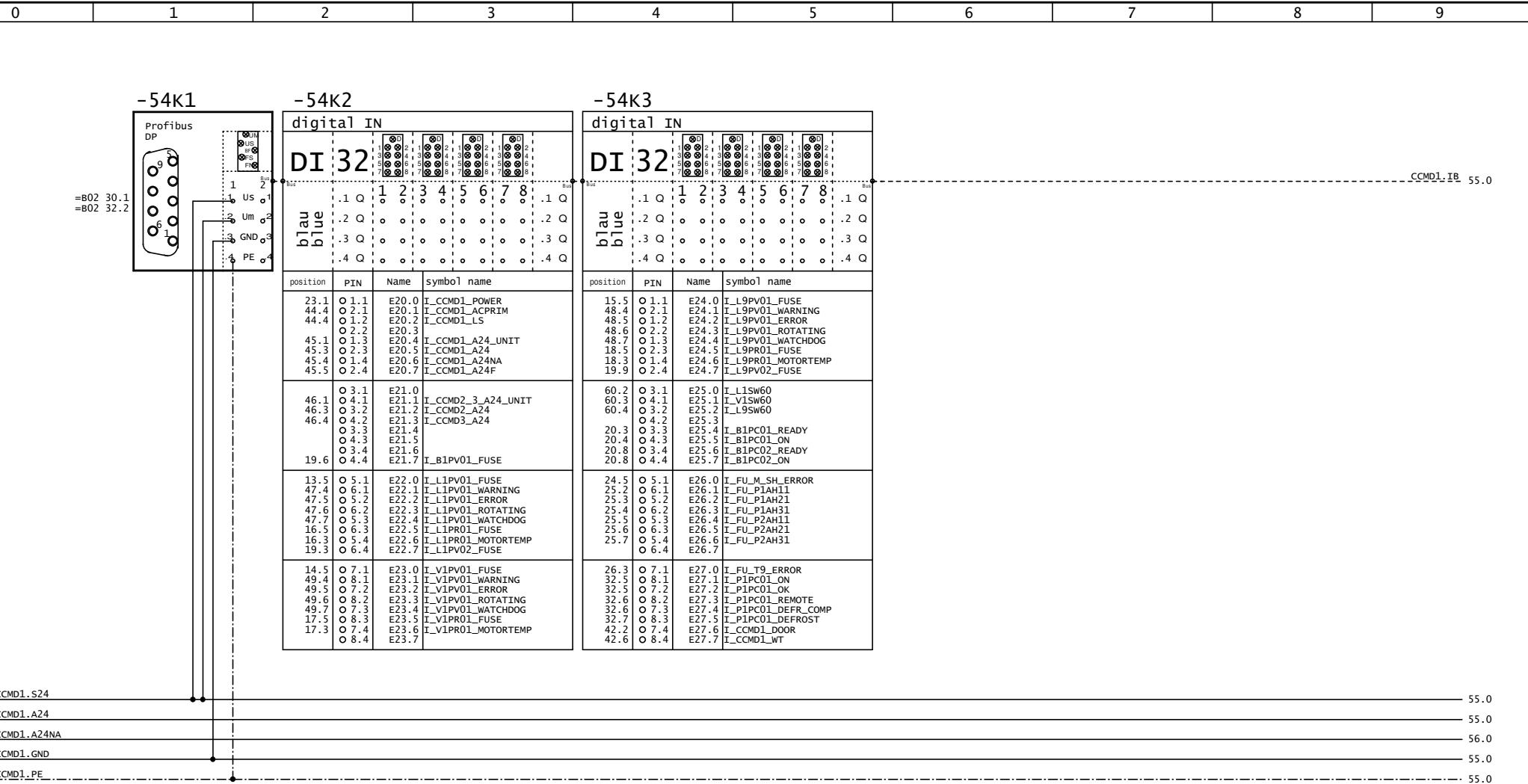


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cond.	alter.	date	name	norm					circuit diagram		< 48 53 >

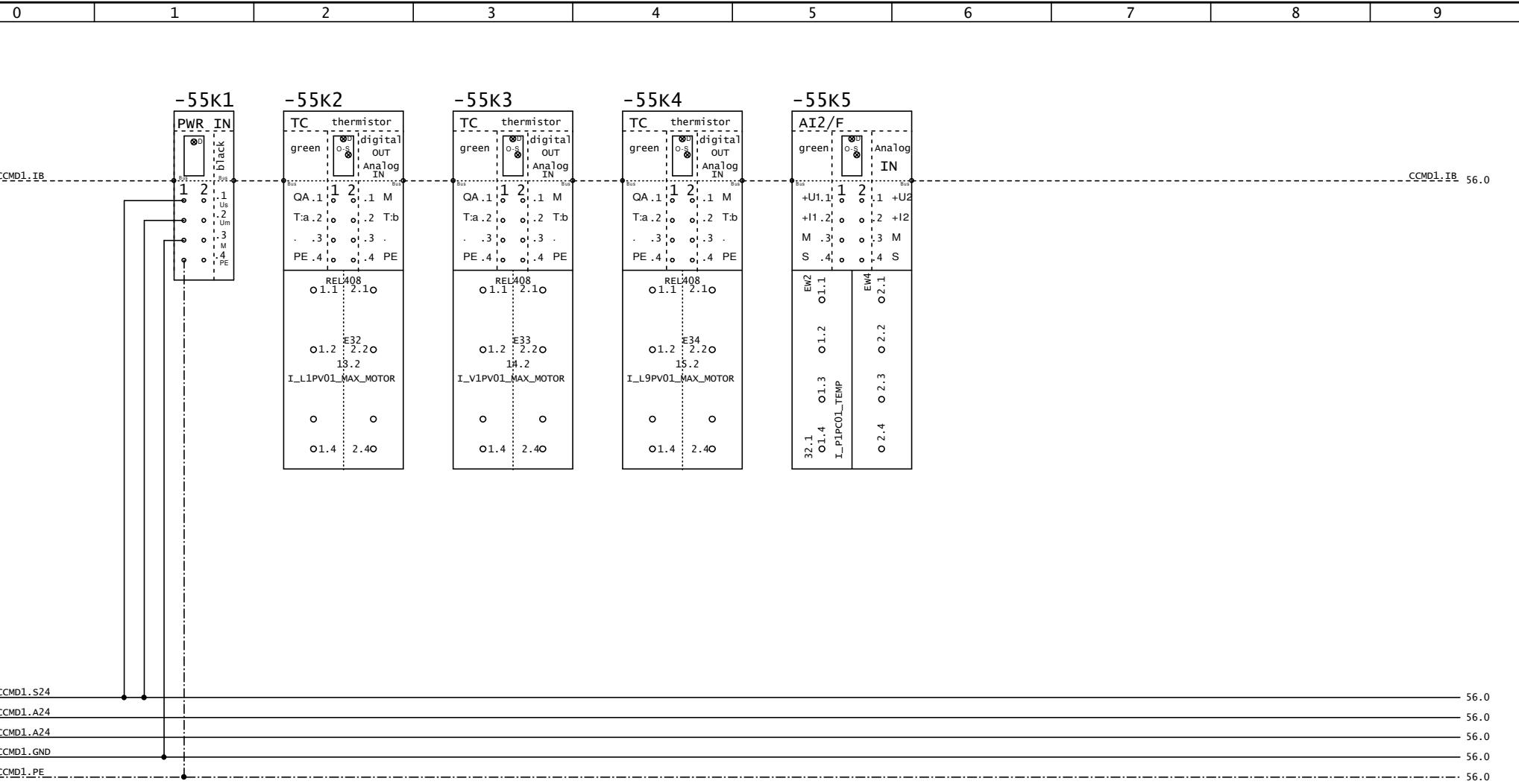
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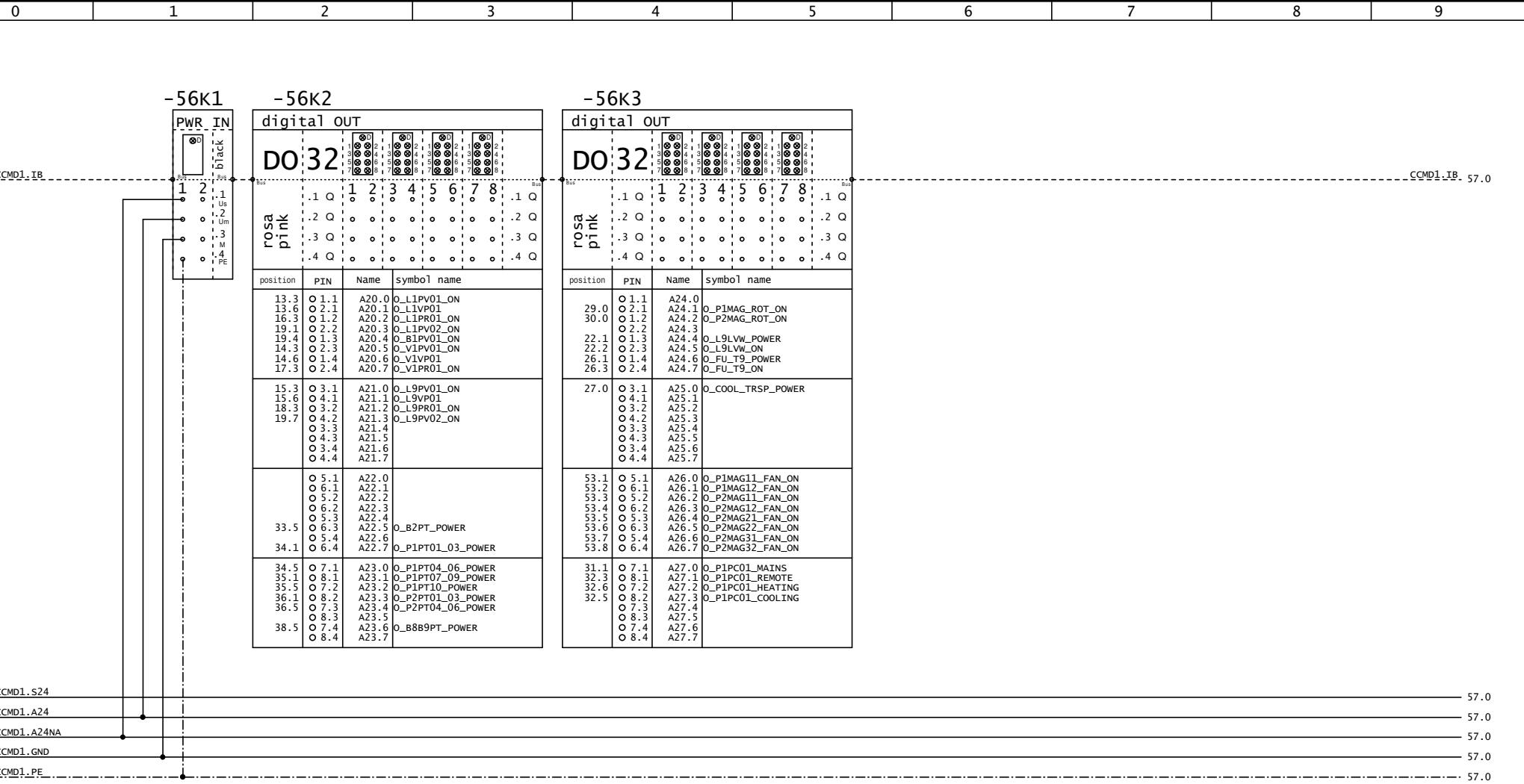
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				devel.	Henker				+CCMD01		
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cond.	alter.	date	name	norm					< 49	54 >	



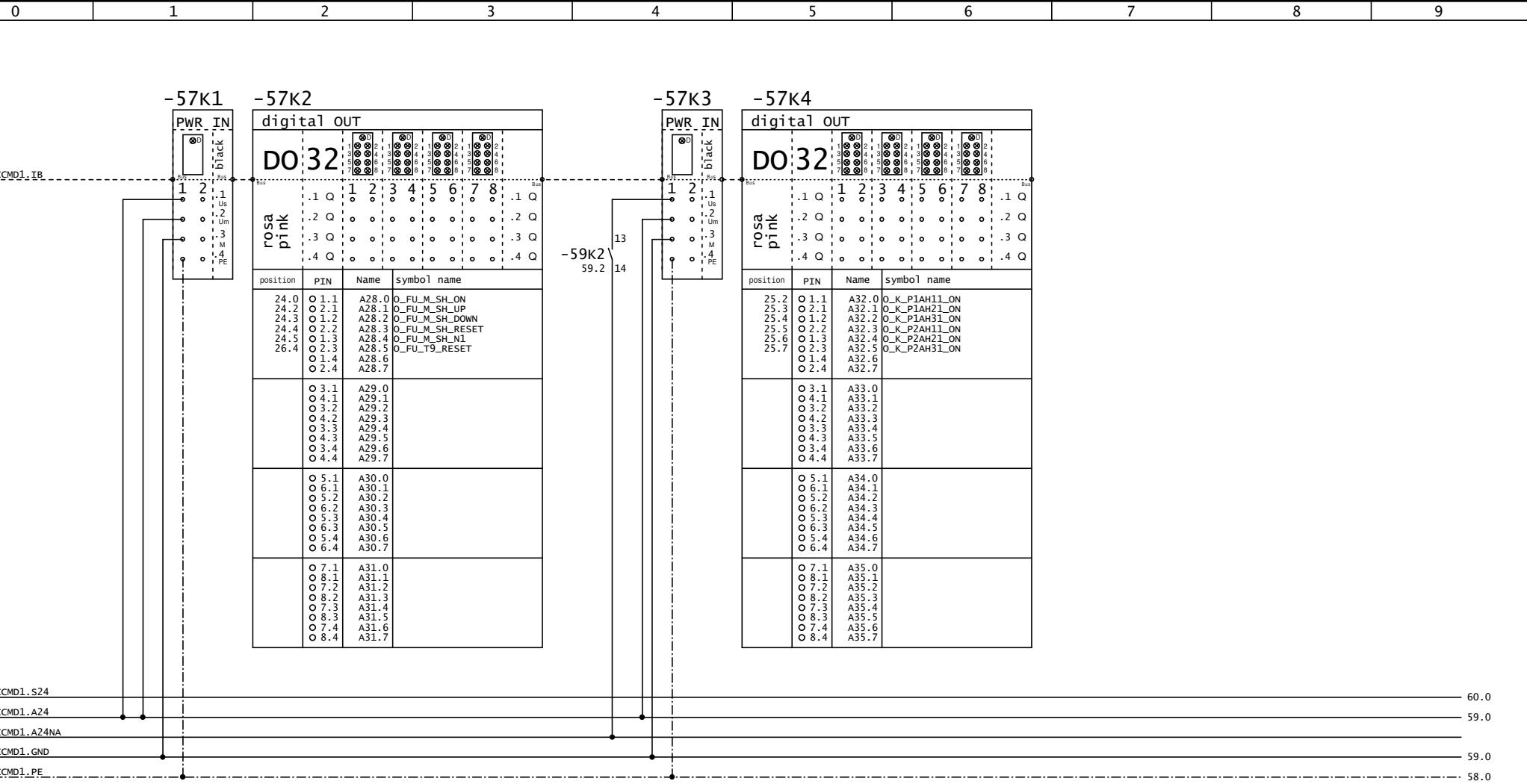
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				devel.	Henker				+CCMD01		
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cond.	alter.	date	name	norm					< 53	55 >	



				date	12/05	A1500V-7 izn0_AZ0		analog inputs	388-810000	P/005388	=D11
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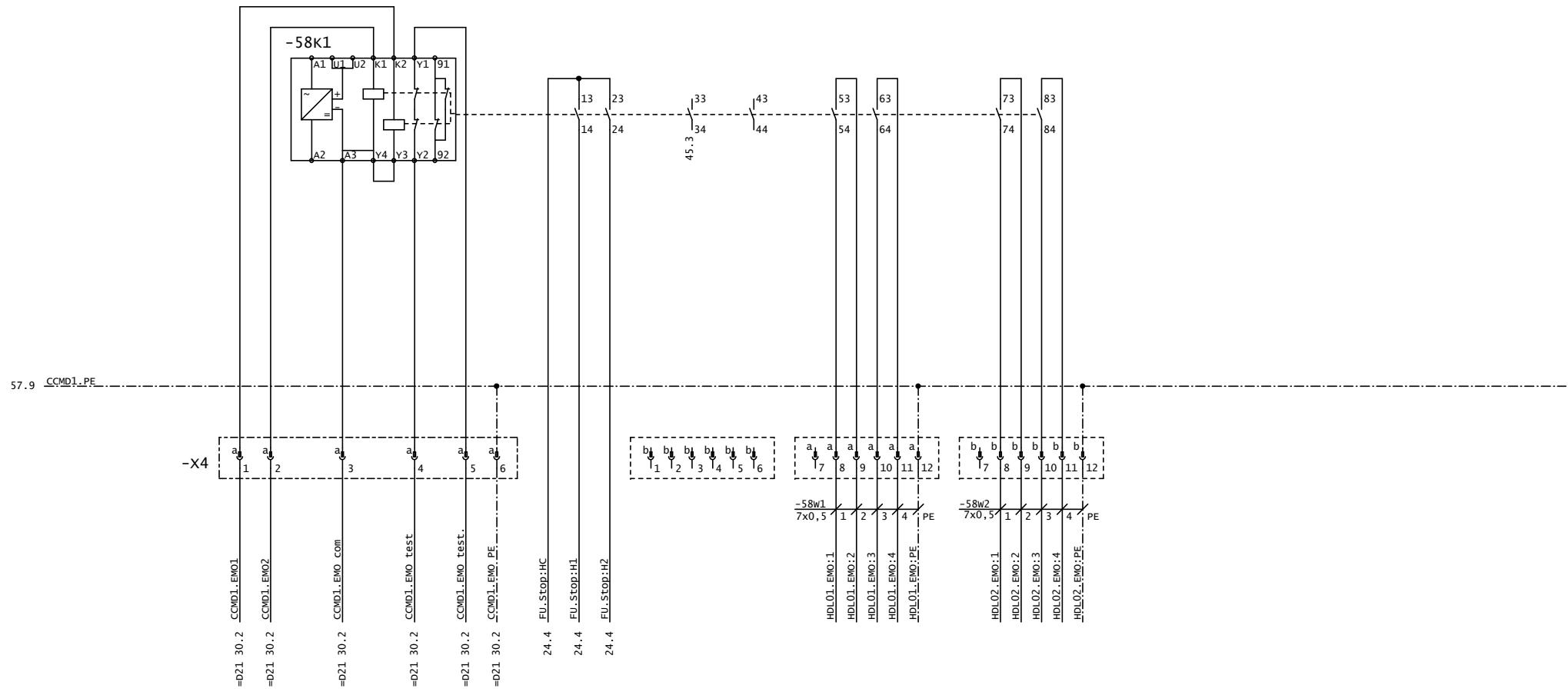


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cond.	alter.	date	name	norm					< 55	57 >	

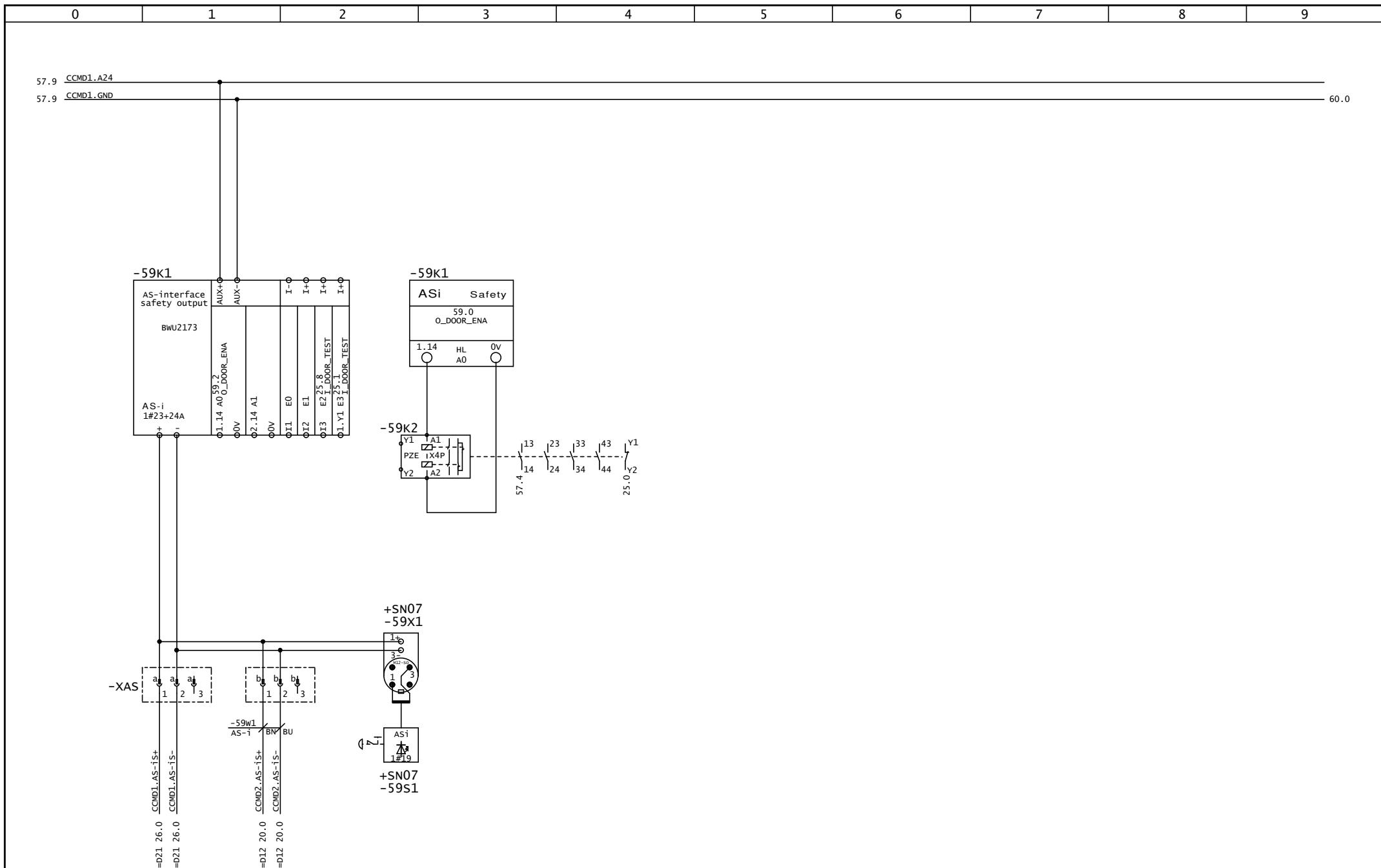


				date	12/05	A1500V-7 iznO_AZO	LEYBOLD OPTICS	digital outputs process doors	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 57	of 60	
cond.	alter.	date	name	norm					< 56	58 >	

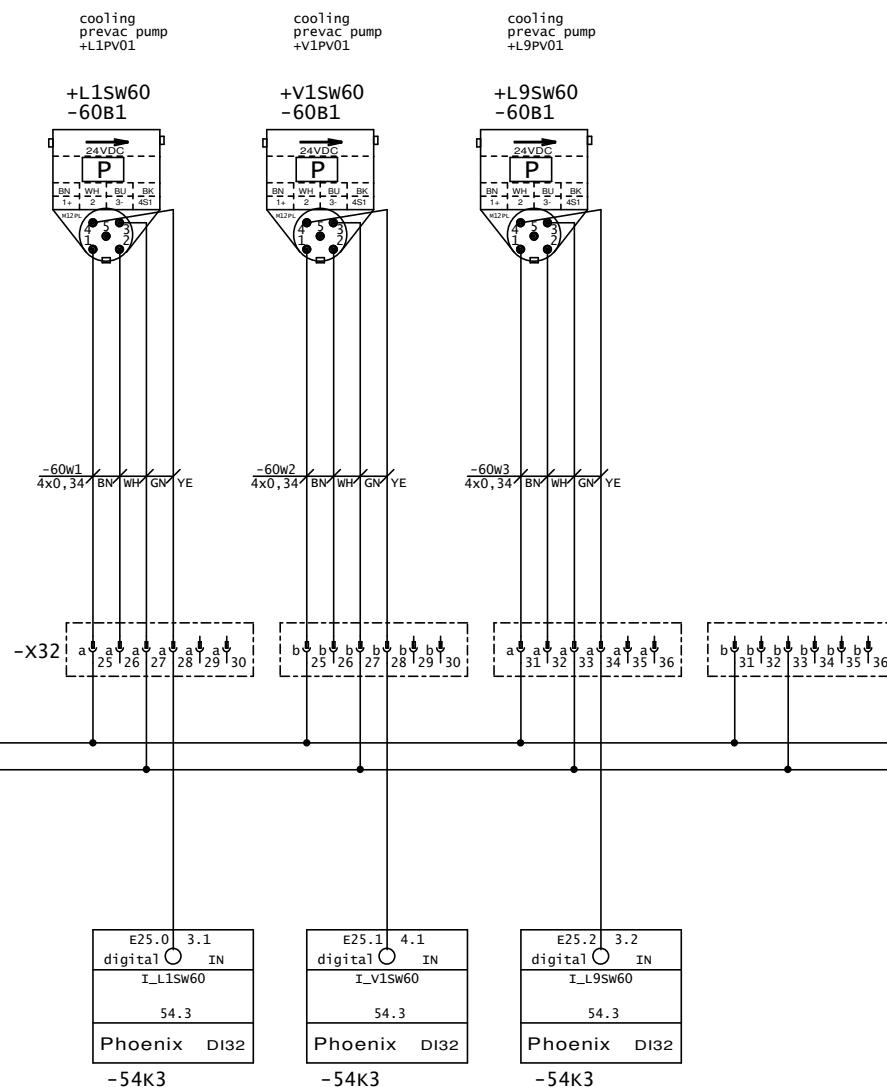
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				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	emergency off	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 58	of 60	
cond.	alter.	date	name	norm					< 57	59 >	



0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	flow monitoring pump stations	388-810000	P/005388	=D11
				devel.	Henker				+CCMD01		
				check					sheet 60 of 60		
cond.	alter.	date	name	norm				circuit diagram	< 59	=D12/6 >	

0      1      2      3      4      5      6      7      8      9

1000 |      800 |      600 |      400 |      200 |

+CCMD02

-6U1      RIT-XXXXXXX TS Schrank 1000x2200x600 RAL 7035 m. MPL mod. nach Angebot	
-6U2      RIT-8126235 TS Seitenwände (H:2200, T:600) RAL 7035	
-6U3      RIT-8801755 TS Aufsatzmodul RAL 7035 B1000xH200xT600	
-6U4      RIT-8801775 TS Aufsatzmodul Seitenwände H200xT600 paar	
-6U5      RIT-8609260 TS Trennwand (H:2200, T:600)	

2200

2000

1800

1600

1400

1200

1000

800

600

400

200

0

equipment dimensions: (wide x height x deep)  
all dimensions in mm

equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

GVA dimensions only approximated				date	12/05	
cond.	alter.	date	name	norm		
				devel.	Henker	
				check		

A1500v-7 izno\_AZC



## layout outside

388-810000

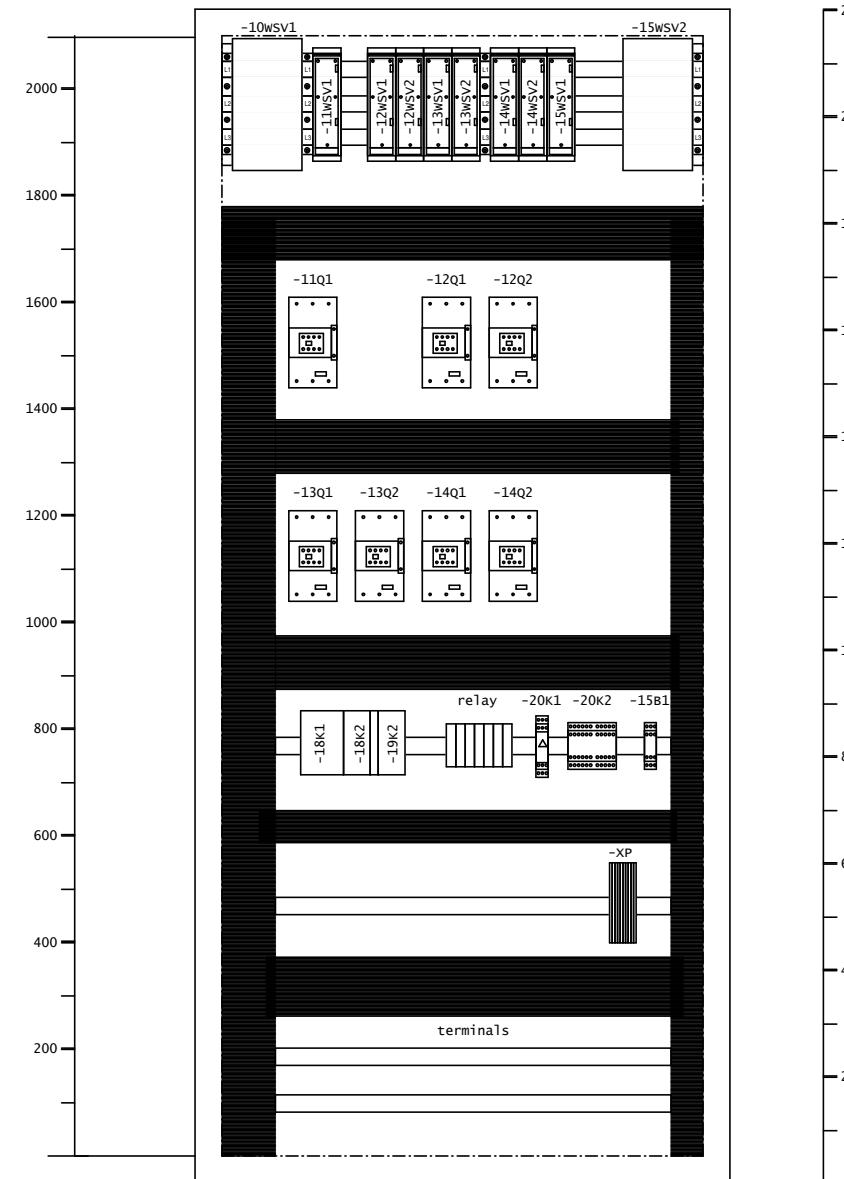
P/005388

	=D12
	+CCMD02
sheet 6	of 21
< =D11/60	7 >

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

1000  
800  
600  
400  
200

+CCMD02



				date	12/05
				devel.	Henker
				check	
cond.	alter.	date	name	norm	

A1500V-7 iznO\_AZO

  
**LEYBOLD OPTICS**

mounting plate

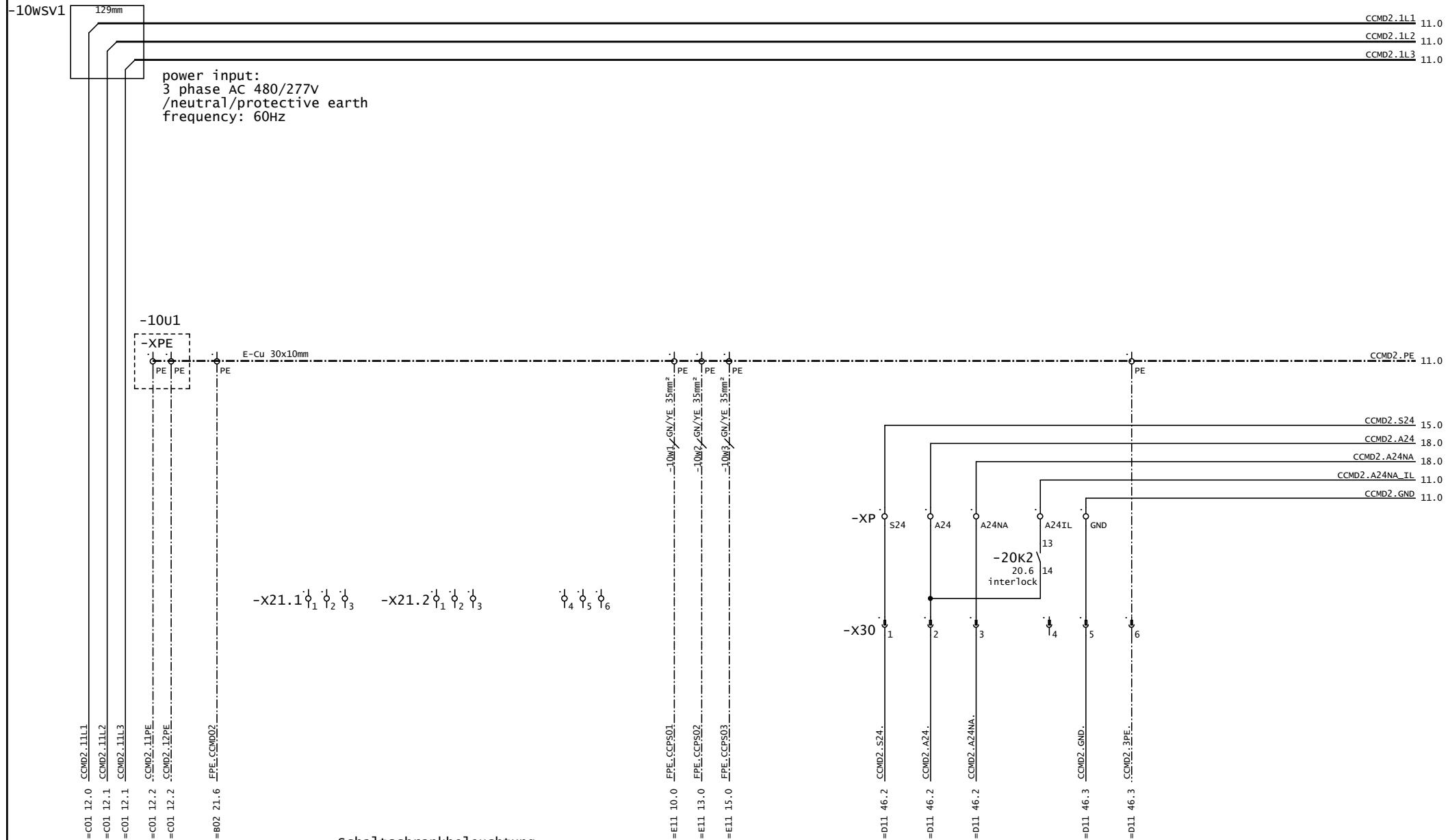
388-810000

P/005388

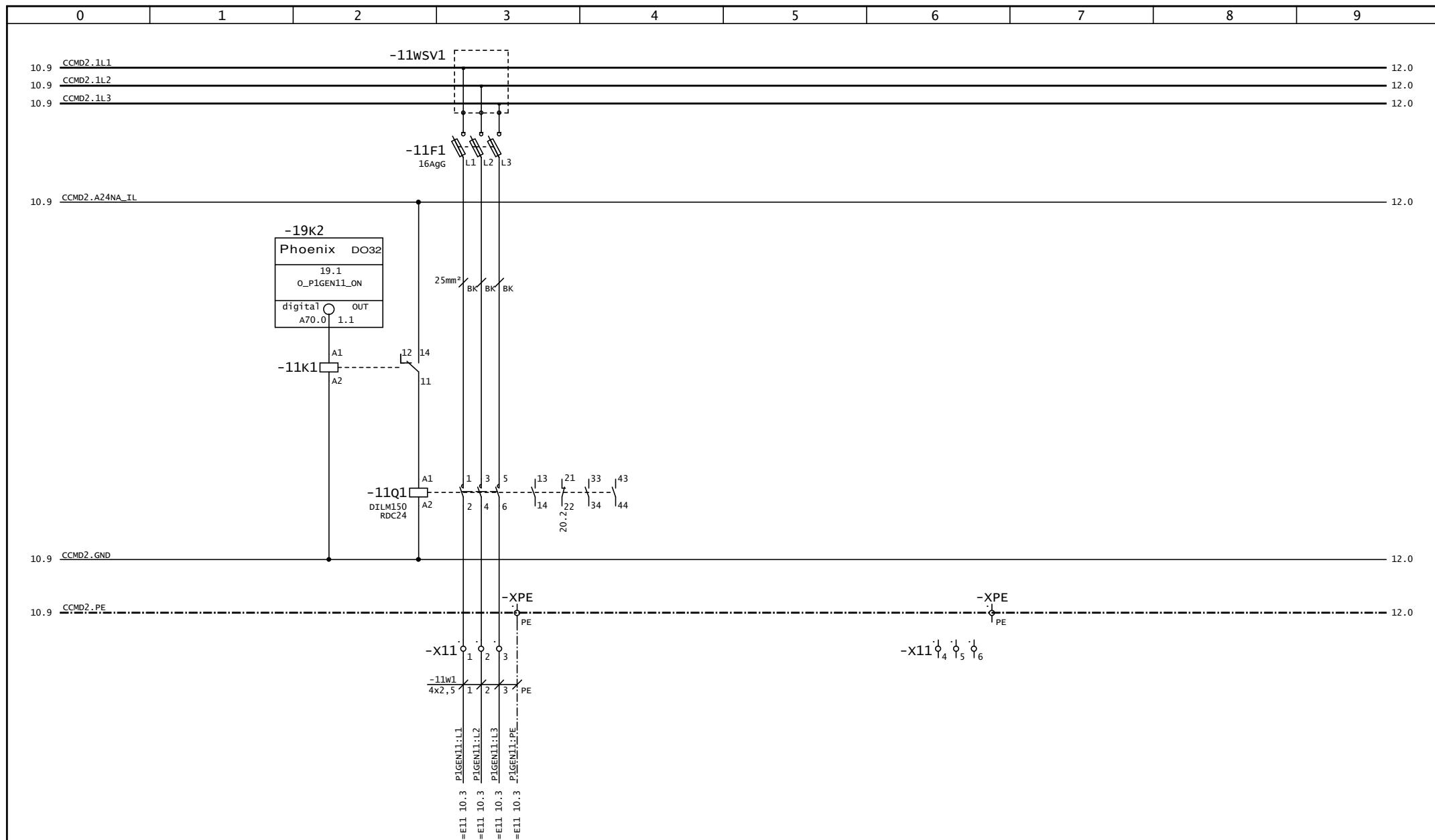
=D12  
+CCMD02  
sheet 7 of 21  
< 6 10 >

layout

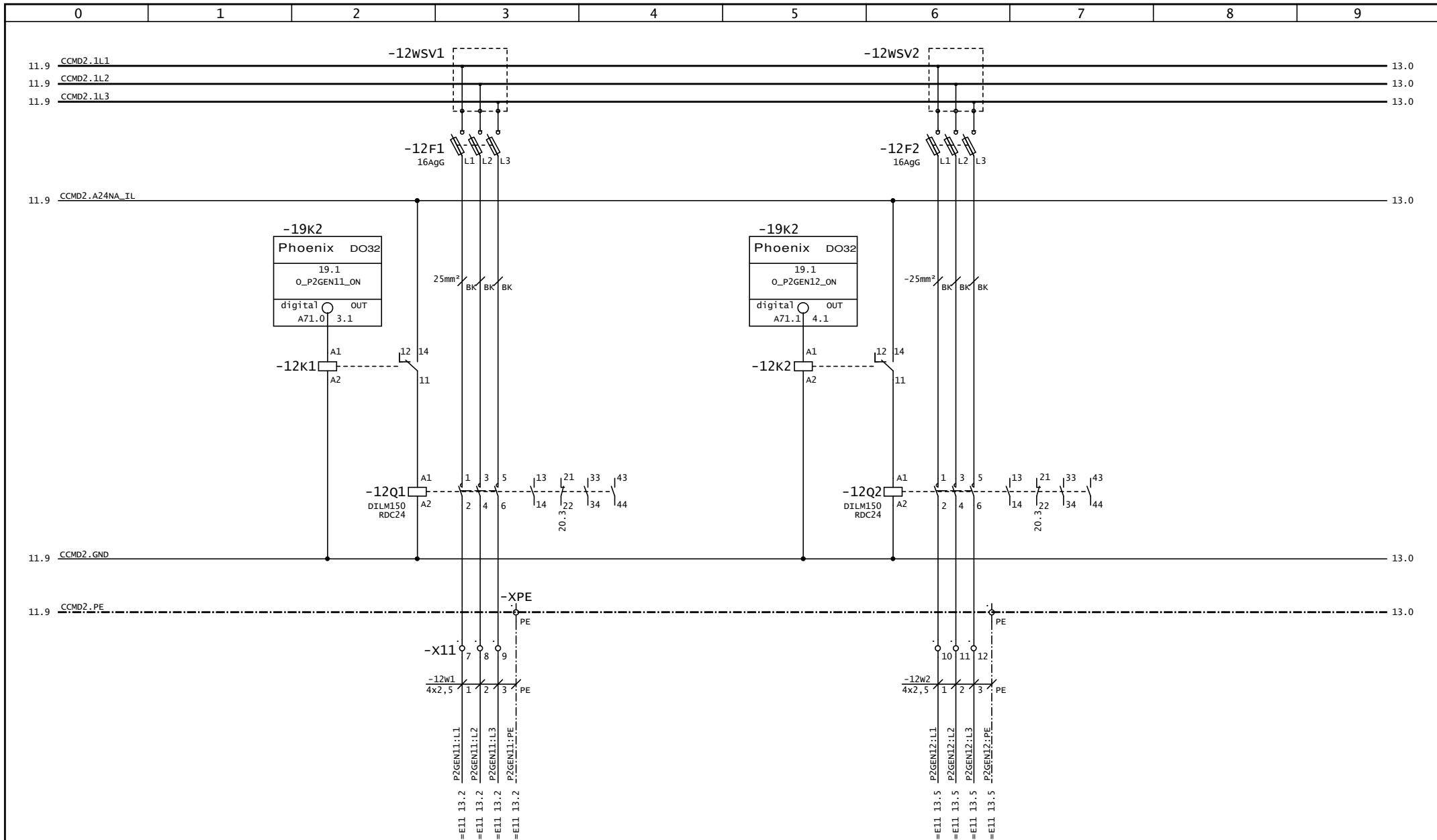
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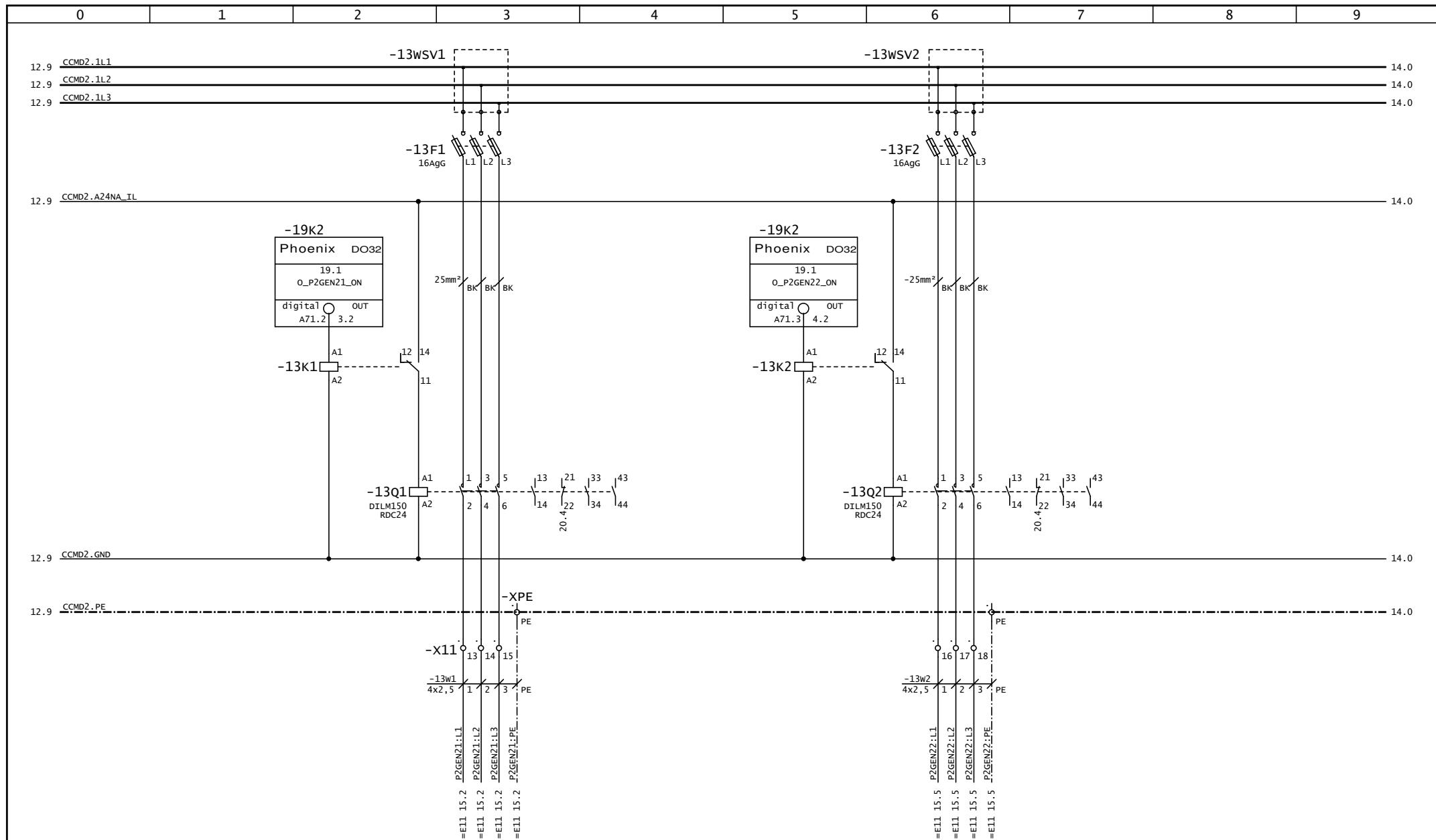
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	input 1	388-810000	P/005388	=D12
				devel.	Henker						+CCMD2
				check							sheet 10 of 21
cond.	alter.	date	name	norm							<7 11>



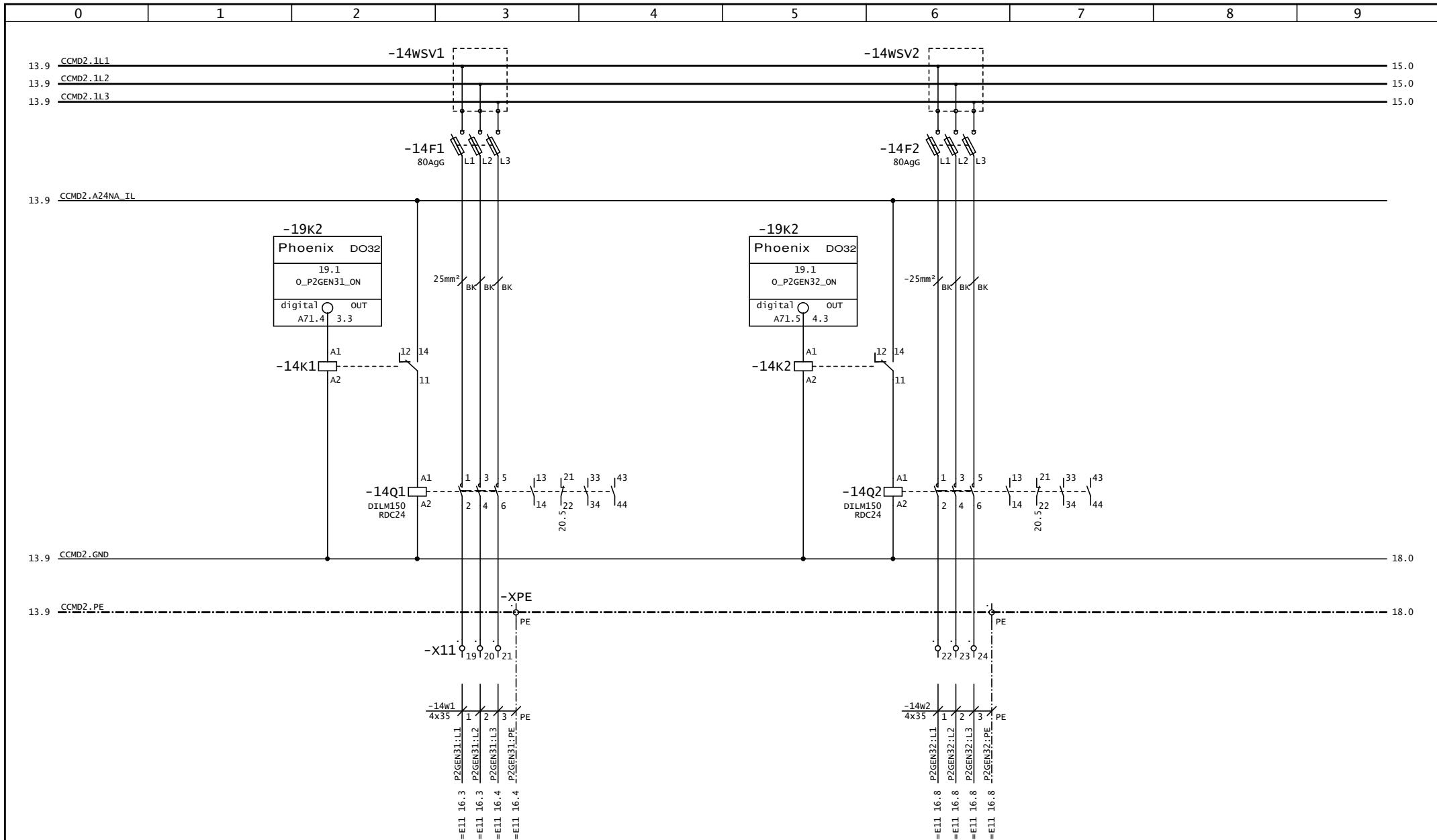
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	power supply P1GEN11	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 11 of 21		
cond.	alter.	date	name	norm					< 10	12 >	



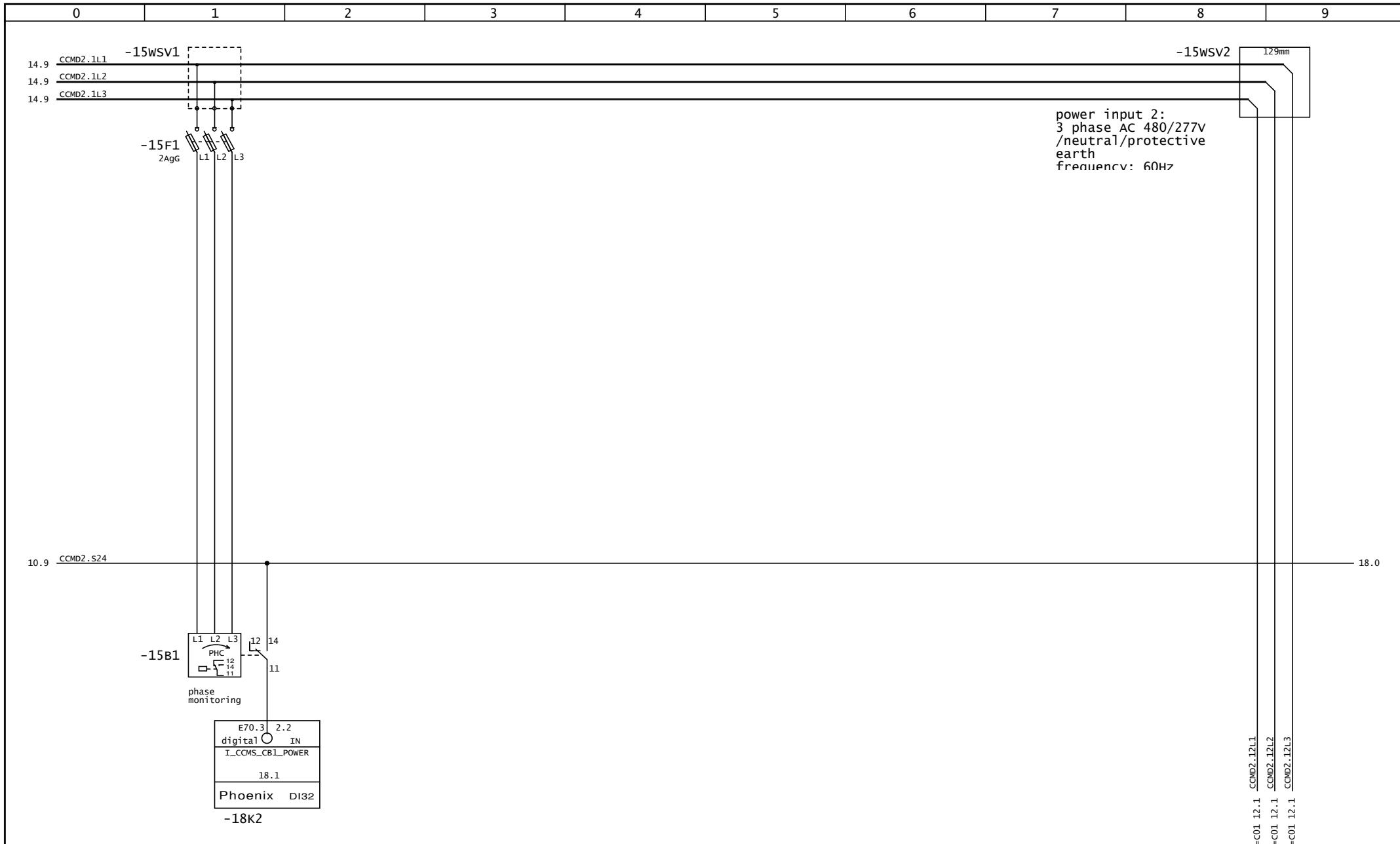
				date	12/05	A1500V-7 iznO_AZ0		generators P2GEN11/12	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 12	of 21	
cond.	alter.	date	name	norm					< 11	13 >	



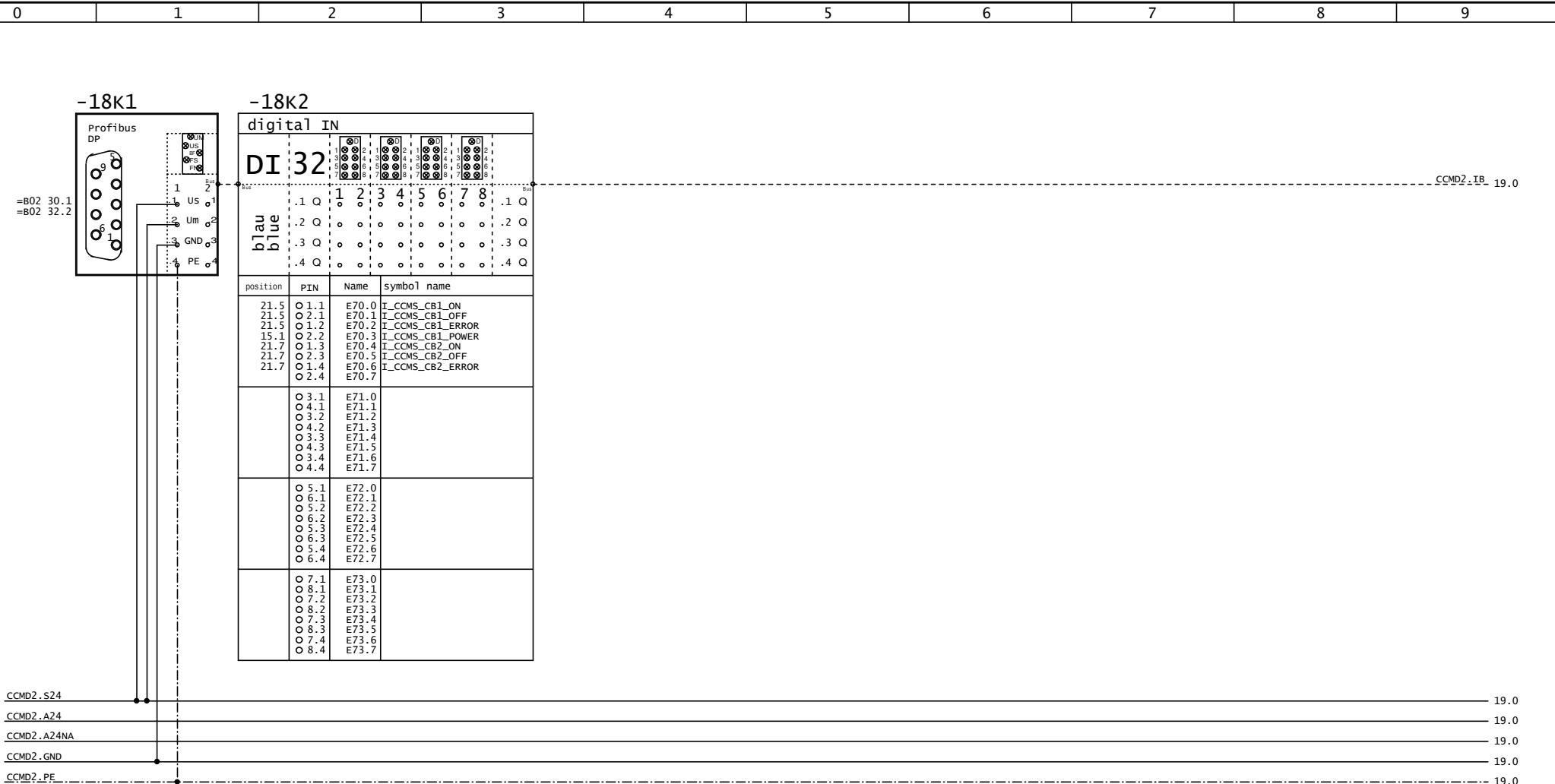
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	generators P2GEN21/22	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check							
cond.	alter.	date	name	norm							
									circuit diagram		
									sheet 13 of 21		
									< 12		14 >



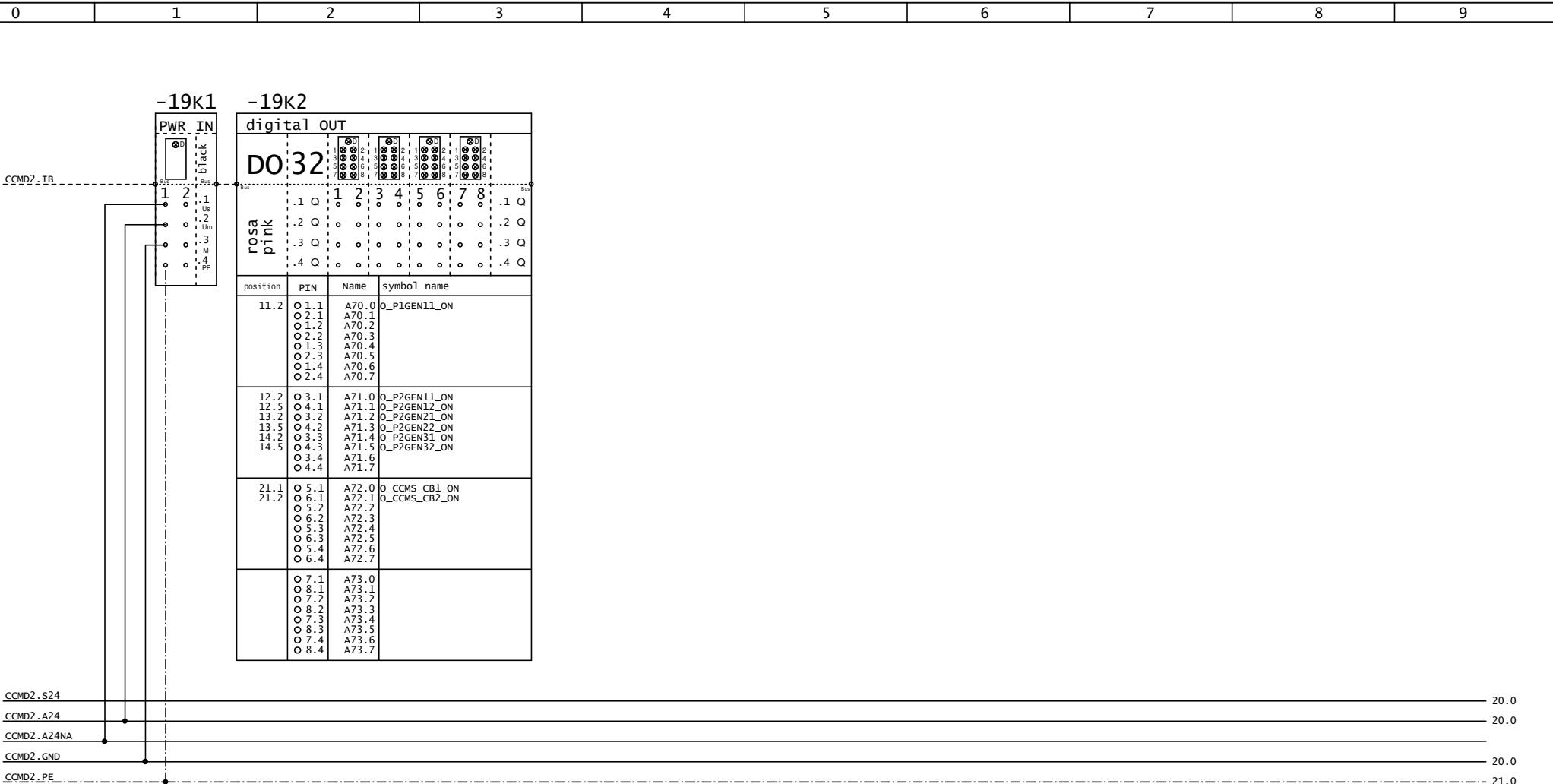
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	generators P2GEN31/32	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 14 of 21		
cond.	alter.	date	name	norm					< 13 15 >		



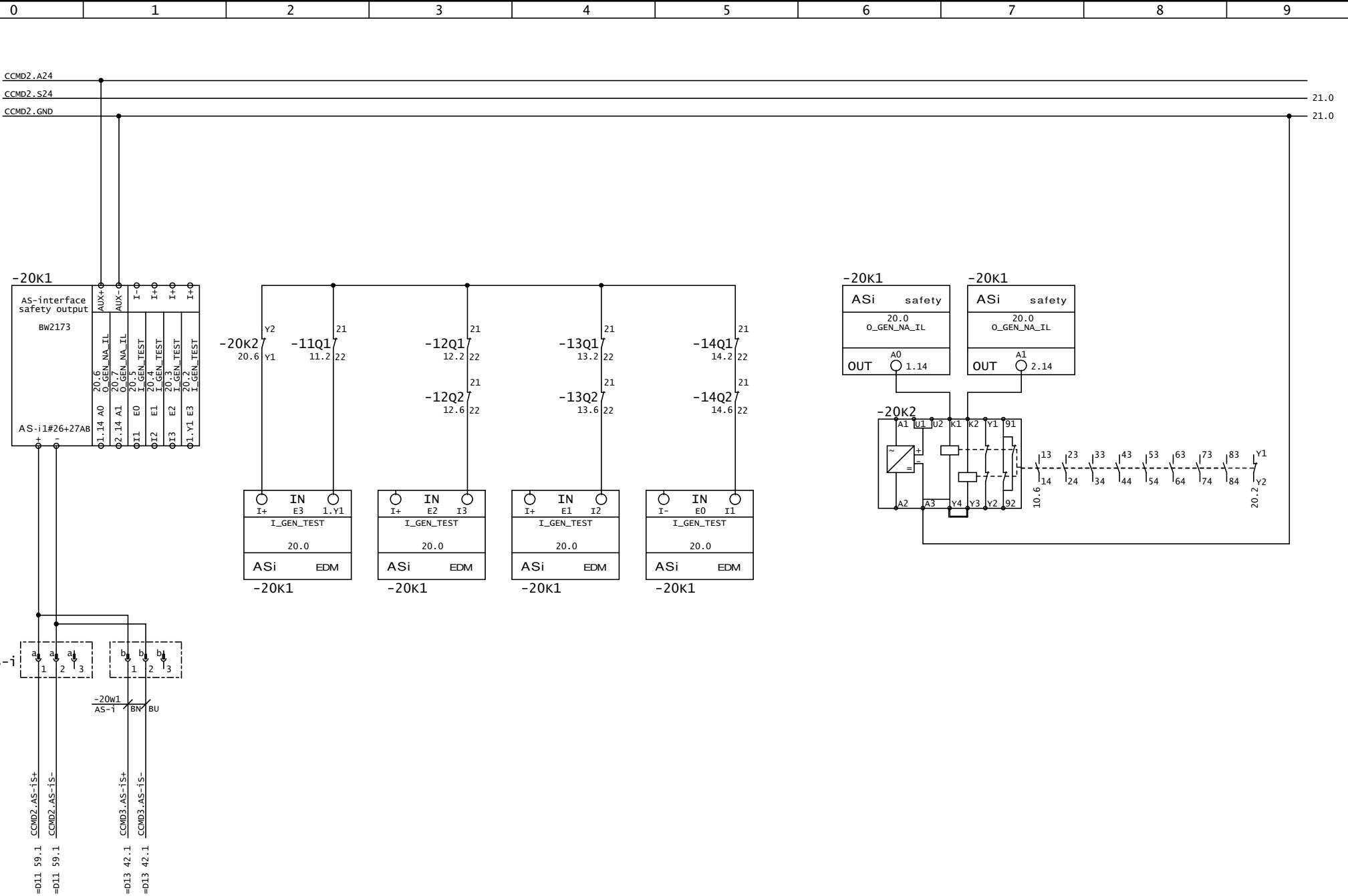
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	input 2	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 15	of 21	
cond.	alter.	date	name	norm					< 14	18 >	



				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	digital inputs	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 18	of 21	
cond.	alter.	date	name	norm					< 15	19 >	

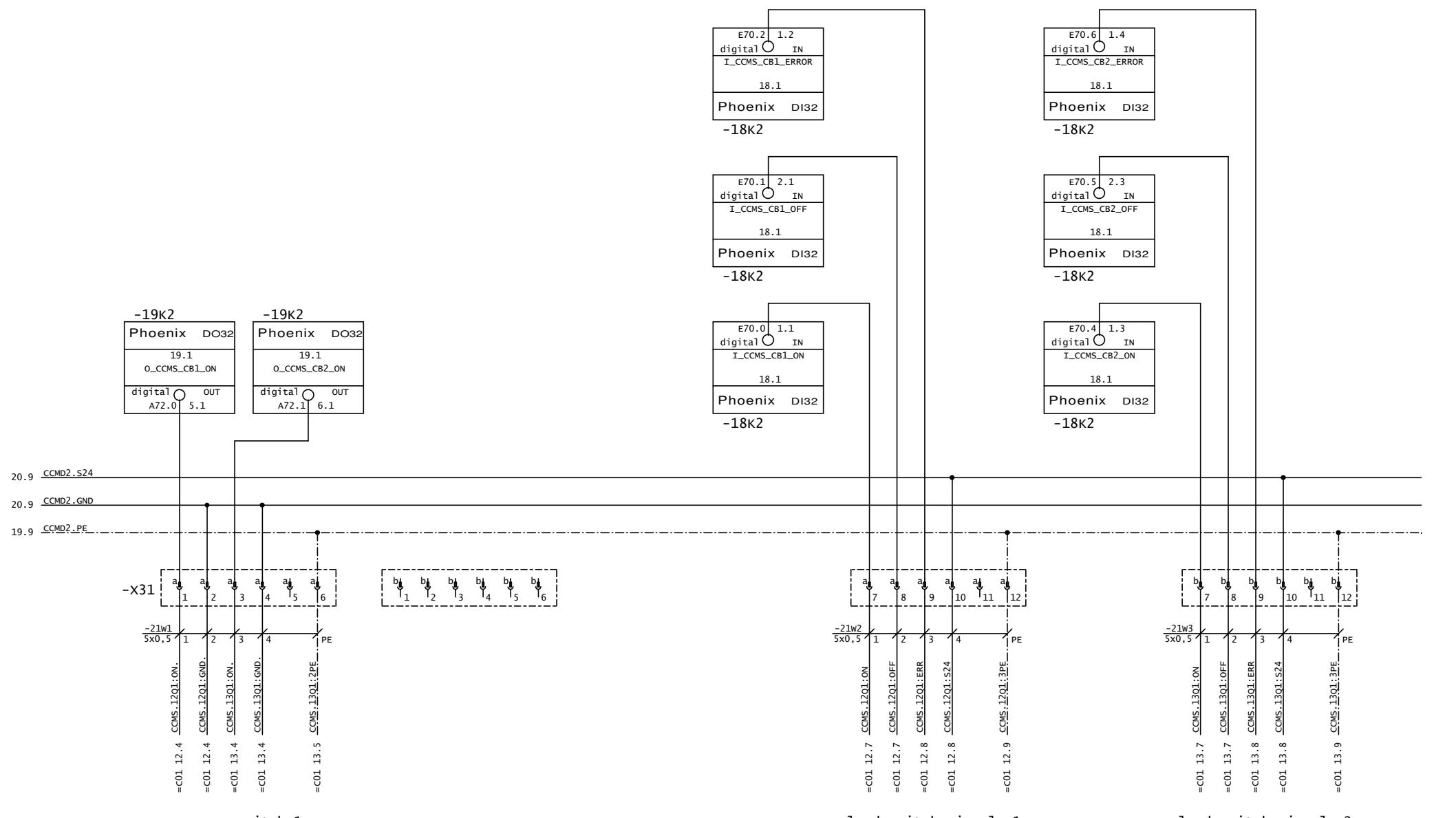


				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	digital outputs	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 19	of 21	
cond.	alter.	date	name	norm					< 18	20 >	

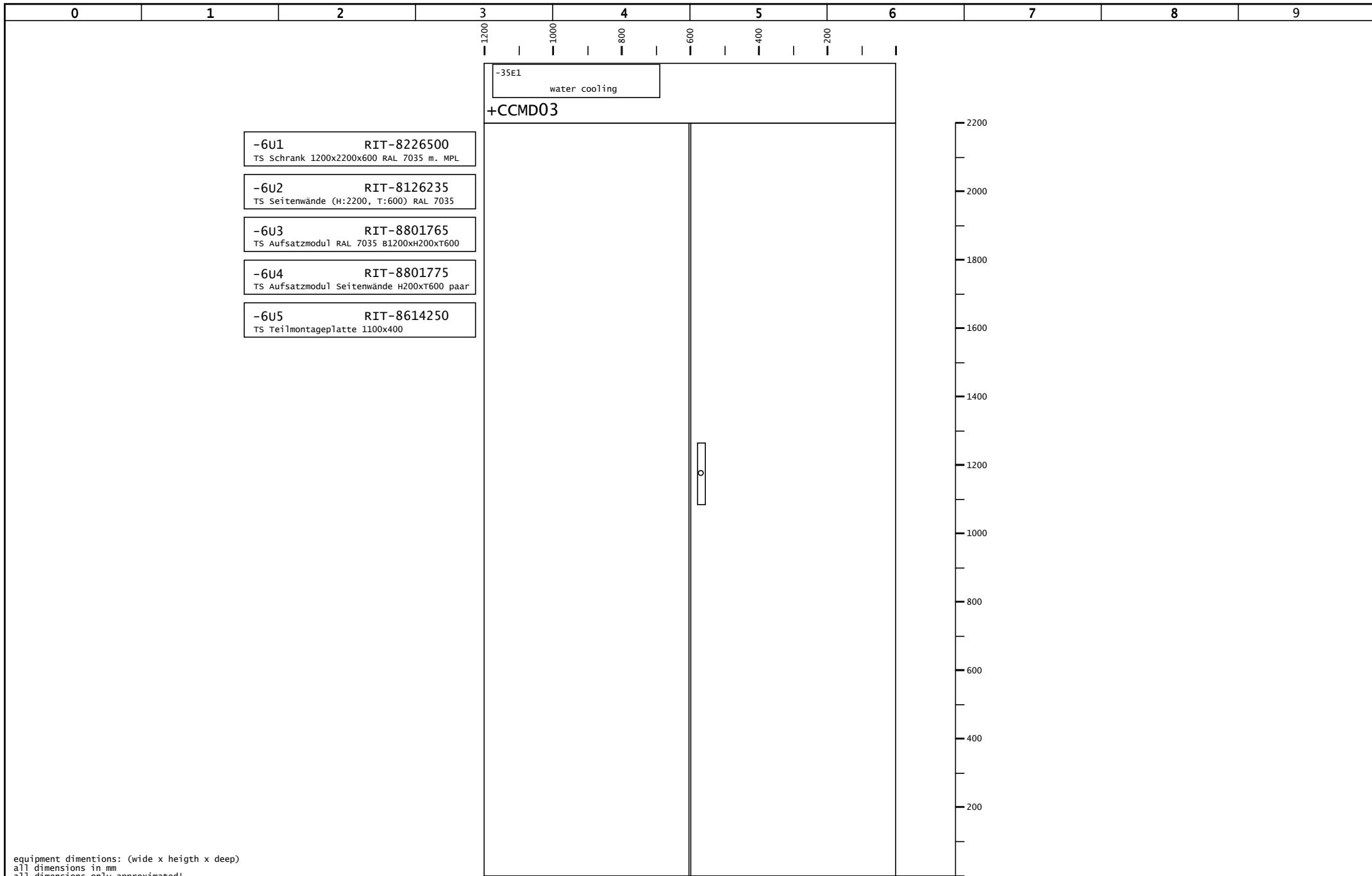


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	interlock	388-810000	P/005388	=D12
				devel.	Henker						+CCMD02
				check							sheet 20 of 21
cond.	alter.	date	name	norm					circuit diagram		< 19 21 >

0	1	2	3	4	5	6	7	8	9
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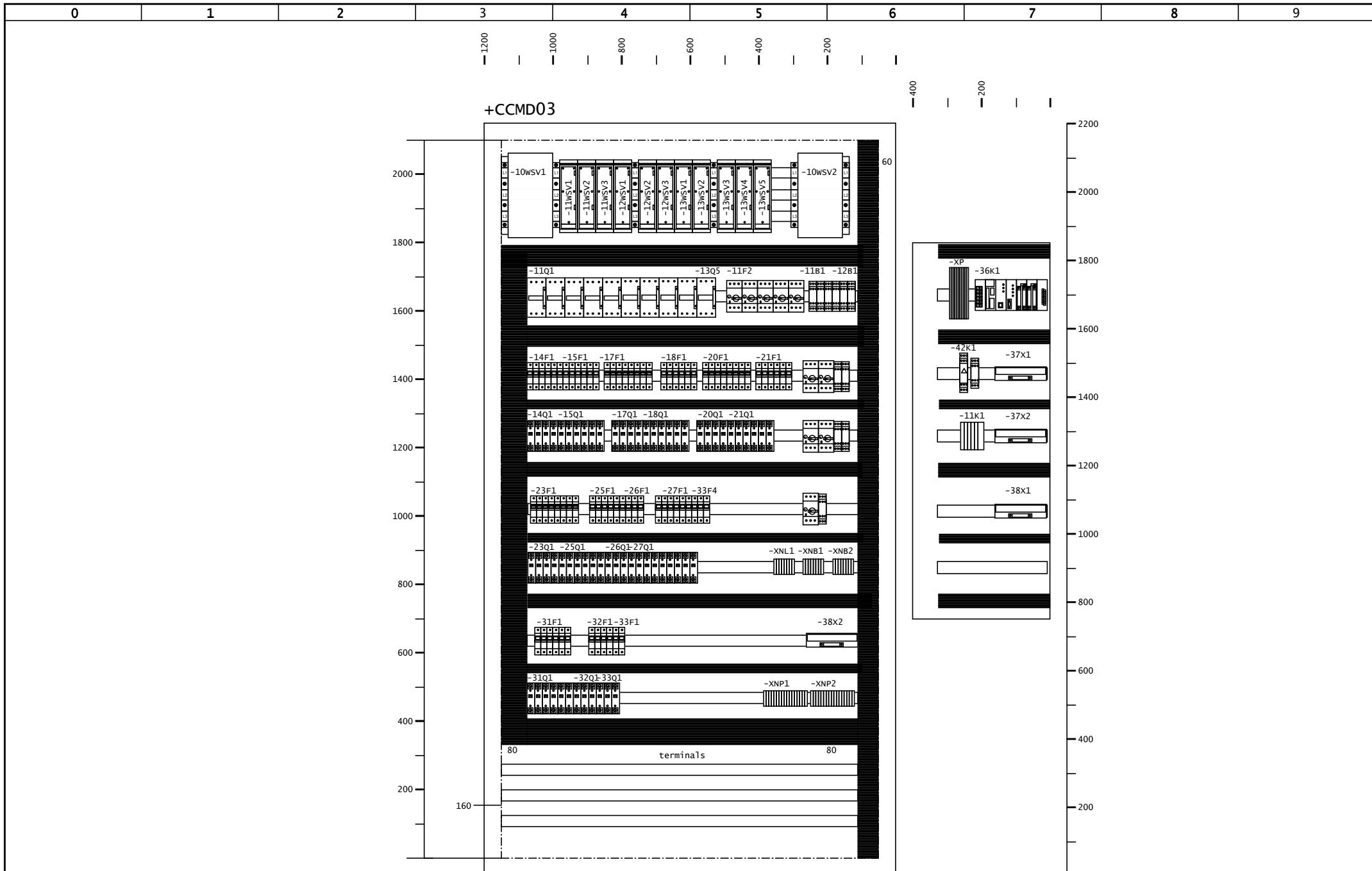


				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	power switch 1, 2 signals	388-810000	P/005388	=D12
				devel.	Henker				+CCMD02		
				check					sheet 21 of 21		
cond.	alter.	date	name	norm				circuit diagram	< 20	=D13/6 >	

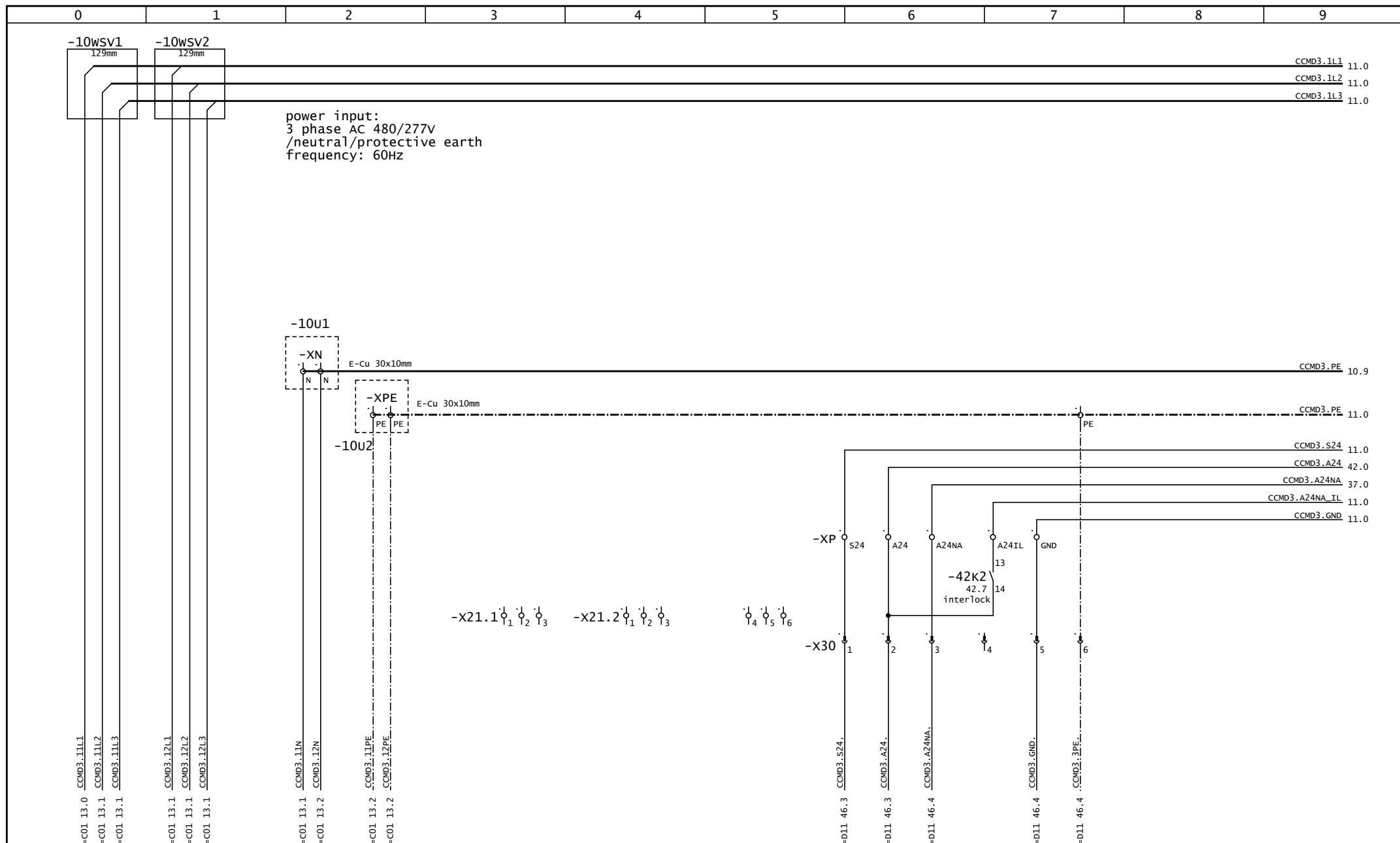


equipment dimentions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	layout outside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check							
cond.	alter.	date	name	norm				layout			sheet 6 of 42 <=012/21 7 >



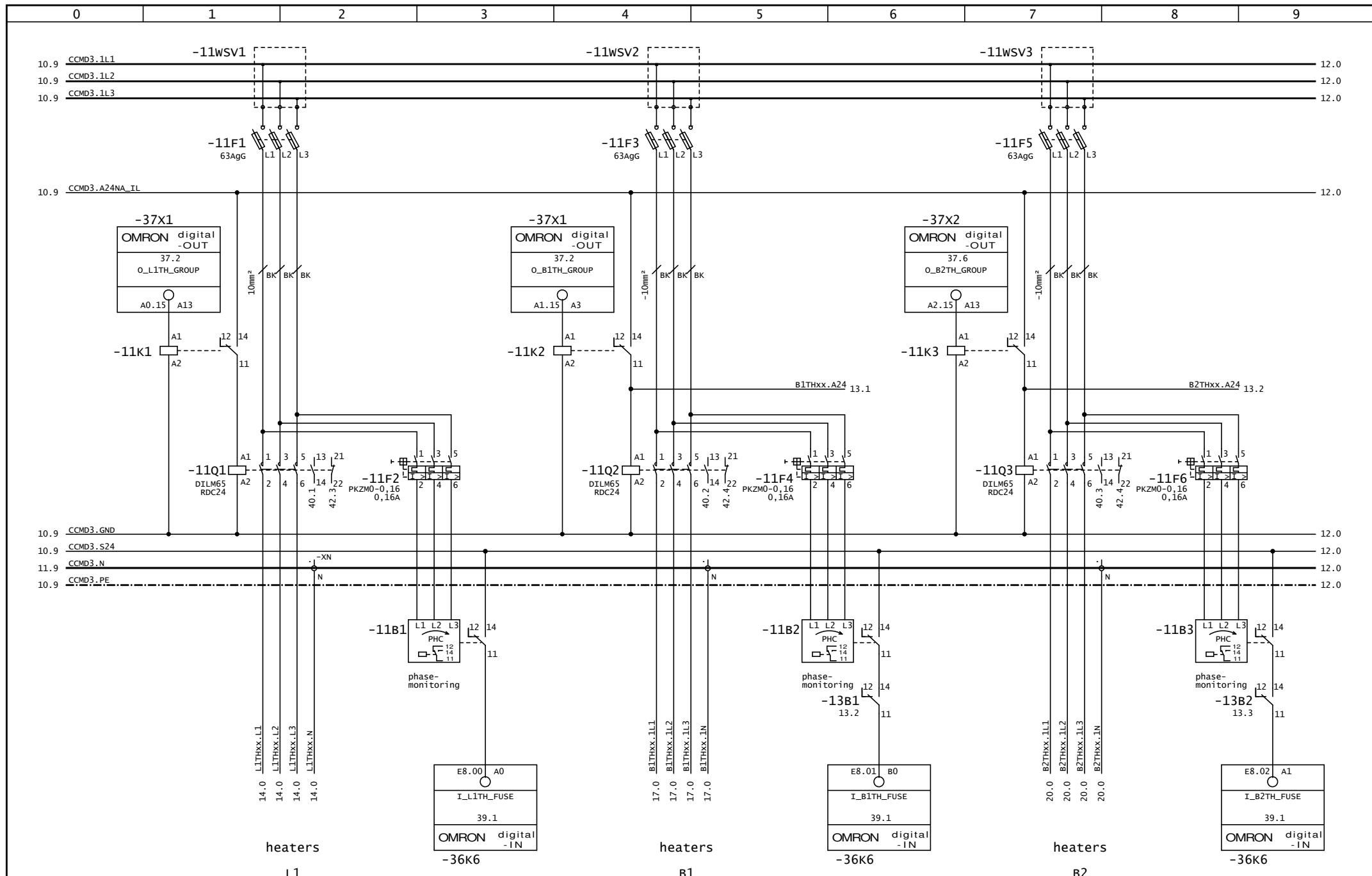
				date	12/05	A1500V-7 iznO_AZ0		mounting plate	388-810000	P/005388	=D13
				devel.	Henker						+CCMD03
				check							sheet 7 of 42
cond.	alter.	date	name	norm					layout		< 6 10 >



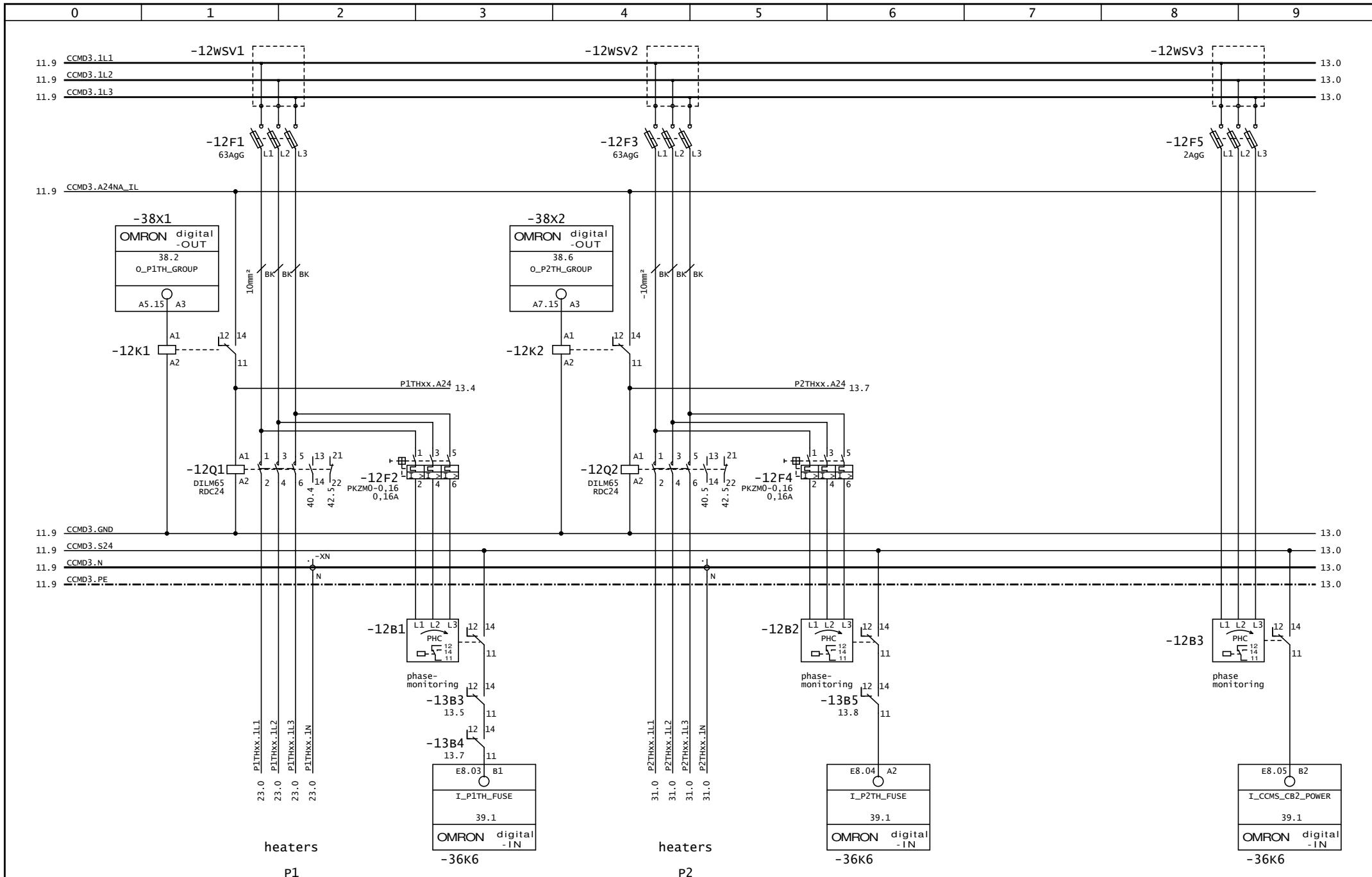
## Schaltschrankbeleuchtung

(optional)

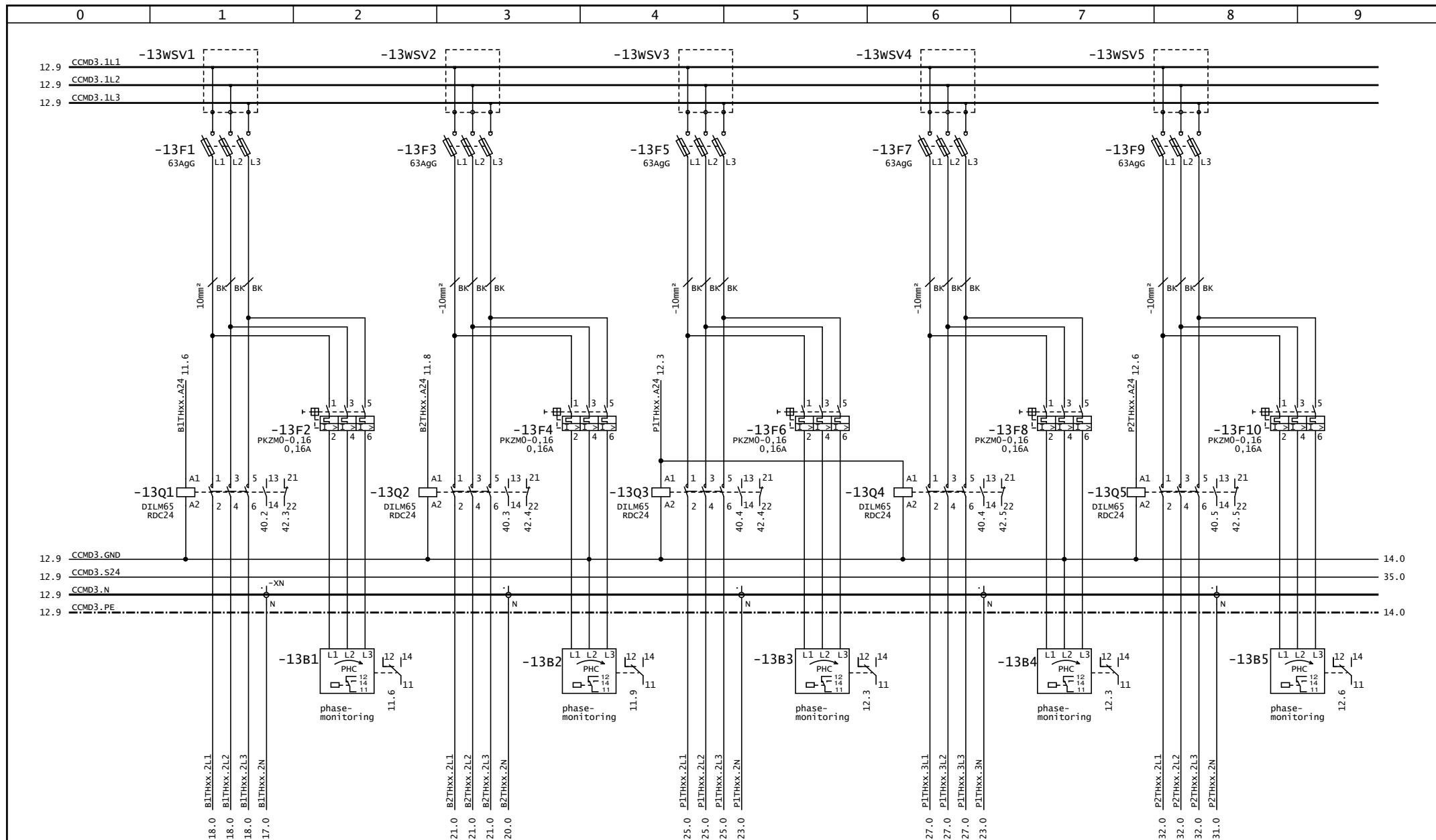
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	feed-in	388-810000	P/005388	=D13	
				devel.	Henker				+CCMD03		sheet 10	of 42
				check							< 7	> 11 >
cond.	alter.	date	name	norm					circuit diagram			



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heater power	388-810000	P/005388	=D13
				devel.	Henker						+CCMD03
				check							sheet 11 of 42
cond.	alter.	date	name	norm				circuit diagram			< 10 12 >



				date	12/05	A1500V-7 iznO_AZ0	 LEIBOLD OPTICS	heater power P1, P2	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 12	of 42	
cond.	alter.	date	name	norm				circuit diagram	< 11	13 >	



## heaters

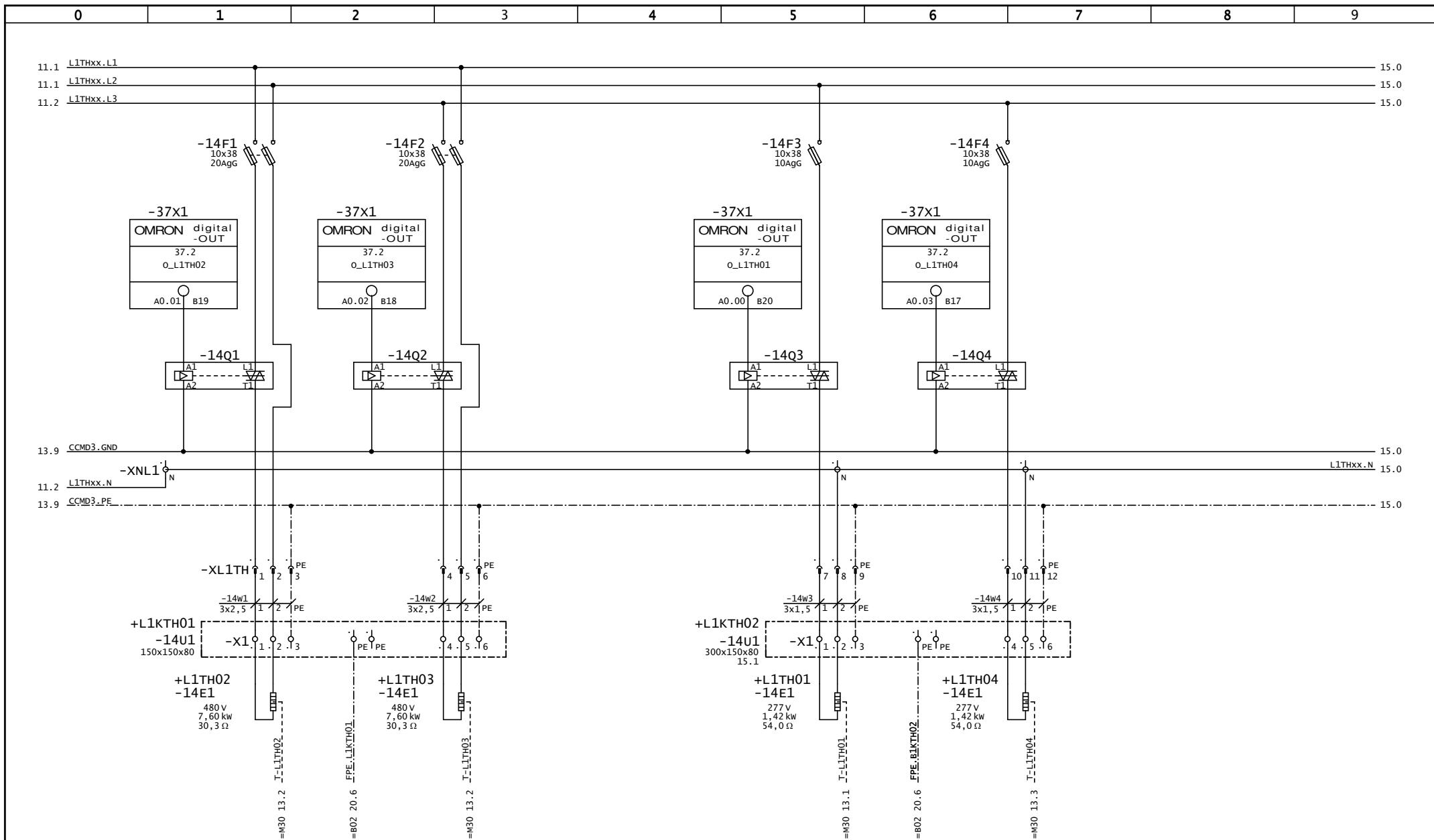
## heaters

## heaters

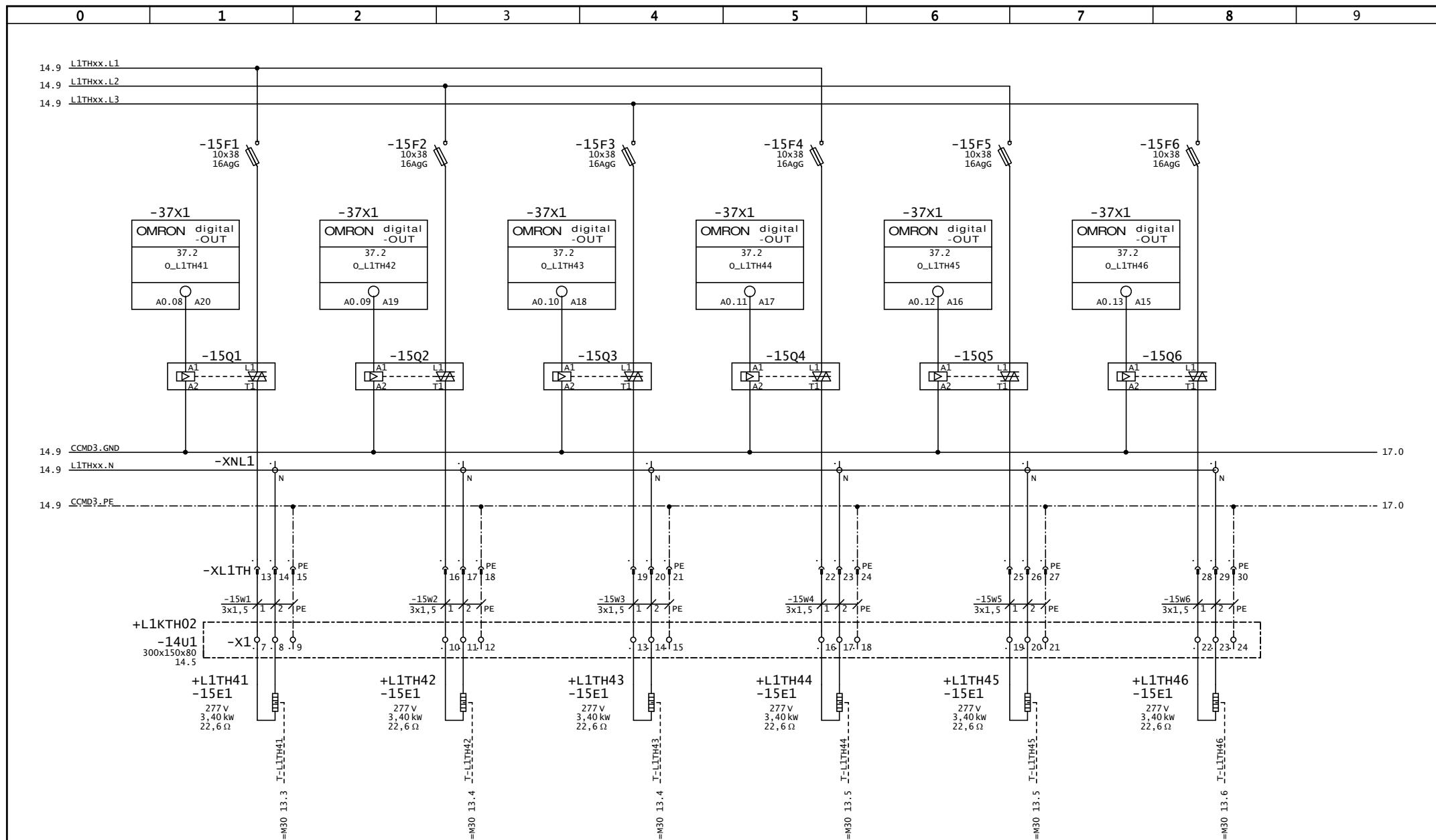
## heaters

## heaters

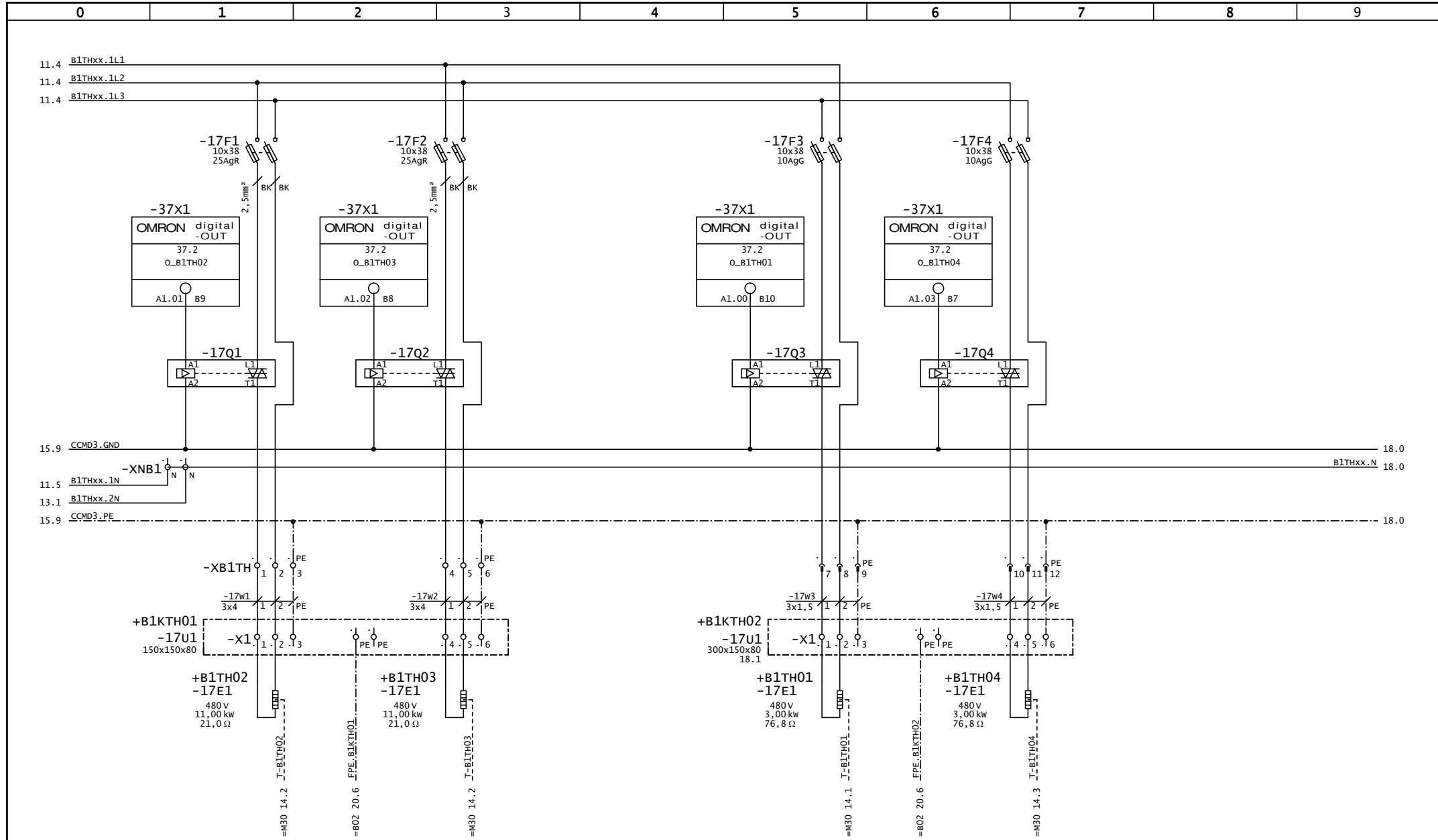
B1				B2	P1	P1	P2
		date	12/05				
		devel.	Henker				
		check					
cond.	alter.	date	name	norm			
				A1500V-7 izn0_AZO	 LEYBOLD OPTICS	heater power B1, B2, P1, P2	388-810000 P/005388 sheet 13 of 42 <12 14 >



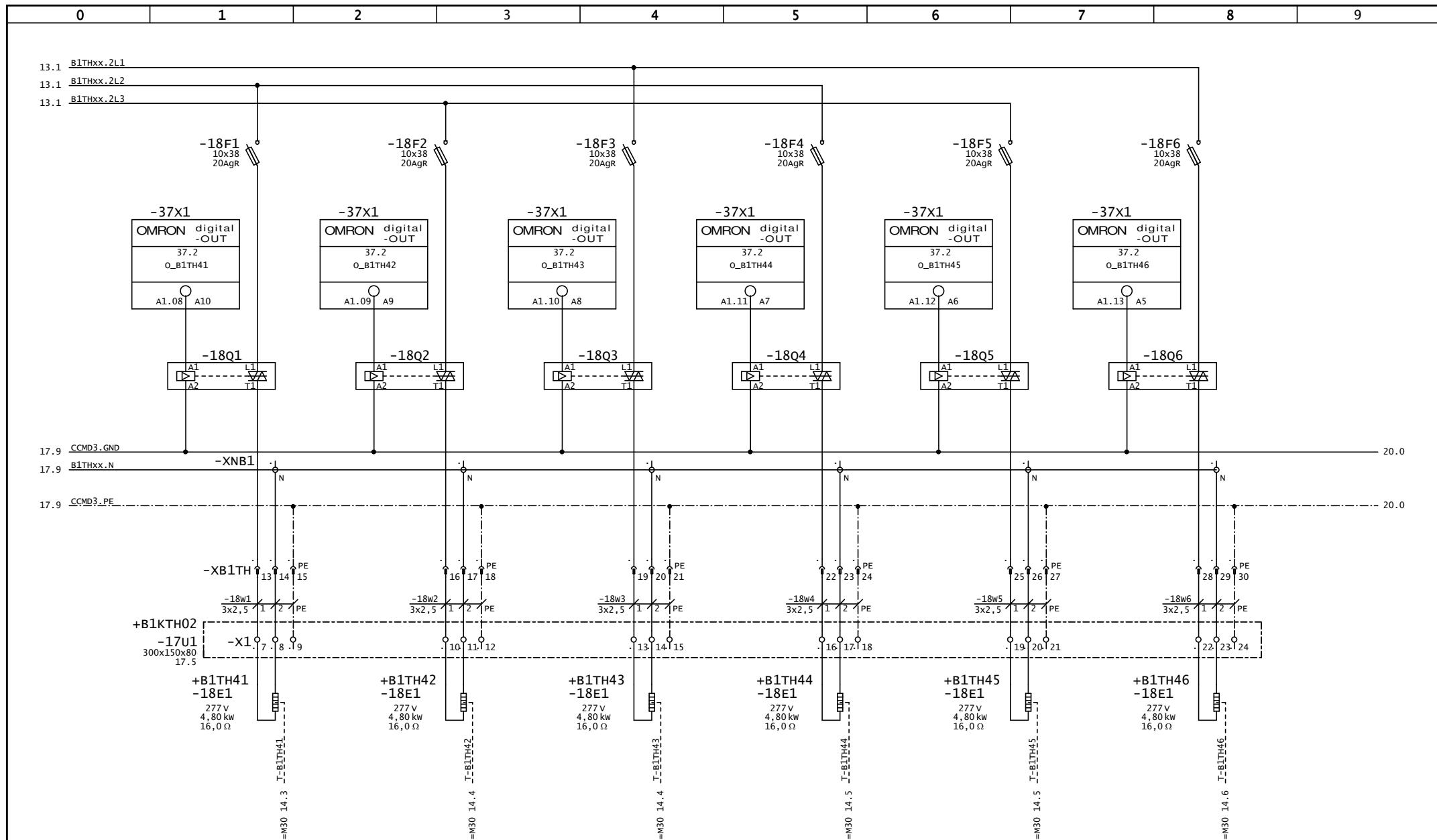
date	12/05	devel.	Henker	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	heaters L1 front side	388-810000	P/005388	=D13
check									+CCMD03
cond.	alter.	date	name						sheet 14 of 42
			norm				circuit diagram		< 13 15 >



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters L1 backside	388-810000	P/005388	=D13	
				devel.	Henker				+CCMD03		sheet 15	of 42
				check							< 14	> 17 >
cond.	alter.	date	name	norm					circuit diagram			

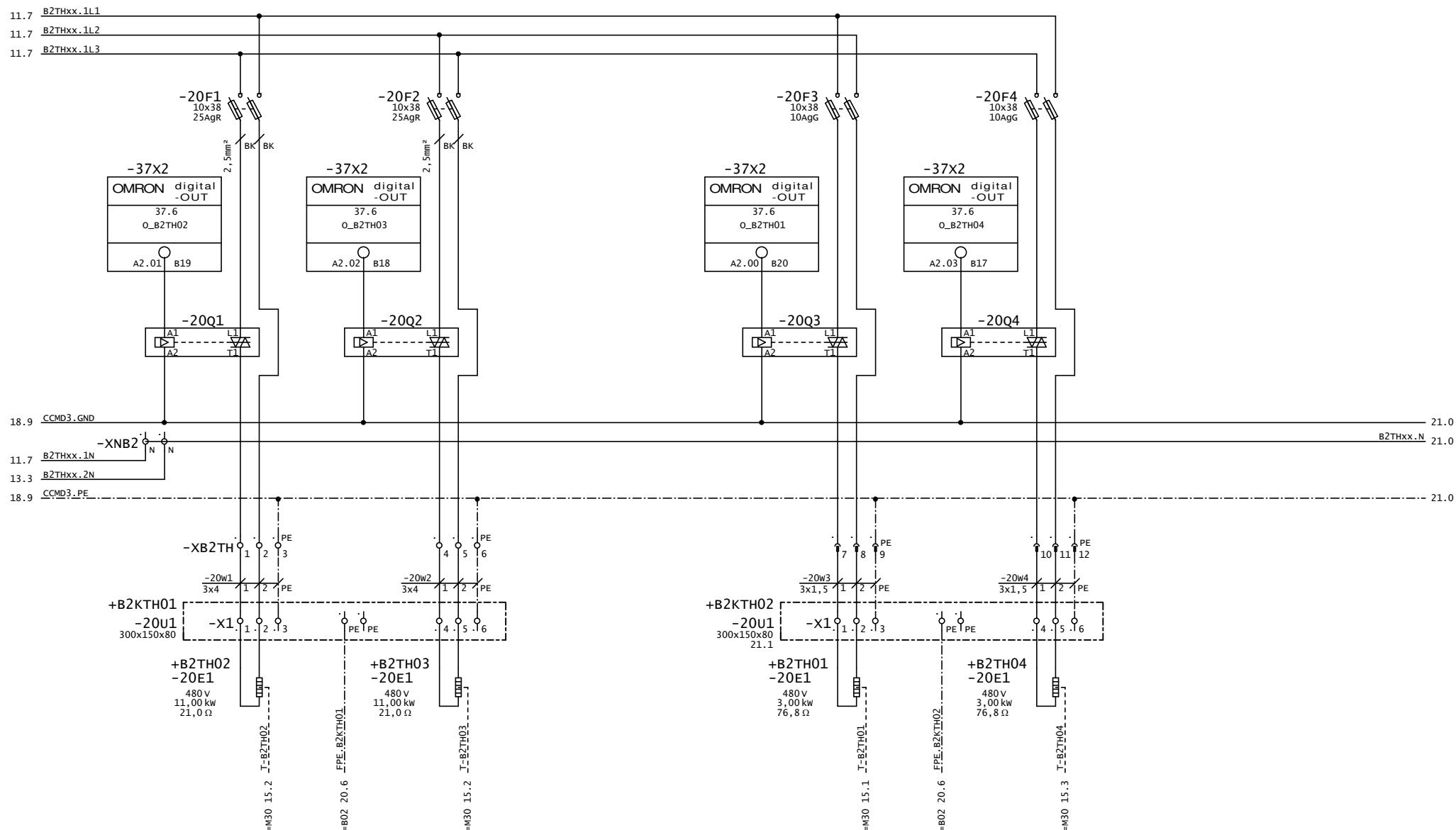


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters B1 front side	388-810000	P/005388	=D13	
				devel.	Henker				+CCMD03			
				check							sheet 17	of 42
cond.	alter.	date	name	norm					circuit diagram		< 15	18 >

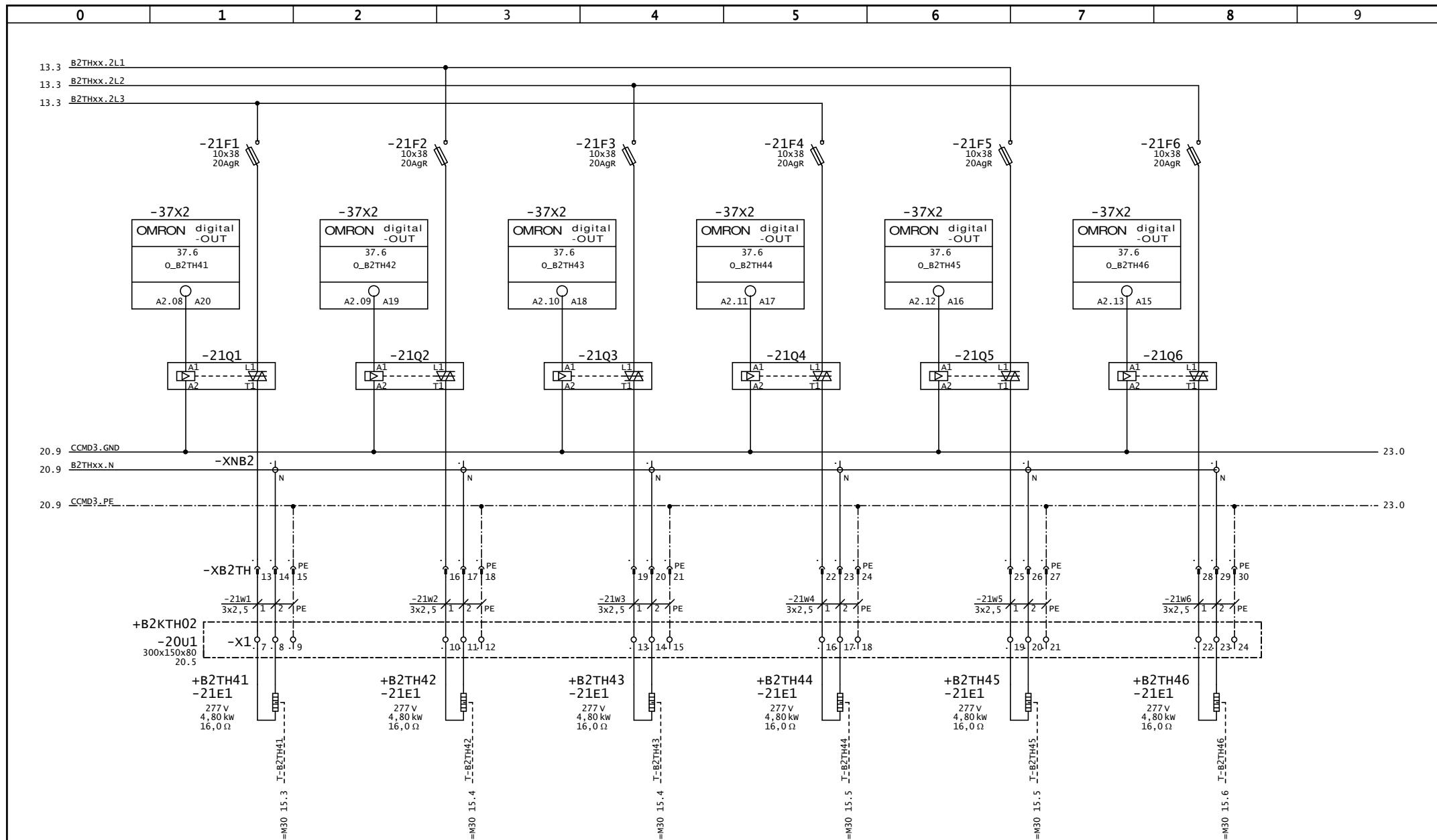


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters B1 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check						sheet 18	of 42
cond.	alter.	date	name	norm						< 17	20 >

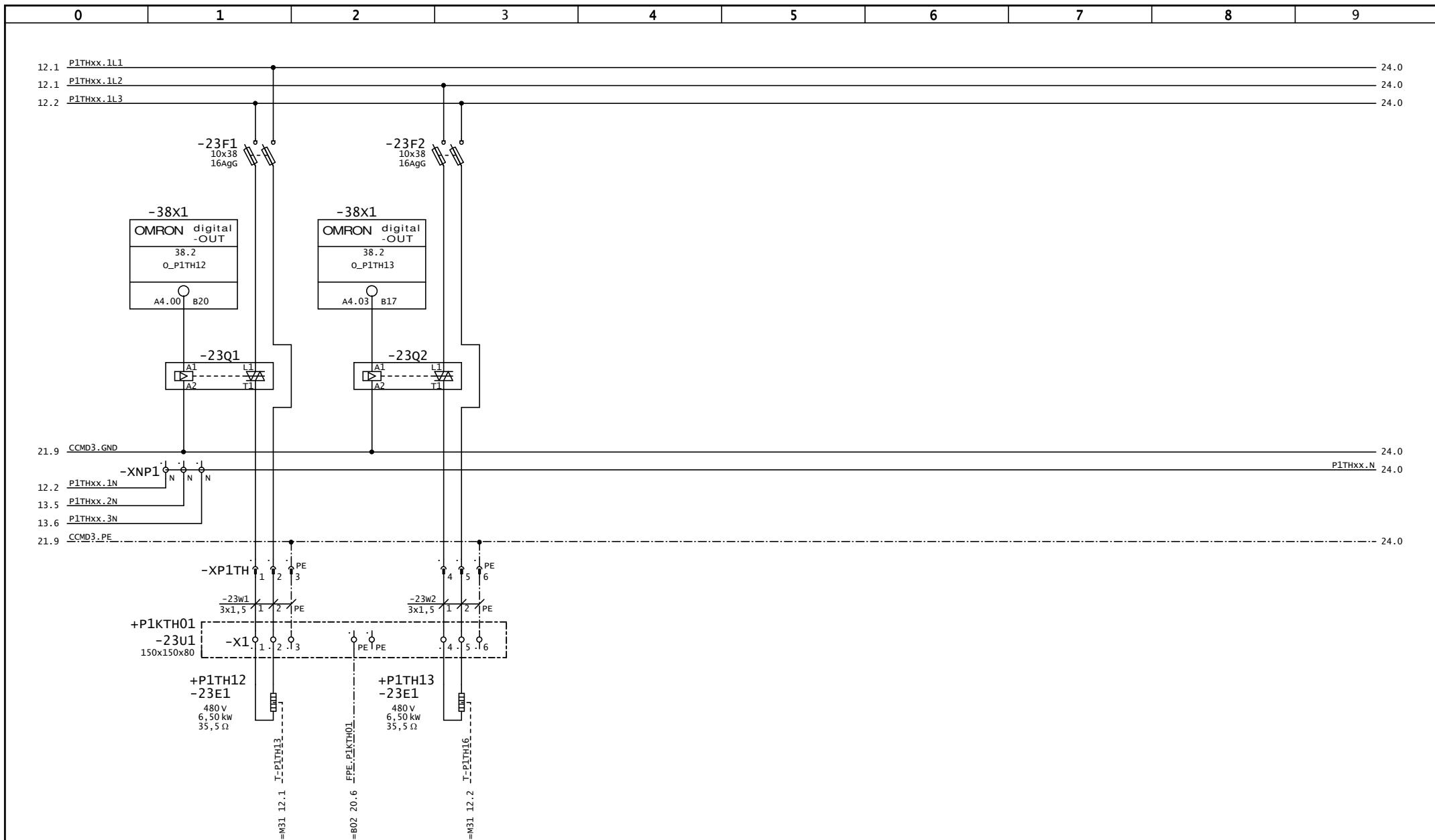
0	1	2	3	4	5	6	7	8	9
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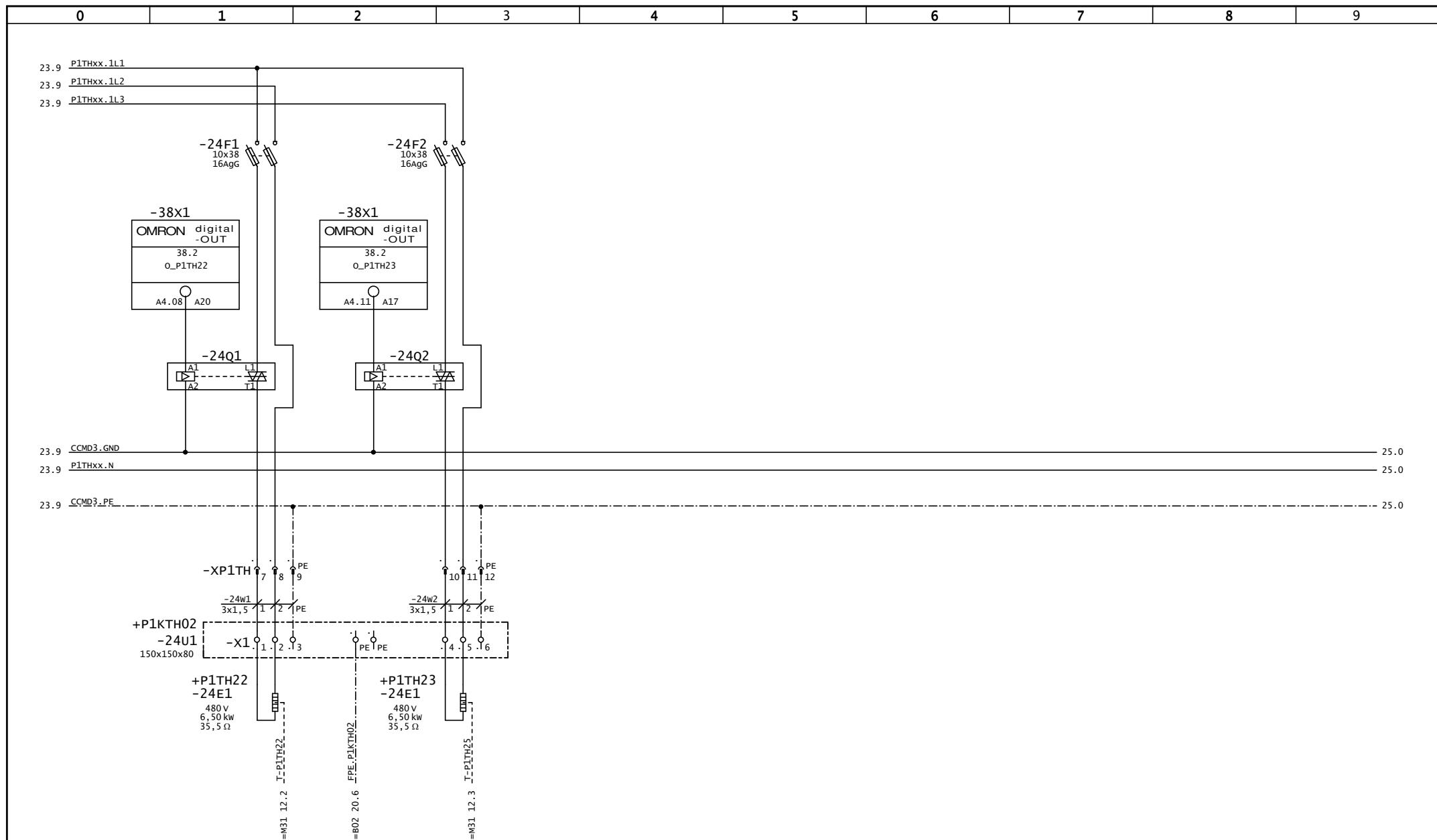
				date	12/05	A1500V-7 iznO_AZ0		heaters B2 front side	388-810000	P/005388	=D13
				devel.	Henker						+CCMD03
				check							sheet 20 of 42
cond.	alter.	date	name	norm					circuit diagram		< 18 21 >



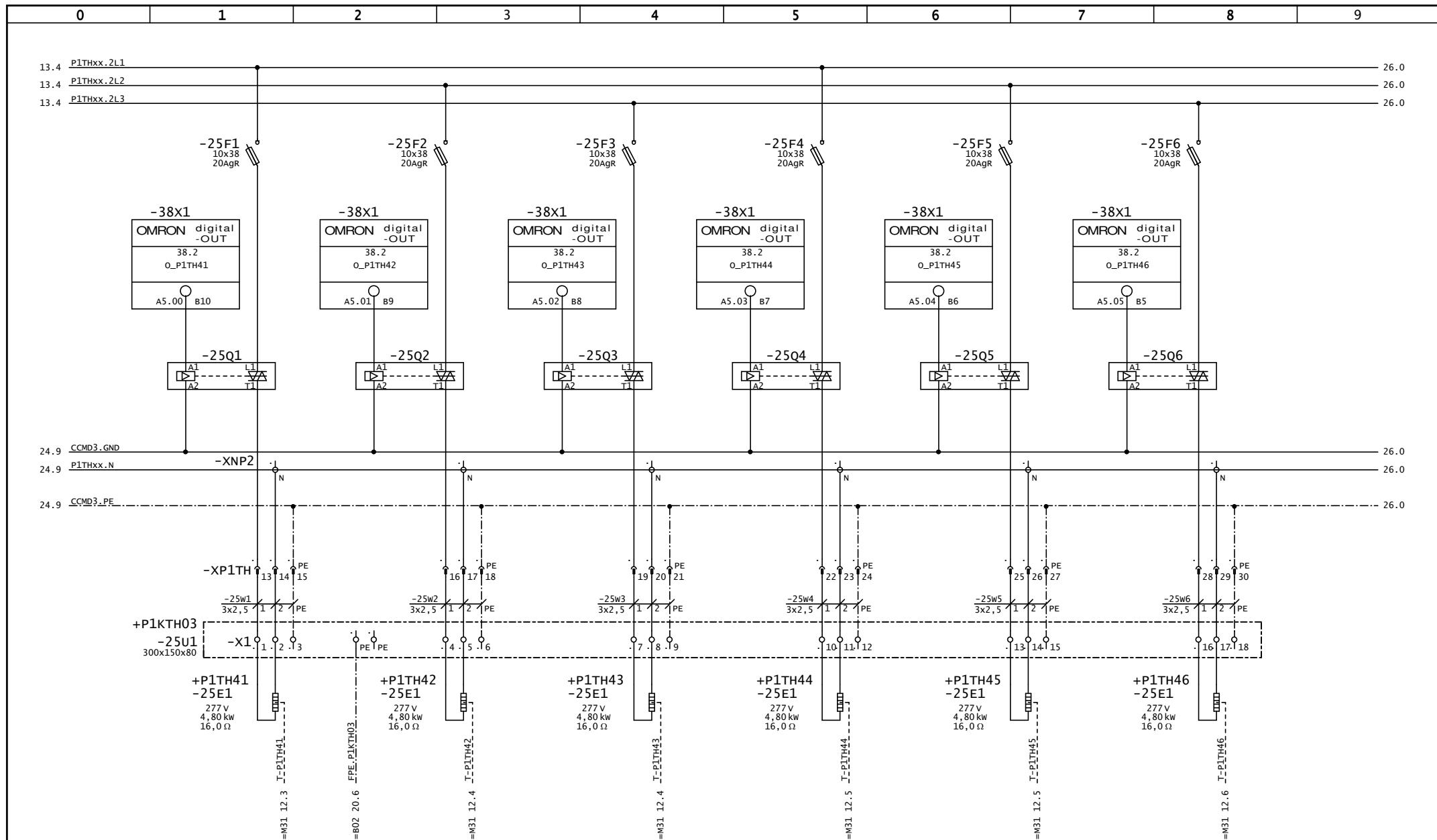
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters B2 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 21	of 42	
cond.	alter.	date	name	norm					< 20		> 23 >

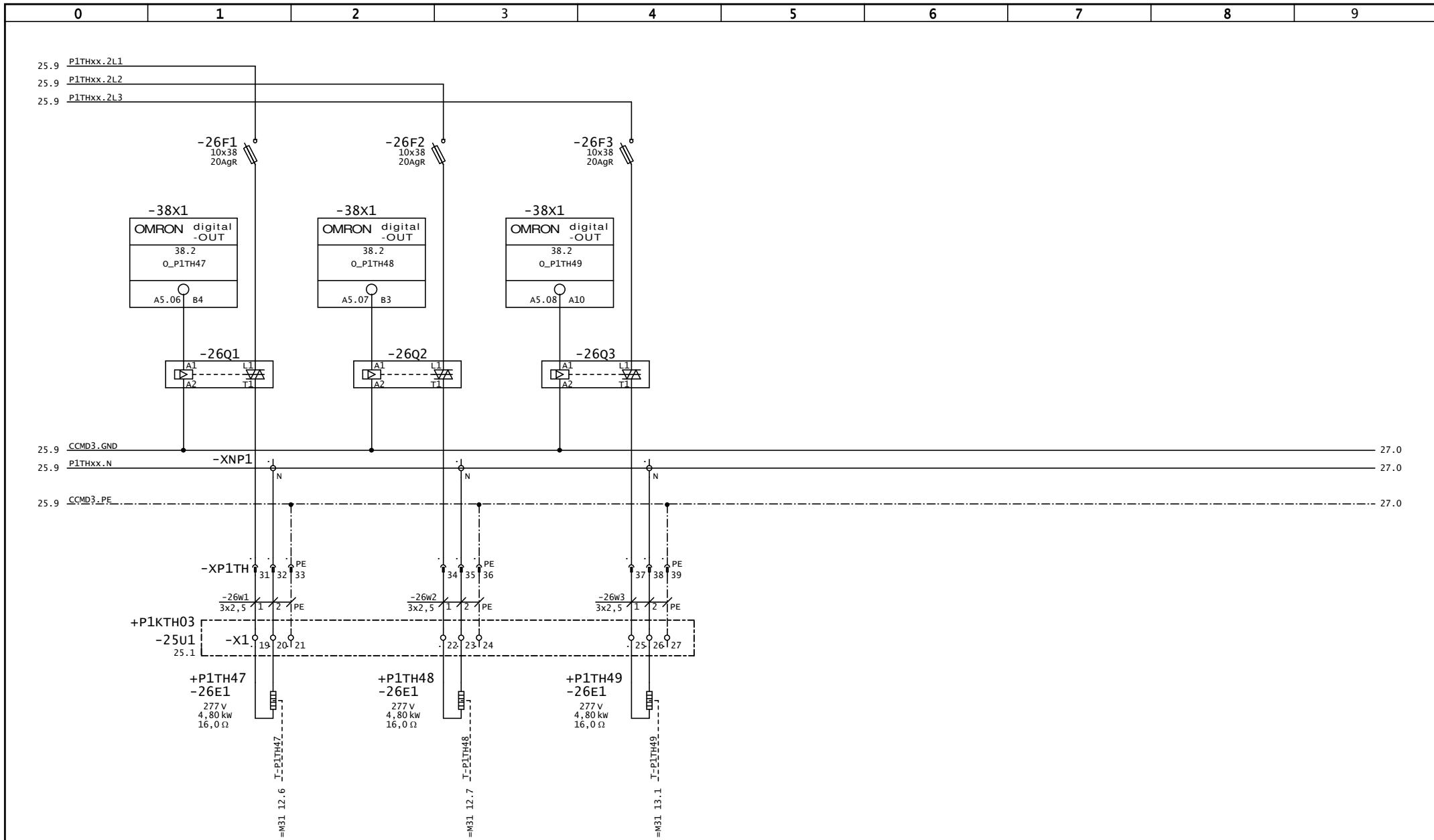


date	12/05	devel.	Henker	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	heaters P1 front side	388-810000	P/005388	D13
check		+CCMD03							
cond.	alter.	date	name				sheet 23	of 42	
cond.	alter.	date	name	norm			< 21	24 >	

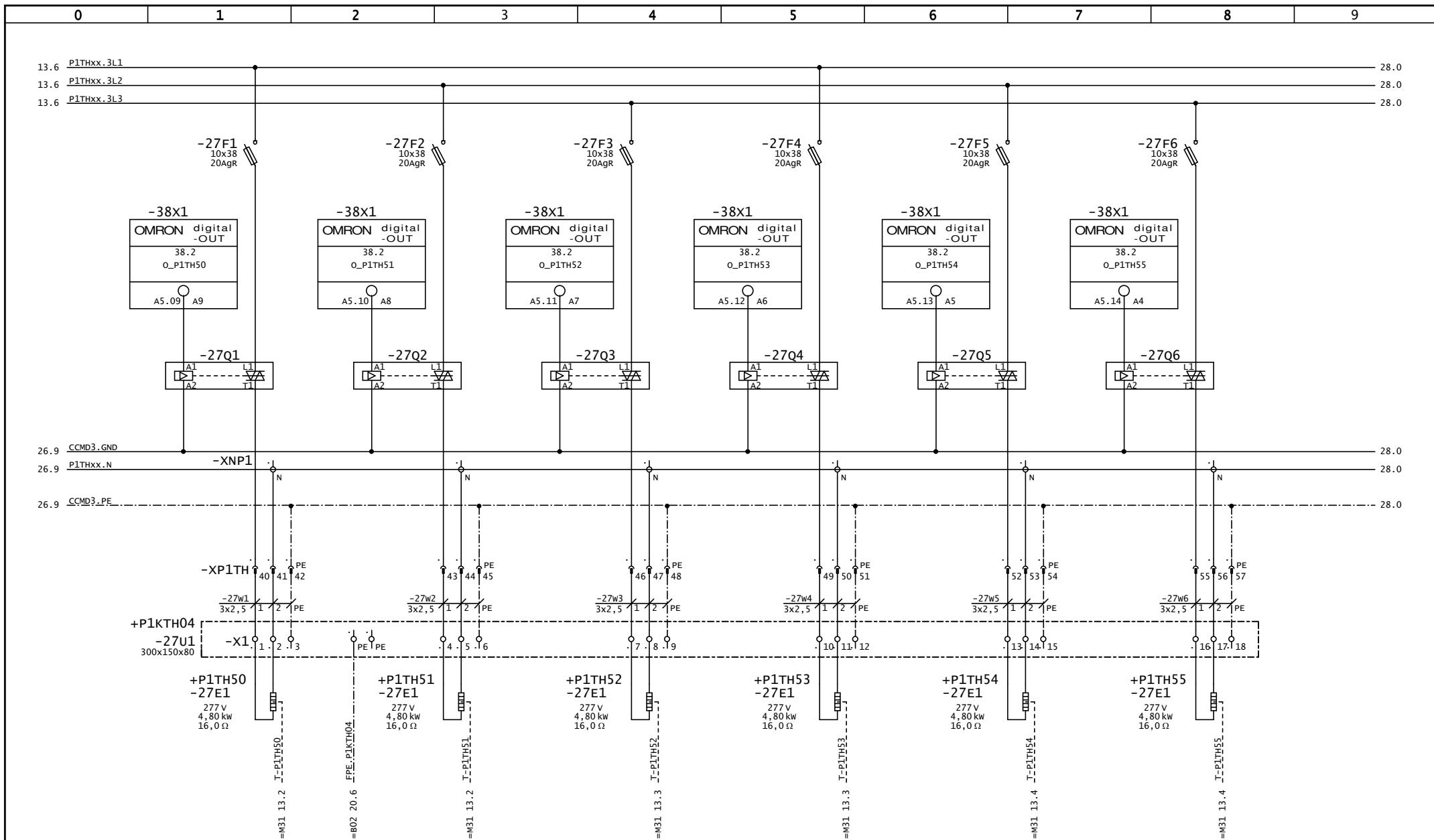


				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	heaters P1 front side	388-810000	P/005388	=D13
				devel.	Henker				+CCMDO3		
				check					sheet 24	of 42	
cond.	alter.	date	name	norm					< 23	25 >	

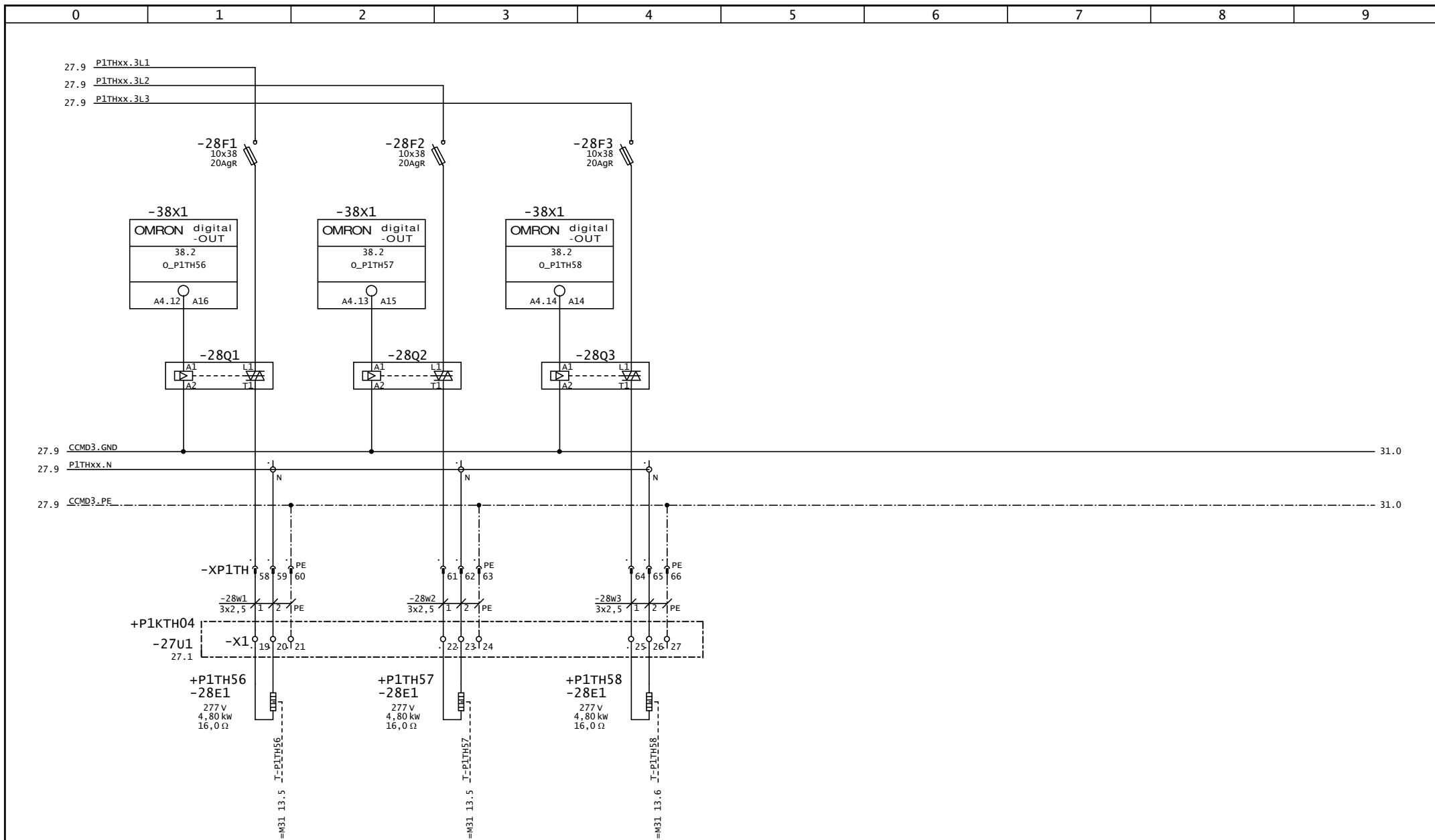




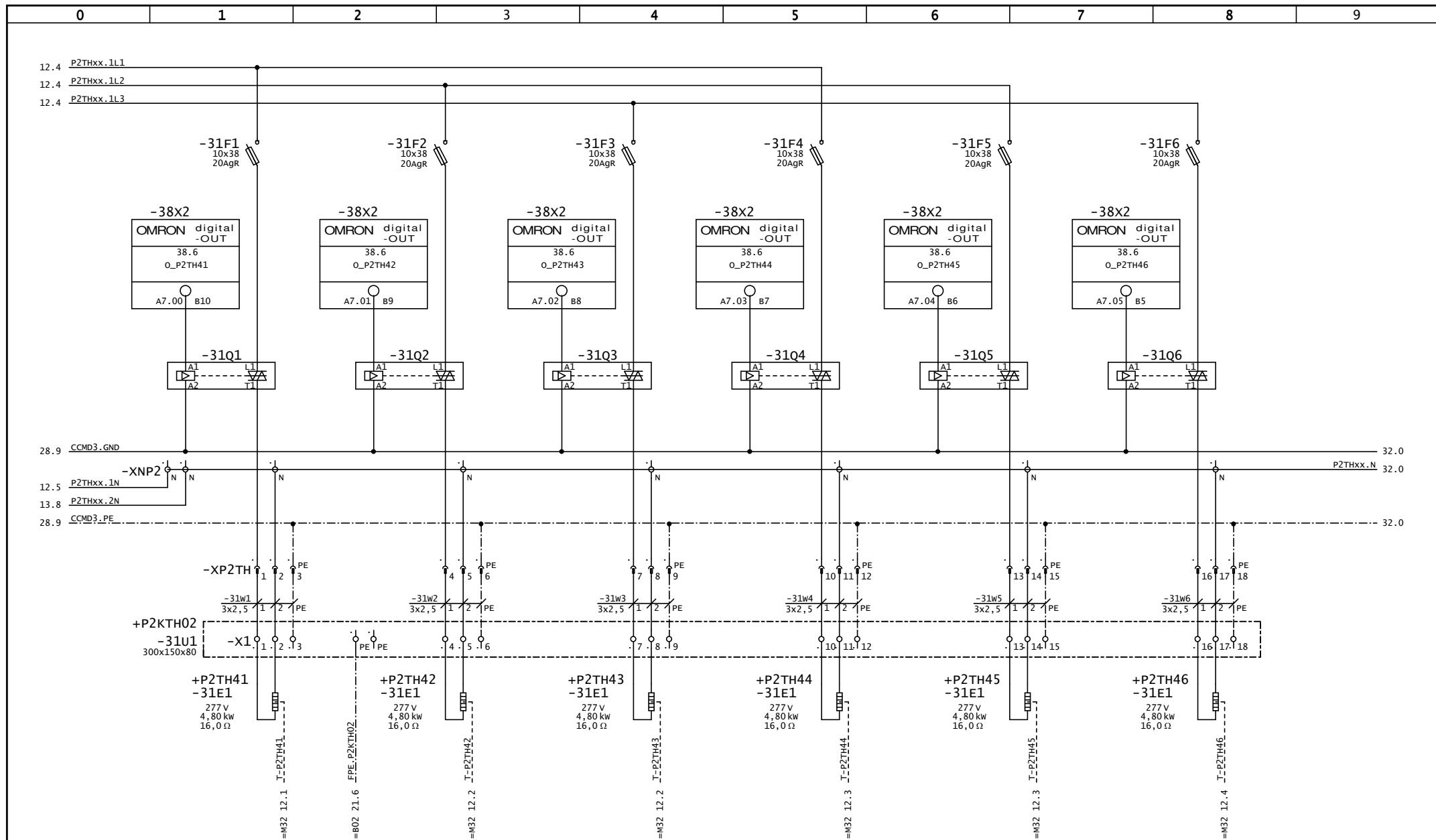
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters P1 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 26	of 42	
cond.	alter.	date	name	norm					< 25		> 27 >

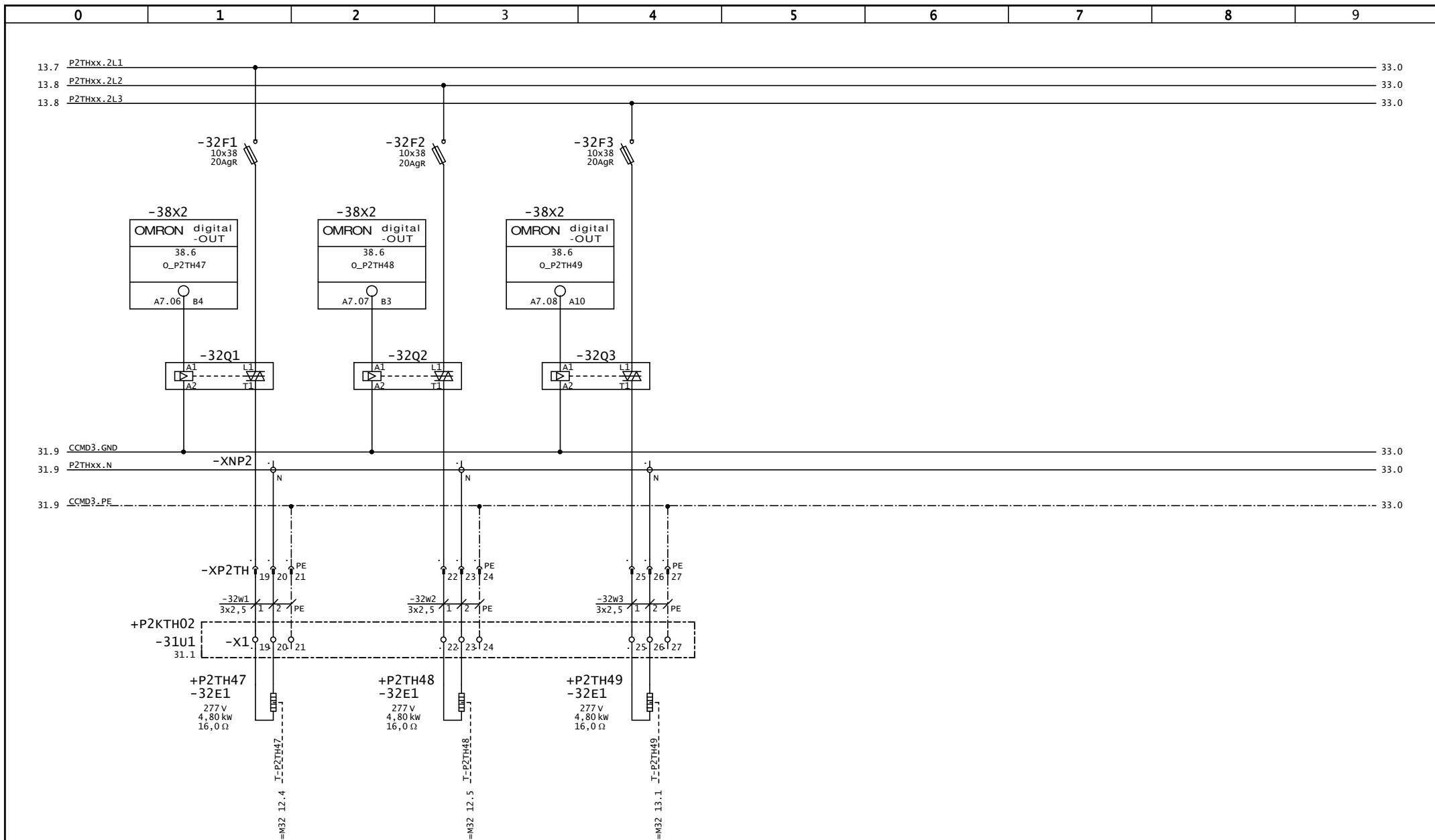


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters P1 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 27	of 42	
cond.	alter.	date	name	norm					< 26	28 >	



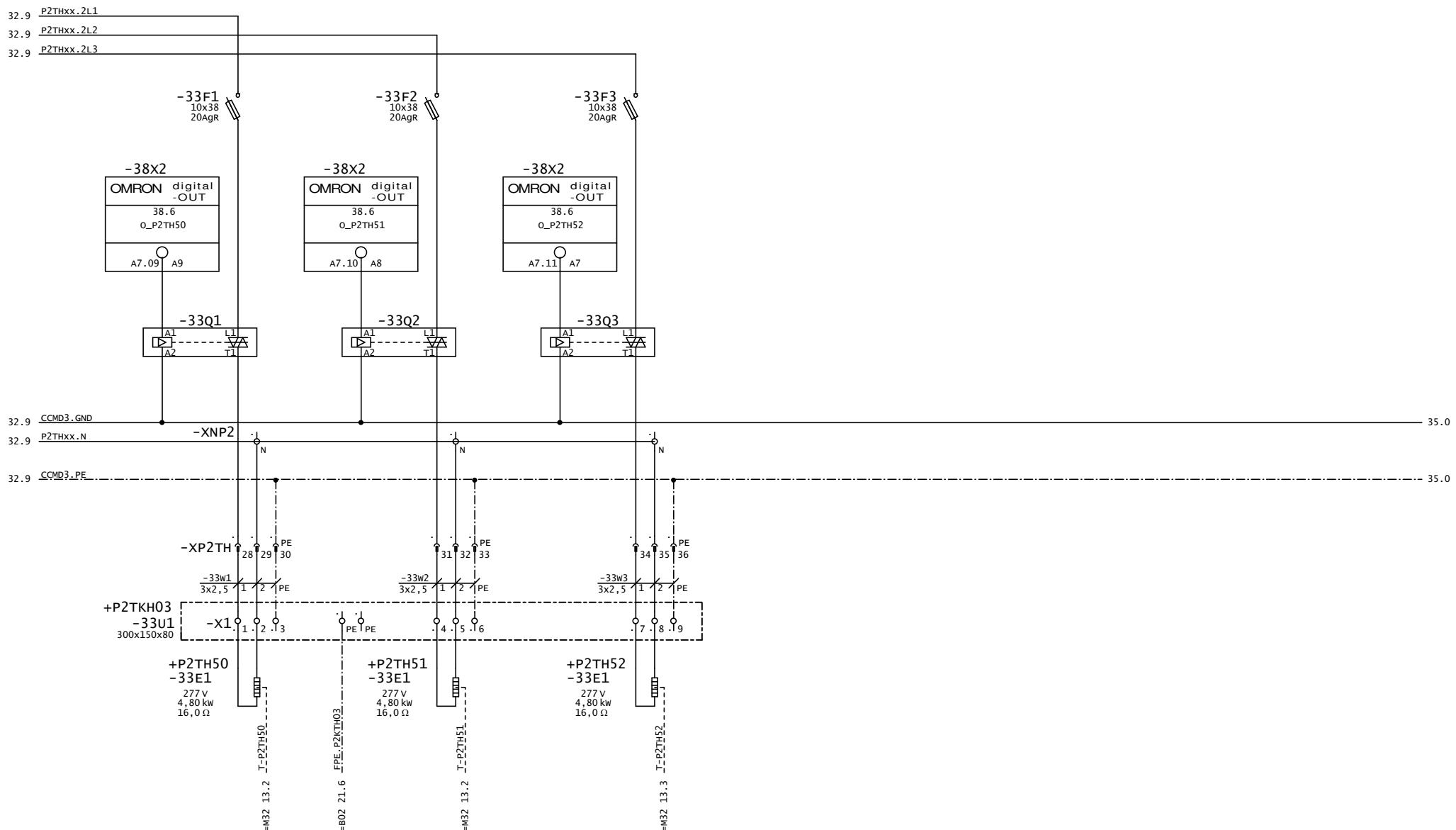
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	heaters P1 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMDO3		
				check					sheet 28	of 42	
cond.	alter.	date	name	norm					< 27		31 >





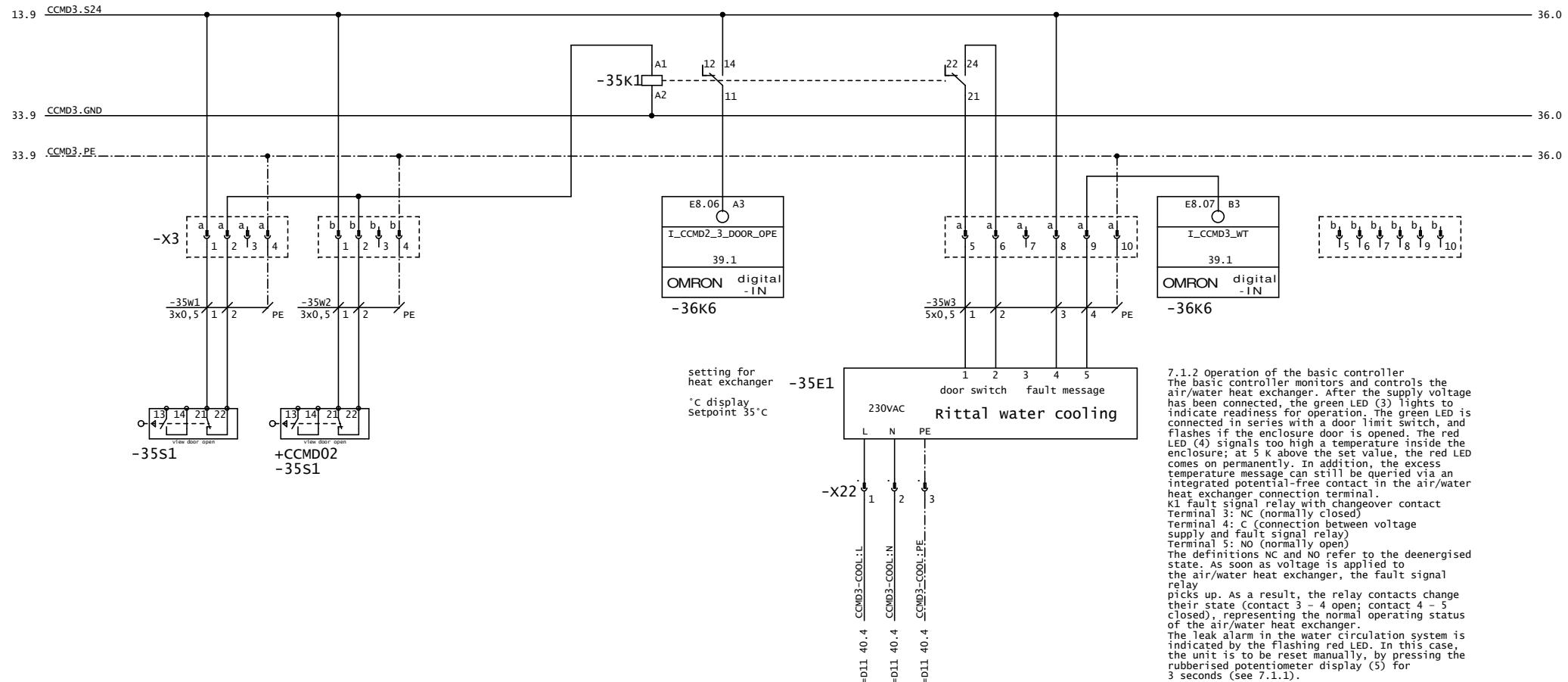
				date	12/05	A1500V-7 iznO_AZ0		heater P2 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 32	of 42	
cond.	alter.	date	name	norm					< 31	33 >	

0	1	2	3	4	5	6	7	8	9
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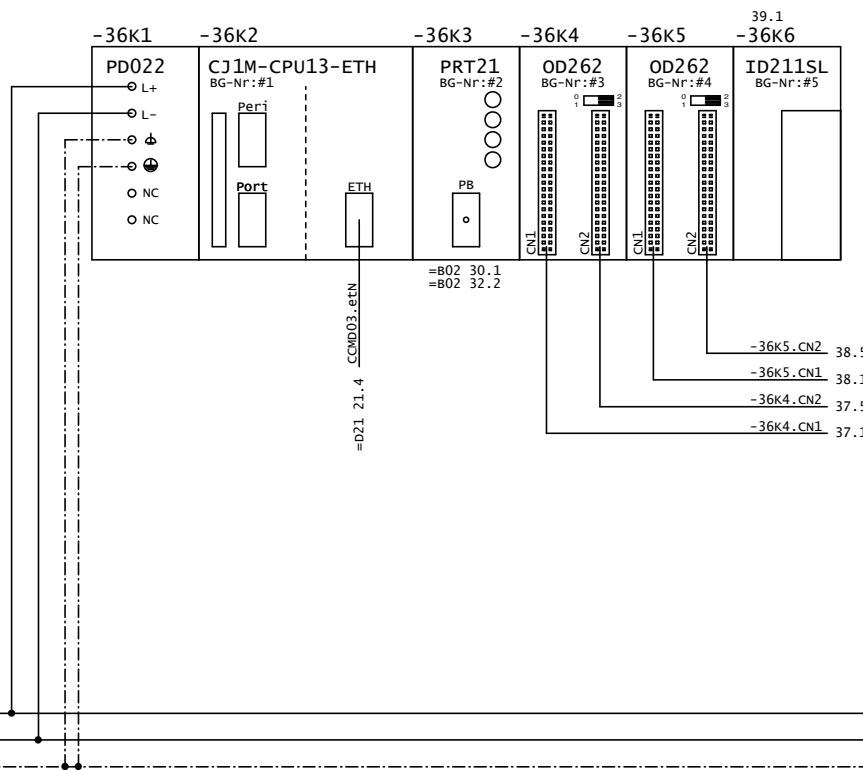
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	heater P2 backside	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 33	of 42	
cond.	alter.	date	name	norm					< 32	35 >	

0	1	2	3	4	5	6	7	8	9
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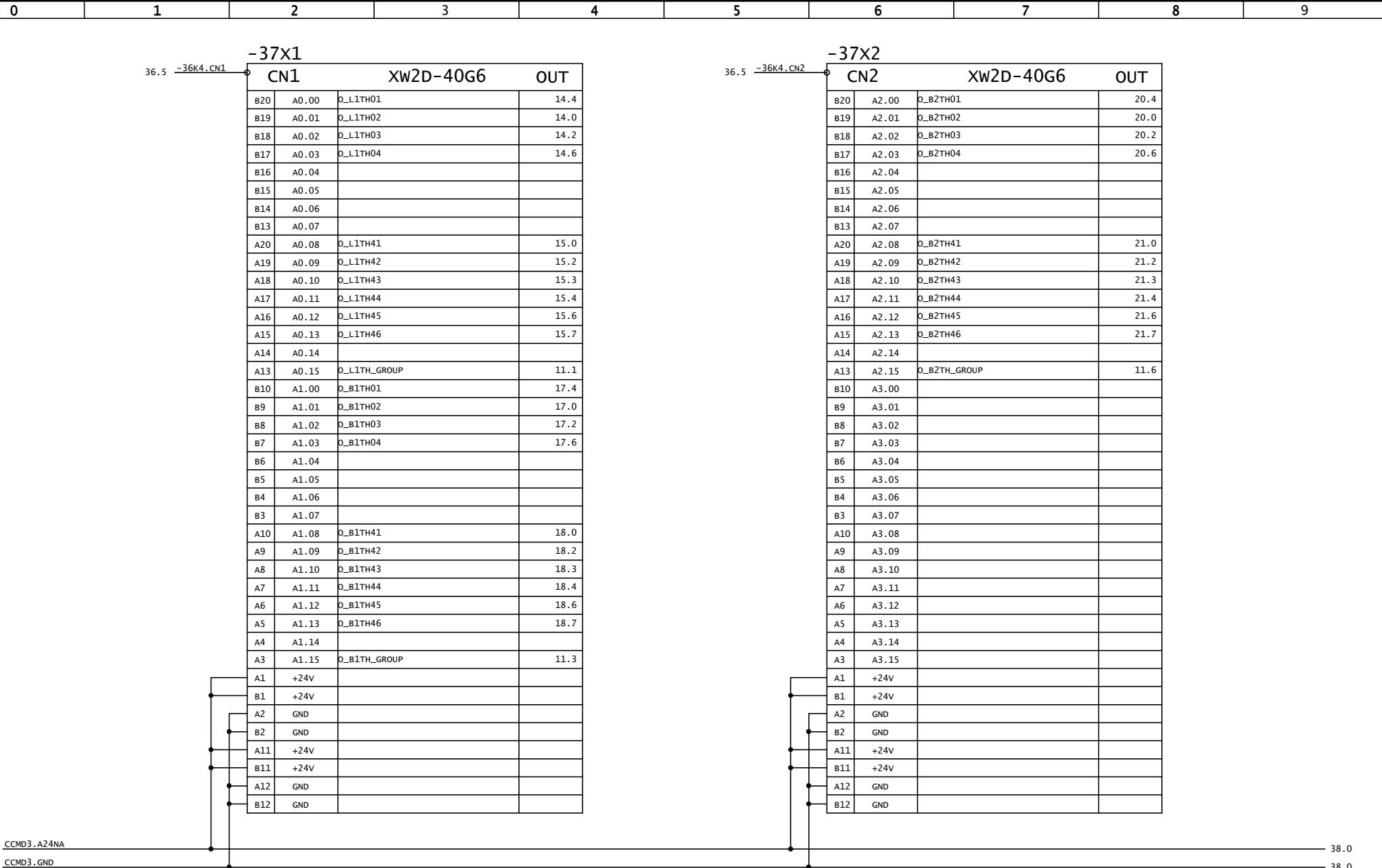


				date	12/05	A1500V-7 izn0_AZ0		control cabinet cooling	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 35	of 42	
cond.	alter.	date	name	norm					< 33	36 >	

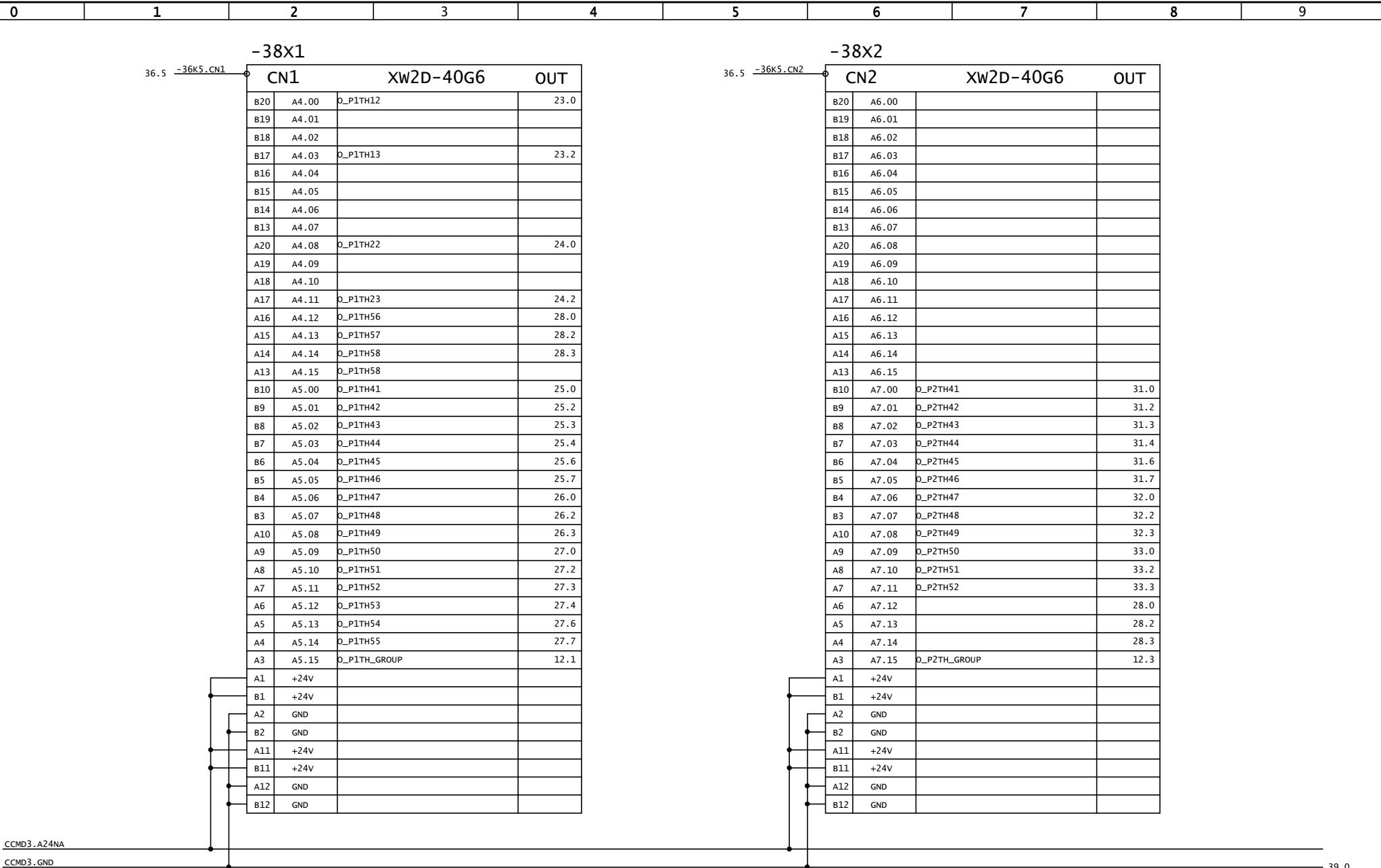
0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	PLC heater control	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 36 of 42		
cond.	alter.	date	name	norm					< 35	37 >	



				date	12/05	A1500V-7 iznO_AZ0	 LEIBOLD OPTICS	digital outputs	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 37	of 42	
cond.	alter.	date	name	norm					< 36		38 >



				date	12/05	A1500V-7 iznO_AZ0	 LEIBOLD OPTICS	digital outputs	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 38	of 42	
cond.	alter.	date	name	norm					< 37	39 >	

0	1	2	3	4	5	6	7	8	9
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-36K6 36.4

CJ1W-ID211SL			
A0	E8.00	I_L1TH_FUSE	11.3
B0	E8.01	I_B1TH_FUSE	11.5
A1	E8.02	I_B2TH_FUSE	11.8
B1	E8.03	I_P1TH_FUSE	12.3
A2	E8.04	I_P2TH_FUSE	12.5
B2	E8.05	I_CCMS_CB2_POWER	12.8
A3	E8.06	I_CCMD2_3_DOOR_OPE	35.4
B3	E8.07	I_CCMD3_WT	35.7
A4	E8.08	I_L1TH_ON	40.1
B4	E8.09	I_B1TH_ON	40.2
A5	E8.10	I_B2TH_ON	40.3
B5	E8.11		
A6	E8.12	I_P1TH_ON	40.4
B6	E8.13		
A7	E8.14	I_P2TH_ON	40.5
B7	E8.15		
A8	COM		
B8	COM		

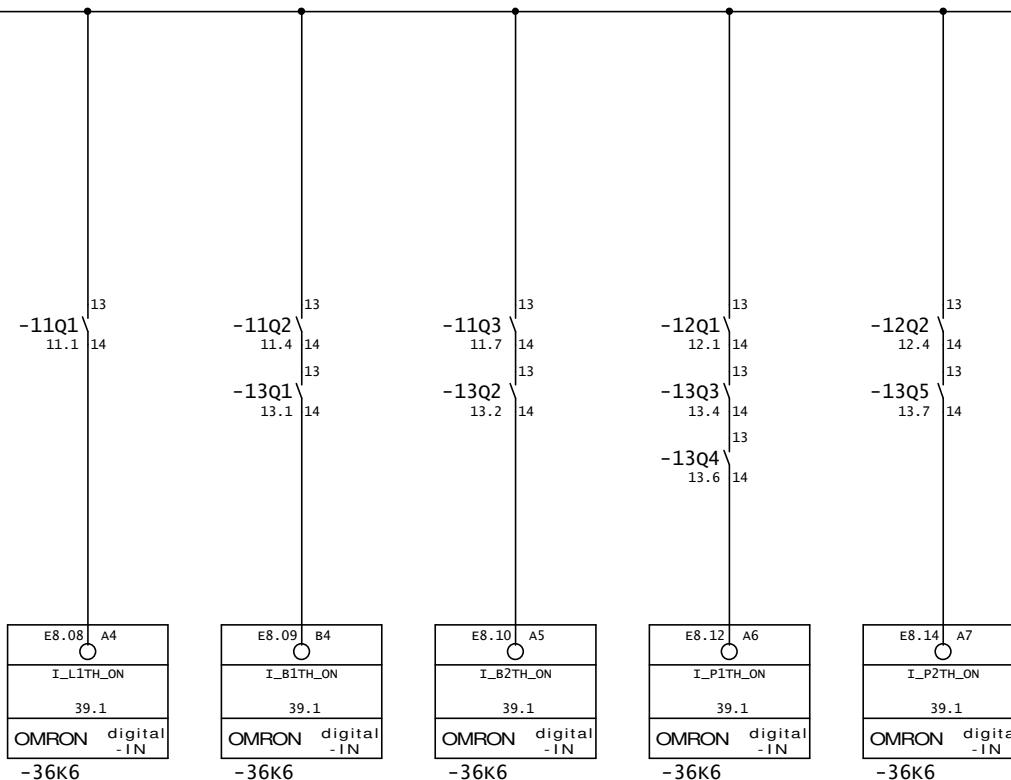
38.9 CCMD3.GND

42.0

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	digital inputs	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 39 of 42		
cond.	alter.	date	name	norm				circuit diagram	< 38	40 >	

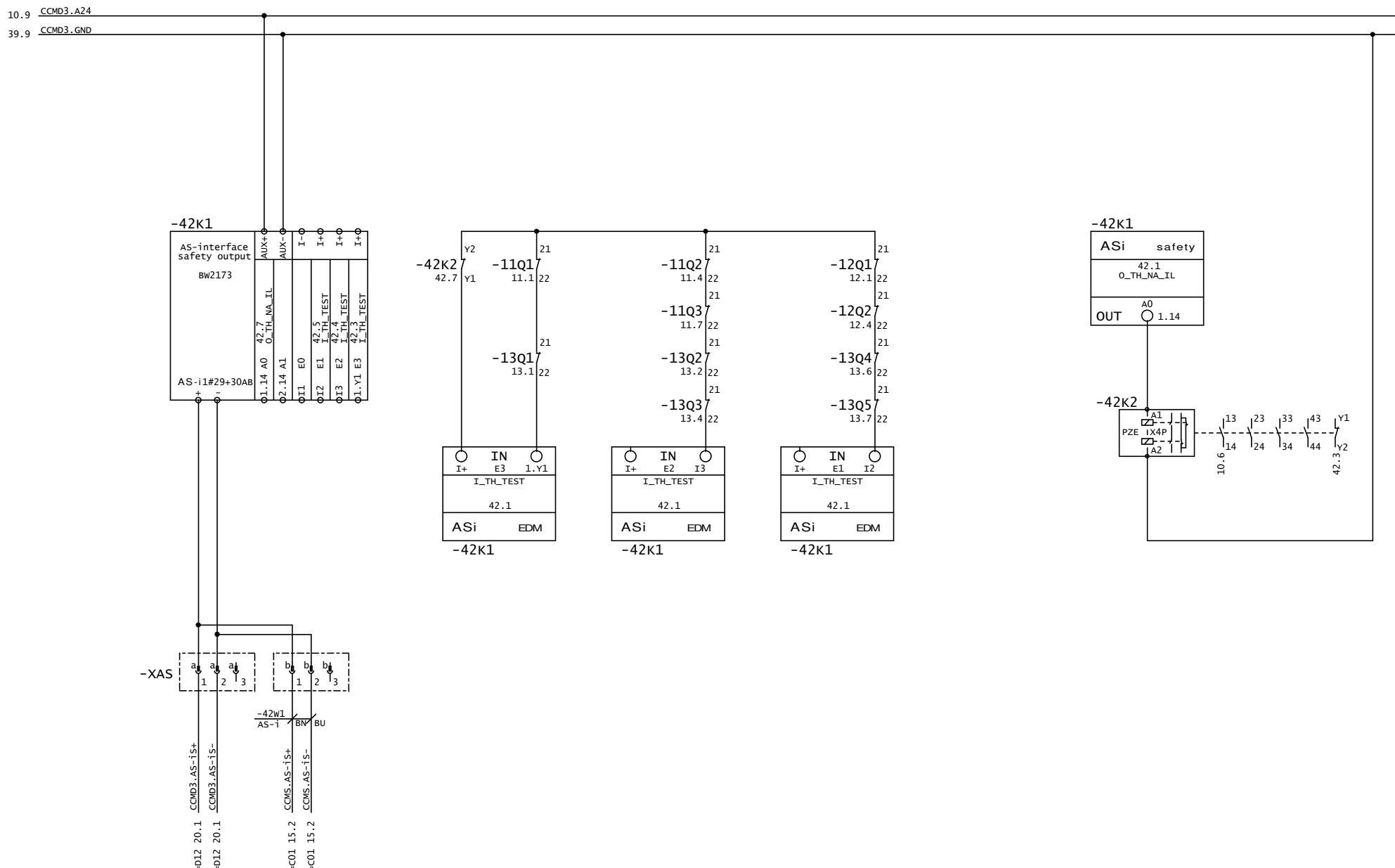
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

36.9 CCMD3.S24



				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	Signale Heizergruppen	388-810000	P/005388	=D13
				devel.	Henker				+CCMD03		
				check					sheet 40 of 42		
cond.	alter.	date	name	norm				circuit diagram	< 39	42 >	

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---



				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	interlock	388-810000	P/005388	=D13
				devel.	Henker						+CCMD03
				check							sheet 42 of 42
cond.	alter.	date	name	norm					circuit diagram		< 40 =D21/6 >

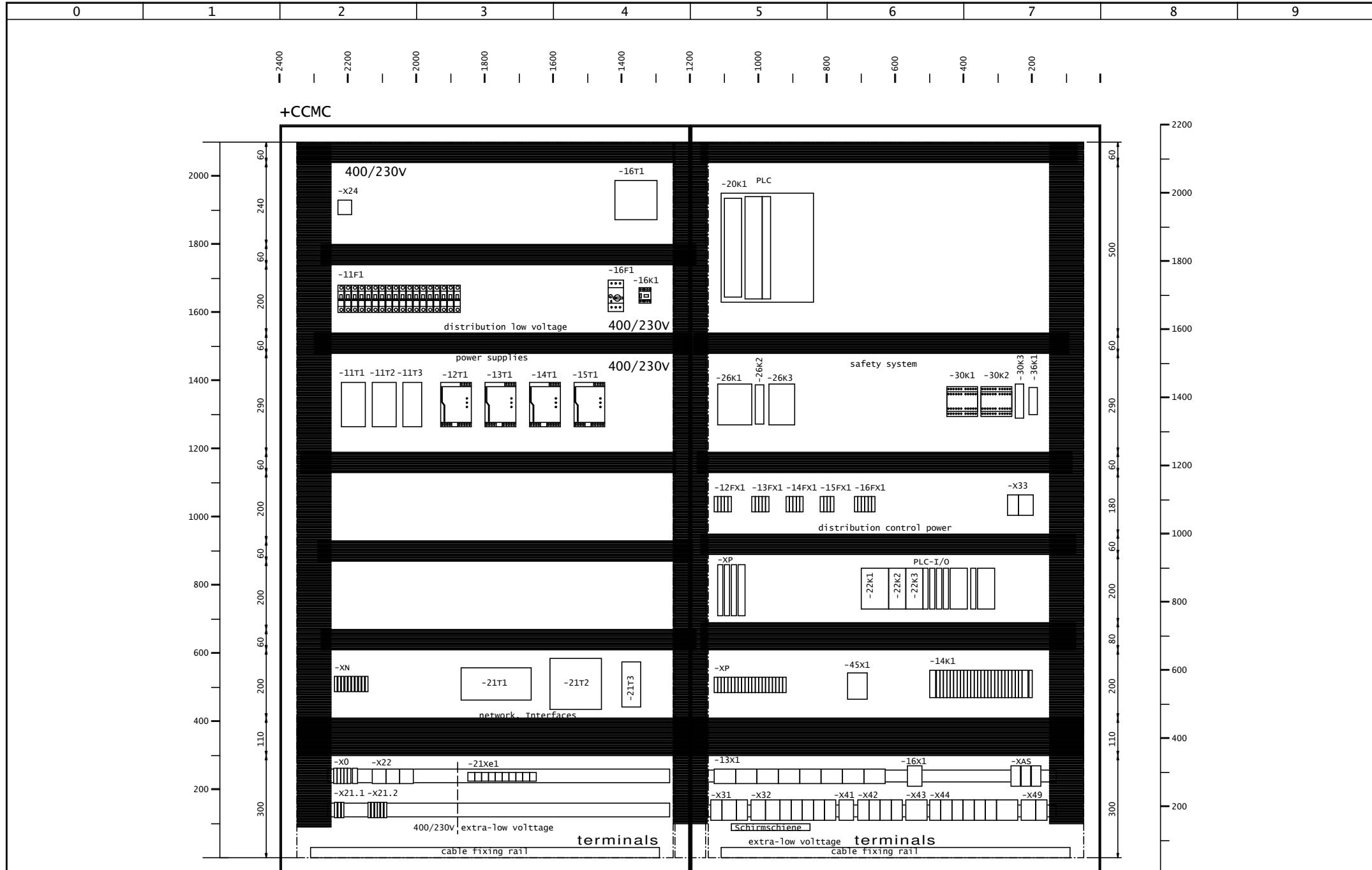
This technical drawing illustrates a cabinet assembly with the following components:

- 6U1**: RIT-8226500, TS Schrank 1200x2200x600 RAL 7035 m. MPL.
- 6U2**: RIT-8226500, TS Schrank 1200x2200x600 RAL 7035 m. MPL.
- 6U3**: RIT-8126235, TS Seitenwände (H:2200, T:600) RAL 7035.
- 6U4**: RIT-8801765, TS Aufsatzmodul RAL 7035 B1200xH200xT600.
- 6U5**: RIT-8801765, TS Aufsatzmodul RAL 7035 B1200xH200xT600.
- 6U6**: RIT-8801775, TS Aufsatzmodul seitenvände H200xT600 paar.
- 6U7**: RIT-4592700, TS Montageplattenzwischenstück 2200 hoch.
- 6U8**: RIT-8602200, TS Sockel-Elemente vorn/hinten H200xB1200.
- 6U9**: RIT-8602200, TS Sockel-Elemente vorn/hinten H200xB1200.
- 6U10**: 4x RIT-8602060, TS Sockel-Blenden, seitlich H200xT600.
- 40E1**: water cooling.

The vertical axis on the right indicates height dimensions from 200 to 2200 mm. The horizontal axis at the top indicates depth dimensions from 0 to 9 mm. A label '+CCMC' is located in the upper left area.

equipment dimentions: (wide x height x deep)  
all dimensions in mm

equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

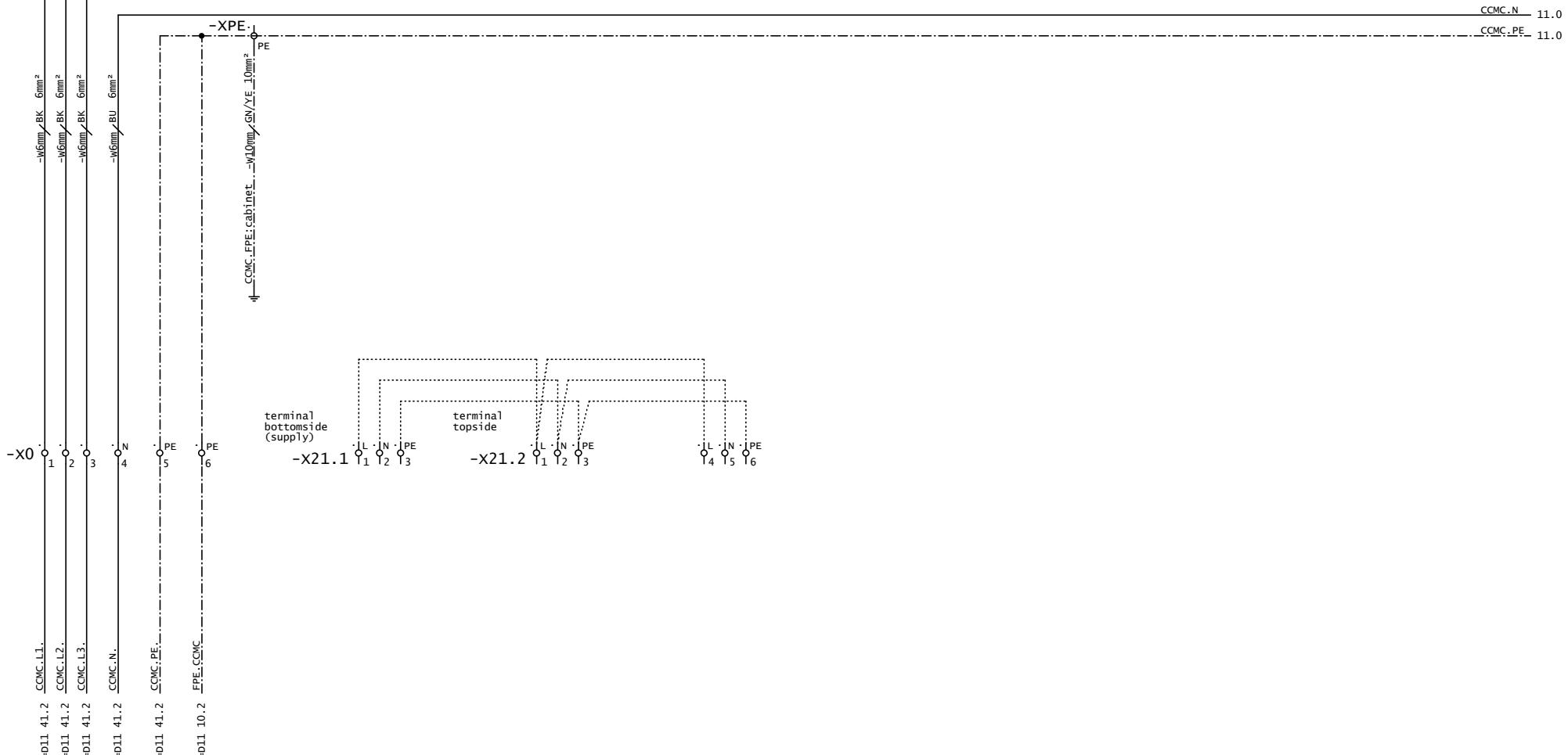


				date	12/05	A1500V-7 izn0_AZ0	<b>LEYBOLD OPTICS</b>	mounting plate main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 7	of 47	
cond.	alter.	date	name	norm					< 6	10 >	

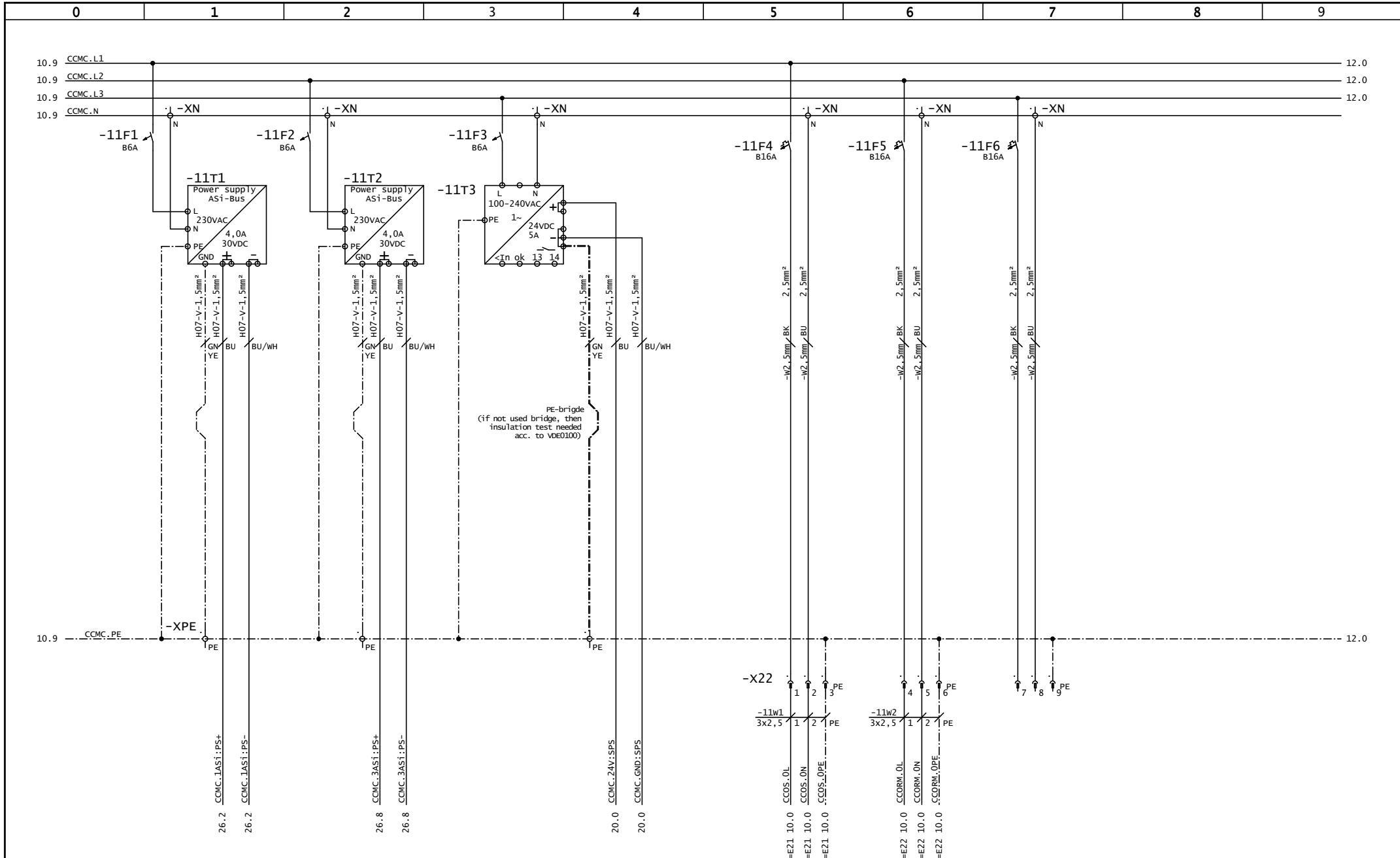
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

power input:  
 3 phase AC 400/230V  
 /neutral/protective earth  
 frequency: 50/60Hz  
 power:

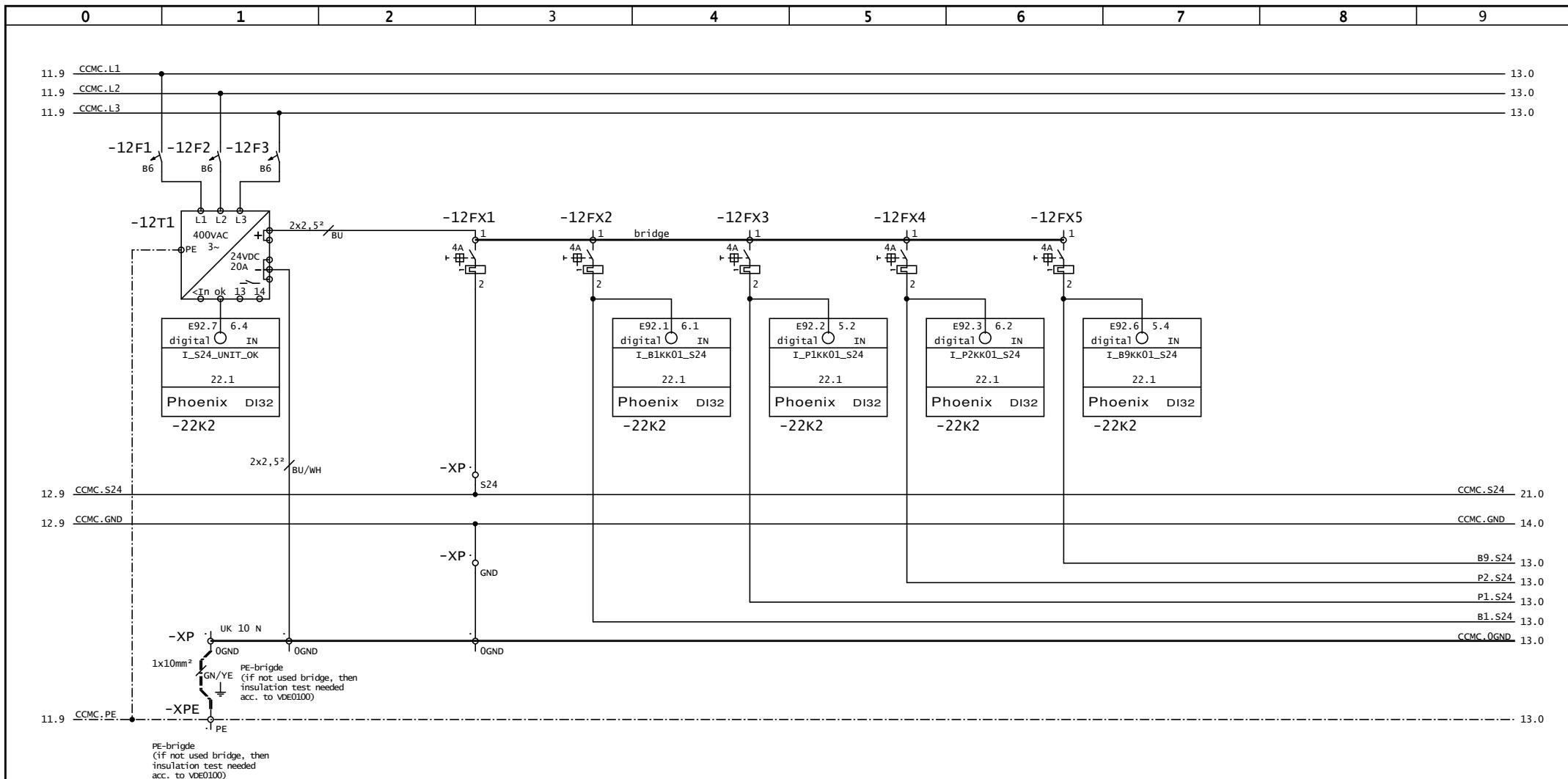
CCMC.L1 11.0  
 CCMC.L2 11.0  
 CCMC.L3 11.0



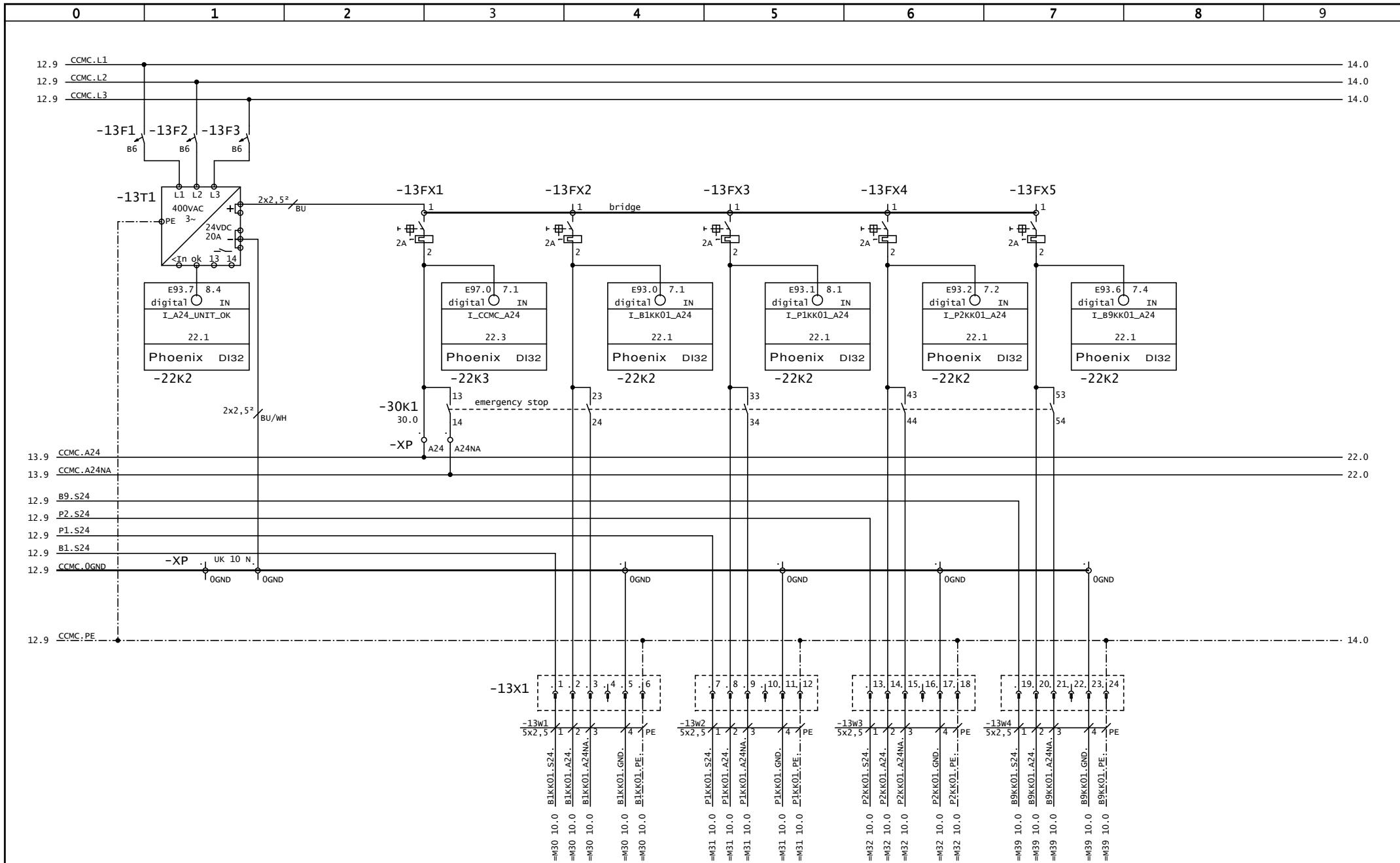
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	feed-in main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check						sheet 10	of 47
cond.	alter.	date	name	norm						< 7	11 >



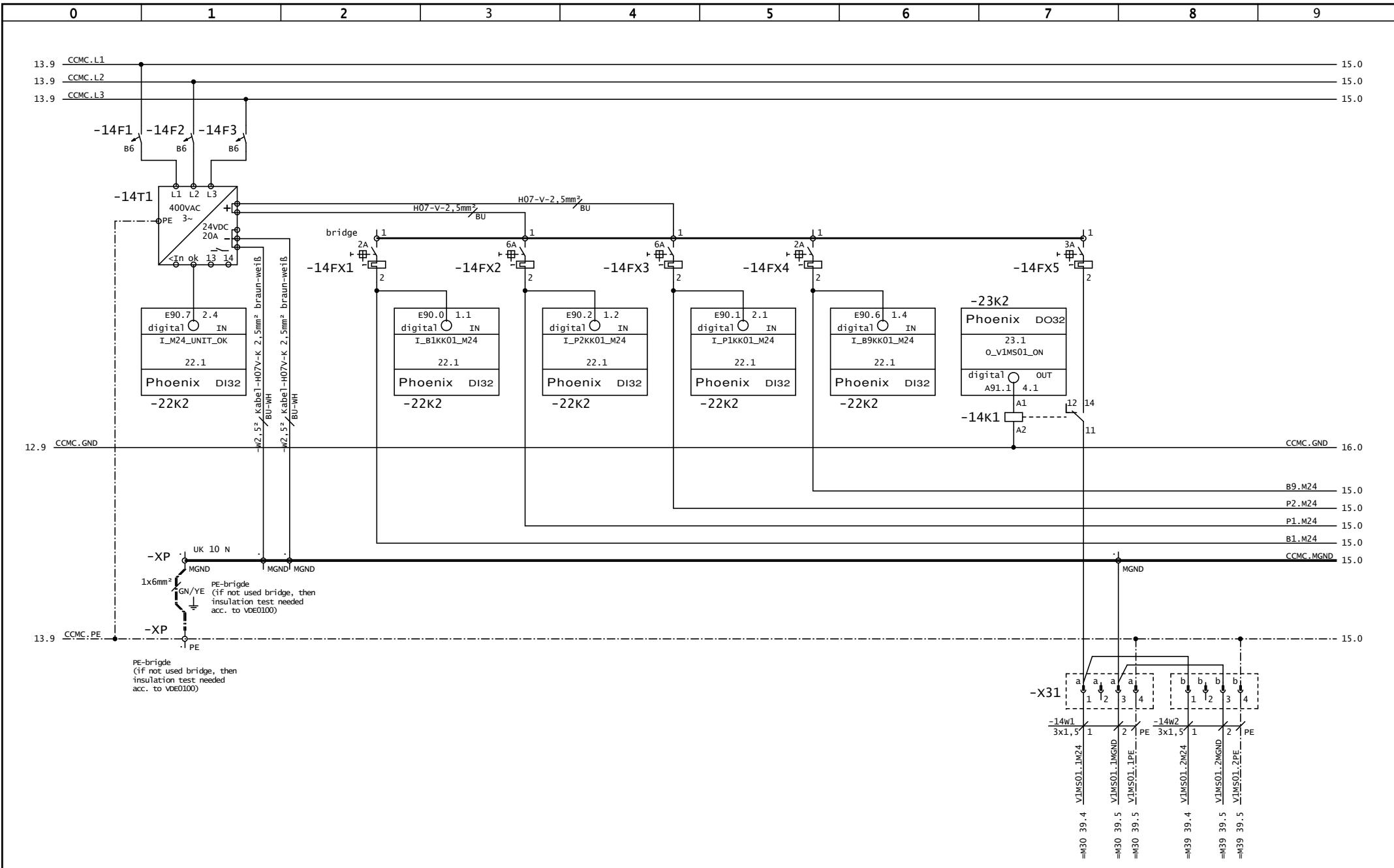
				date	12/05	A1500V-7 iznO_AZ0		power distribution control system main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 11	of 47	
cond.	alter.	date	name	norm					< 10	12 >	



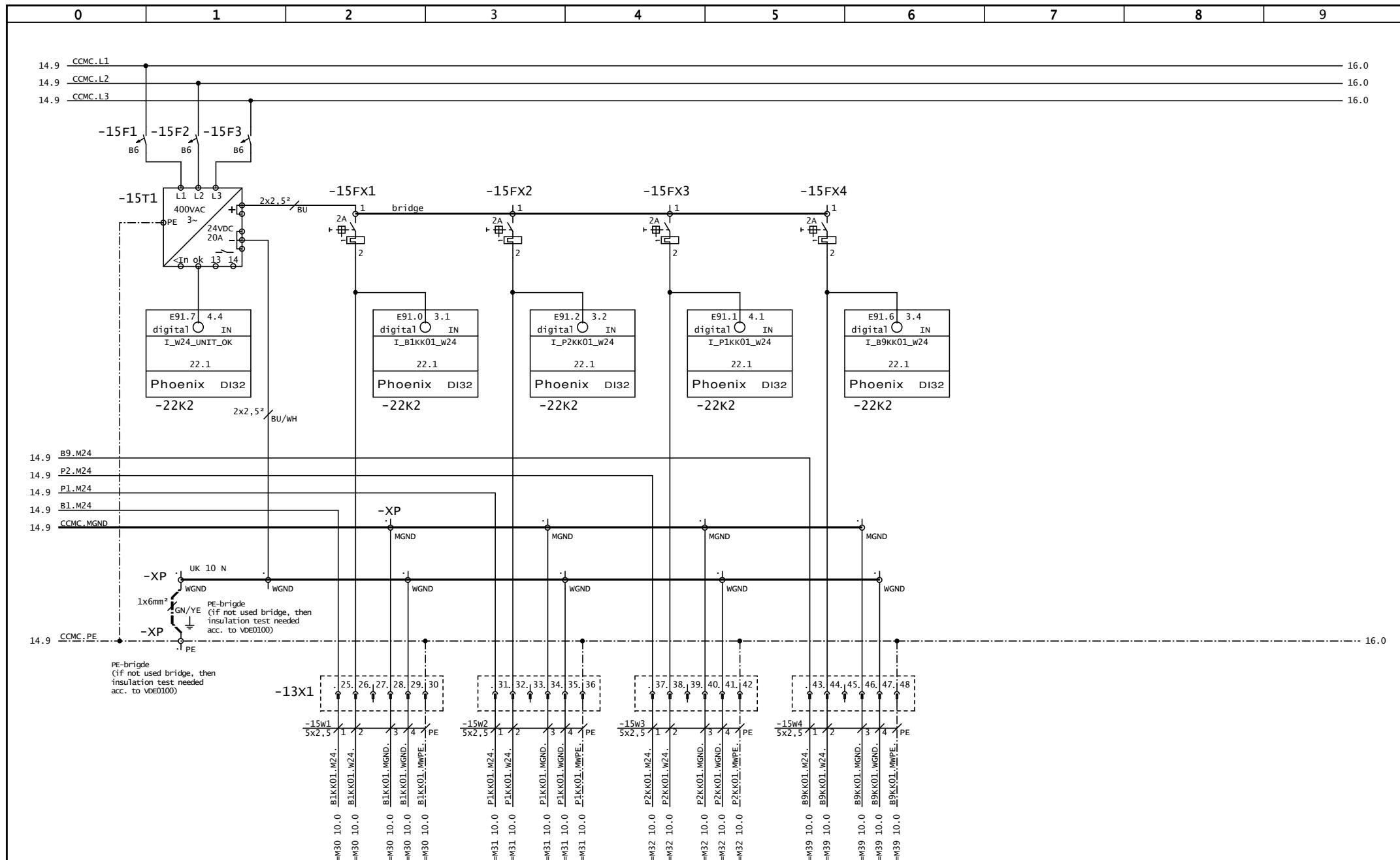
				date	12/05	A1500V-7 iznO_AZ0		control voltage distr. S24V main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check							
cond.	alter.	date	name	norm					circuit diagram		< 11 of 47



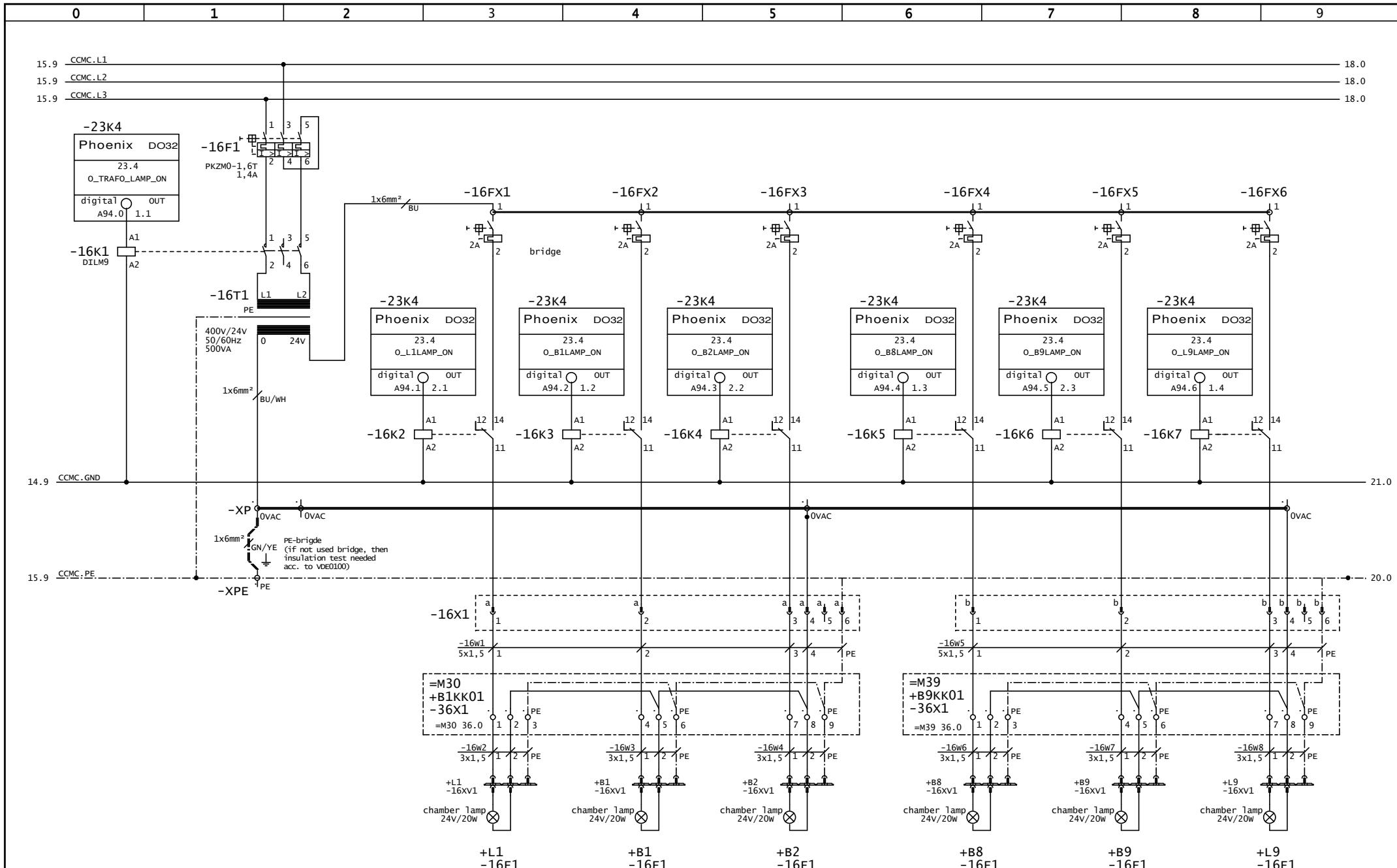
				date	12/05	A1500V-7 izn0_AZ0		control voltage distr. A24V main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 13	of 47	
cond.	alter.	date	name	norm					< 12	14 >	



				date	12/05	A1500V-7 izn0_AZ0		control voltage distr. M24V main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check						sheet 14	of 47
cond.	alter.	date	name	norm					circuit diagram		< 13 15 >



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	control voltage distr. w24V main control	388-810000	P/005388	=D21	
				devel.	Henker				+CCMC		sheet 15	of 47
				check							< 14	16 >
cond.	alter.	date	name	norm					circuit diagram			



date	12/05	devel.	Henker	A1500V-7 izn0_AZ0		chamber lighting main control	388-810000	P/005388	=D21
check									+CCMC
cond.	alter.	date	name				circuit diagram		sheet 16 of 47



LEYBOLD OPTICS

0	1	2	3	4	5	6	7	8	9
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16.9 CCMC.L1 19.0  
 16.9 CCMC.L2 19.0  
 16.9 CCMC.L3 19.0

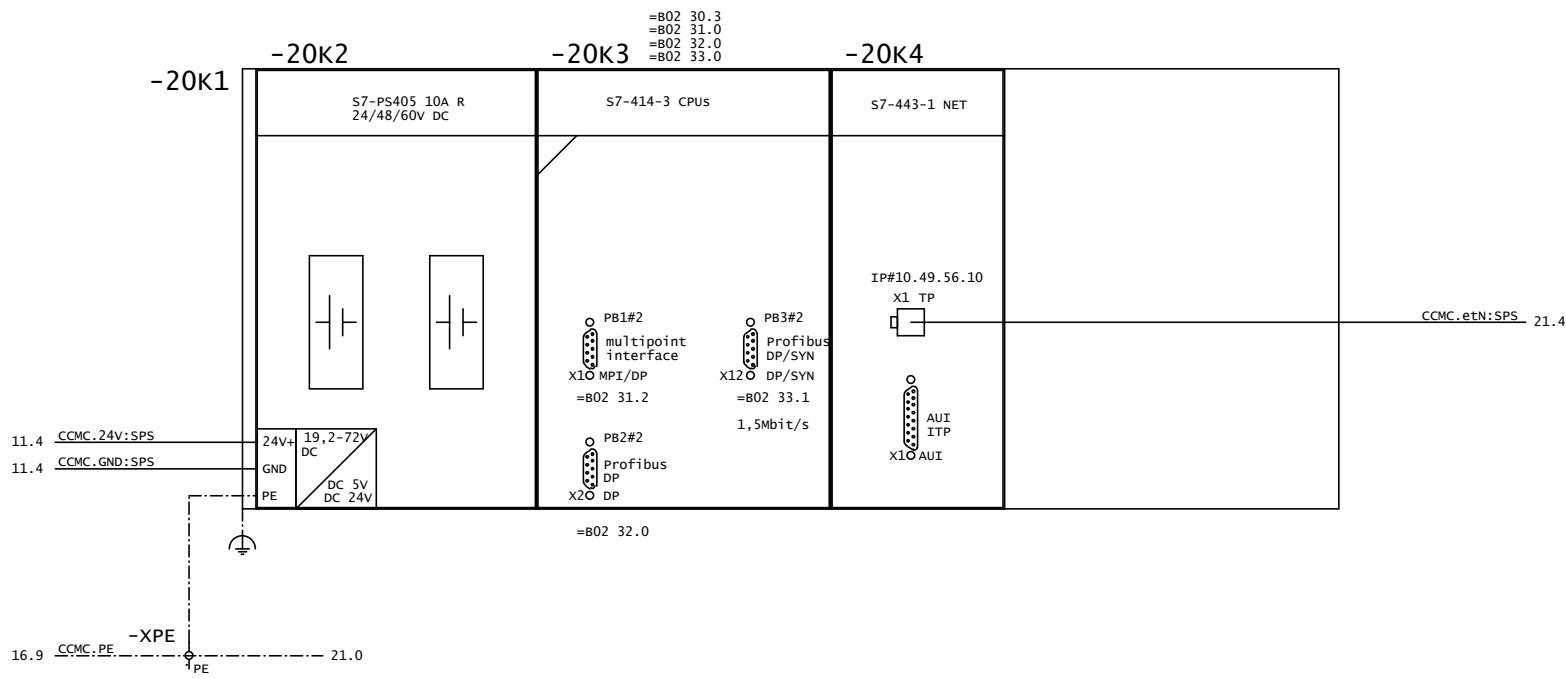
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution reserve main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 18 of 47		
cond.	alter.	date	name	norm				circuit diagram	< 16	19 >	

0	1	2	3	4	5	6	7	8	9
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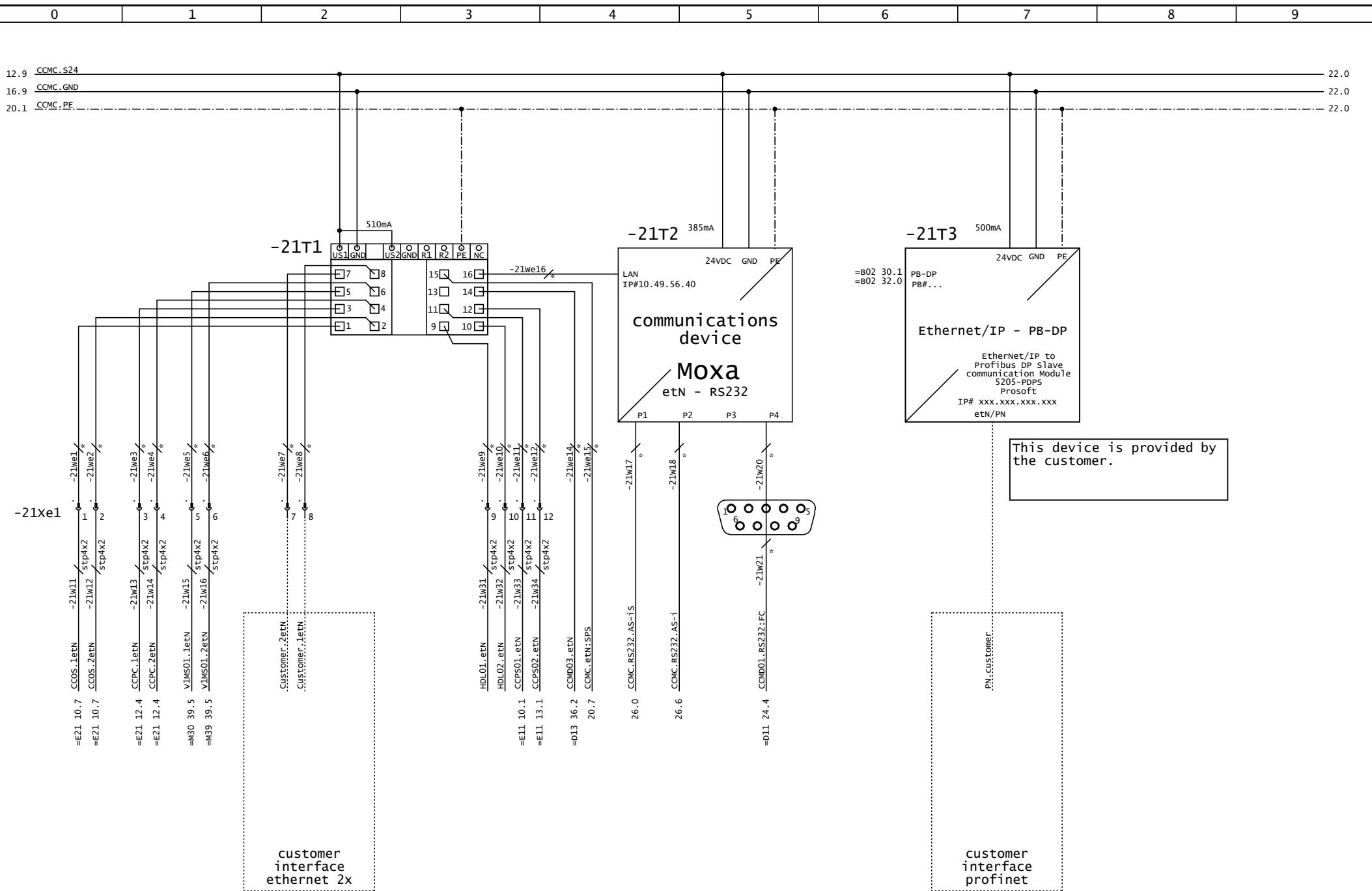
18.9 CCMC.L1  
 18.9 CCMC.L2  
 18.9 CCMC.L3

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	power distribution reserve main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 19	of 47	
cond.	alter.	date	name	norm					< 18		20 >

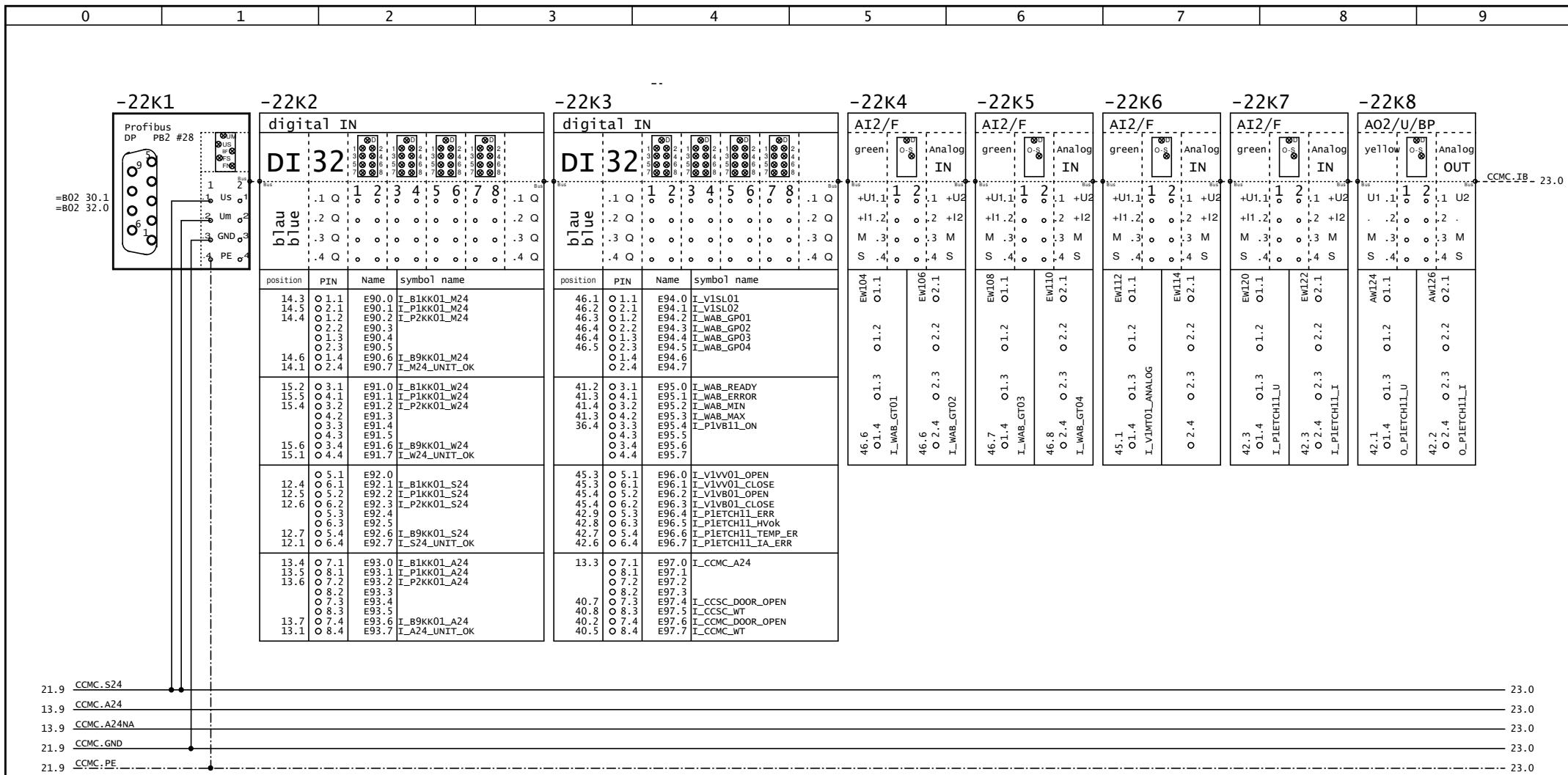
0      1      2      3      4      5      6      7      8      9



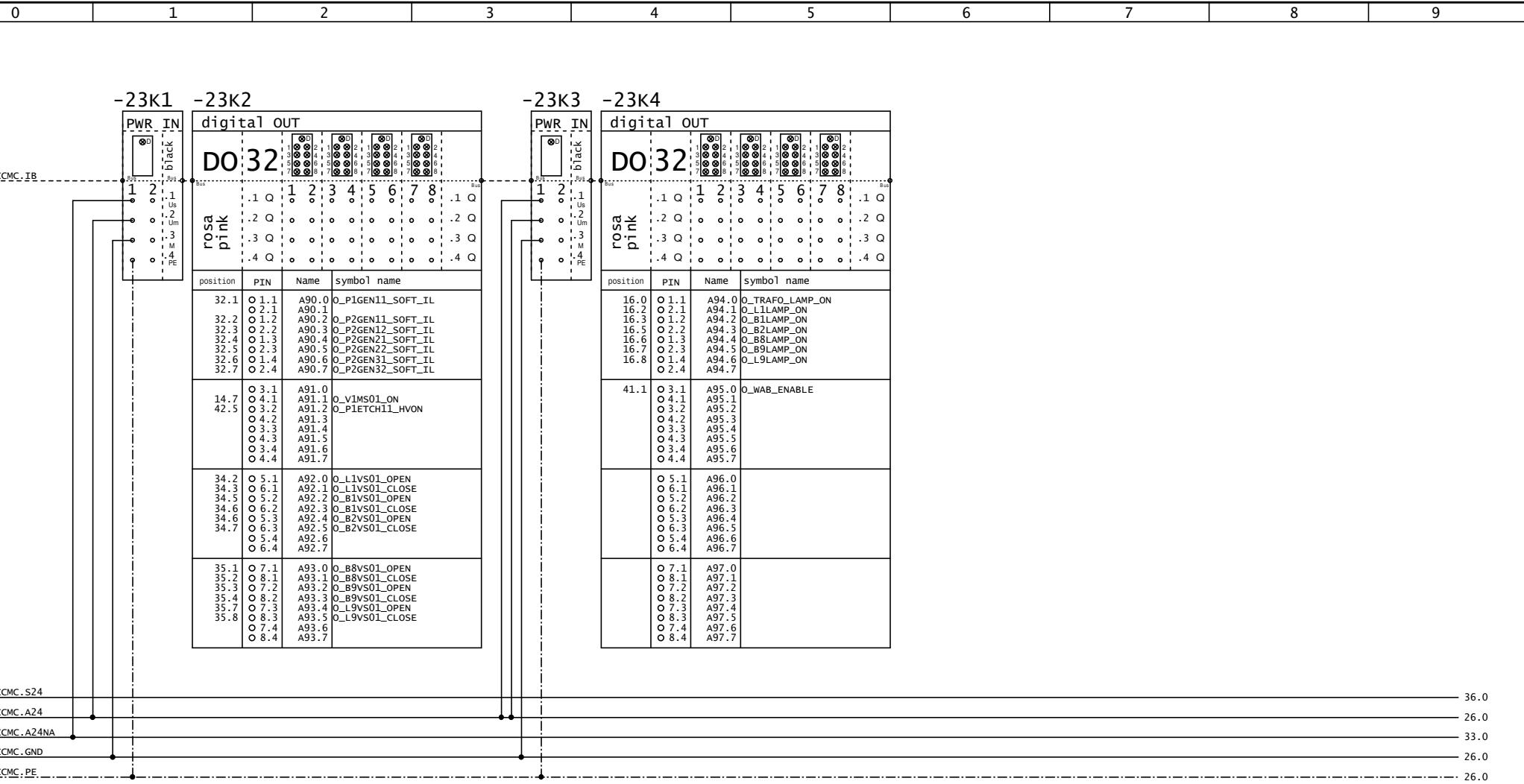
				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	PLC main control	<b>388-810000</b>	P/005388	=D21
				devel.	Henker				+CCMC		
				check						sheet 20	of 47
cond.	alter.	date	name	norm						< 19	21 >



				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	network, bus interfaces main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 21	of 47	
cond.	alter.	date	name	norm					< 20	22 >	



				date	12/05	A1500V-7 izn0_AZ0		PLC outputs main control	388-810000	P/005388	=D21
				devel.	Henker						+CCMC
				check							
cond.	alter.	date	name	norm					circuit diagram		sheet 22 of 47



				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	PLC inputs main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 23	of 47	
cond.	alter.	date	name	norm					< 22	24 >	

0	1	2	3	4	5	6	7	8	9
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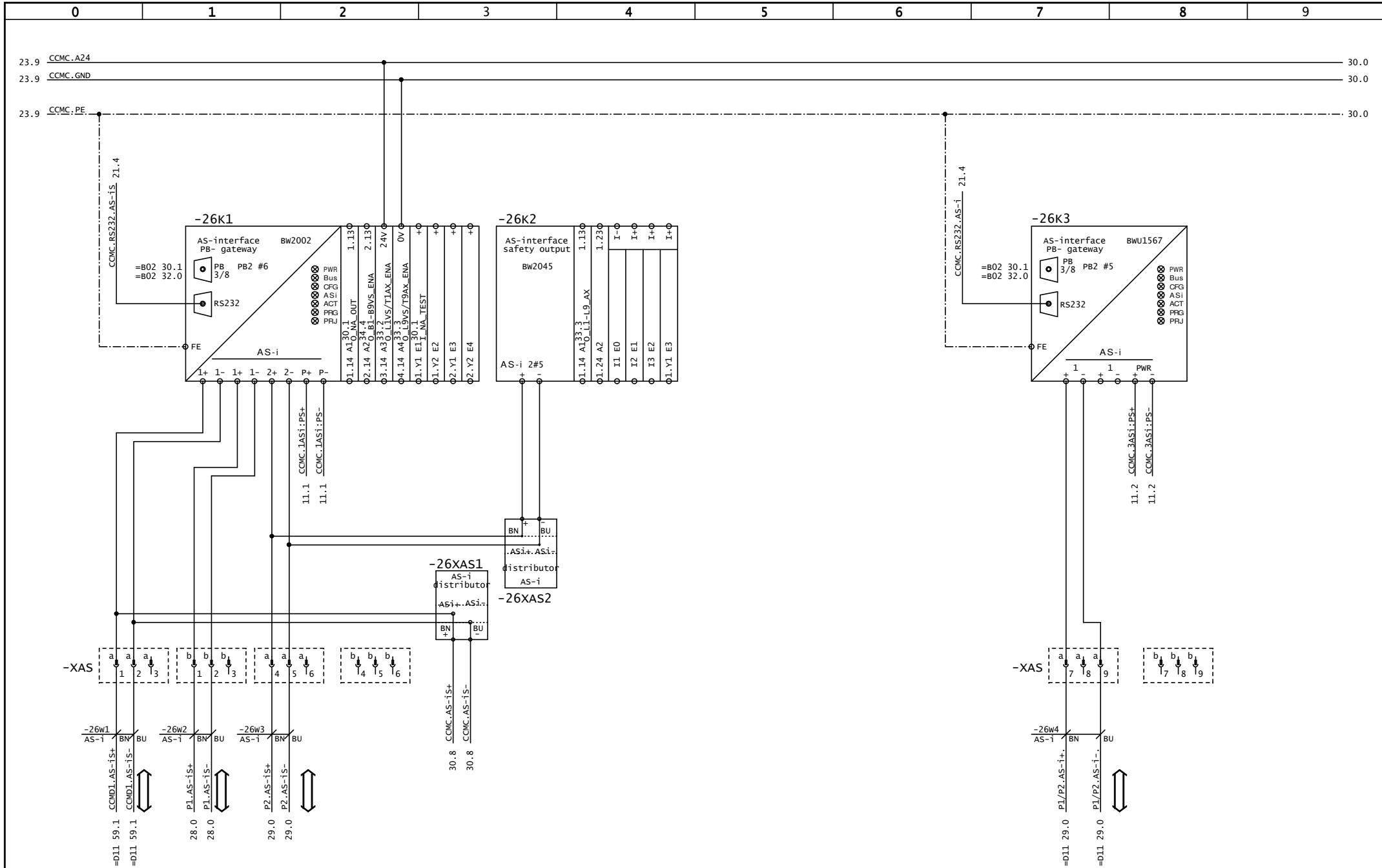
see attachment =B02 for the profibus connections

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	Profibus main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 24	of 47	
cond.	alter.	date	name	norm					< 23		25 >

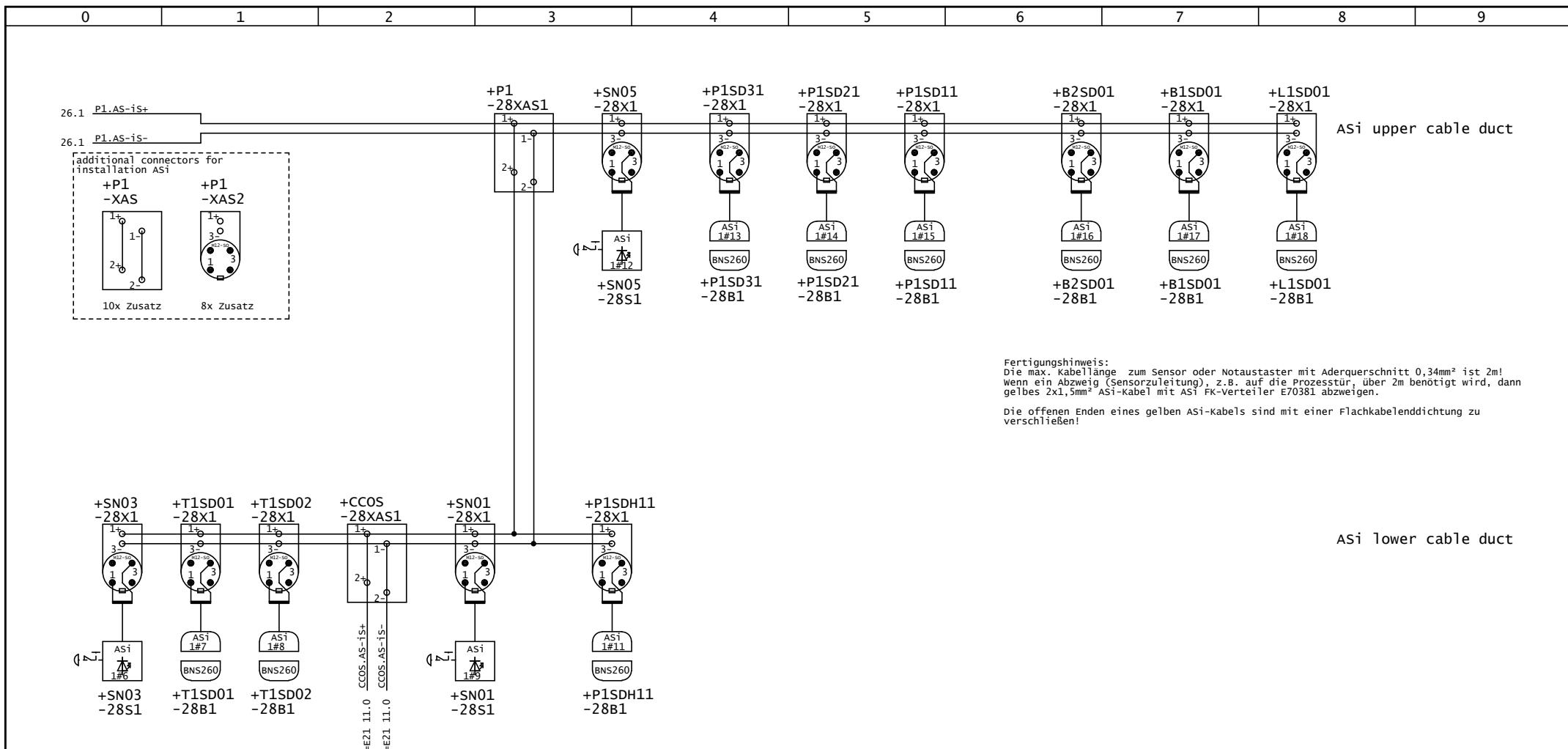
0	1	2	3	4	5	6	7	8	9
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## safety system

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	safety system main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 25 of 47		
cond.	alter.	date	name	norm					< 24		26 >

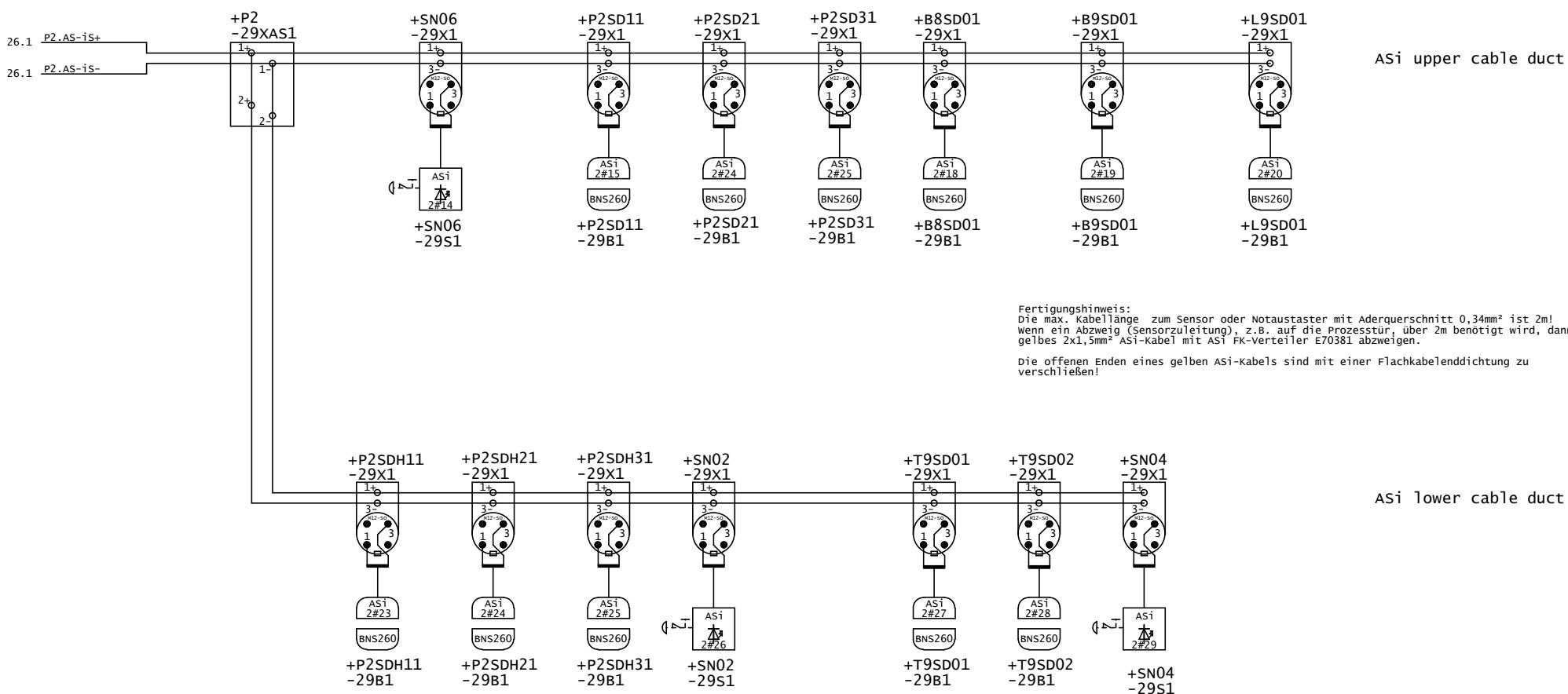


				date	12/05	A1500V-7 iznO_AZ0		ASI, safety system main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 26	of 47	
cond.	alter.	date	name	norm					< 25		28 >

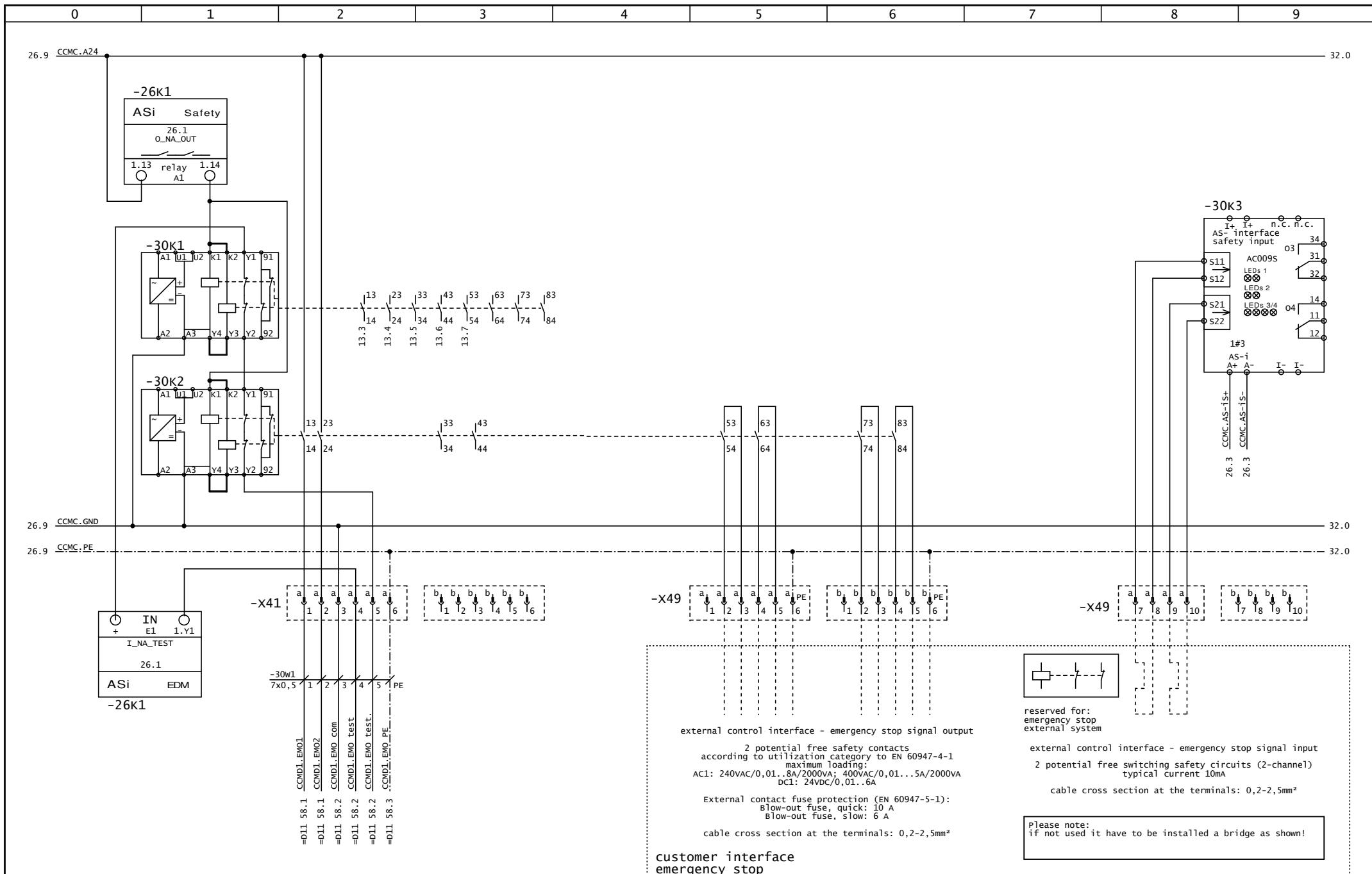


				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	AS-i safety bus 1 main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check						sheet 28	of 47
cond.	alter.	date	name	norm					circuit diagram		< 26 29 >

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	AS-i safety bus 2 main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 29	of 47	
cond.	alter.	date	name	norm					< 28	30 >	



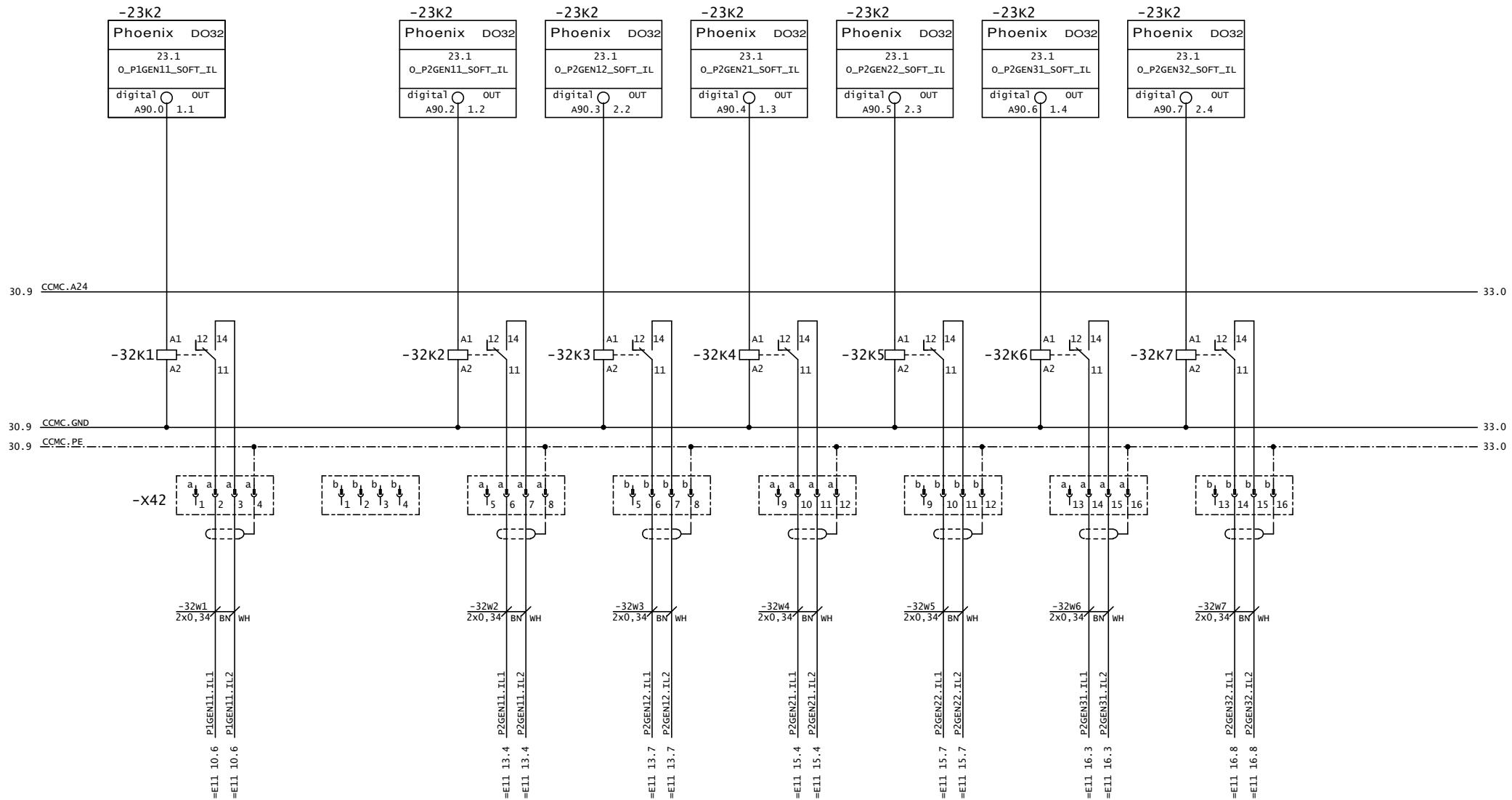
				date	12/05	A1500V-7 izn0_AZ0		emergency stop, emerg. off main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check						sheet 30	of 47
cond.	alter.	date	name	norm					< 29		31 >

0	1	2	3	4	5	6	7	8	9
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interlock, enable, control of equipment

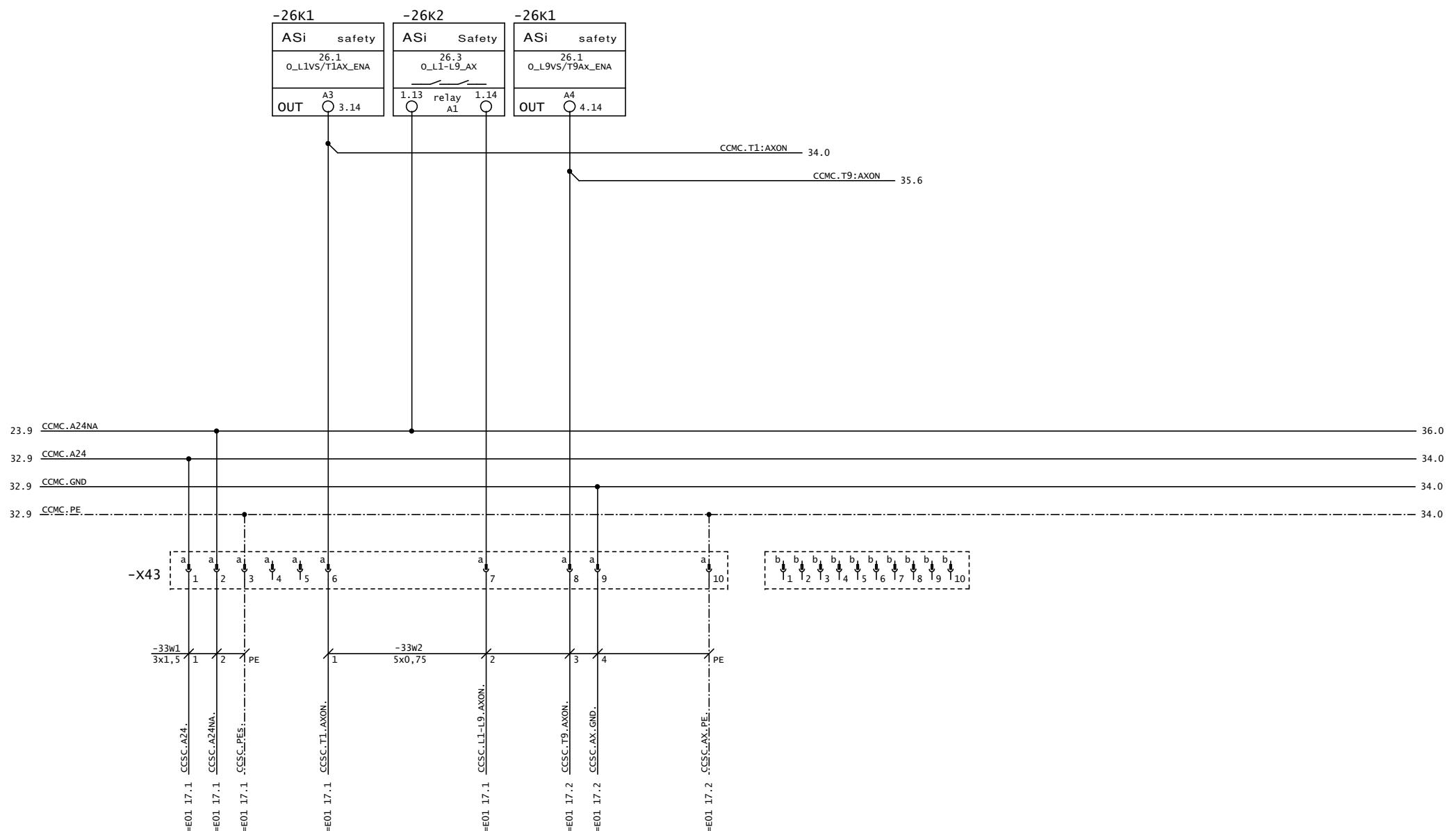
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	interlock, enabling, control main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 31 of 47		
cond.	alter.	date	name	norm					< 30		32 >

0	1	2	3	4	5	6	7	8	9
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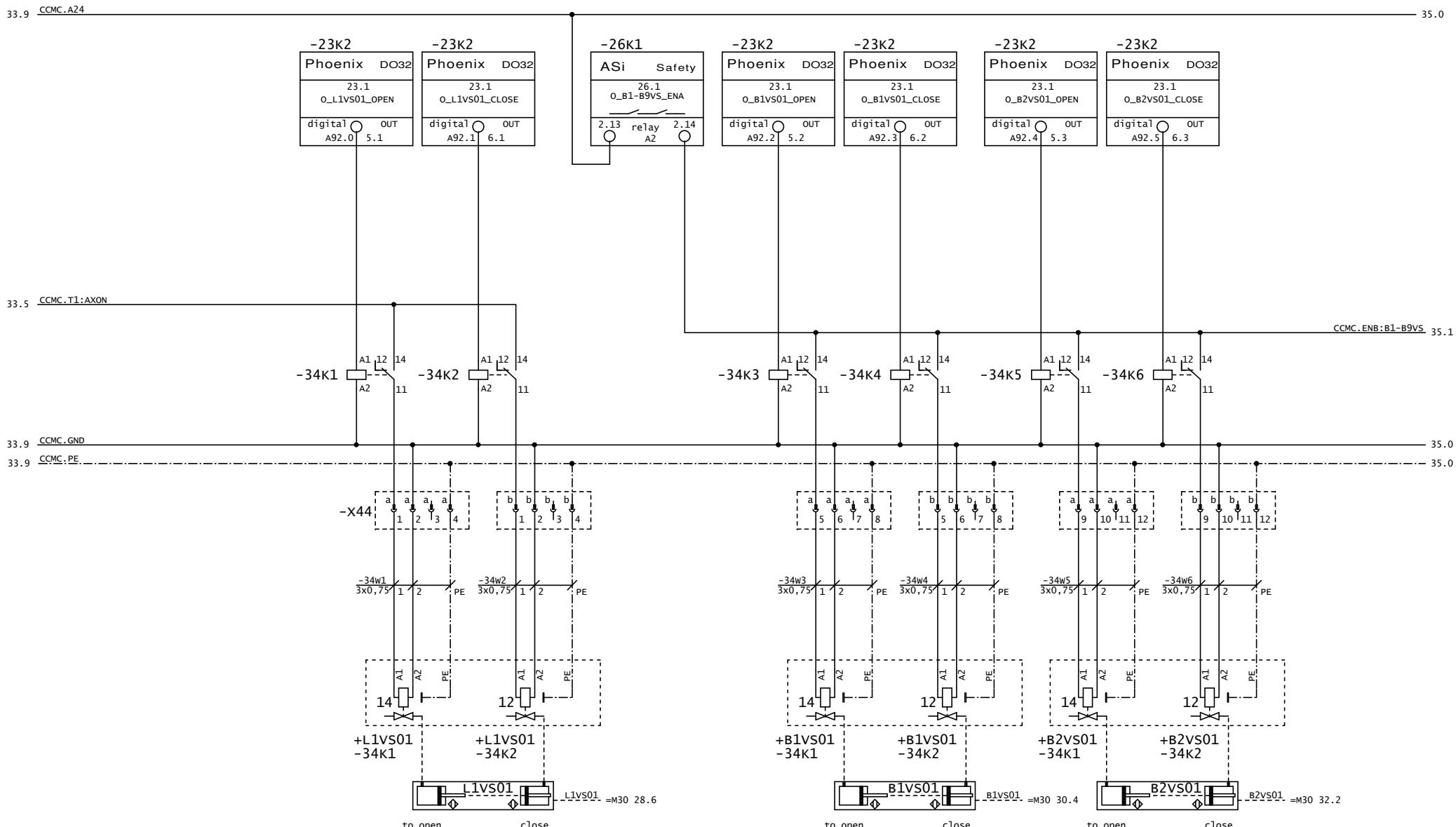
				date	12/05	A1500V-7 iznO_AZ0		generator interlock main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 32	of 47	
cond.	alter.	date	name	norm					< 31	33 >	

0	1	2	3	4	5	6	7	8	9
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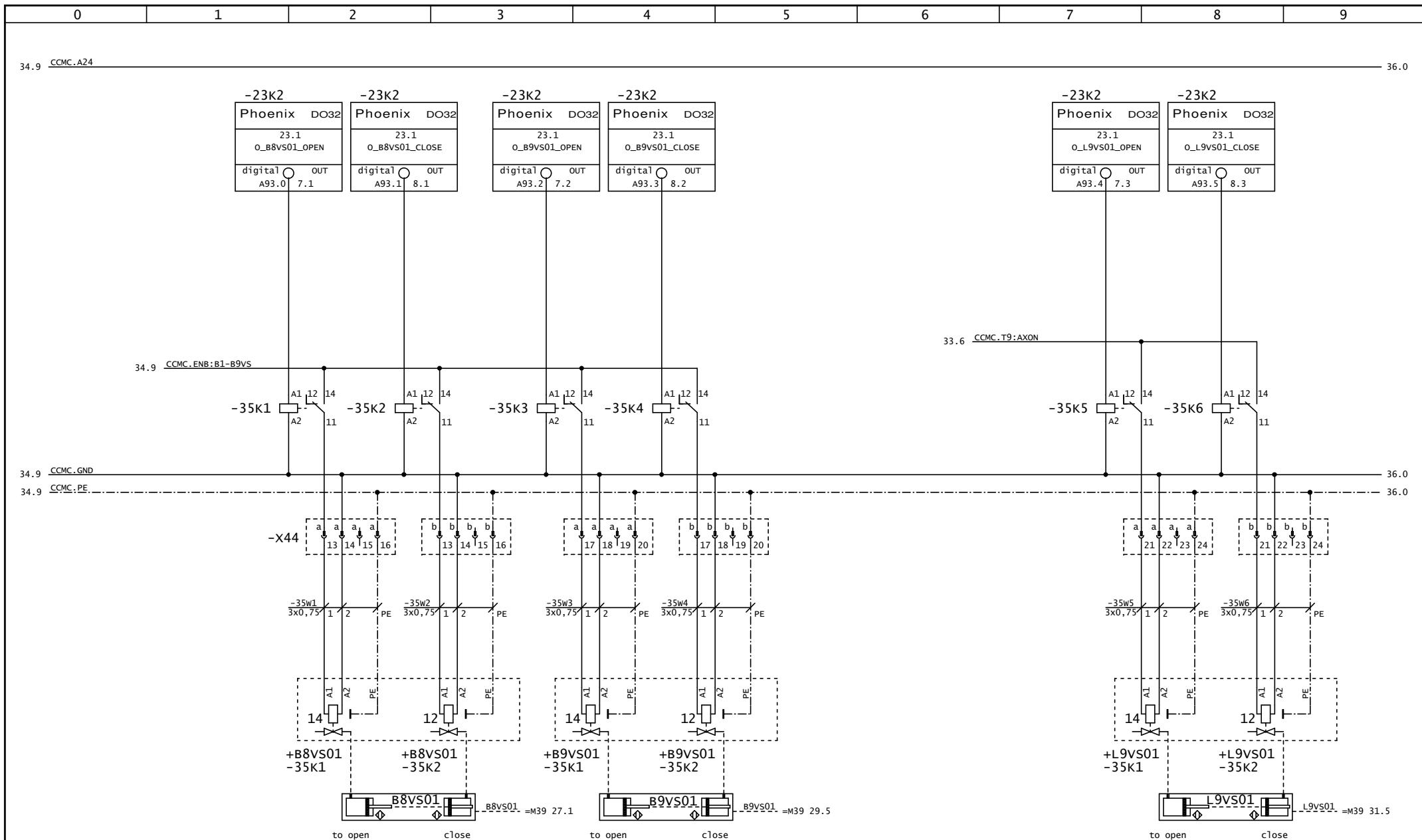


				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	transport enabling main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 33	of 47	
cond.	alter.	date	name	norm					< 32	34 >	

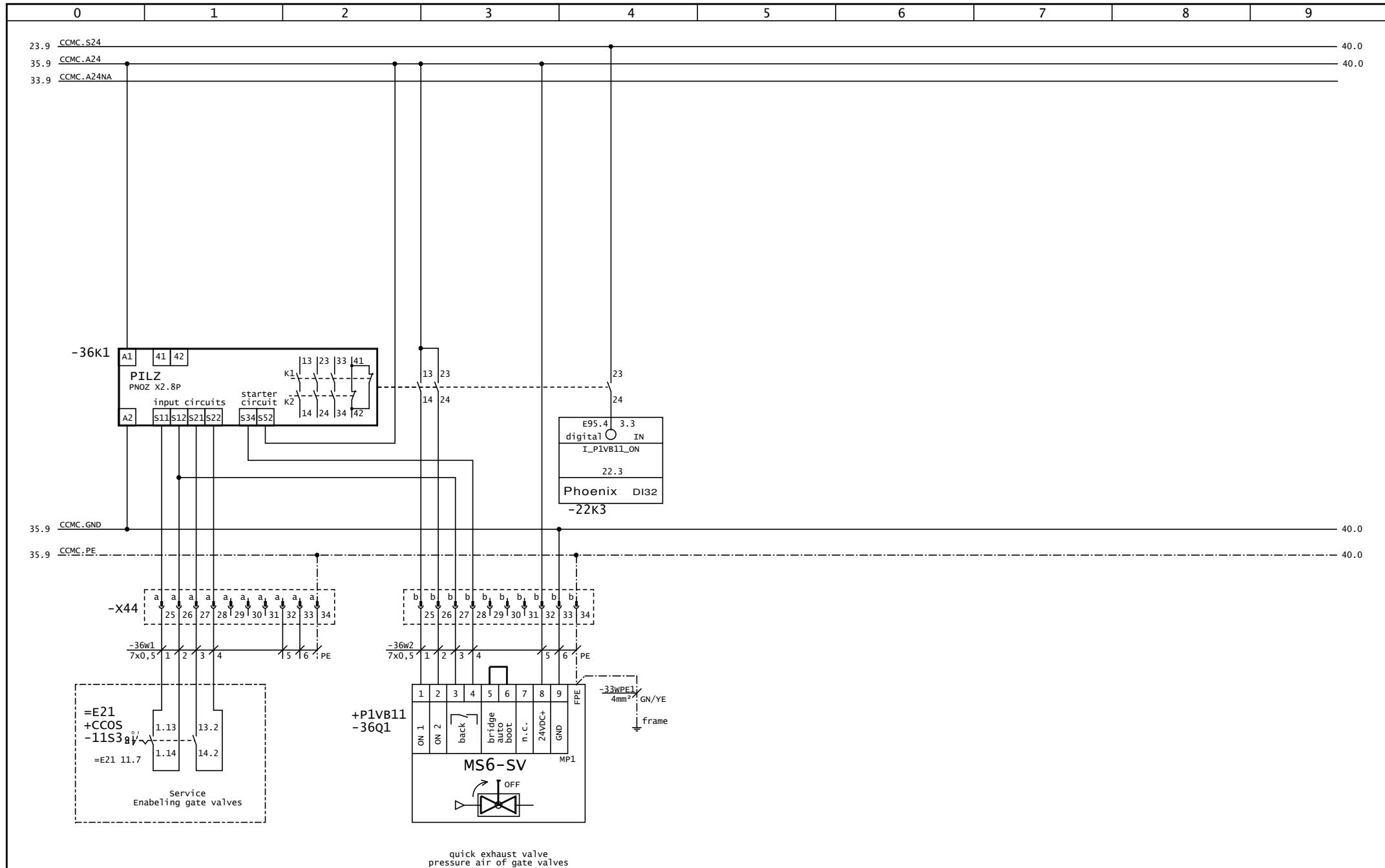
0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	gate valves main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 34	of 47	
cond.	alter.	date	name	norm					< 33	35 >	



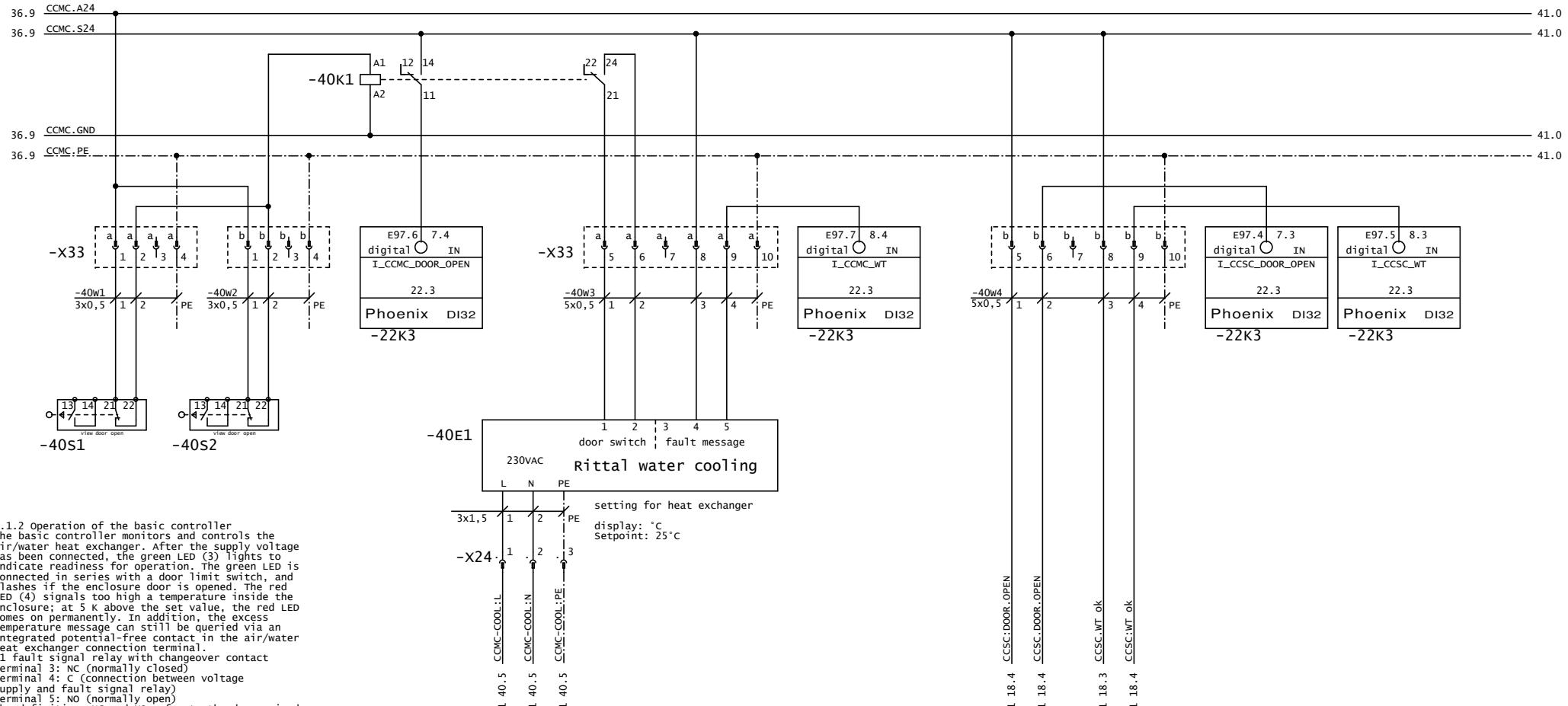
				date	12/05	A1500V-7 iznO_AZ0		gate valves main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 35	of 47	
cond.	alter.	date	name	norm				circuit diagram			< 34 36 >



0	1	2	3	4	5	6	7	8	9
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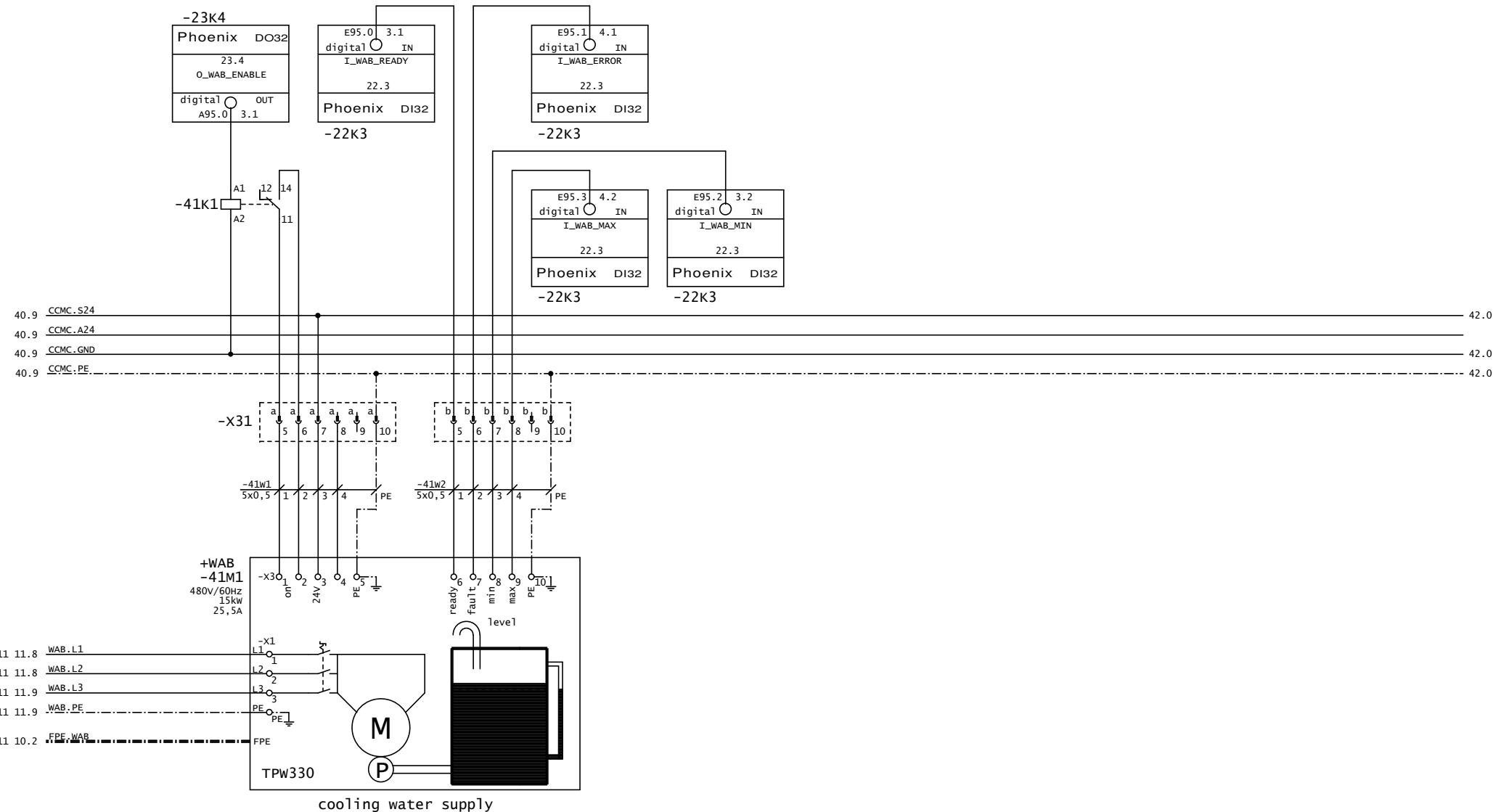
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	-	main control	388-810000	P/005388	=D21
				devel.	Henker					+CCMC		
				check						sheet 37 of 47		
cond.	alter.	date	name	norm						< 36	40 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 izn0_AZ0		control cabinet cooling main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 40	of 47	
cond.	alter.	date	name	norm					< 37	41 >	

0	1	2	3	4	5	6	7	8	9
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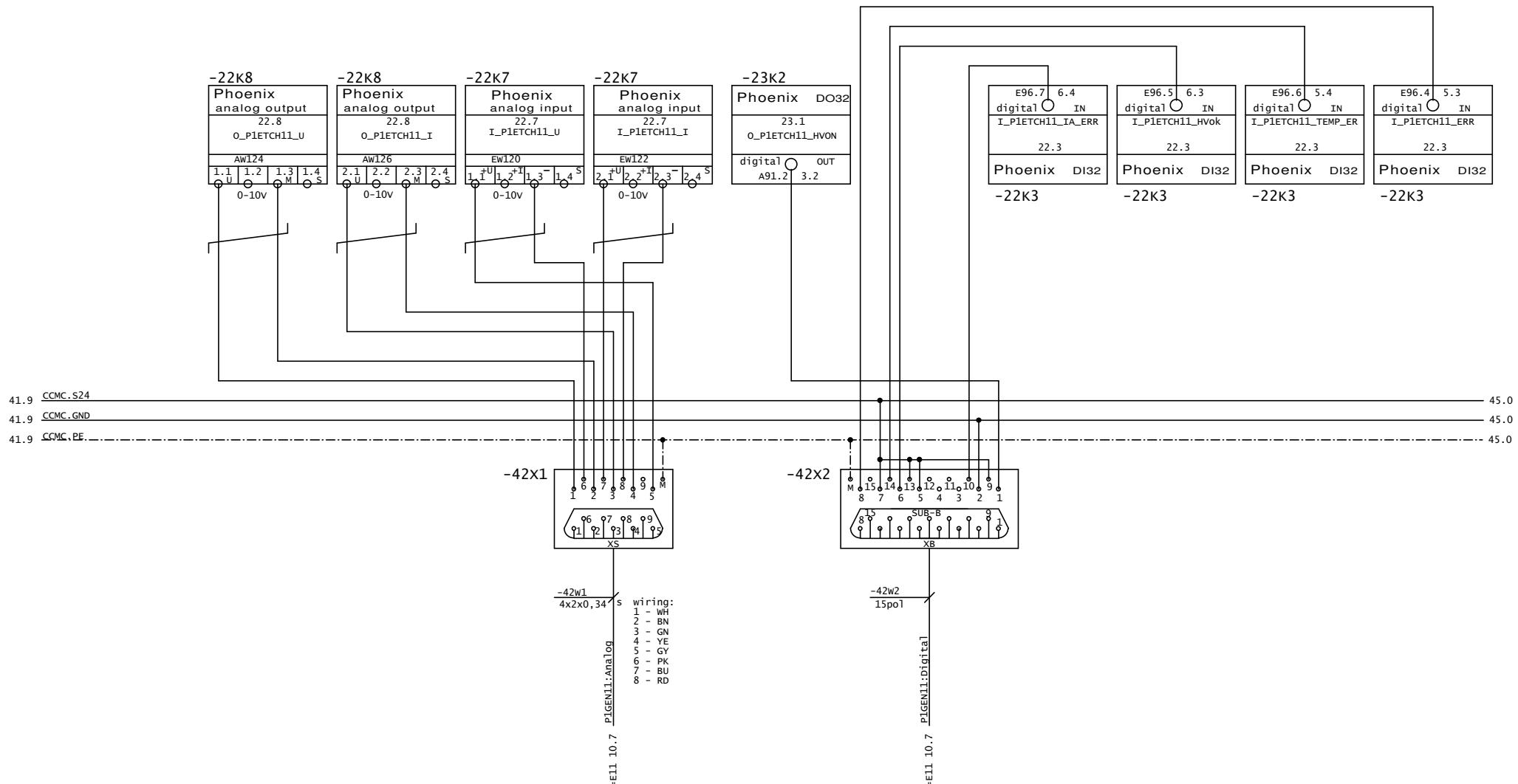


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	cooling water station main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 41	of 47	
cond.	alter.	date	name	norm					< 40		42 >

0	1	2	3	4	5	6	7	8	9
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Schnittstellen mit Geräteanleitung abgeglichen

13.06.12 Ketschau



				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	HV-Generatoransteuerung main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 42	of 47	
cond.	alter.	date	name	norm					< 41	43 >	

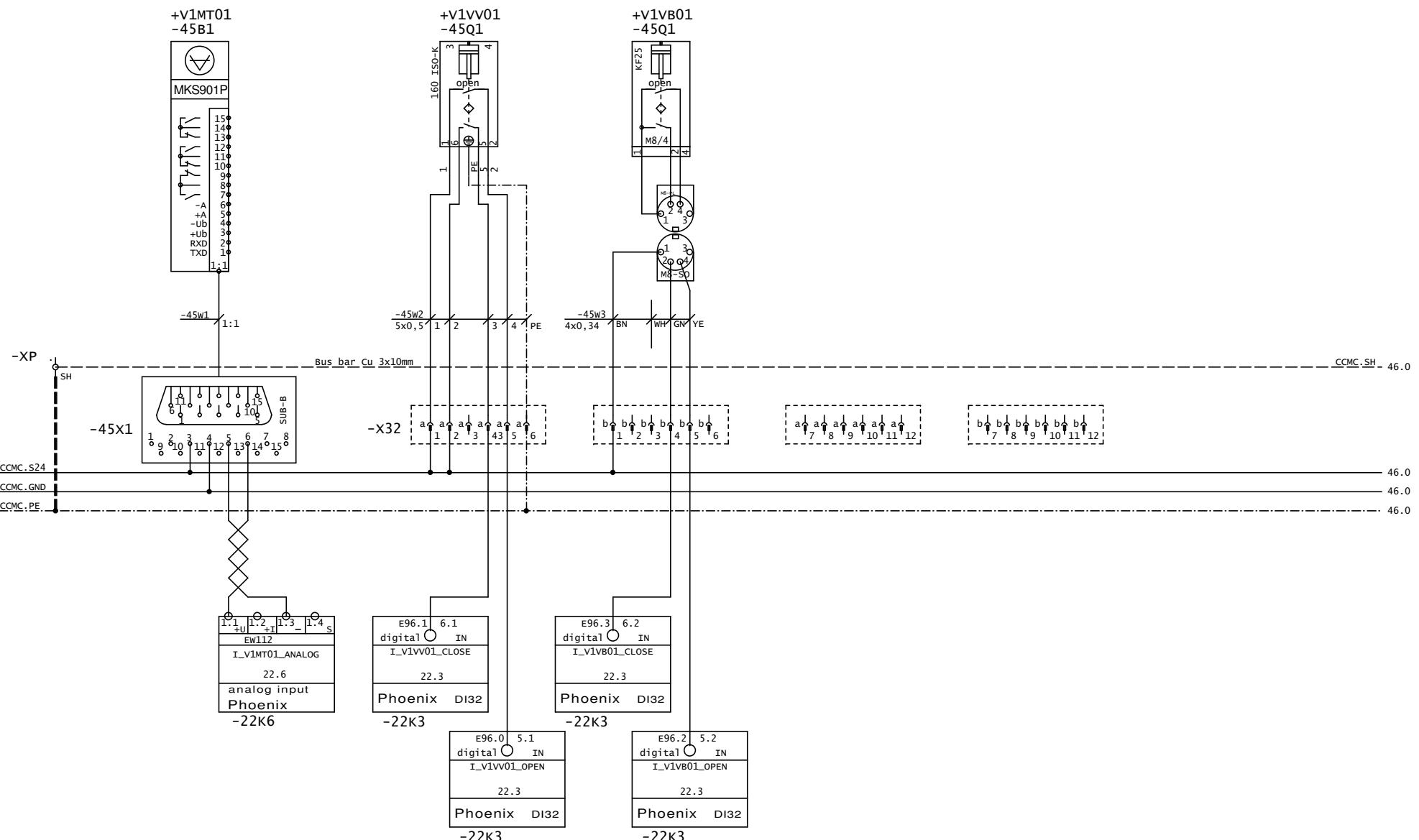
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	-	main control	388-810000	P/005388	=D21
				devel.	Henker					+CCMC		
				check						sheet 43	of 47	
cond.	alter.	date	name	norm						< 42	44 >	

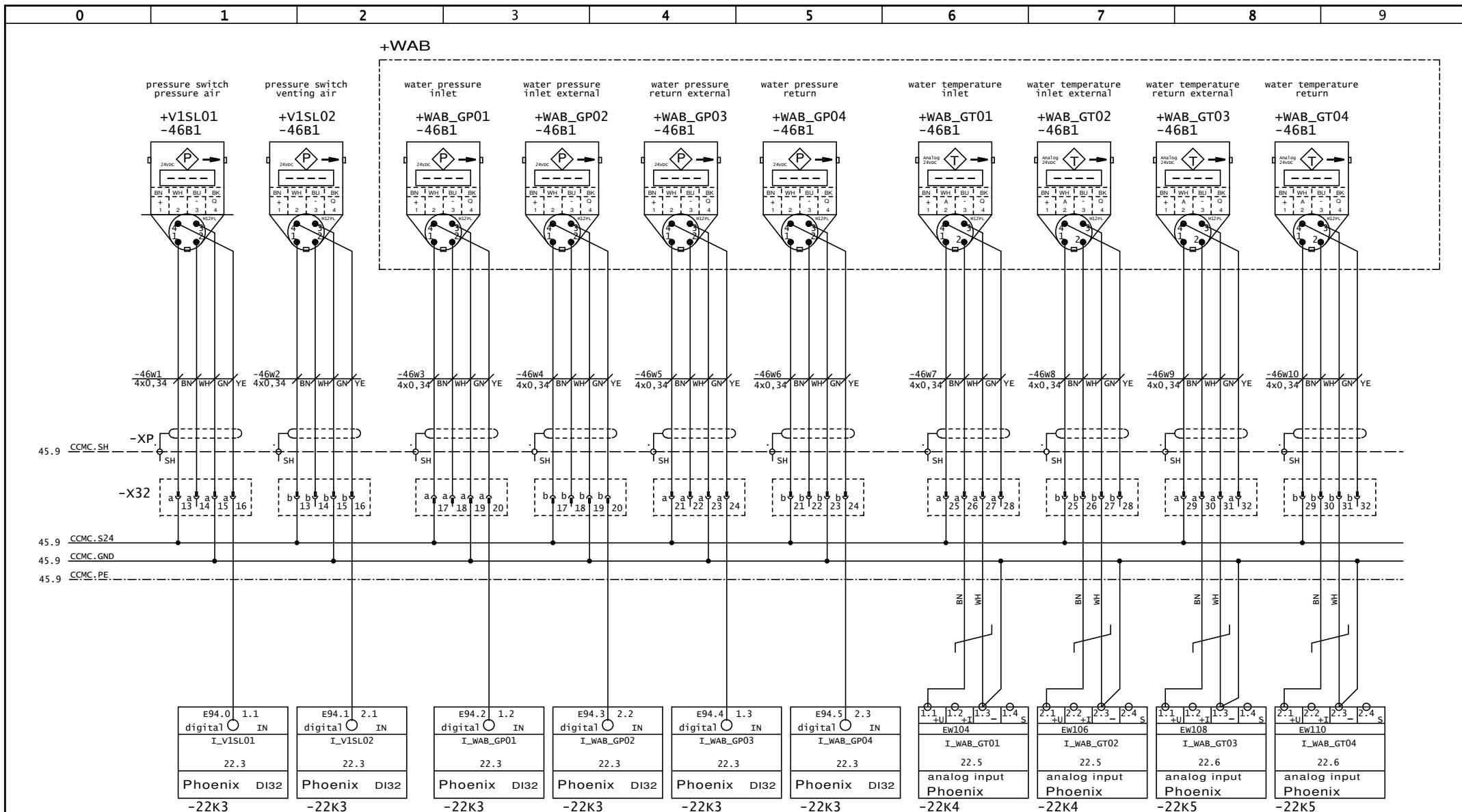
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	-	main control	388-810000	P/005388	=D21
				devel.	Henker					+CCMC		
				check						sheet 44	of 47	
cond.	alter.	date	name	norm						< 43	45 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 izn0_AZ0	<b>LEYBOLD OPTICS</b>	sensors, measurements - vaccum main control	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 45	of 47	
cond.	alter.	date	name	norm					< 44	46 >	



				date	12/05	A1500V-7 iznO_AZ0		sensors comp. air/ cooling water (WAB)	388-810000	P/005388	=D21
				devel.	Henker				+CCMC		
				check					sheet 46	of 47	
cond.	alter.	date	name	norm					< 45		47 >

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

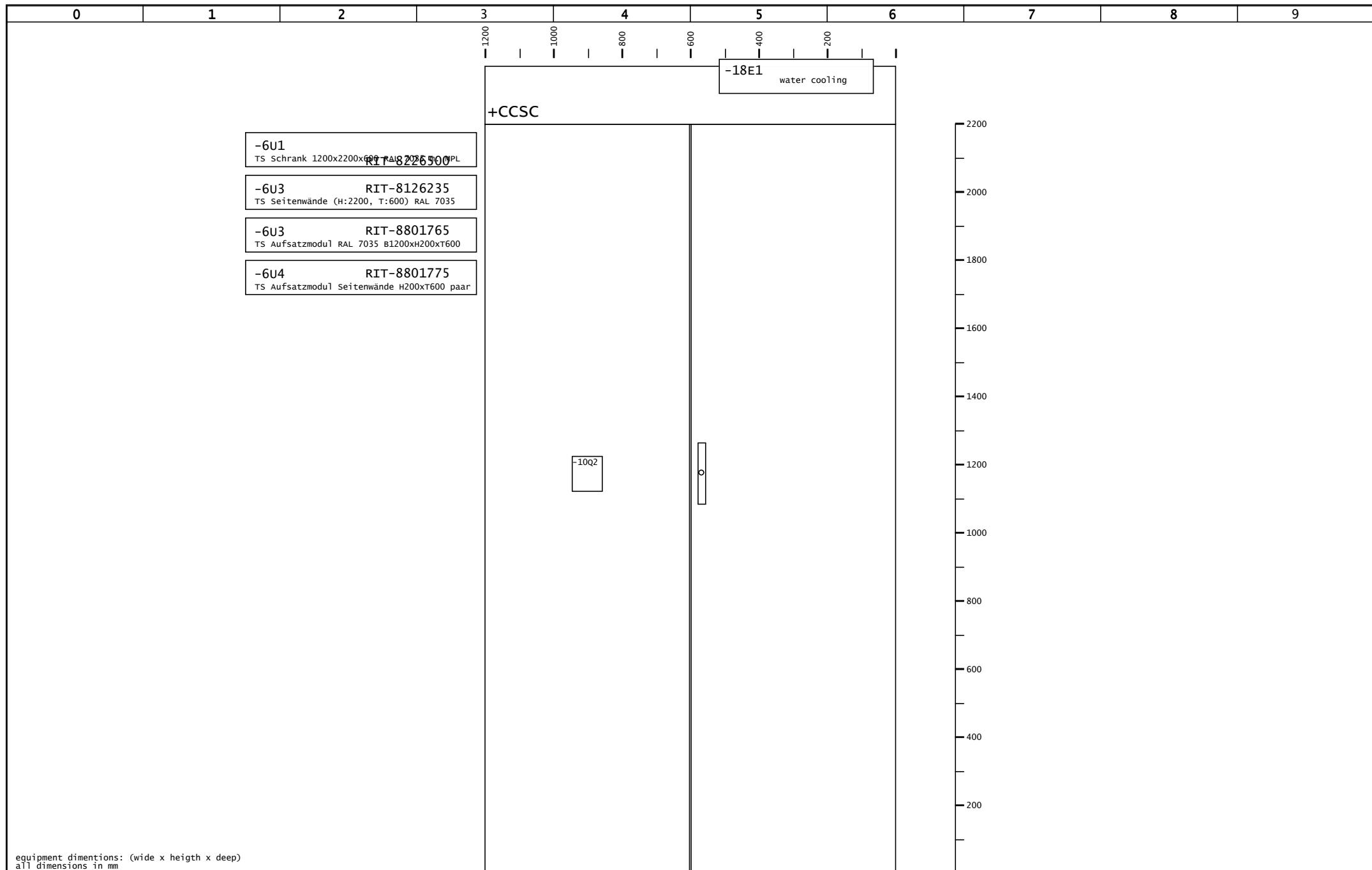
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	-	main control	388-810000	P/005388	=D21
				devel.	Henker					+CCMC		
				check						sheet 47 of 47		
cond.	alter.	date	name	norm						< 46	=E01/6 >	

# partial arrangement:

## =E01

### servo controller

machine number:	011003	year of manufacture:	>
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000

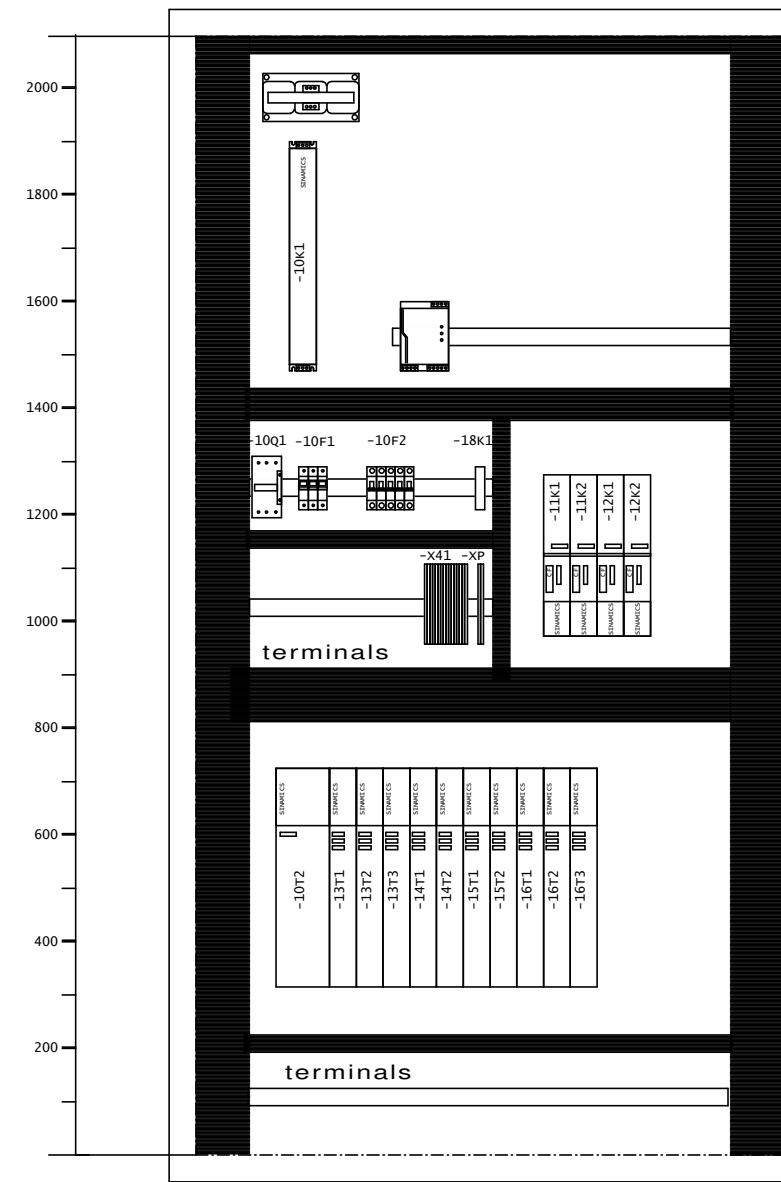


					date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	layout outside	388-810000	P/005388	=E01
					devel.	Henker						+CCSC
					check							sheet 6 of 18
cond.	alter.	date	name	norm								<=D21/47 7 >

0            1            2            3            4            5            6            7            8            9



+CCS



22

				date	12/05
				devel.	Henker
				check	
cond.	alter.	date	name	norm	

A1500v-7 izno\_AZC



LEYBOLD OPTICS

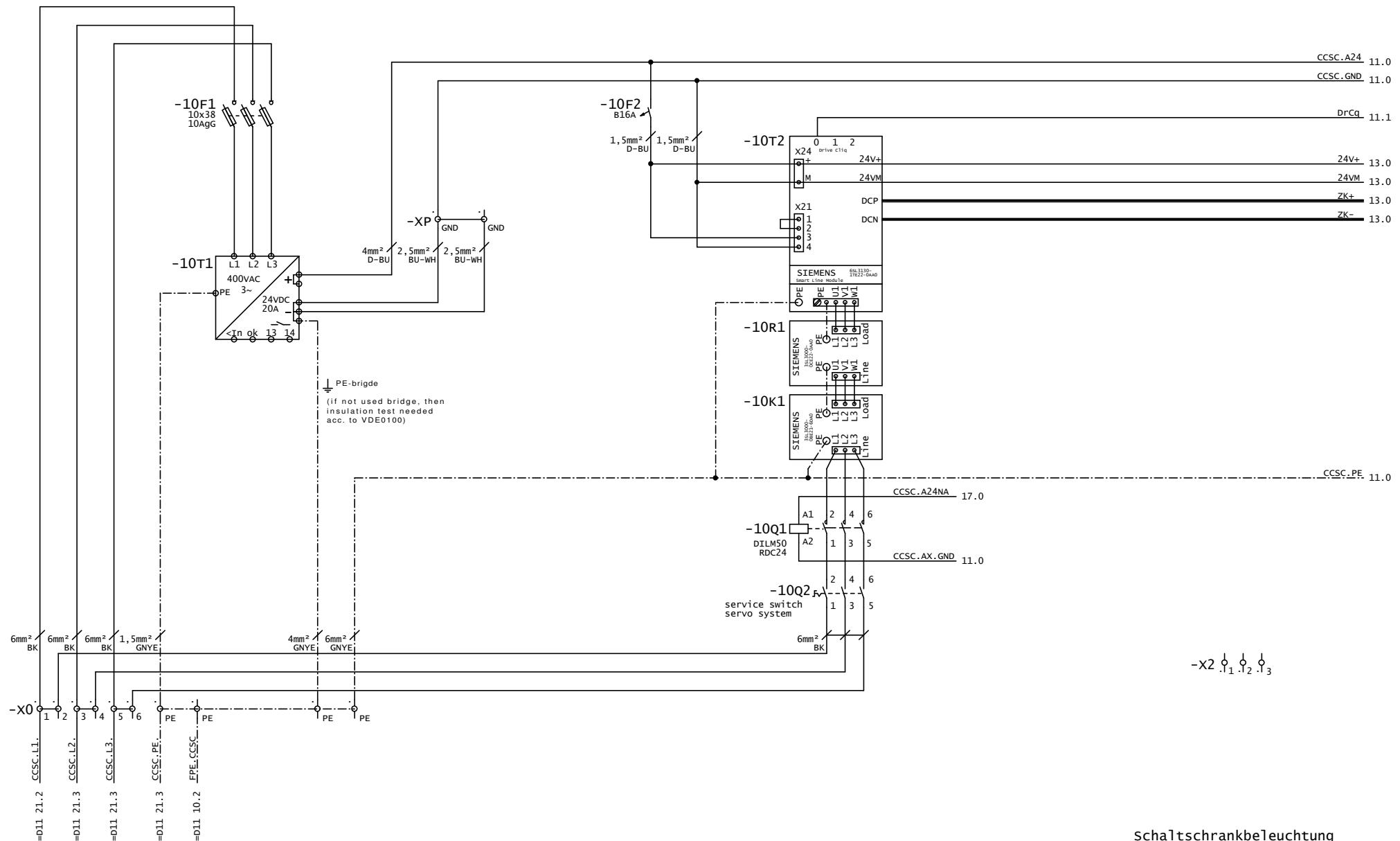
mounting plate

388-810000

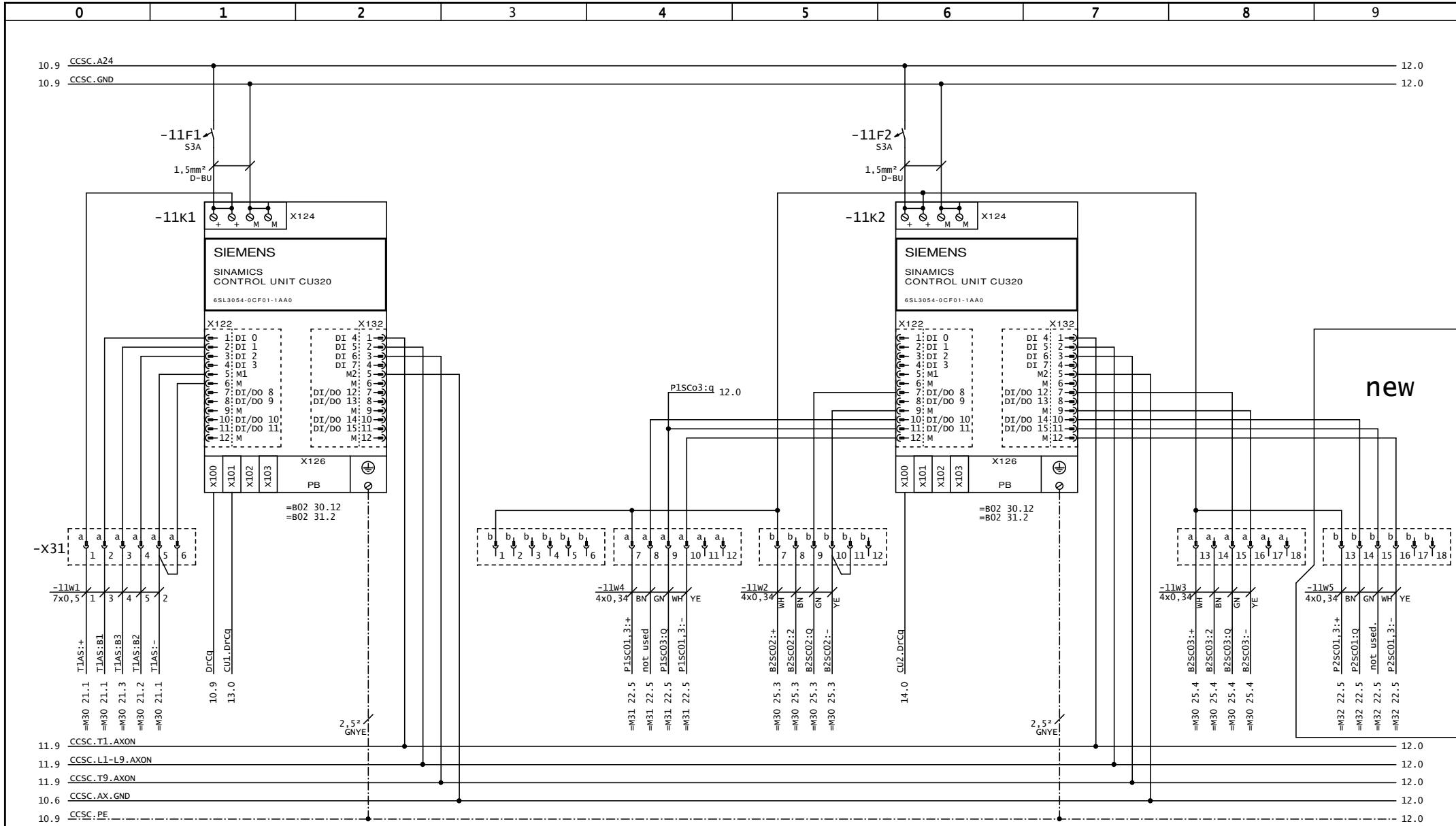
P/005388

	=E01
	+CCSC
sheet 7	of 18
< 6	10 >

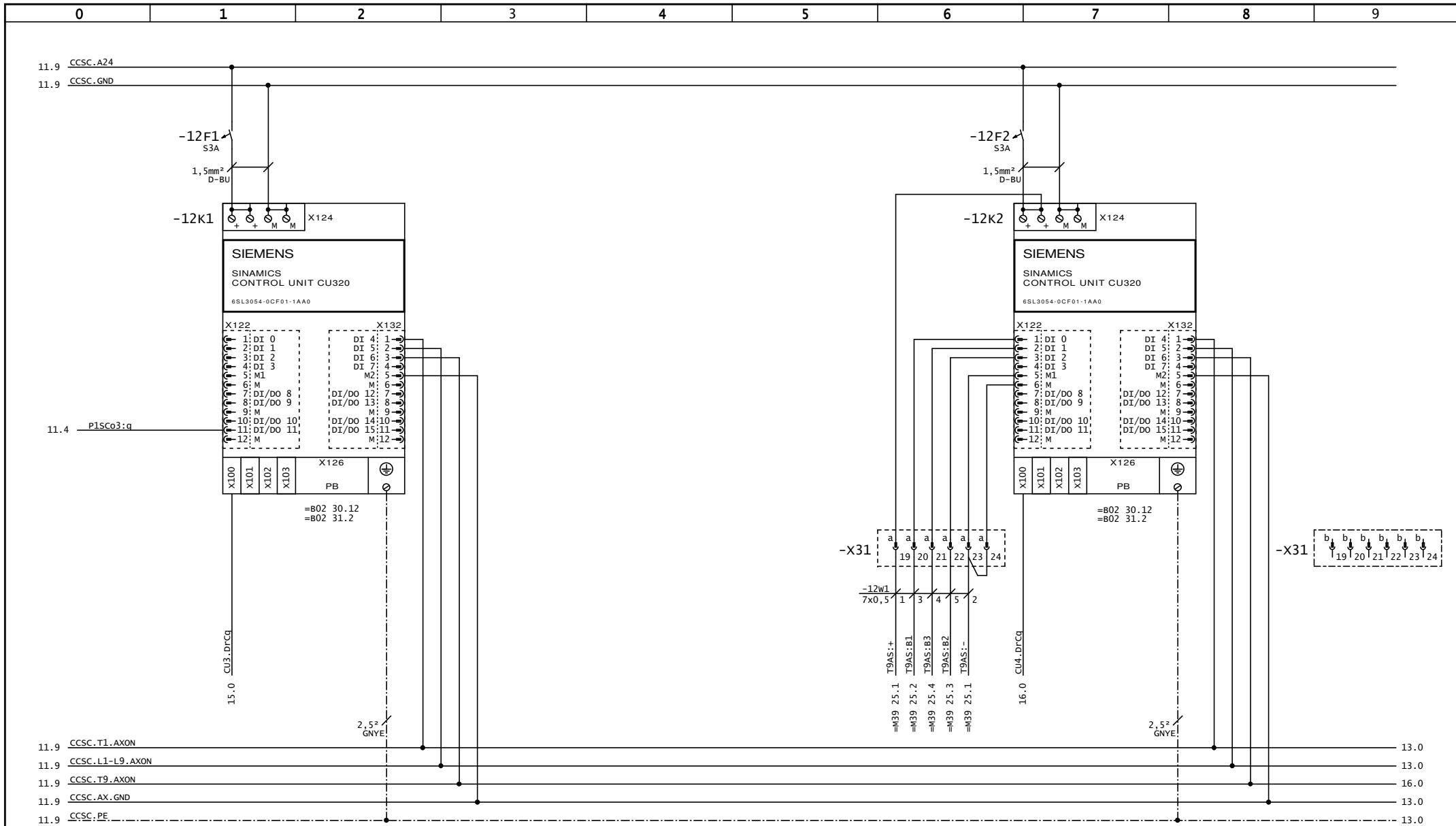
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				date	12/05	A1500V-7 iznO_AZ0		feed-in	388-810000	P/005388	=E01
				devel.	Henker						+CCSC
				check							sheet 10 of 18
cond.	alter.	date	name	norm							< 7 11 >

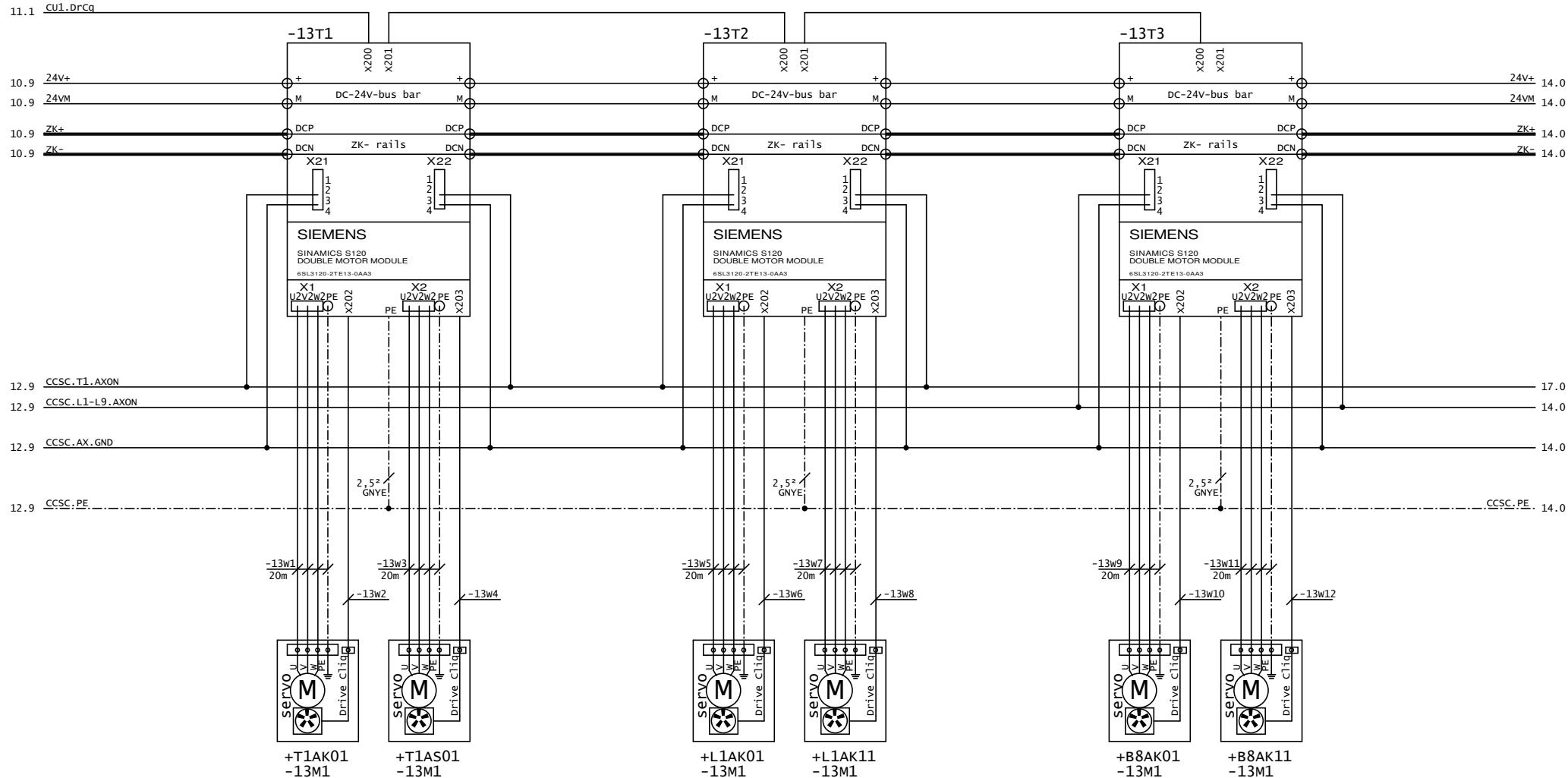


				date	12/05	A1500V-7 izn0_AZ0		servo drives Control Units	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check					sheet 11	of 18	
cond.	alter.	date	name	norm				circuit diagram	< 10	12 >	



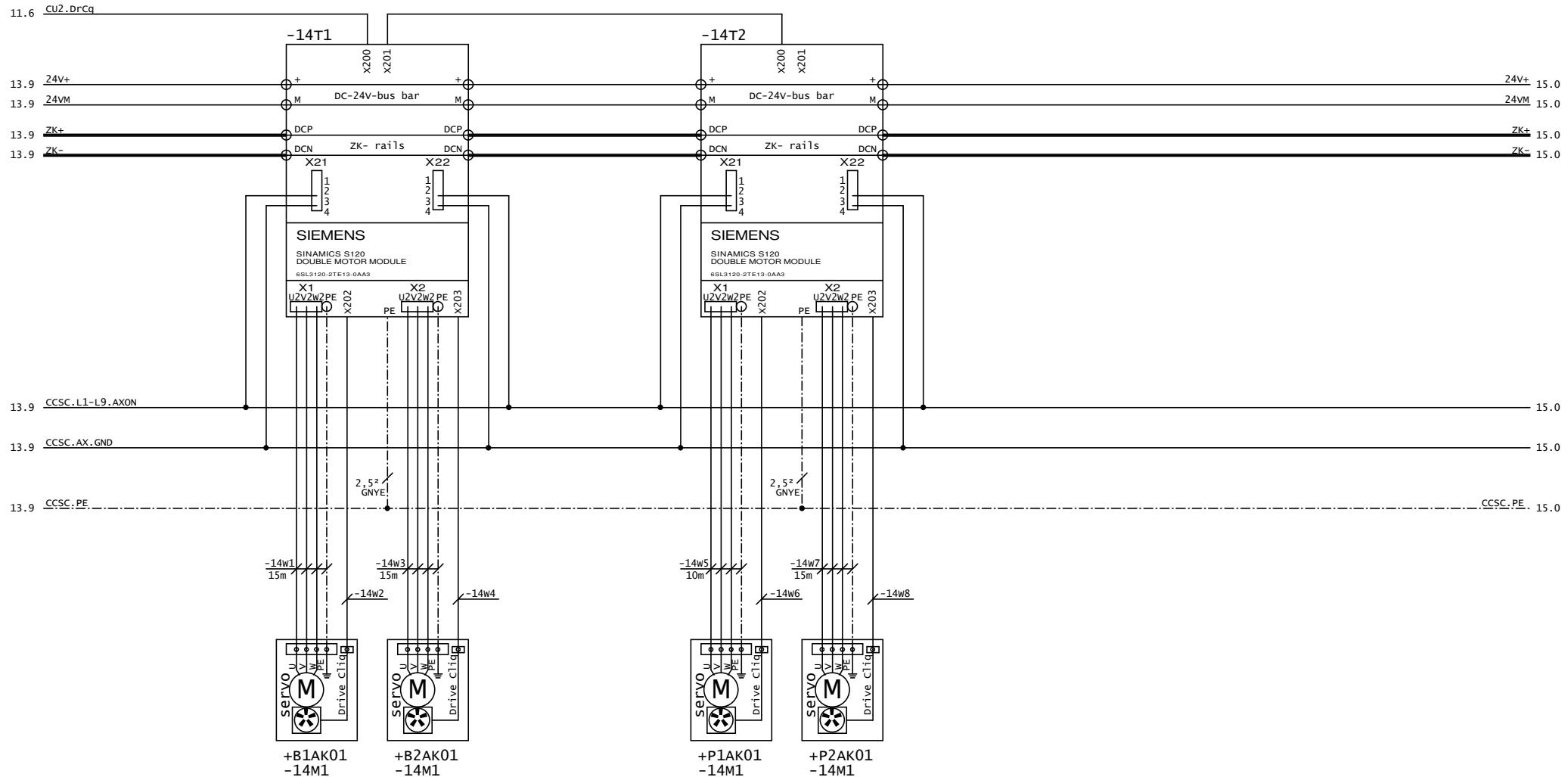
				date	12/05	A1500V-7 izn0_AZ0		servo drives Control Units	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check						sheet 12	of 18
cond.	alter.	date	name	norm					circuit diagram	< 11	13 >

0	1	2	3	4	5	6	7	8	9
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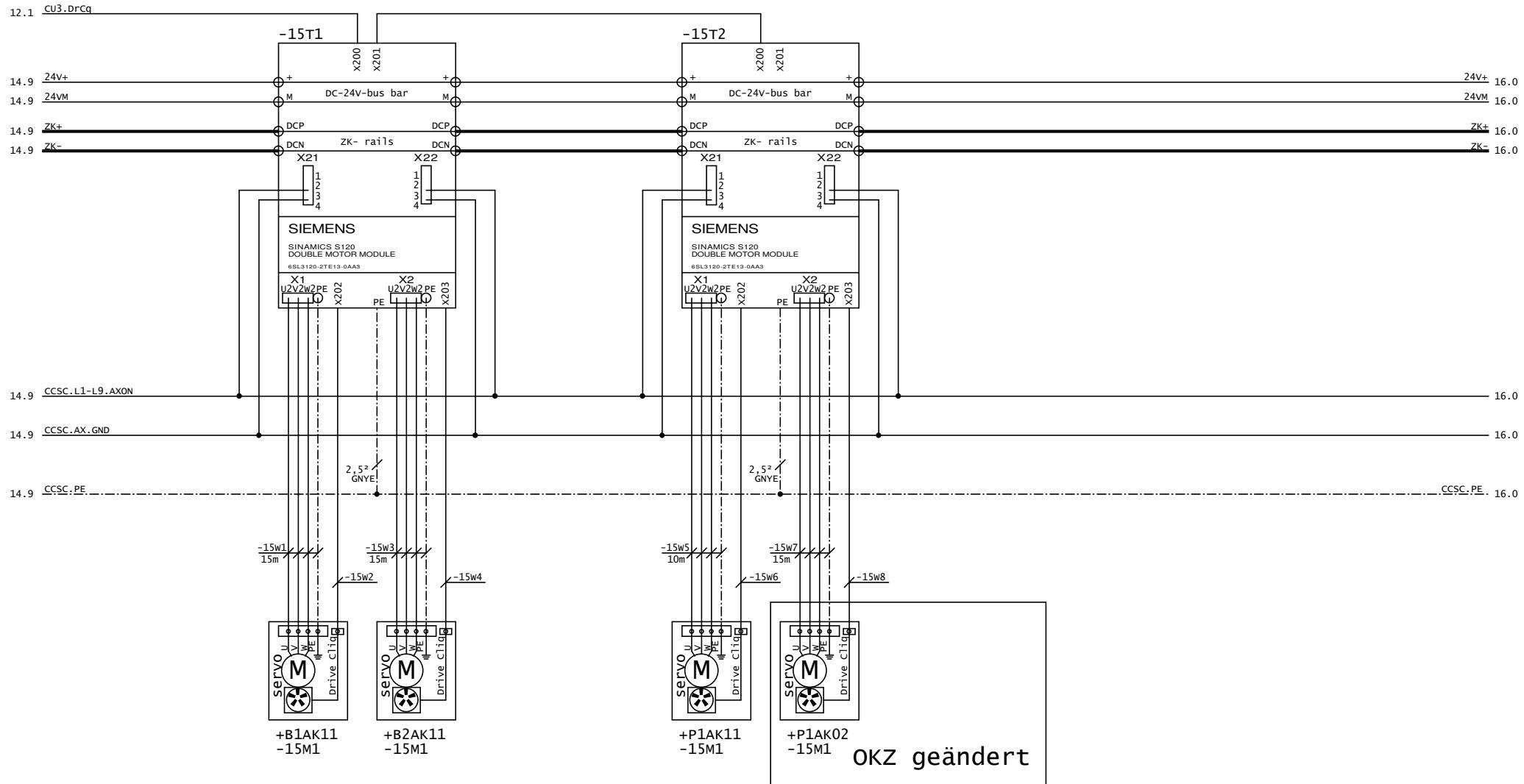
				date	12/05	A1500V-7 iznO_AZ0		servo drives Motormodule	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check					sheet 13	of 18	
cond.	alter.	date	name	norm					< 12	14 >	

0	1	2	3	4	5	6	7	8	9
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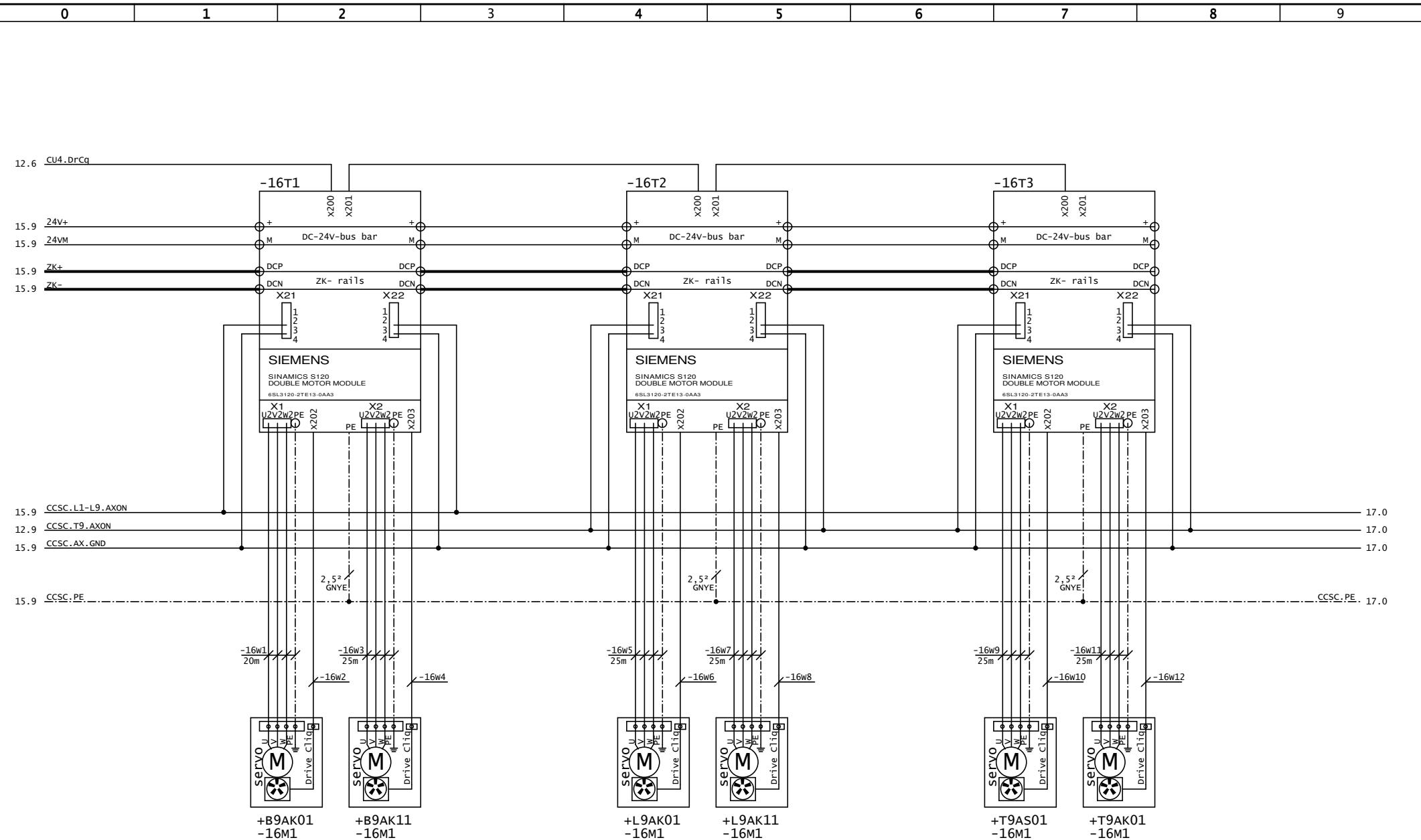


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	servo drives Motormodule	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check						sheet 14	of 18
cond.	alter.	date	name	norm					circuit diagram	< 13	15 >

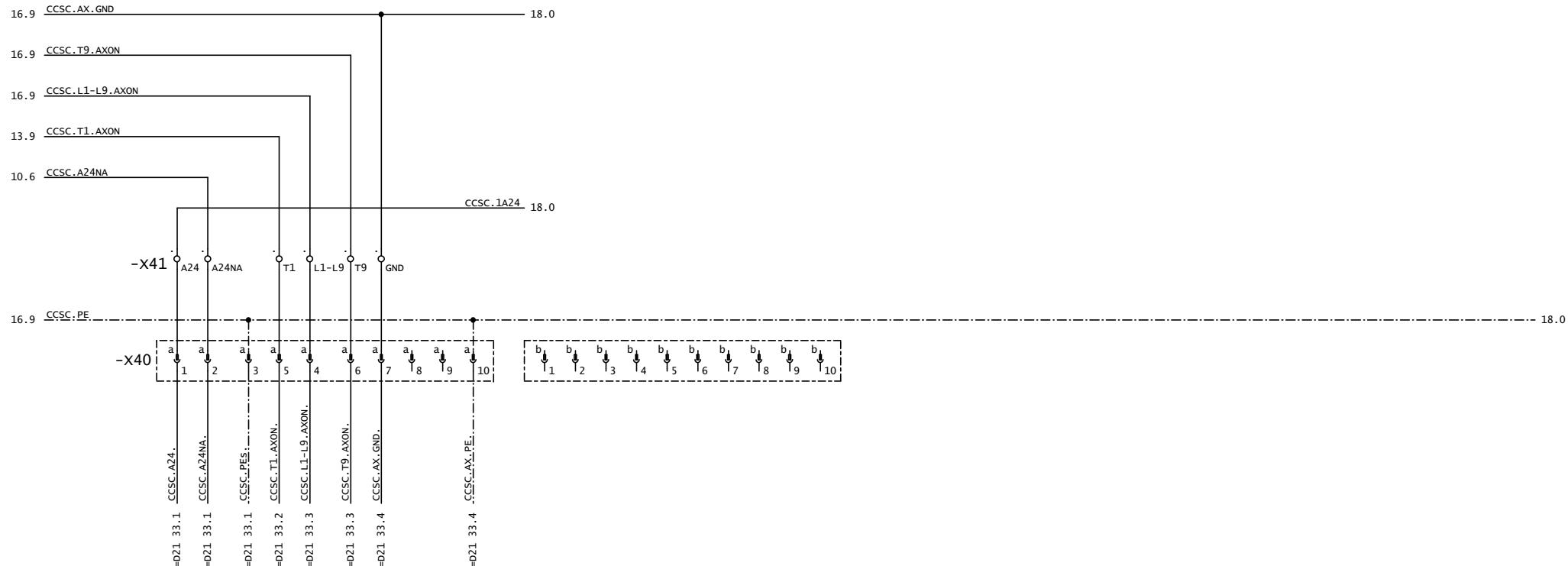
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	servo drives Motormodule	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check					sheet 15	of 18	
cond.	alter.	date	name	norm					< 14	16 >	

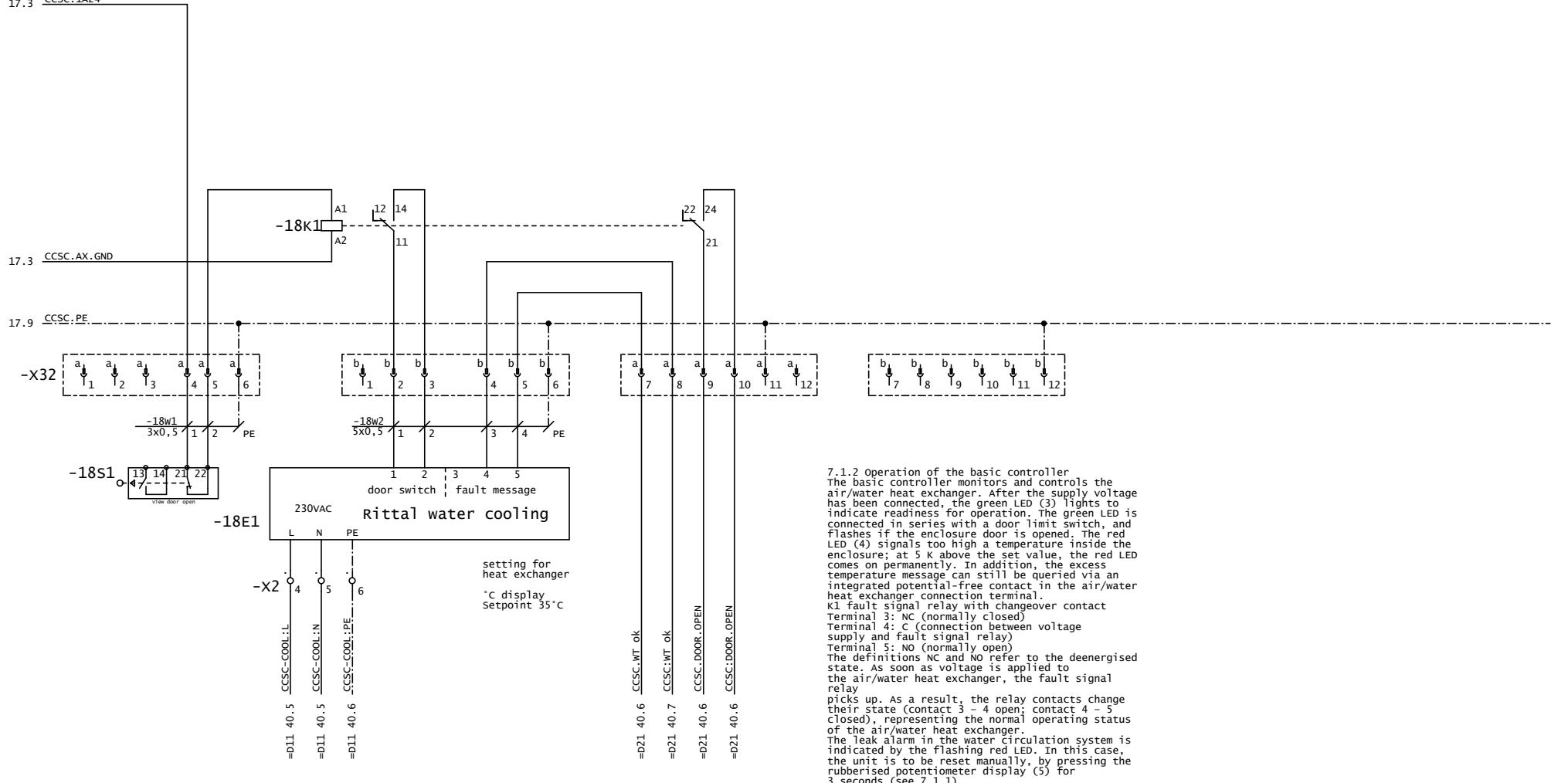


0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEIBOLD OPTICS	enabling	388-810000	P/005388	=E01
				devel.	Henker				+CCSC		
				check					sheet 17	of 18	
cond.	alter.	date	name	norm					< 16	18 >	

0	1	2	3	4	5	6	7	8	9
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17.3 CCSC.1A24

				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	cabinet cooling	388-810000	P/005388	=E01
				devel.	Henker				+CCSC	sheet 18	of 18
				check						< 17	=E11/6 >

partial arrangement:  
=E11

## process devices

machine number : 011003	year of manufacture : 2010
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16      E-Mail: <a href="mailto:info.dresden@leyboldoptics.com">info.dresden@leyboldoptics.com</a> fax : +49 351 86695 42	remark :  made with CAD-system: WSCAD 55

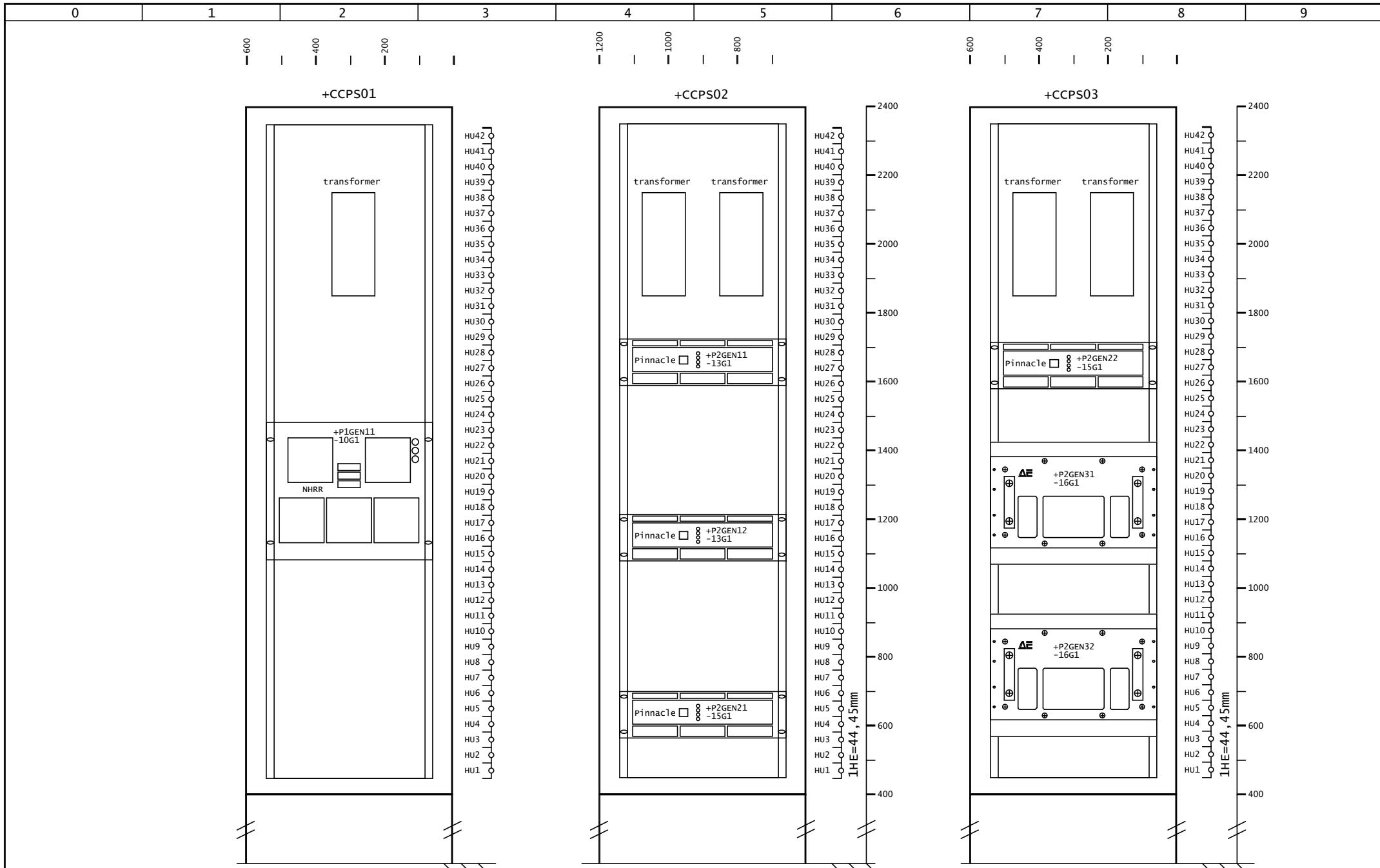
general safety rules to  
operate  
the generators

generators carries high voltage



## 5 safety rules before work

- disconnect from mains
  - assure against re-start
  - establish the exemption from voltage
  - earthing and short-circuit
  - covers or restrict access to contiguous parts that carrys voltage



				date	12/05
				devel.	Henker
				check	
cond.	alter.	date	name	norm	

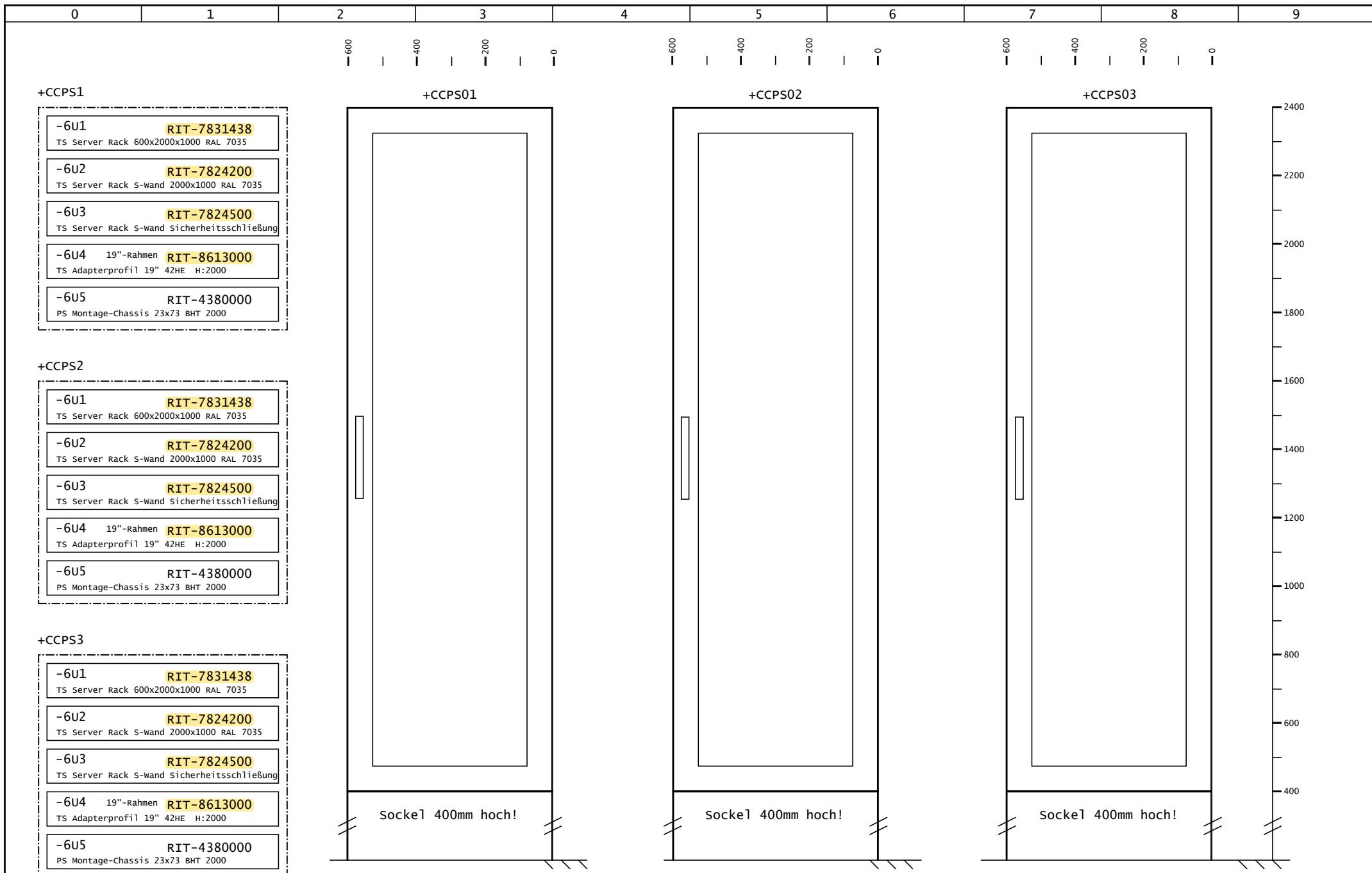
A1500V-7 iznO\_AZ0

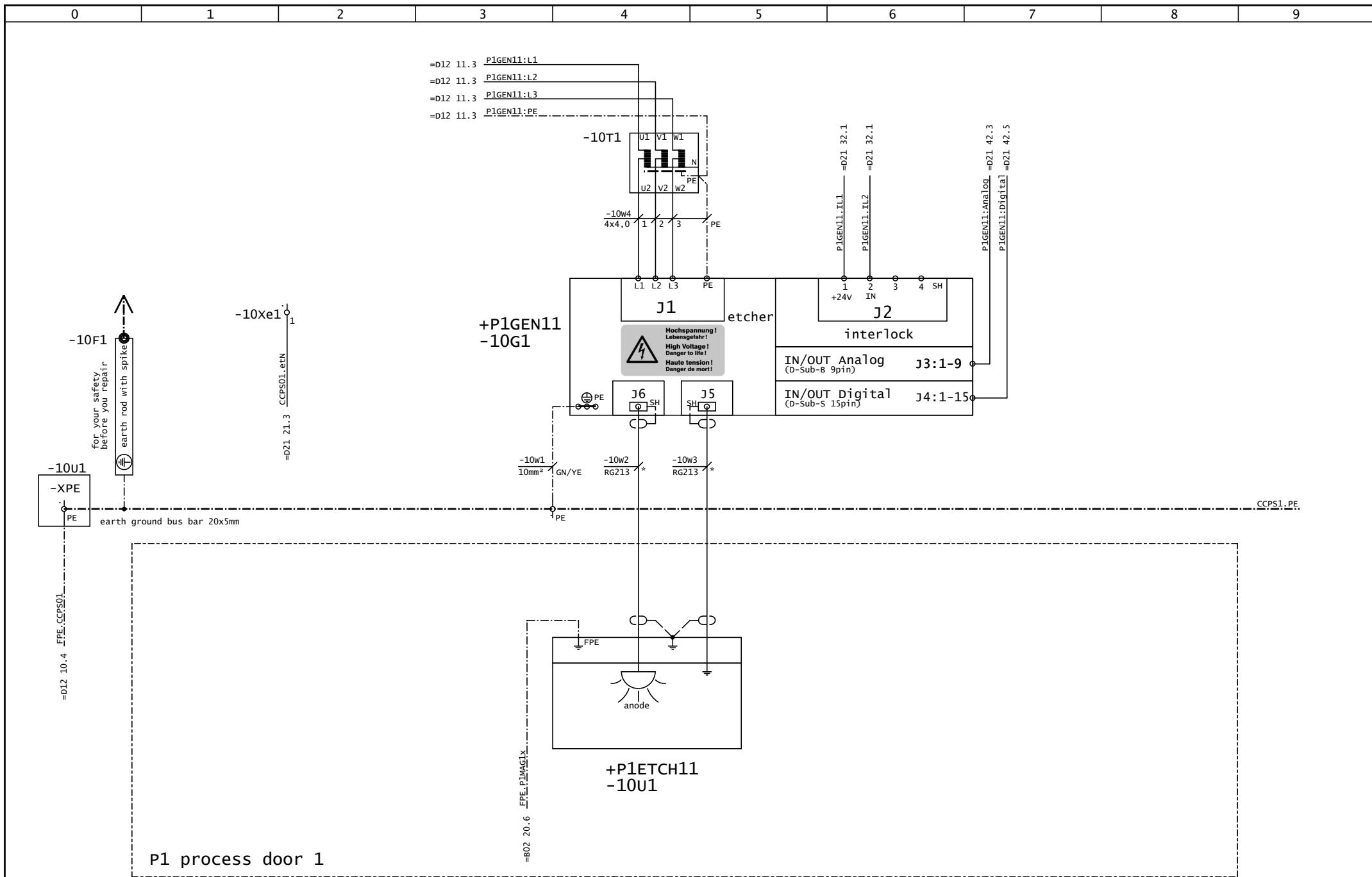
front view of cabinets  
process equip. cabinets

388-810000

P/005388

=E11  
+CCPS  
sheet 7 of 16  
< 6 10 >

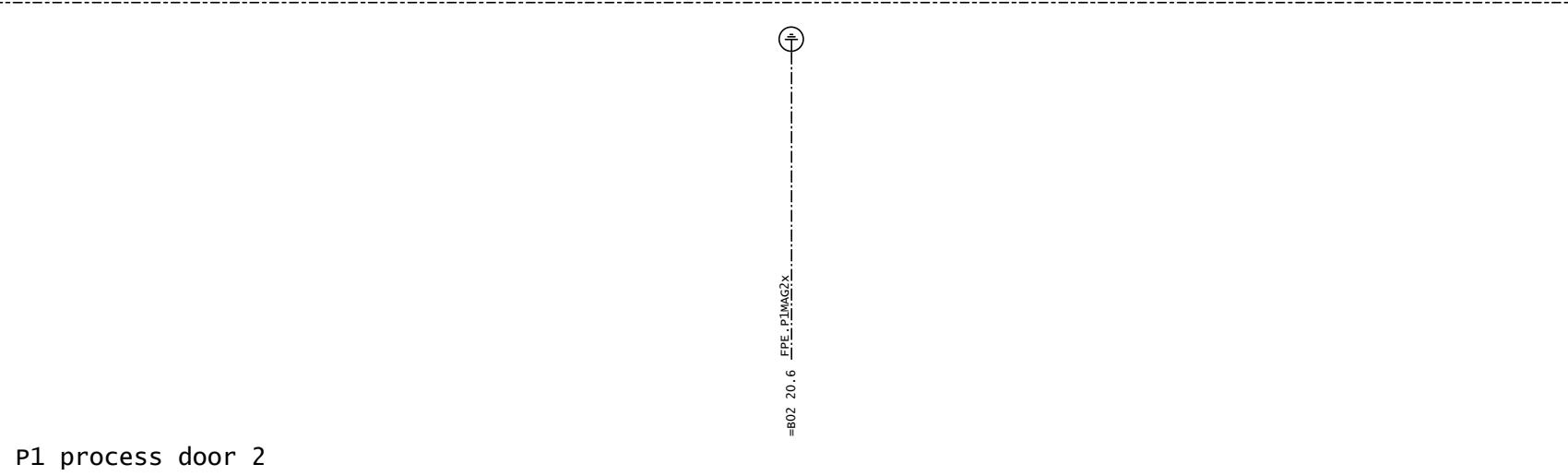




				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	+P1GEN11	388-810000	P/005388	=E11
				devel.	Henker			+P1ETCH11	+CCPS01		
				check					sheet 10	of 16	
cond.	alter.	date	name	norm					< 7		11 >

0	1	2	3	4	5	6	7	8	9
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not installed

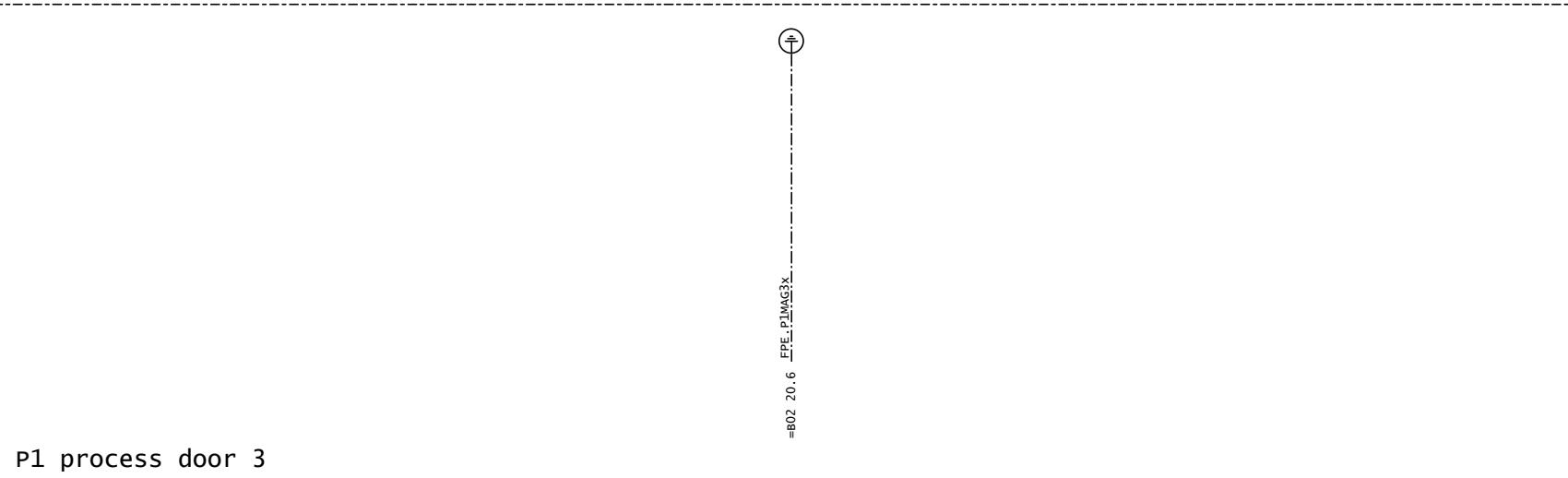


P1 process door 2

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	+P1GEN2x	388-810000	P/005388	=E11
				devel.	Henker				+CCPS01		
				check					sheet 11 of 16		
cond.	alter.	date	name	norm					circuit diagram		< 10 12 >

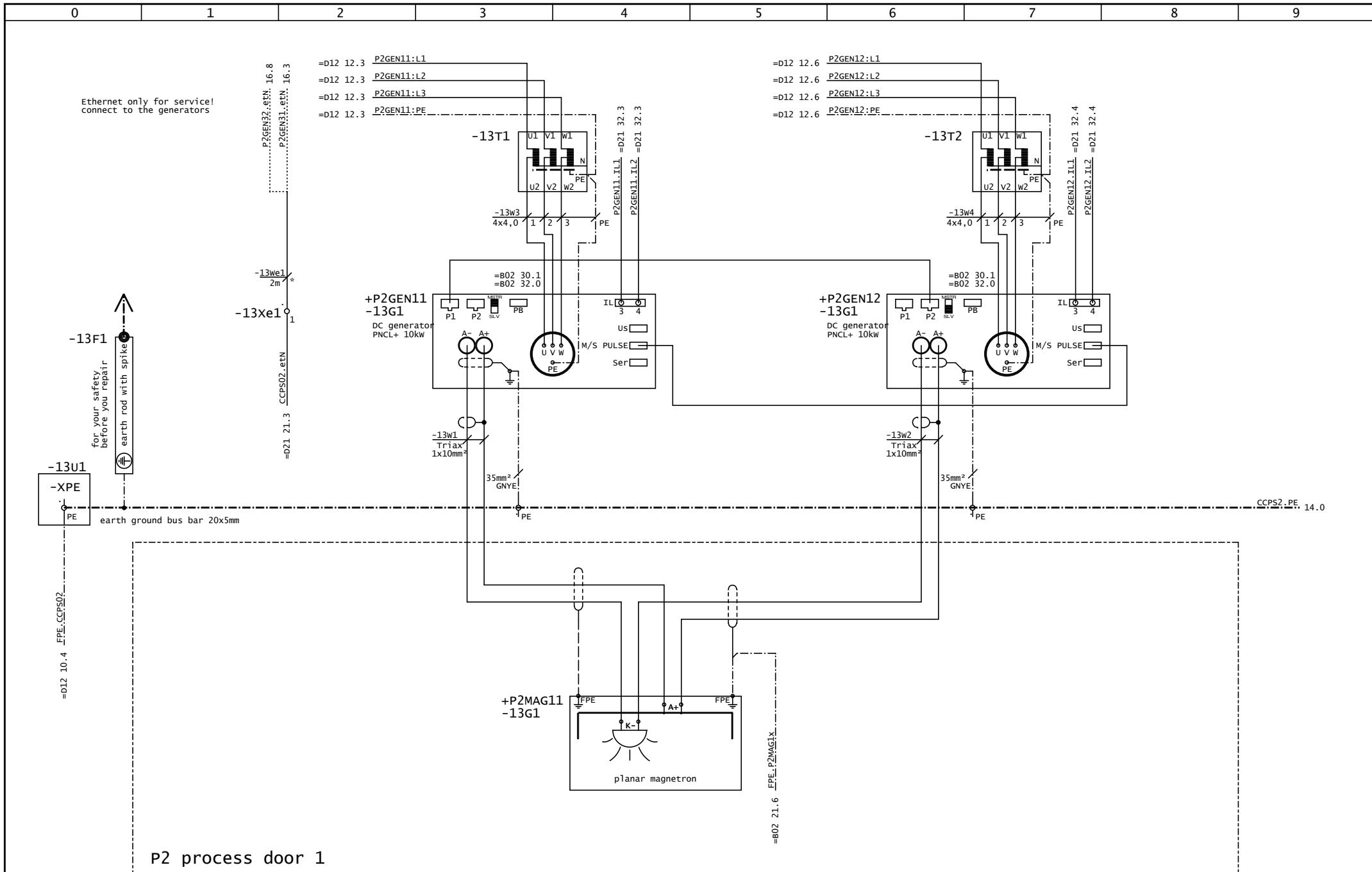
0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

not installed



P1 process door 3

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	+P1GEN3x	388-810000	P/005388	=E11
				devel.	Henker				+CCPS01		
				check					sheet 12 of 16		
cond.	alter.	date	name	norm					circuit diagram		< 11 13 >

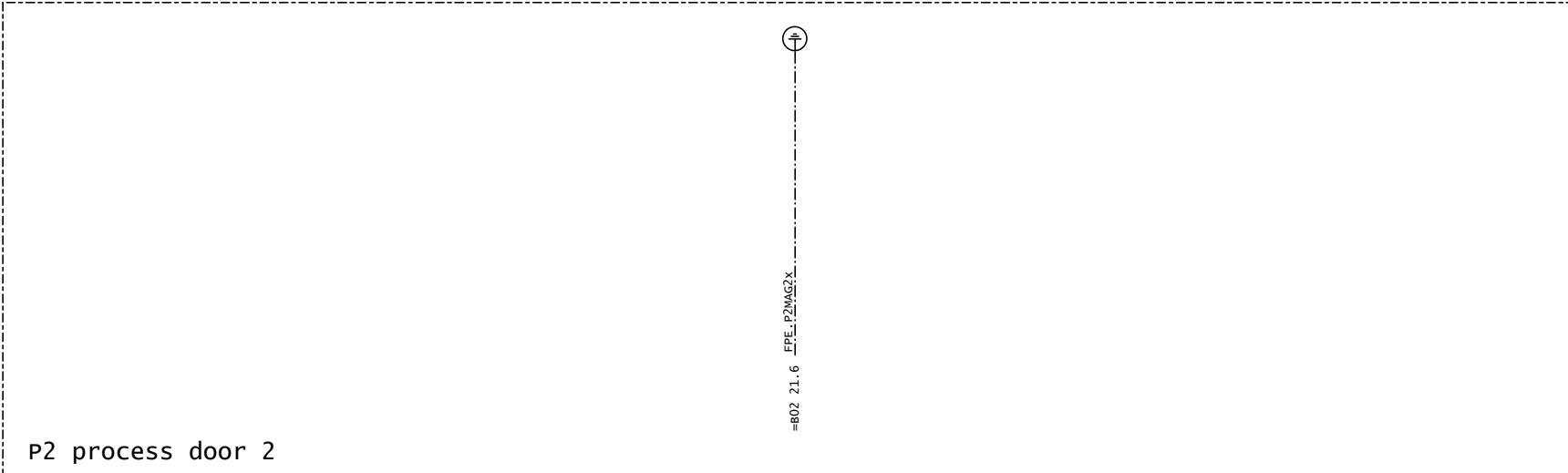


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	+P2GEN11, +P2GEN12 +P2MAG11	388-810000	P/005388	=E11
				devel.	Henker				+CCPS02		
				check					sheet 13	of 16	
cond.	alter.	date	name	norm					< 12	14 >	

0	1	2	3	4	5	6	7	8	9
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not installed

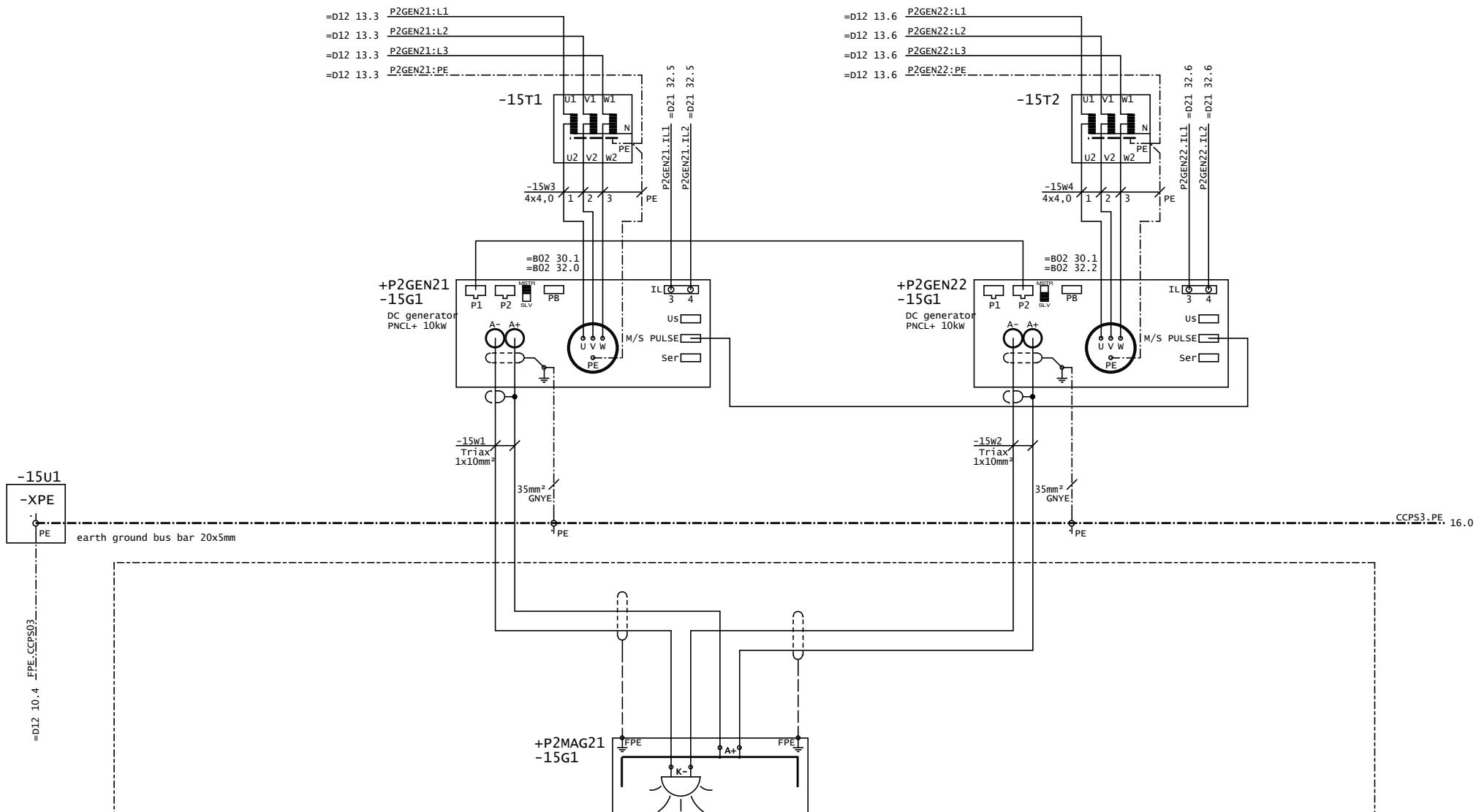
13.9 CCPS2.PE



P2 process door 2

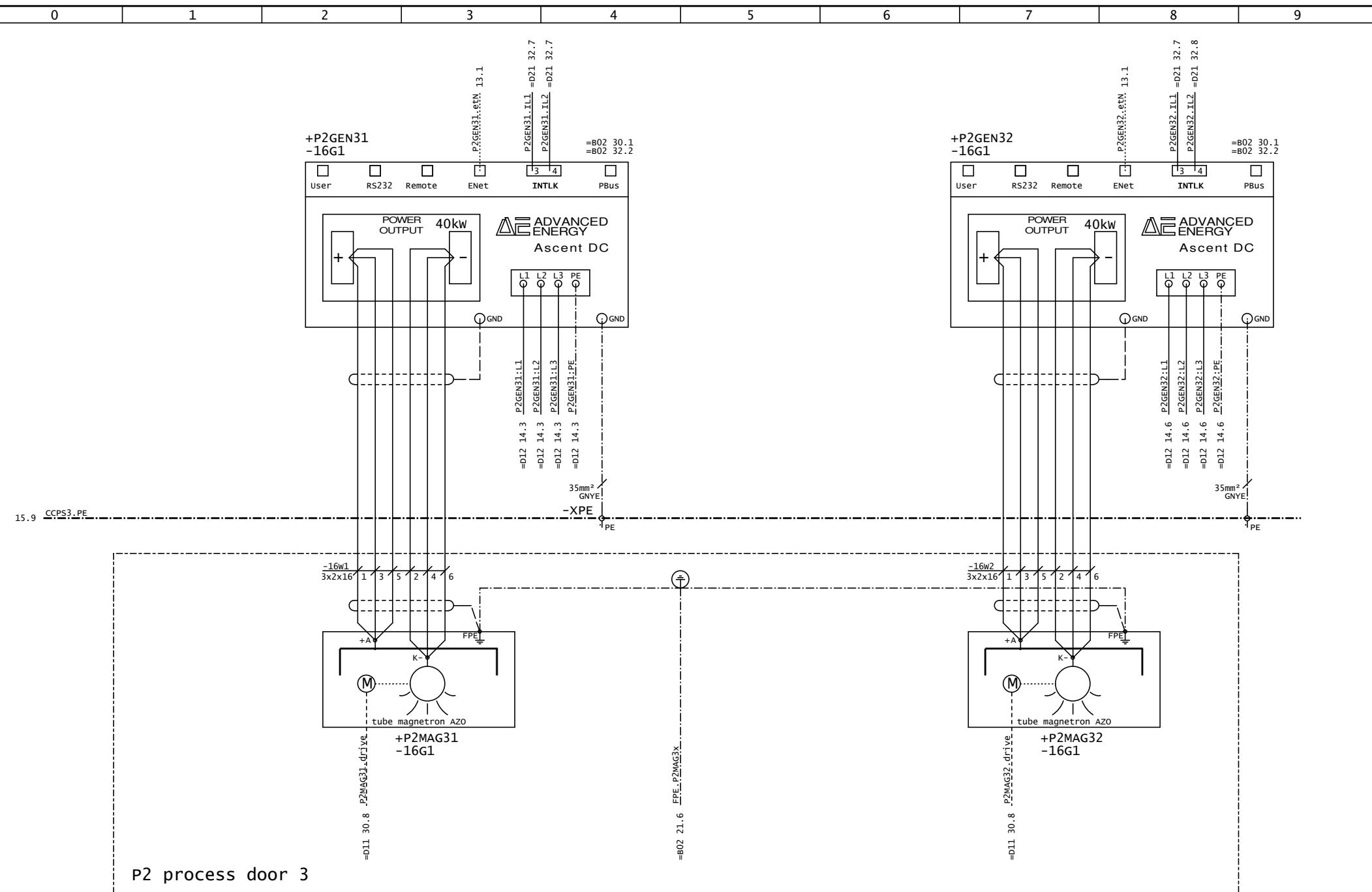
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	earthing +P2MAG21	388-810000	P/005388	=E11
				devel.	Henker				+CCPS02		
				check					sheet 14 of 16		
cond.	alter.	date	name	norm				circuit diagram		< 13	15 >

0	1	2	3	4	5	6	7	8	9
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### P2 process door 2

				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	+P2GEN21, +P2GEN22 +P2MAG21	388-810000	P/005388	=E11
				devel.	Henker				+CCPS03		
				check					sheet 15 of 16		
cond.	alter.	date	name	norm					< 14	16 >	



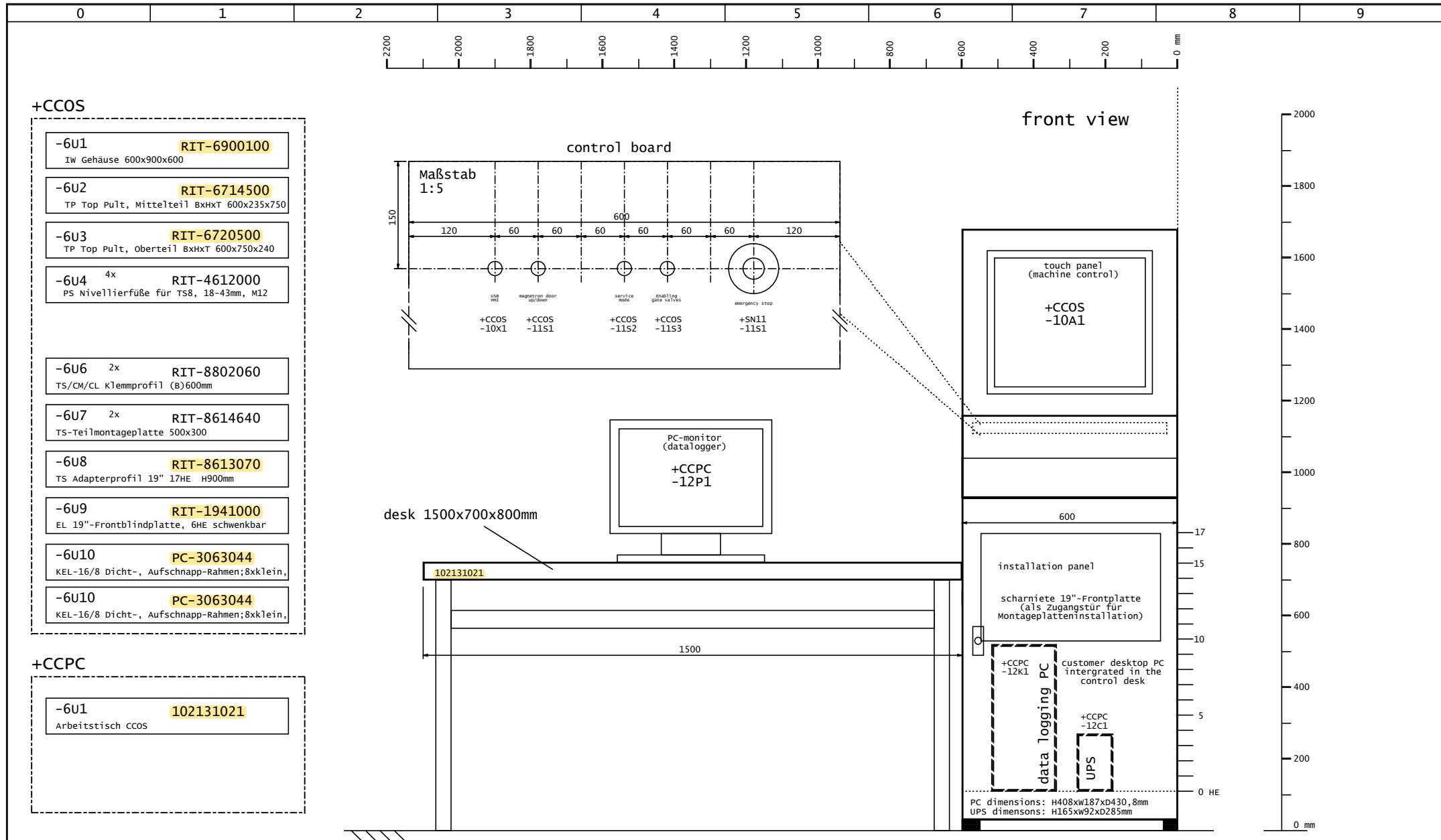
			date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	+P2GEN31, +P2GEN32 +P2MAG31, +P2MAG32	<b>388-810000</b>	P/005388	=E11	
			deve1.	Henker						+CCPS03	
			check					<b>circuit diagram</b>		sheet 16	of 16
cond.	alter.	date	name	norm						< 15	=E21/6 >

# partial arrangement:

## =E21

### operator station

machine number:	011003	year of manufacture:	>
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000



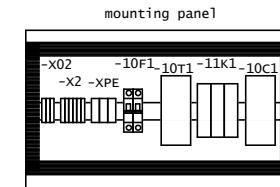
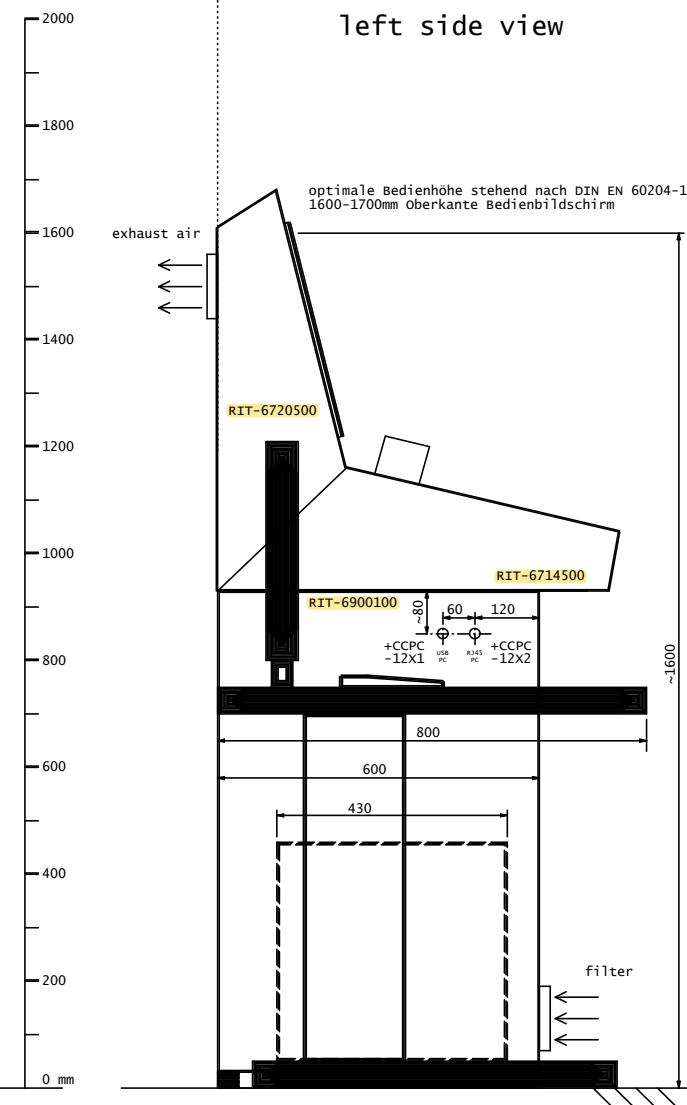
Scale (WSCAD): 1:10  
equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

			date	2010-05-26	A1500V-7 izno_Azo	 <b>LEYBOLD OPTICS</b>	front view operator station	388-810000	P/005388	=E21
			devel.	Henker				format:	+sheet 6	of 12
			check					DIN A3	<=E11/16	7 >
cond.	alter.	date	name	norm				layout		

0      1      2      3      4      5      6      7      8      9



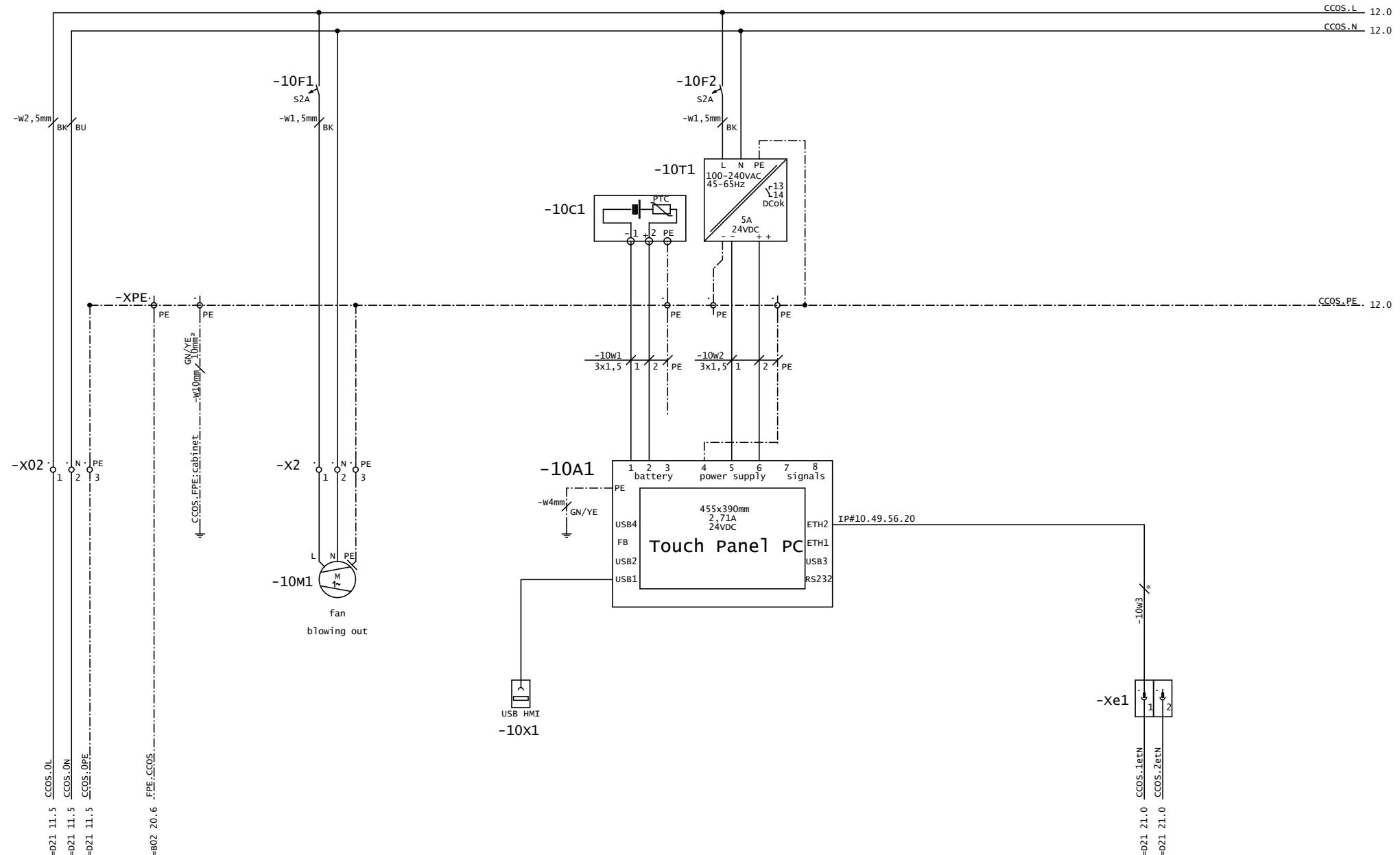
left side view



Scale (wscad): 1:10  
equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

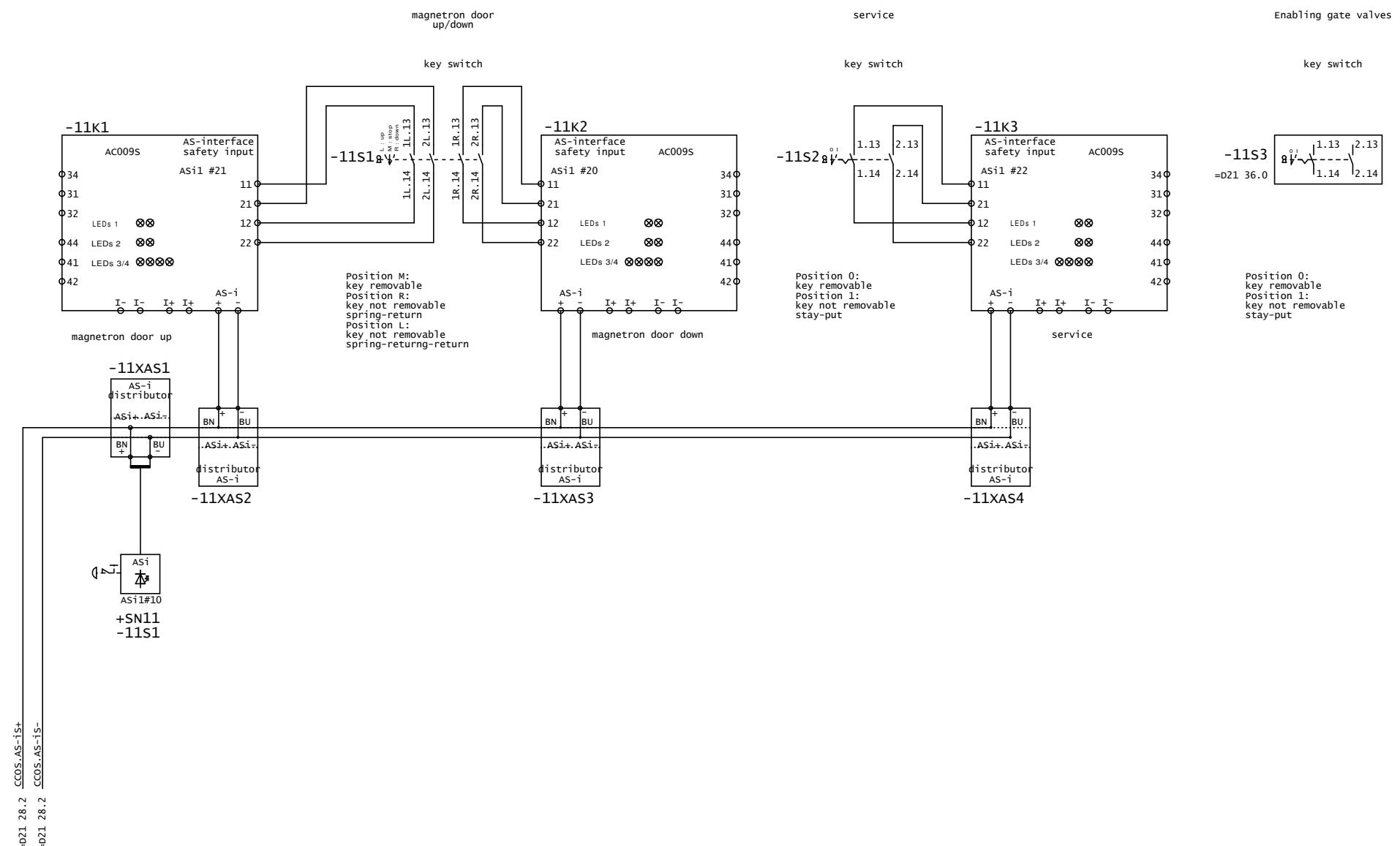
				date	2010-05-26	A1500v-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	left side view operator station	388-810000	P/005388	=E21
				devel.	Henker				format:		
				check					+sheet 7	of 12	
cond.	alter.	date	name	norm					layout	DIN A3	< 6 10 >

0	1	2	3	4	5	6	7	8	9
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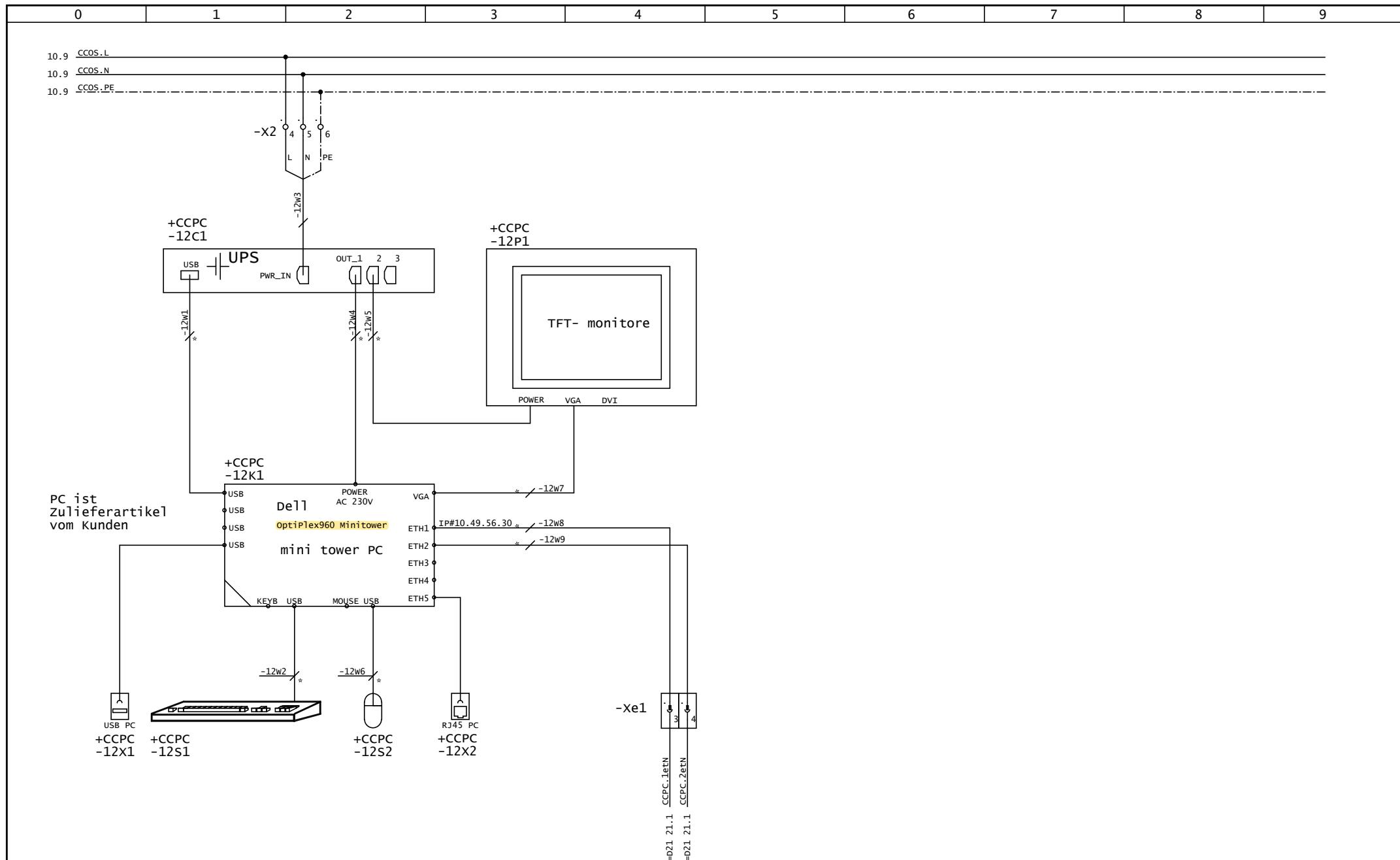


				date	12/05	A1500V-7 iznO_AZ0		Touchpanel (HMI) operator station	388-810000	P/005388	E21
				devel.	Henker				+CCOS		
				check					sheet 10 of 12		
cond.	alter.	date	name	norm					circuit diagram		< 7 11 >

0      1      2      3      4      5      6      7      8      9



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	control keys, switches operator station	388-810000	P/005388	=E21	
				devel.	Henker				+CCOS		sheet 11	of 12
				check							< 10	> 12
cond.	alter.	date	name	norm					circuit diagram			



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	datalogging PC operator station	388-810000	P/005388	=E21
				devel.	Henker				+CCOS		
				check					sheet 12	of 12	
cond.	alter.	date	name	norm					< 11	=E22/6 >	
								circuit diagram			

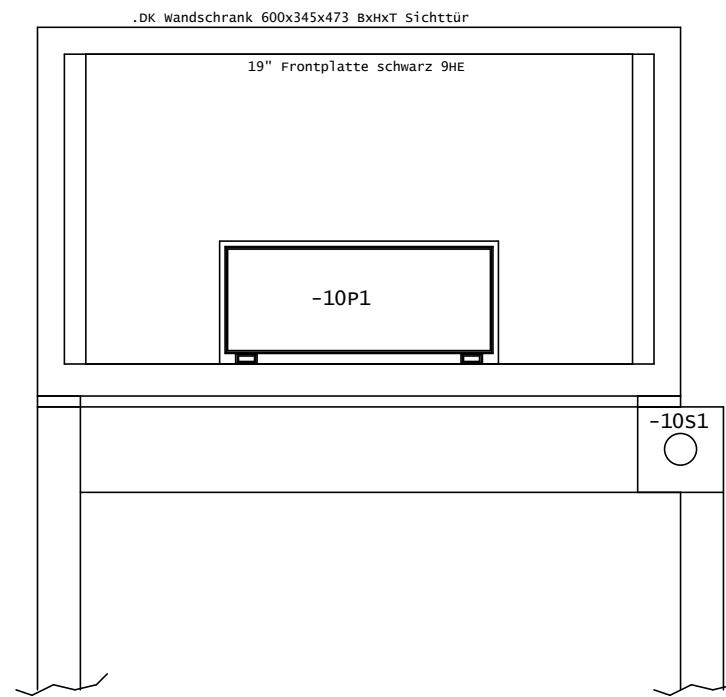
# partial arrangement:

## =E22

### process messurment

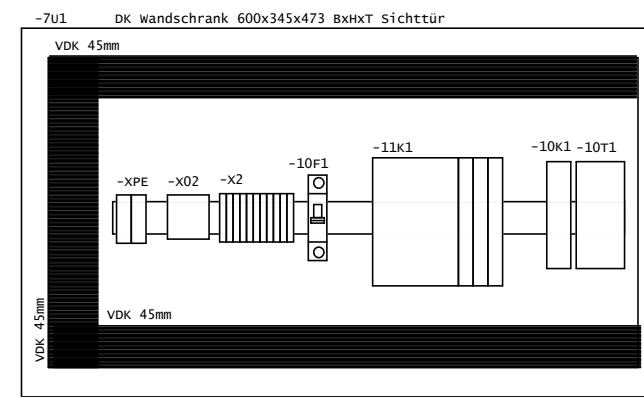
machine number:	011003	year of manufacture:	>
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000

0	1	2	3	4	5	6	7	8	9
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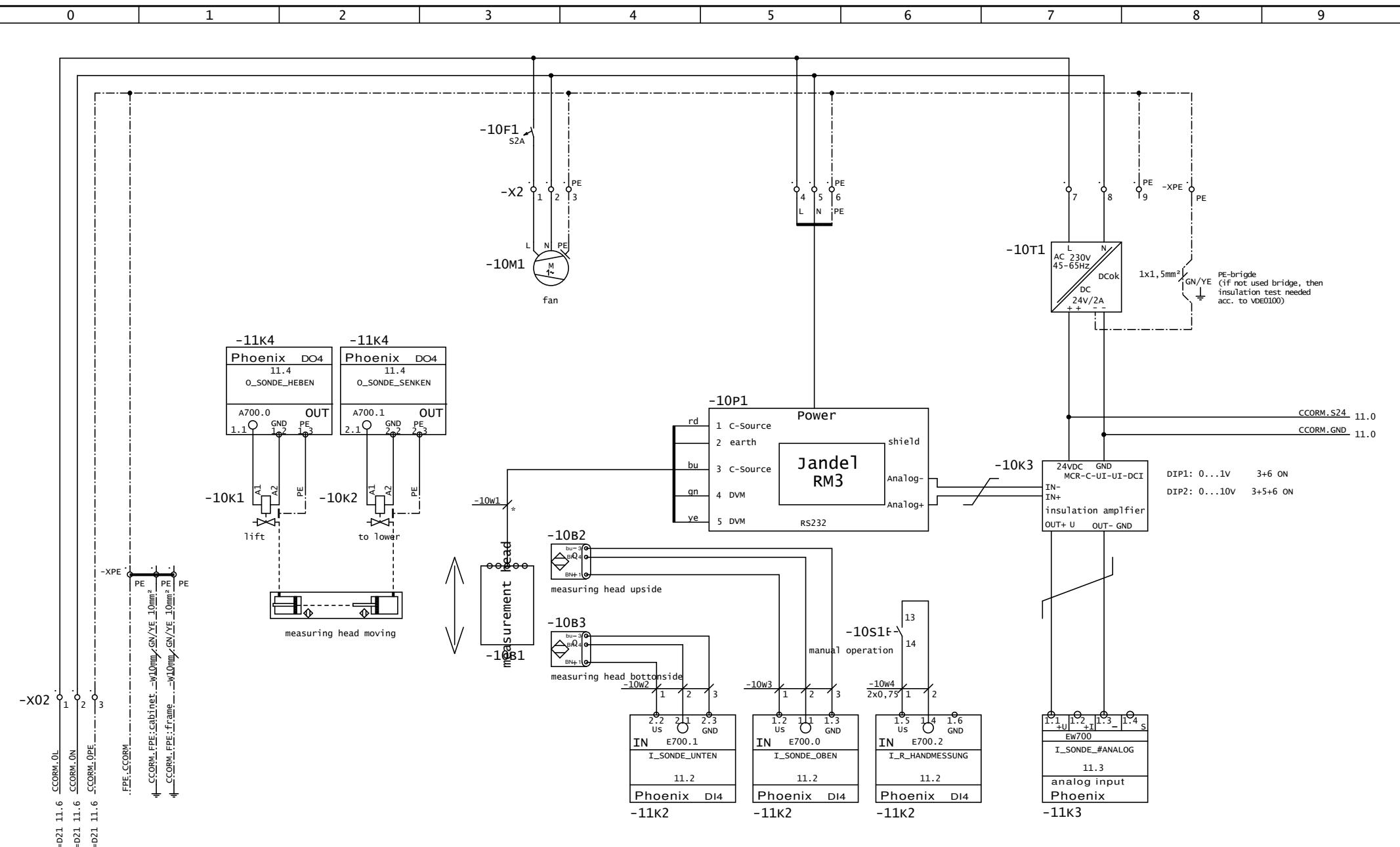


				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	layout outside resistance test unit	388-810000	P/005388	=E22
				devel.	Henker				+CCORM		
				check					sheet 6	of 11	
cond.	alter.	date	name	norm					<=E21/12		7 >

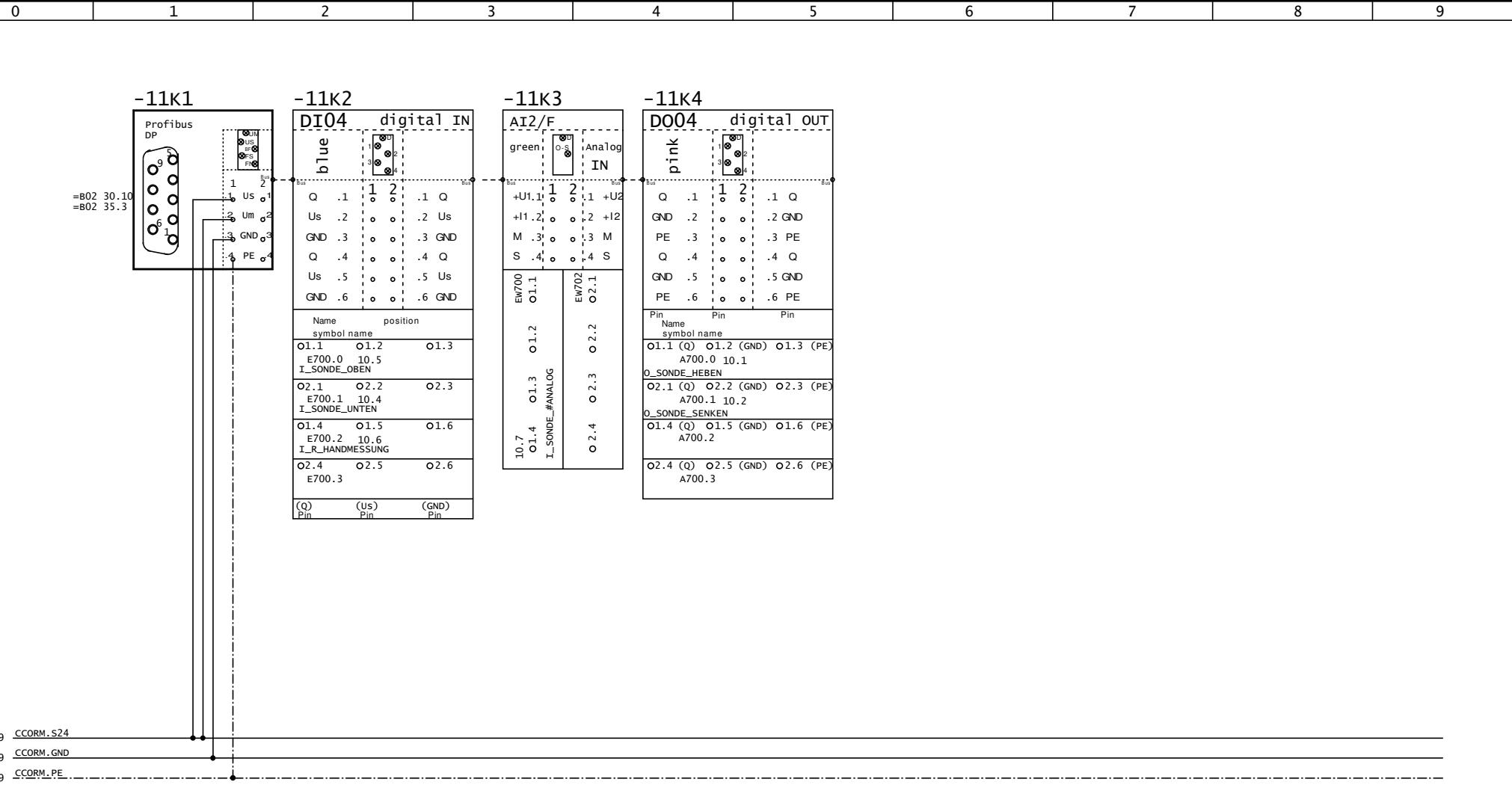
0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	mounting plate resistance test unit	388-810000	P/005388	=E22
				devel.	Henker				+CCORM		
				check					sheet 7	of 11	
cond.	alter.	date	name	norm					< 6		10 >



				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	resistance test unit	388-810000	P/005388	=E22
				devel.	Henker				+CCORM		
				check					sheet 10	of 11	
cond.	alter.	date	name	norm					< 7	11 >	
								circuit diagram			



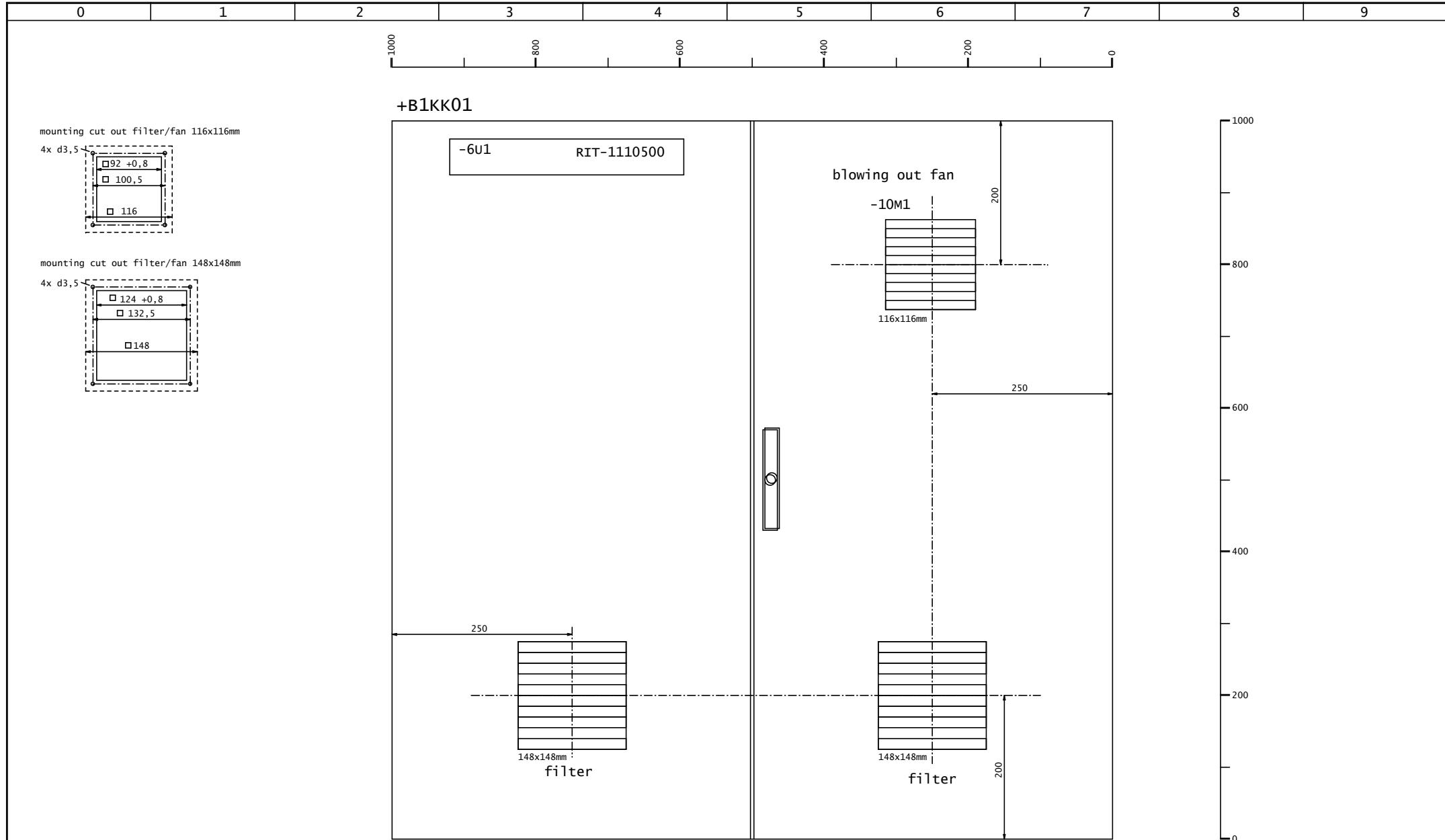
				date	12/05	A1500V-7 izn0_AZ0   <b>LEYBOLD OPTICS</b>	PLC inputs, outputs resistance test unit	388-810000	P/005388	=E22
				devel.	Henker				+CCORM	
				check				sheet 11	of 11	
cond.	alter.	date	name	norm				< 10	=M30/6 >	

# partial arrangement:

## =M30

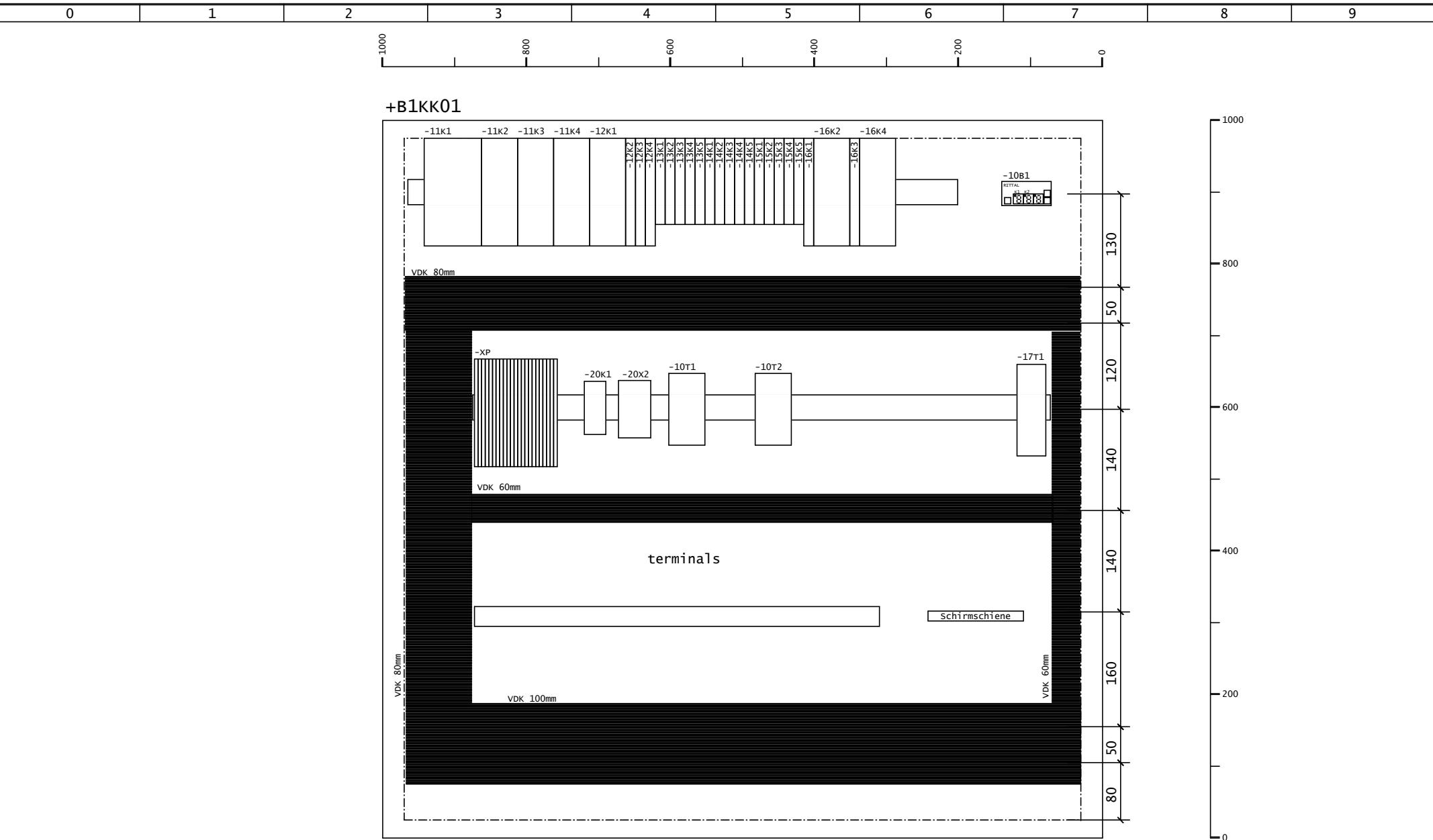
actuators/ sensors module: T1, L1, B1, B2

machine number:	011003	year of manufacture:	>
 LEYBOLD OPTICS LEYBOLD OPTICS DRESDEN GmbH Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 fax : +49 351 86695 42		remark :	
Plant built according to: safety of machines - Elektrische Ausrüstung von Maschinen		EN 60 204	(VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000

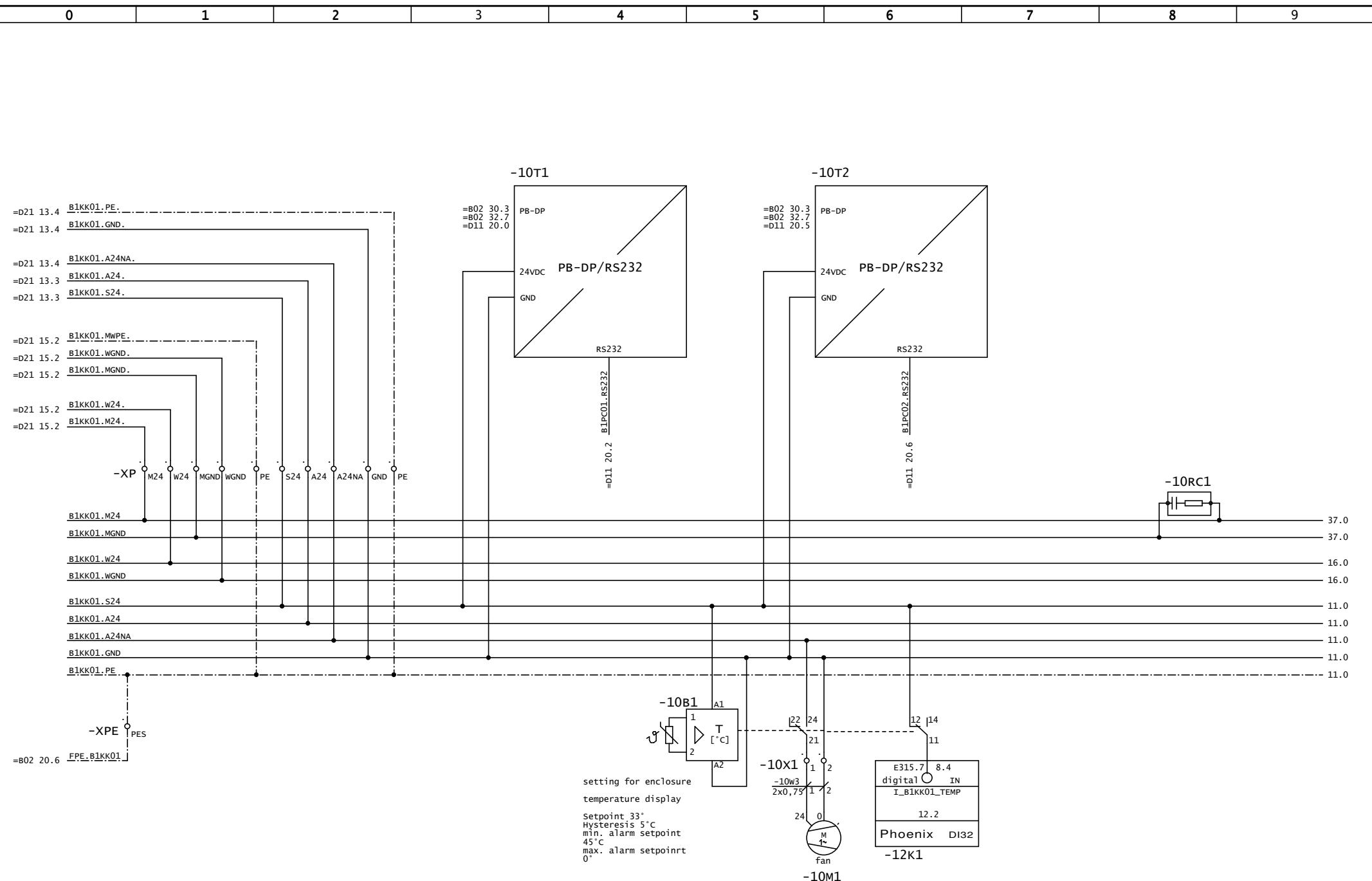


Scale (wscad): 1:5  
 equipment dimensions: (wide x height x deep)  
 all dimensions in mm  
 all dimensions only approximated!

				date	12/05	A1500V-7 izno_AZ0	 LEYBOLD OPTICS	layout outside	388-810000	P/005388	=M30
				devel.	Henker						+B1KK01
				check							
cond.	alter.	date	name	norm							sheet 6 of 41 <=E22/11 7 >



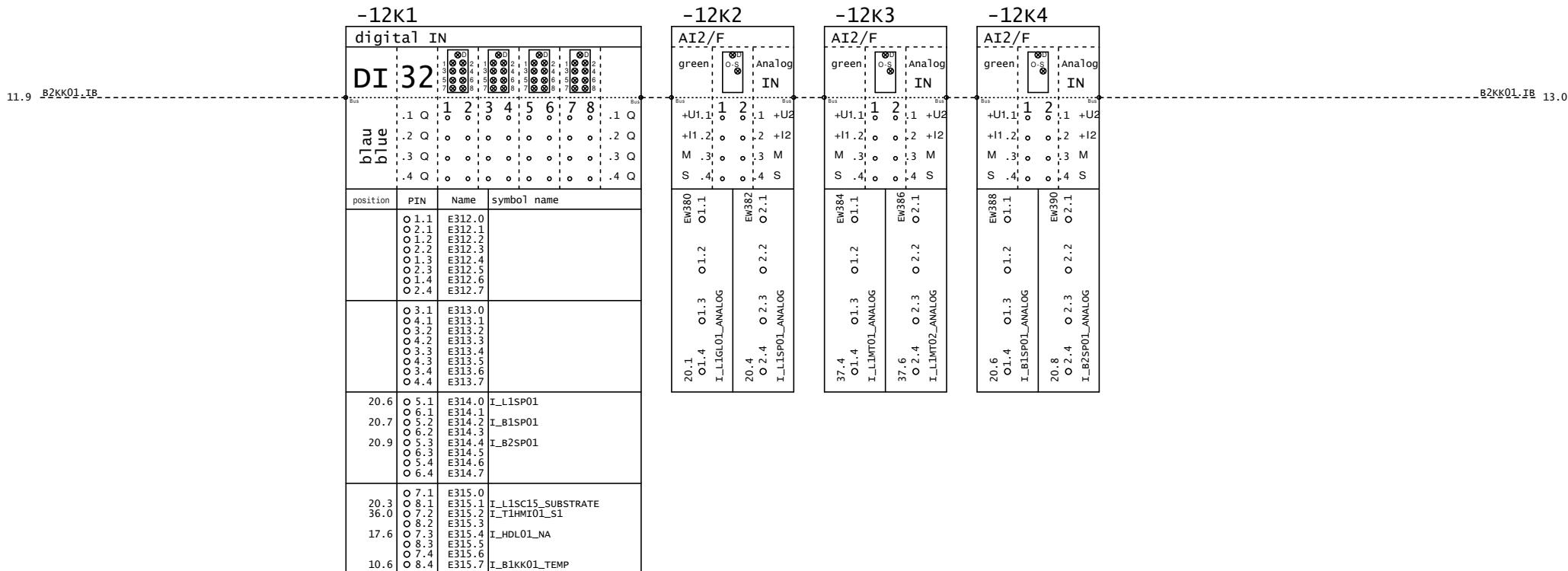
				date	12/05	A1500v-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	mounting plate	388-810000	P/005388	=M30	
				devel.	Henker				+B1KK01			
				check							sheet 7	of 41
cond.	alter.	date	name	norm					layout		< 6	10 >



				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	feed-in	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 10	of 41	
cond.	alter.	date	name	norm					< 7		11 >

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	digital inputs	<b>388-810000</b>	P/005388	=M30	
				devel.	Henker				+B1KK01		sheet 11	of 41
				check							< 10	12 >
cond.	alter.	date	name	norm					circuit diagram			

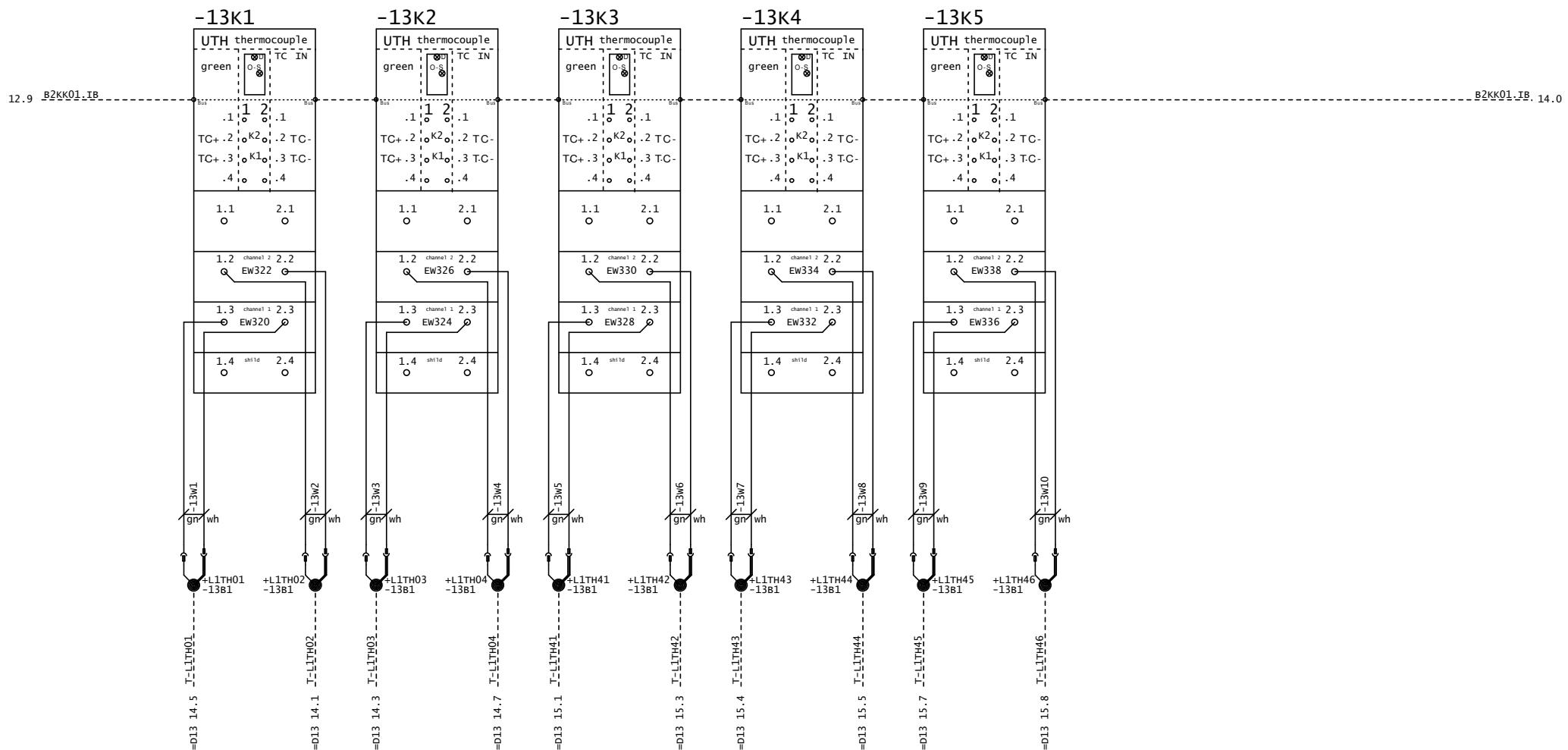
0	1	2	3	4	5	6	7	8	9
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11.9 B1KK01.S24	13.0
11.9 B1KK01.A24	13.0
11.9 B1KK01.A24NA	13.0
11.9 B1KK01.GND	13.0
11.9 B1KK01.PE	13.0

				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	digital I/O	388-810000	P/005388	M30
				devel.	Henker				+B1KK01	sheet 12	of 41
				check						< 11	13 >
cond.	alter.	date	name	norm				circuit diagram			

0	1	2	3	4	5	6	7	8	9
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12.9 B1KK01.S4

14.0

12.9 B1KK01.A24

14.0

12.9 B1KK01.A24NA

14.0

12.9 B1KK01.GND

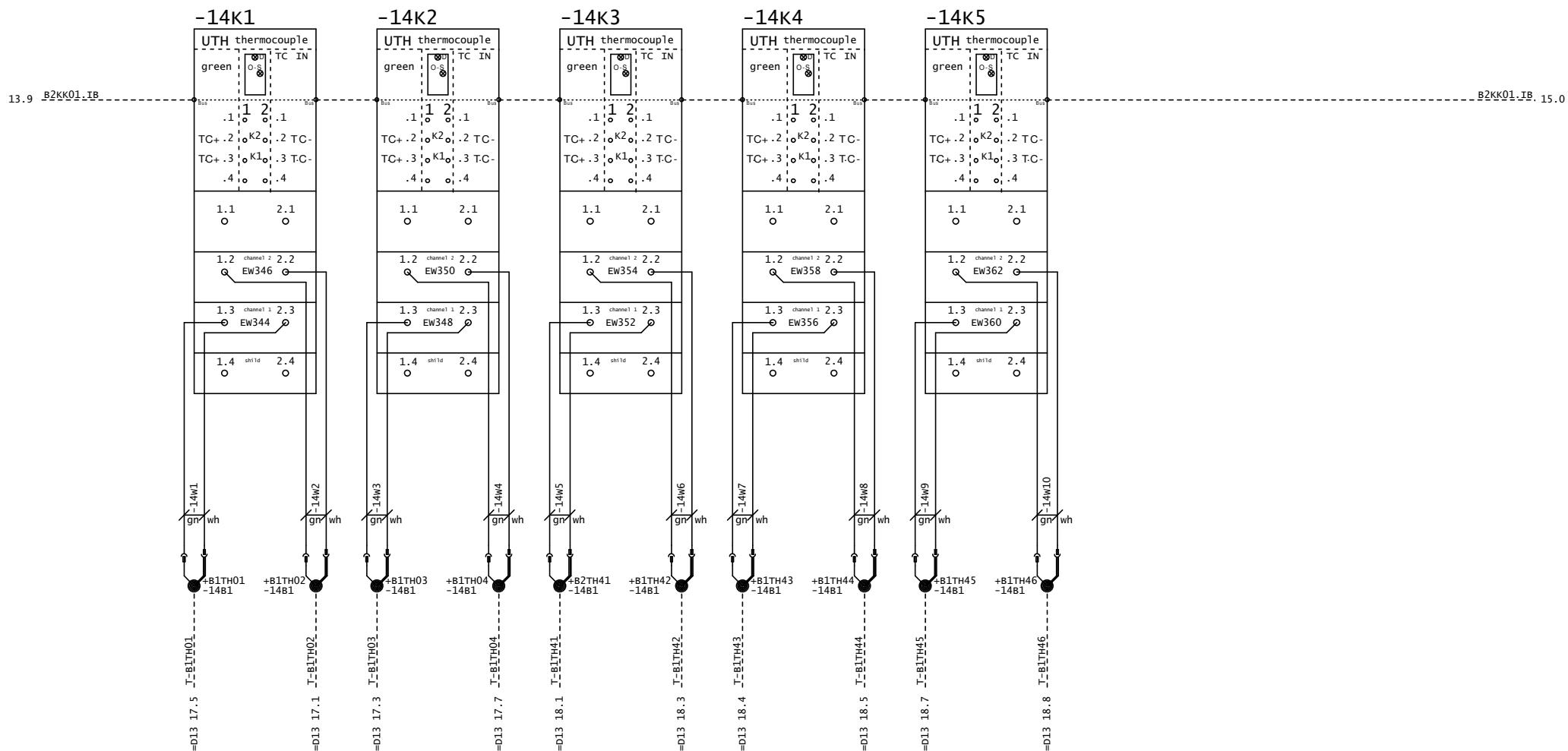
14.0

12.9 B1KK01.PE

14.0

				date	12/05	A1500V-7 iznO_AZO		analog inputs	388-810000	P/005388	=M30
				devel.	Henker						+B1KK01
				check							sheet 13 of 41
cond.	alter.	date	name	norm					circuit diagram		< 12 14 >

0	1	2	3	4	5	6	7	8	9
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13.9 B1KK01.S44

15.0

13.9 B1KK01.A24

15.0

13.9 B1KK01.A24NA

15.0

13.9 B1KK01.GND

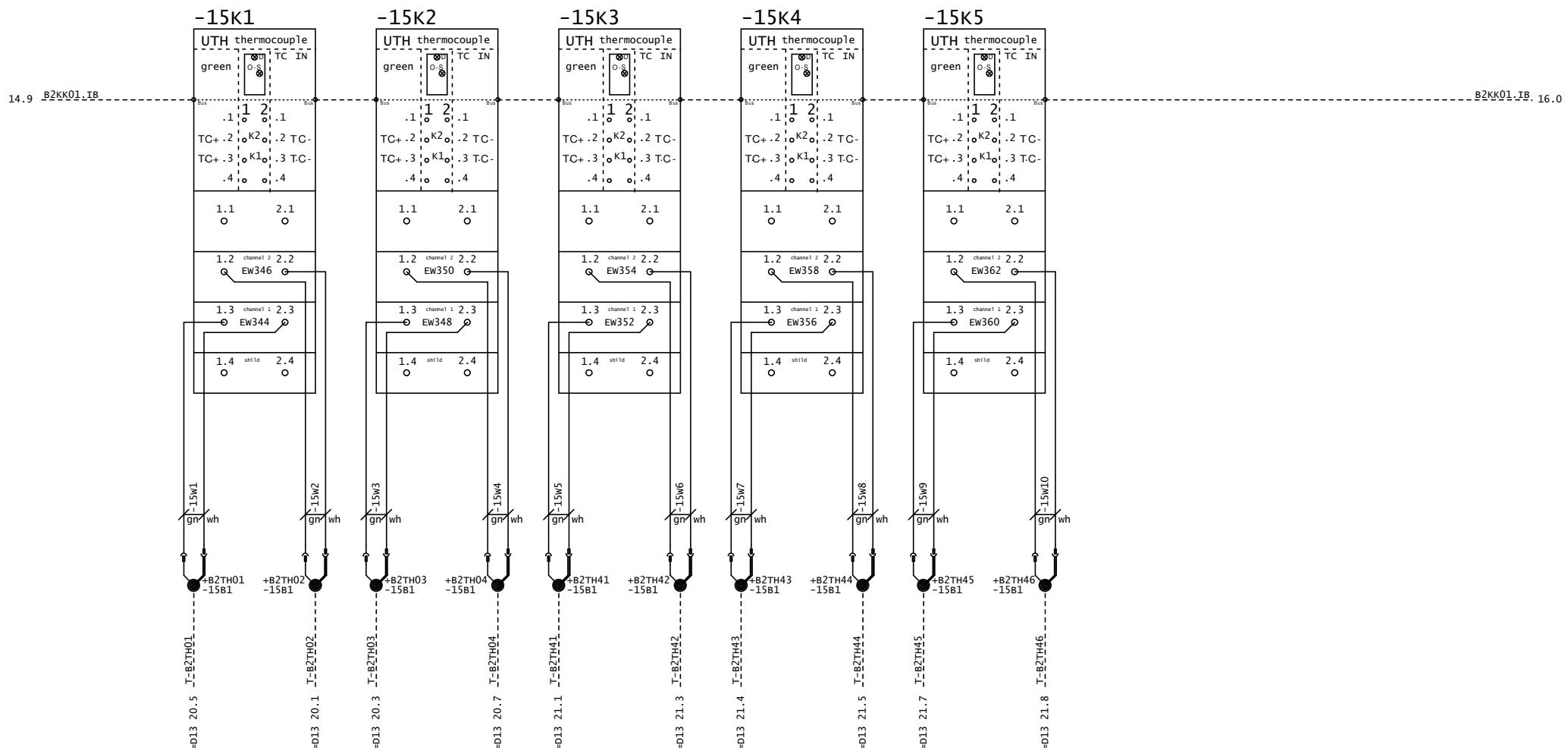
15.0

13.9 B1KK01.PE

15.0

				date	12/05	A1500V-7 iznO_AZ0		analog inputs	388-810000	P/005388	=M30
				devel.	Henker						+B1KK01
				check							sheet 14 of 41
cond.	alter.	date	name	norm							<13 15 >

0	1	2	3	4	5	6	7	8	9
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14.9 B1KK01.S2414.9 B1KK01.A2414.9 B1KK01.A24NA14.9 B1KK01.GND14.9 B1KK01.PE

16.0

16.0

16.0

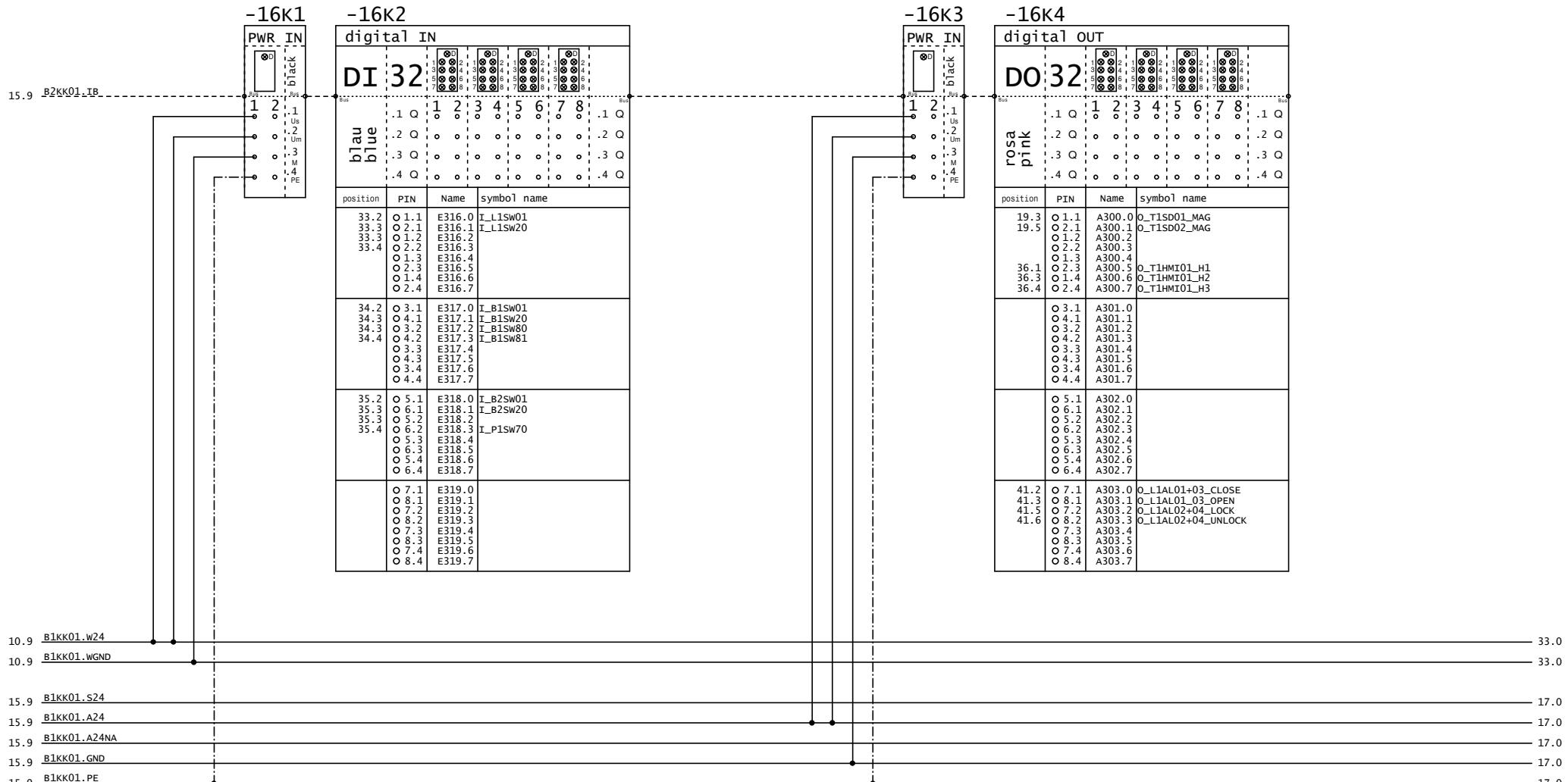
16.0

16.0

16.0

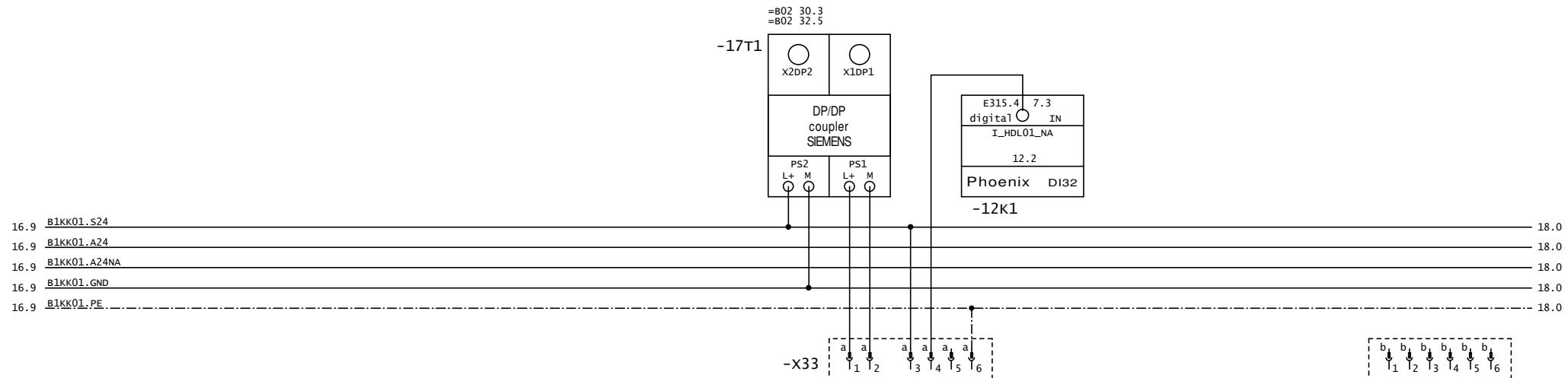
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				devel.	Henker						+B1KK01
				check							sheet 15 of 41
cond.	alter.	date	name	norm					circuit diagram		< 14 16 >

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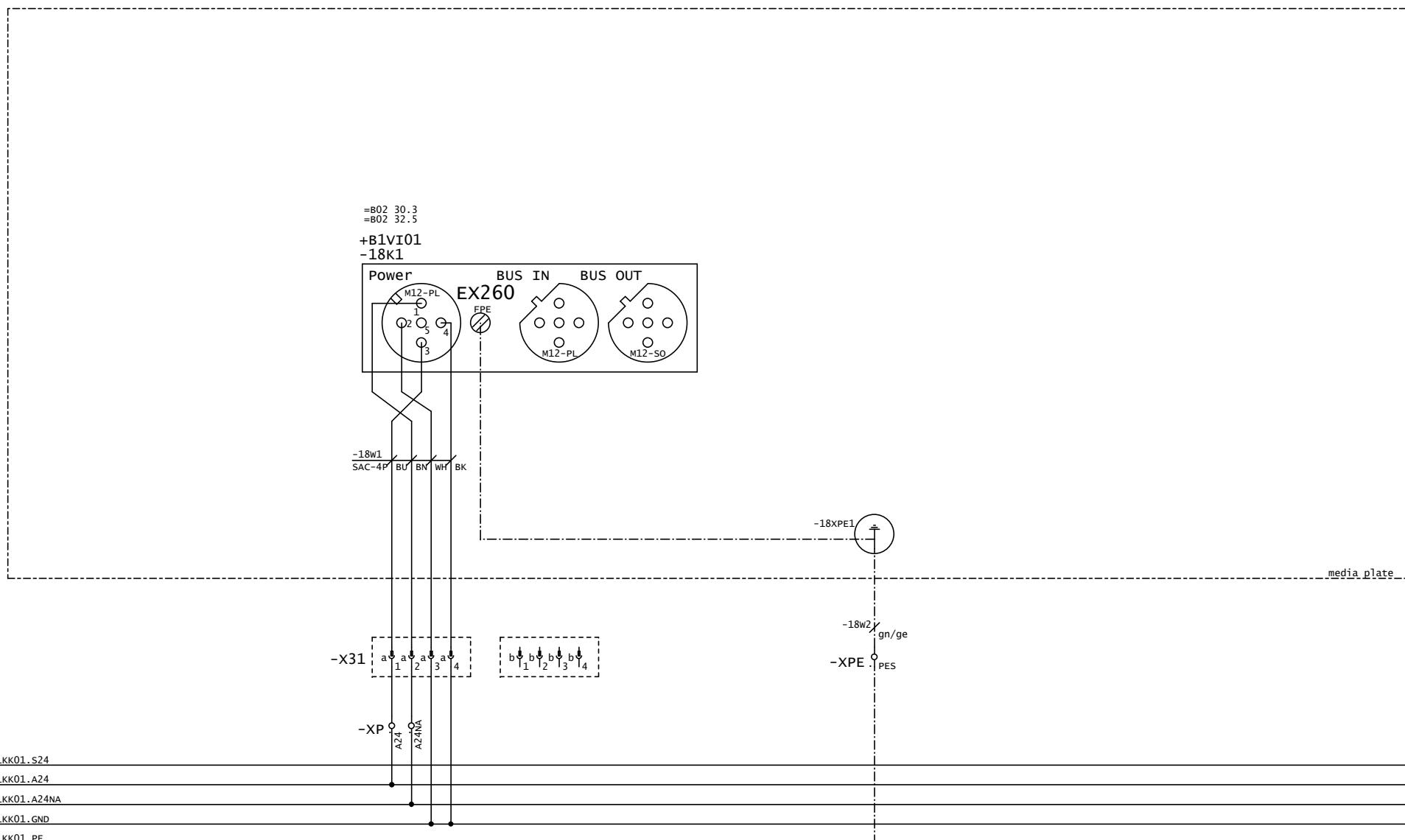


				date	12/05	A1500V-7 iznO_AZ0	LEYBOLD OPTICS	digital I/O	388-810000	P/005388	M30
				devel.	Henker				+B1KK01		
				check					sheet 16	of 41	
cond.	alter.	date	name	norm					< 15	17 >	

0      1      2      3      4      5      6      7      8      9

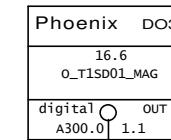
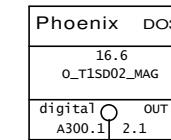


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				date	12/05	A1500V-7 izn0_AZ0	 LEYBOLD OPTICS	valve unit B1	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 18	of 41	
cond.	alter.	date	name	norm					< 17	19 >	

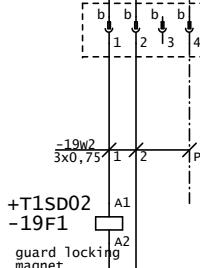
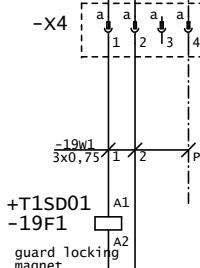
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**-16K4****-16K4**18.9 B1KK01.GND

20.0

18.9 B1KK01.PE

20.0



				date	12/05
				devel.	Henker
				check	
cond.	alter.	date	name	norm	

A1500V-7 izn0\_AZ0

LEYBOLD OPTICS

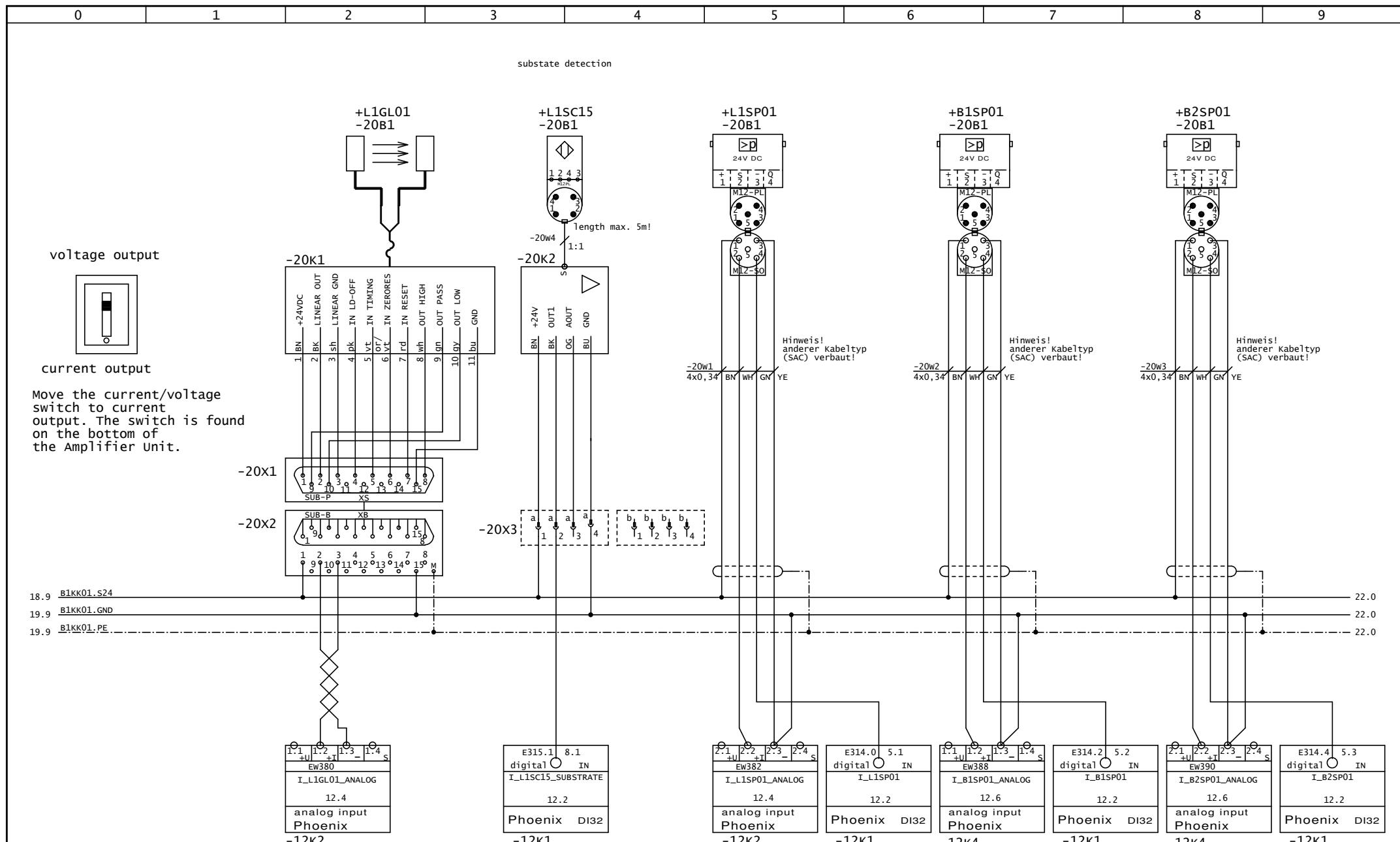
door locking

388-810000

P/005388

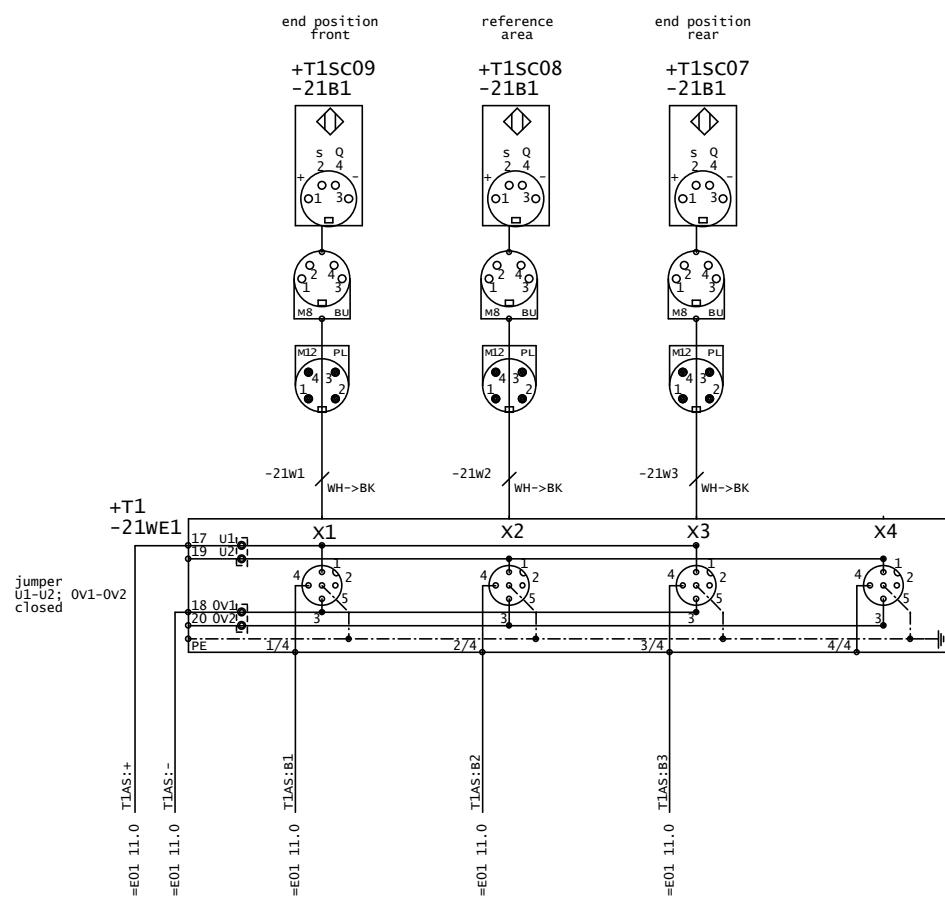
=M30  
+B1KK01

sheet 19	of 41
< 18	20 >

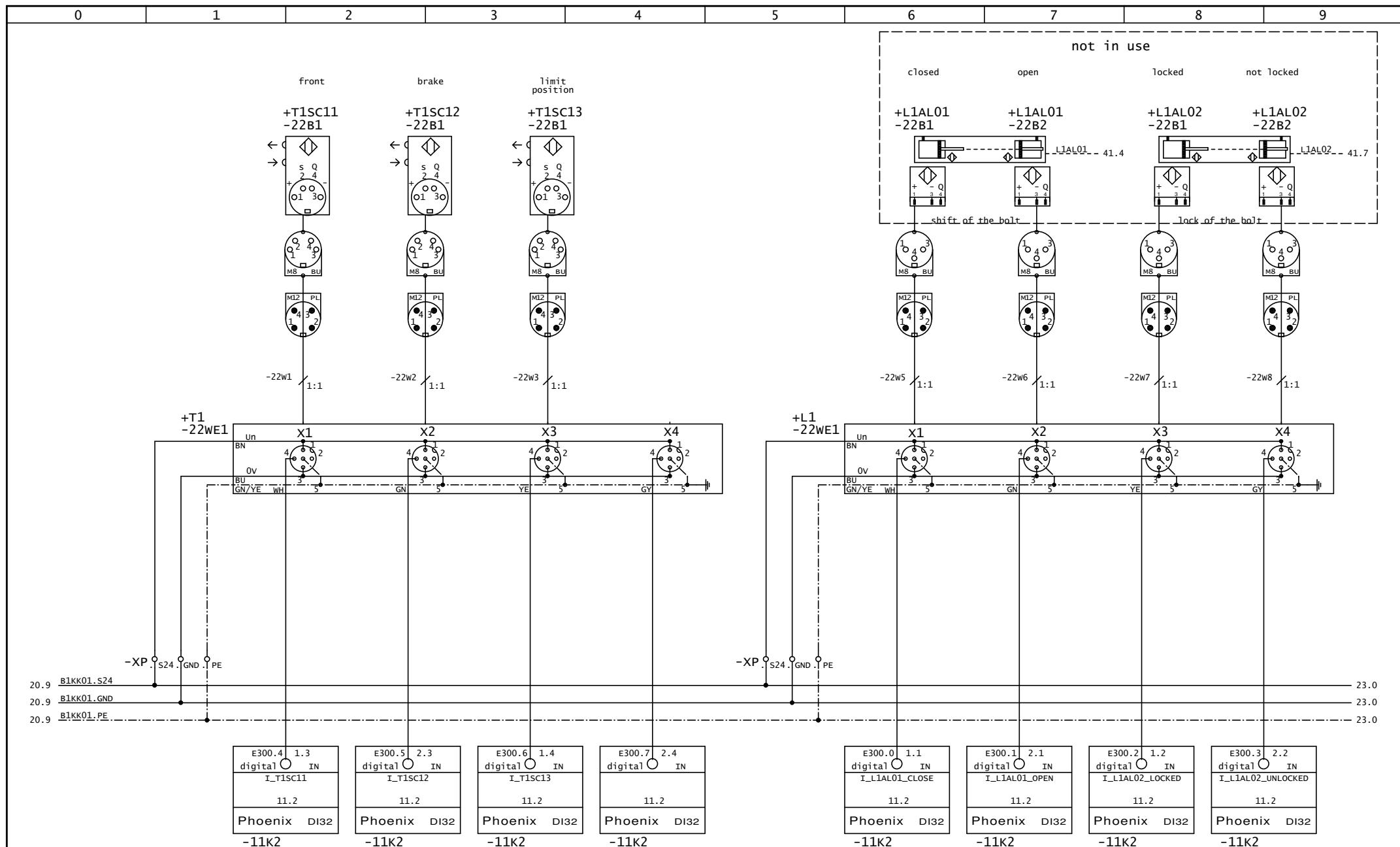


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				devel.	Henker				+B1KK01		
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cond.	alter.	date	name	norm					<19	21>	

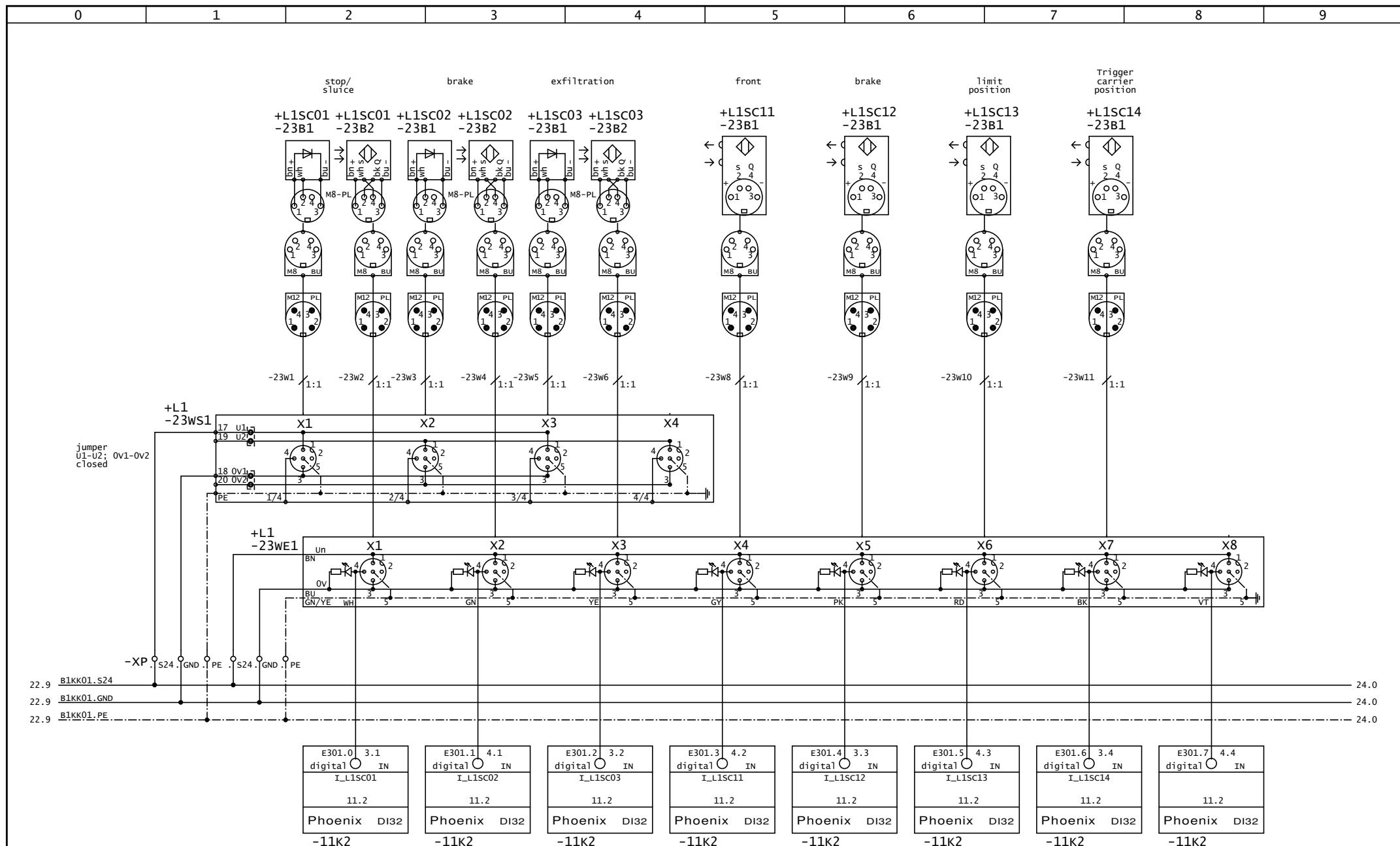
0	1	2	3	4	5	6	7	8	9
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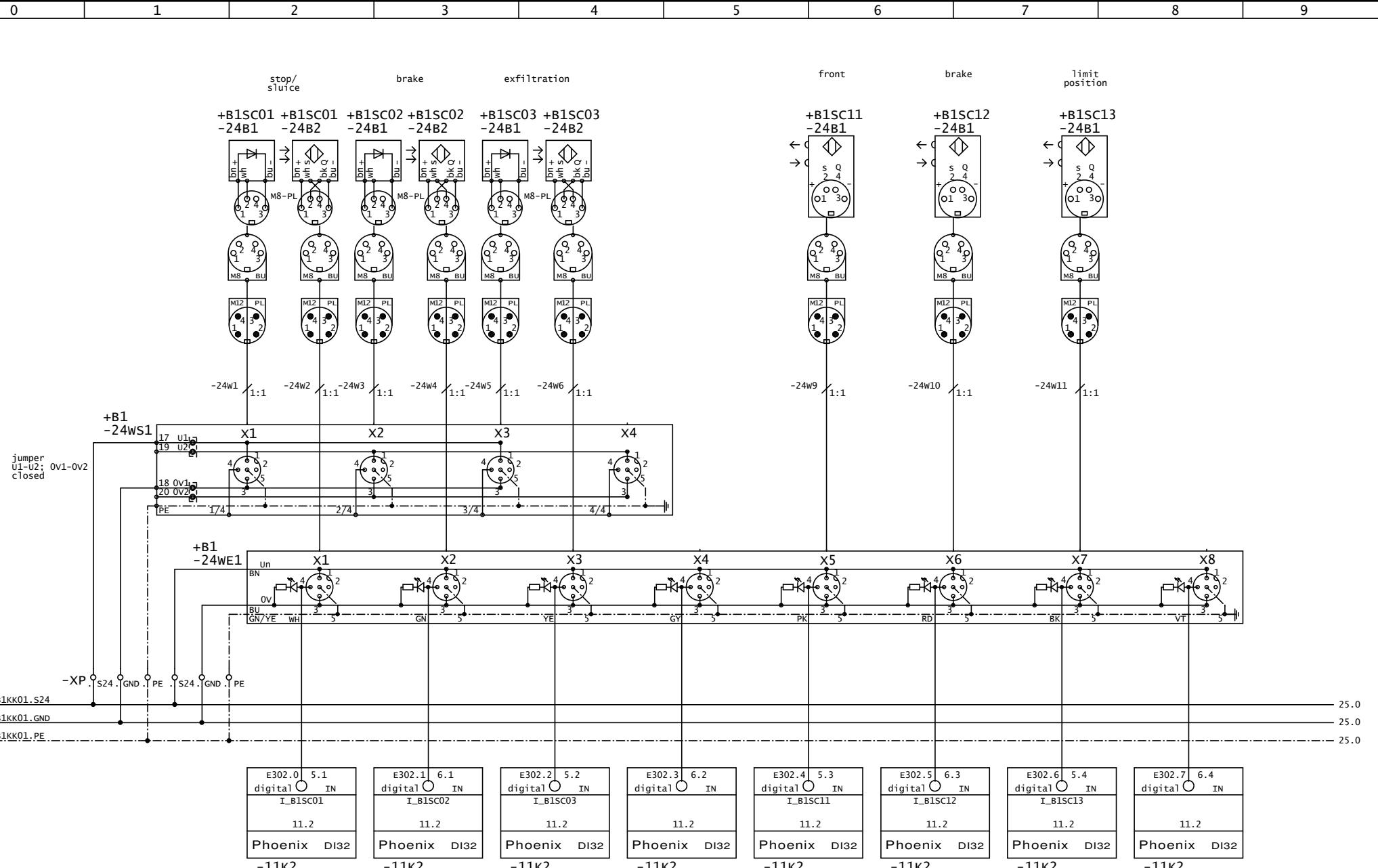


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	T1SC07...09	388-810000	P/005388	=M30
				devel.	Henker						+B1KK01
				check							sheet 21 of 41
cond.	alter.	date	name	norm					circuit diagram		< 20 22 >

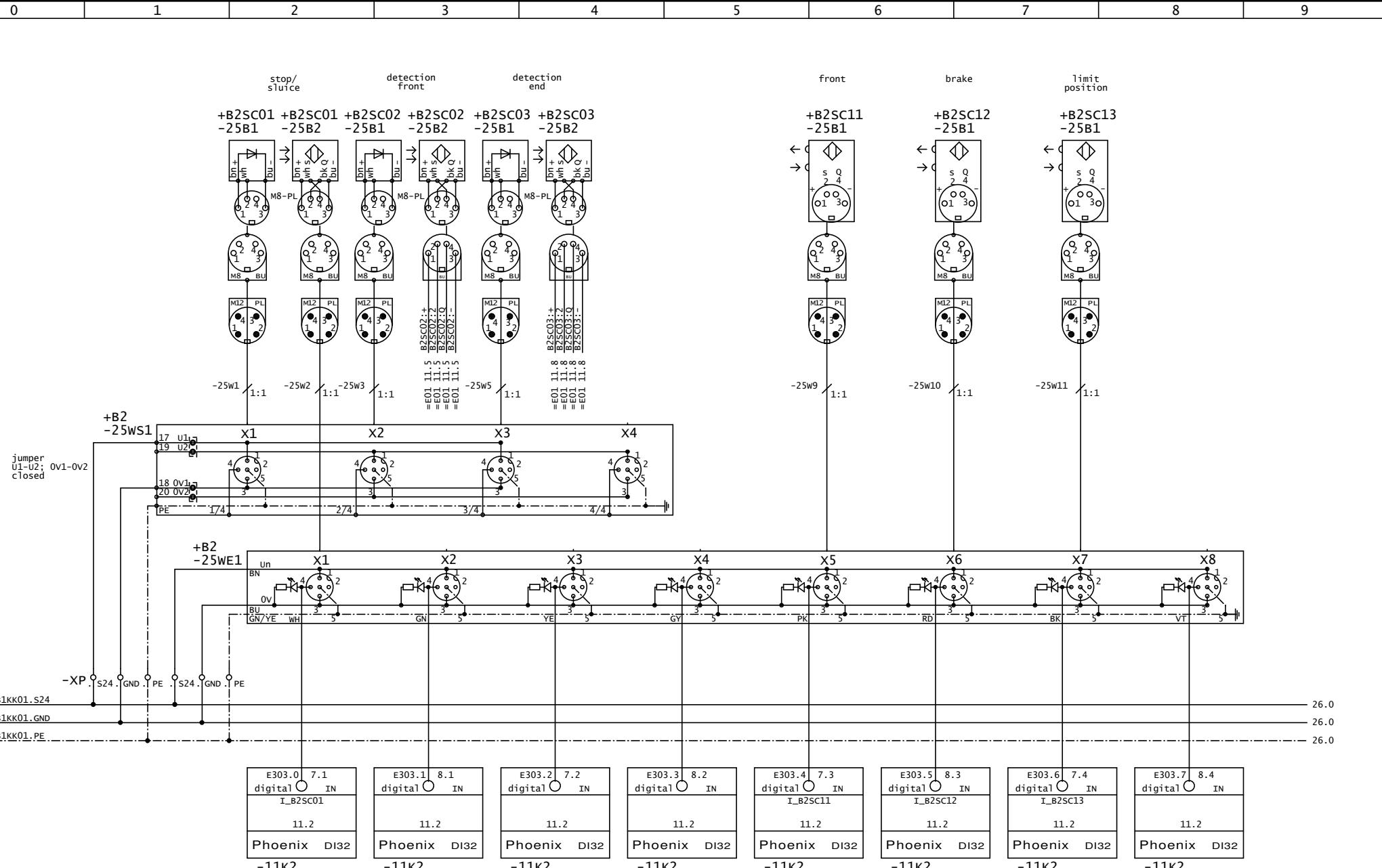


			date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	T1SC11...13	388-810000	P/005388	=M30
			devel.	Henker				+B1KK01		
			check						sheet 22	of 41
cond.	alter.	date	name	norm					< 21	23 >
								circuit diagram		





date	12/05	devel.	Henker	A1500V-7 iznO_AZ0		B1SC	388-810000	P/005388	=M30
check									+B1KK01
cond.	alter.	date	name				circuit diagram		sheet 24 of 41
			norm						< 23 25 >



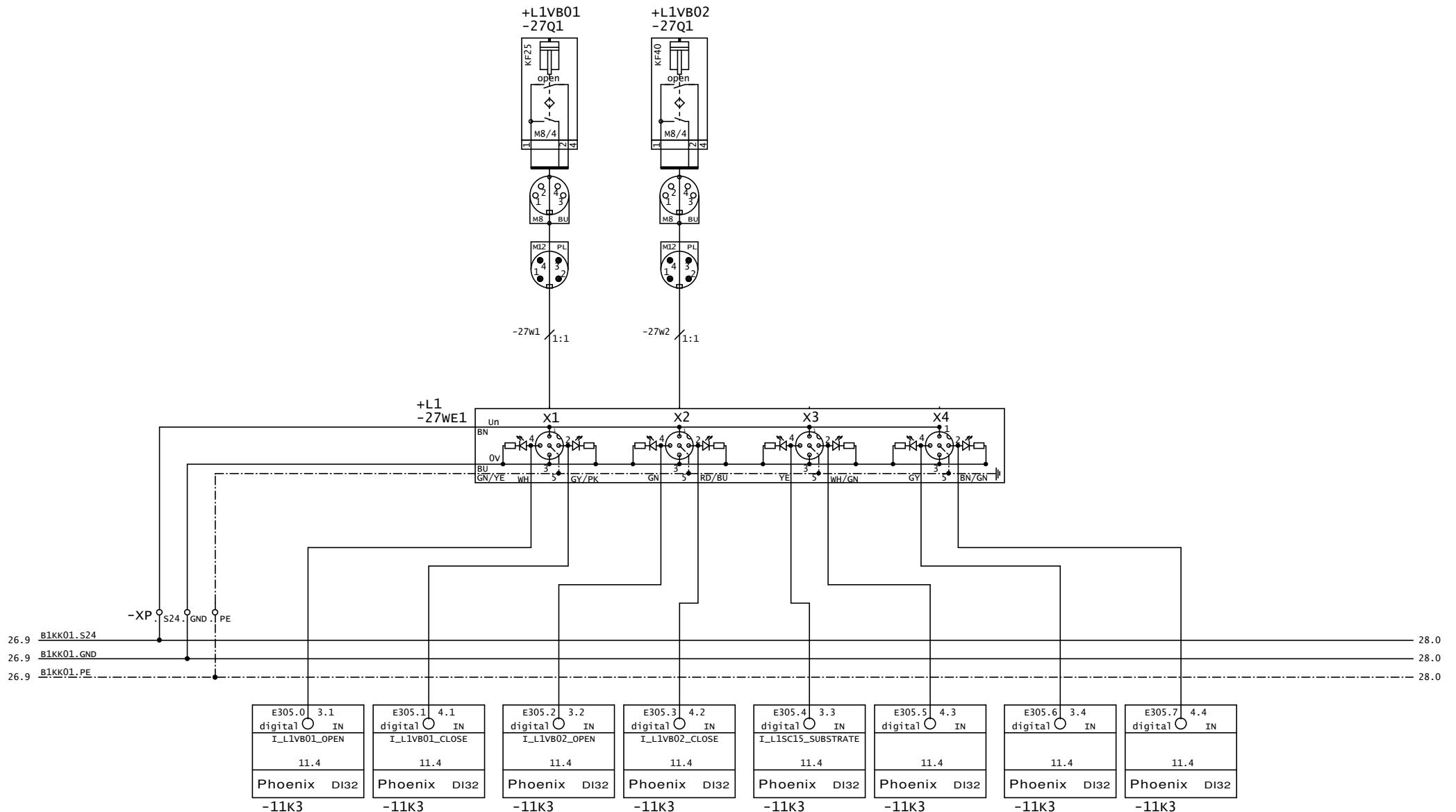
date	12/05	devel.	Henker	A1500V-7 izn0_AZ0		B2SC	388-810000	P/005388	=M30
check									+B1KK01
cond.	alter.	date	name						sheet 25 of 41
			norm						< 24      26 >

carrier detection

The circuit diagram illustrates the carrier detection logic for eight bits (bit 0 to bit 7). Each bit path consists of a diode bridge rectifier (B1GD01), a low-pass filter (M2 PL), and a 1:1 isolator (M8 BU). The outputs are labeled -26W1 through -26W8. These signals are then connected to an 8-pin connector (X1-X8). Below the connector, there is a row of digital inputs (E304.0 to E304.7), each with a Phoenix DI32 connector. The connections are summarized in the following table:

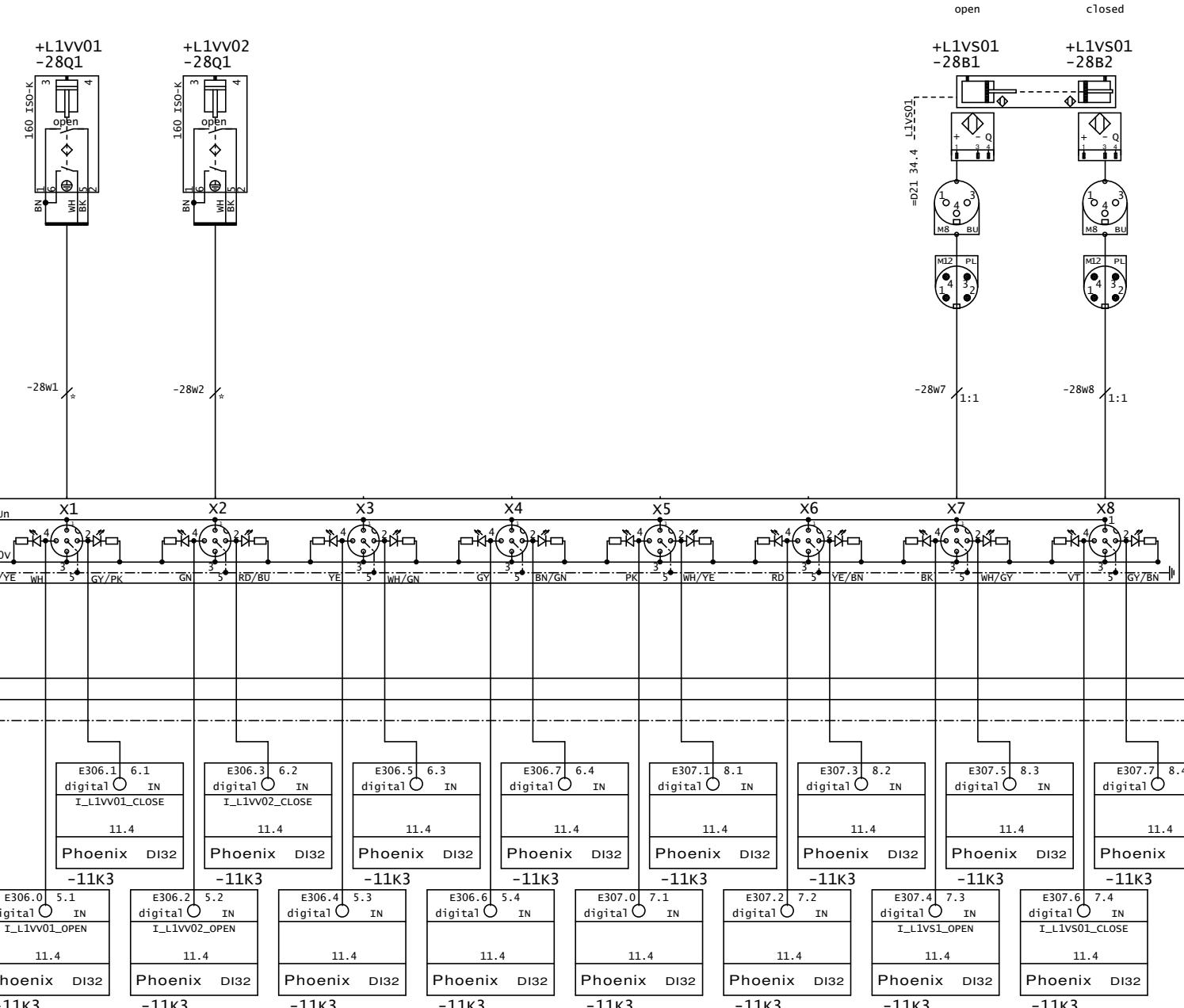
Pin	Signal	Component	Value	Notes
X1	-XP	E304.0	1.1 digital IN	I_B1GD01_Bit0 11.4 Phoenix DI32 -11K3
X2	-GND	E304.1	2.1 digital IN	I_B1GD01_Bit1 11.4 Phoenix DI32 -11K3
X3	-PE	E304.2	1.2 digital IN	I_B1GD01_Bit2 11.4 Phoenix DI32 -11K3
X4	-GN/YE	E304.3	2.2 digital IN	I_B1GD01_Bit3 11.4 Phoenix DI32 -11K3
X5	-WH	E304.4	2.3 digital IN	I_B1GD01_Bit4 11.4 Phoenix DI32 -11K3
X6	-YE	E304.5	2.4 digital IN	I_B1GD01_Bit5 11.4 Phoenix DI32 -11K3
X7	-GY	E304.6	1.4 digital IN	I_B1GD01_Bit6 11.4 Phoenix DI32 -11K3
X8	-BK	E304.7	2.4 digital IN	I_B1GD01_Bit7 11.4 Phoenix DI32 -11K3

0	1	2	3	4	5	6	7	8	9
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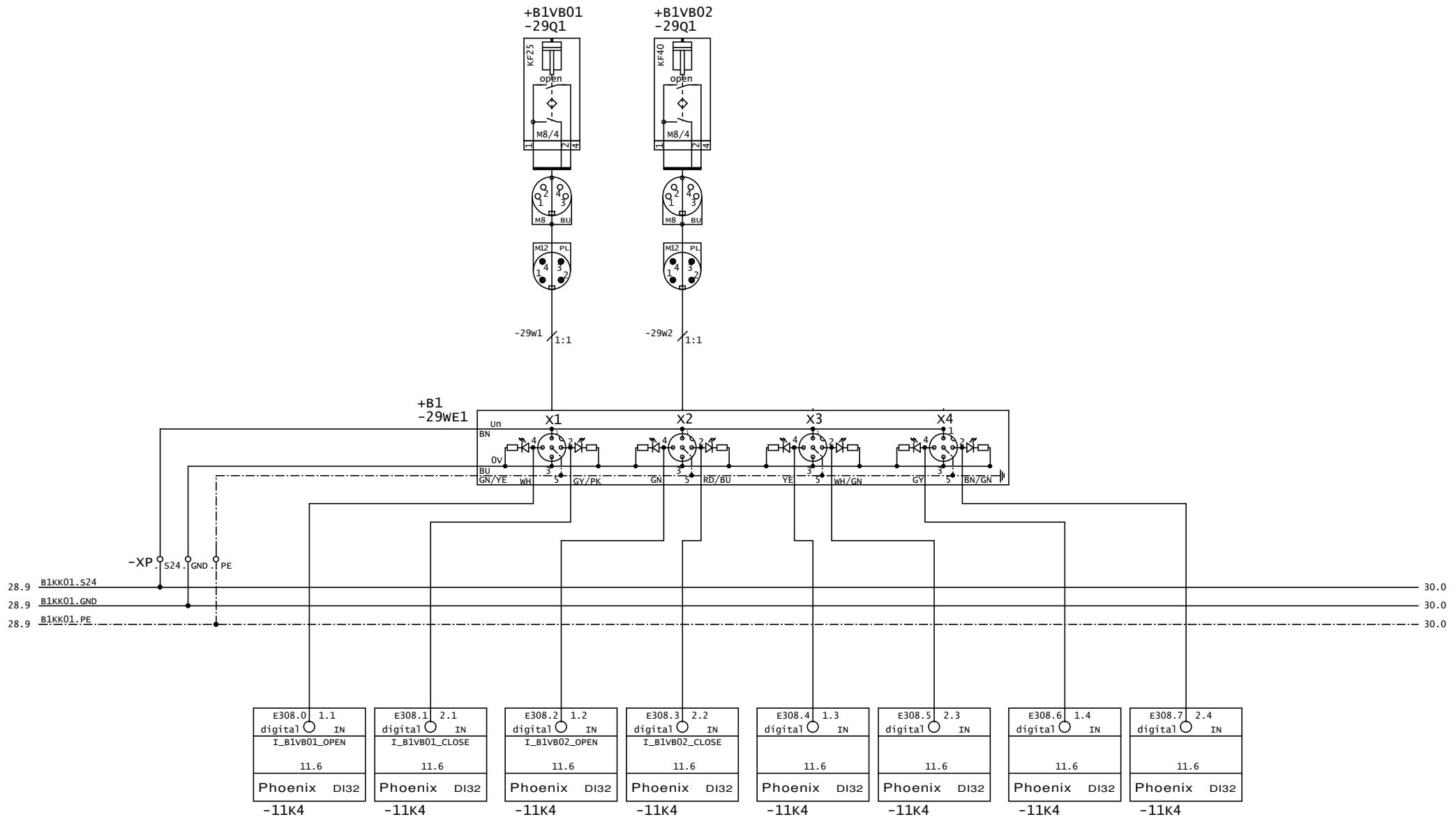
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	L1 digitale input upside	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 27	of 41	
cond.	alter.	date	name	norm					< 26	28 >	

0	1	2	3	4	5	6	7	8	9
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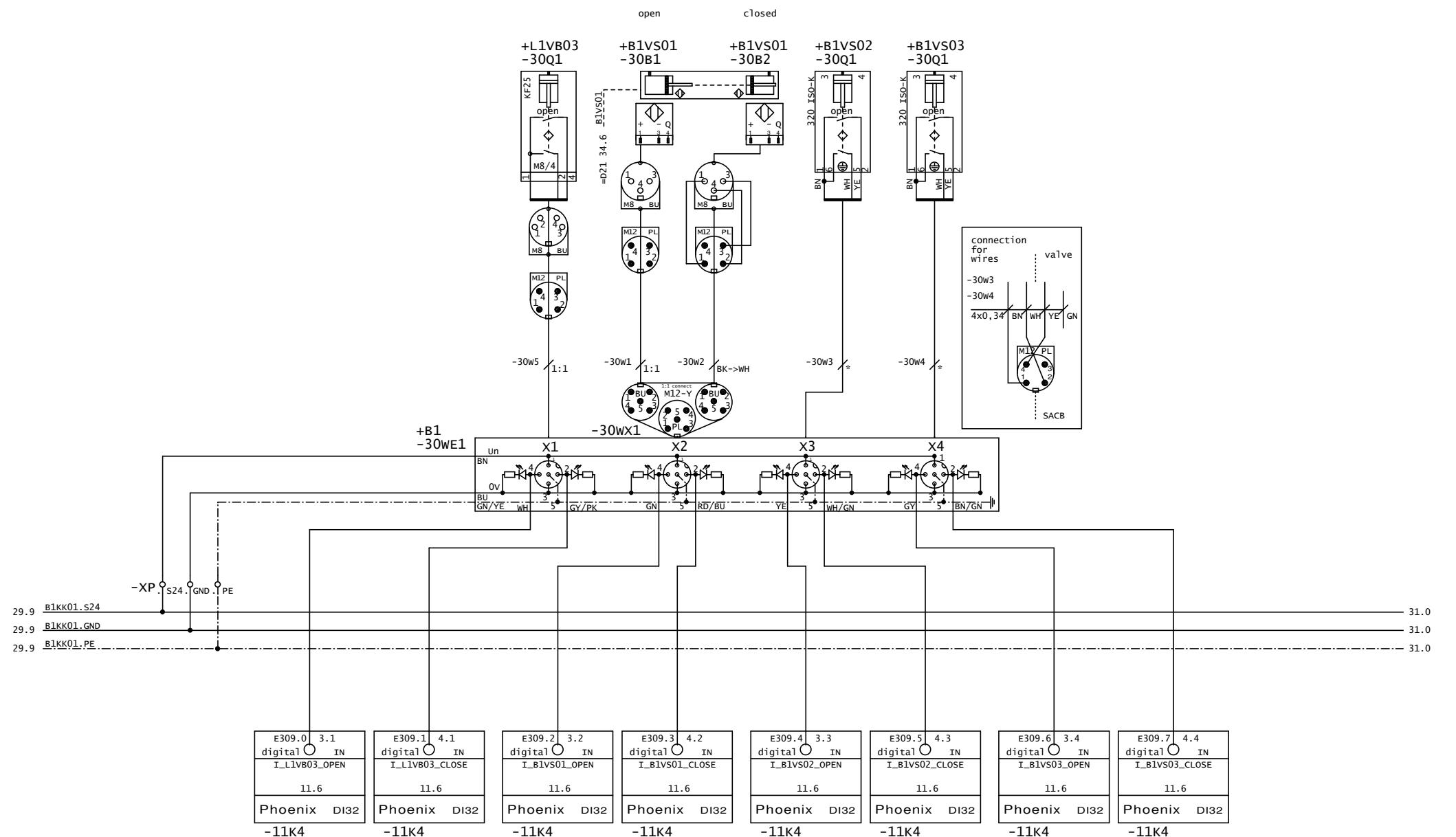
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				devel.	Henker						+B1KK01
				check							sheet 28 of 41
cond.	alter.	date	name	norm					circuit diagram		< 27 29 >

0	1	2	3	4	5	6	7	8	9
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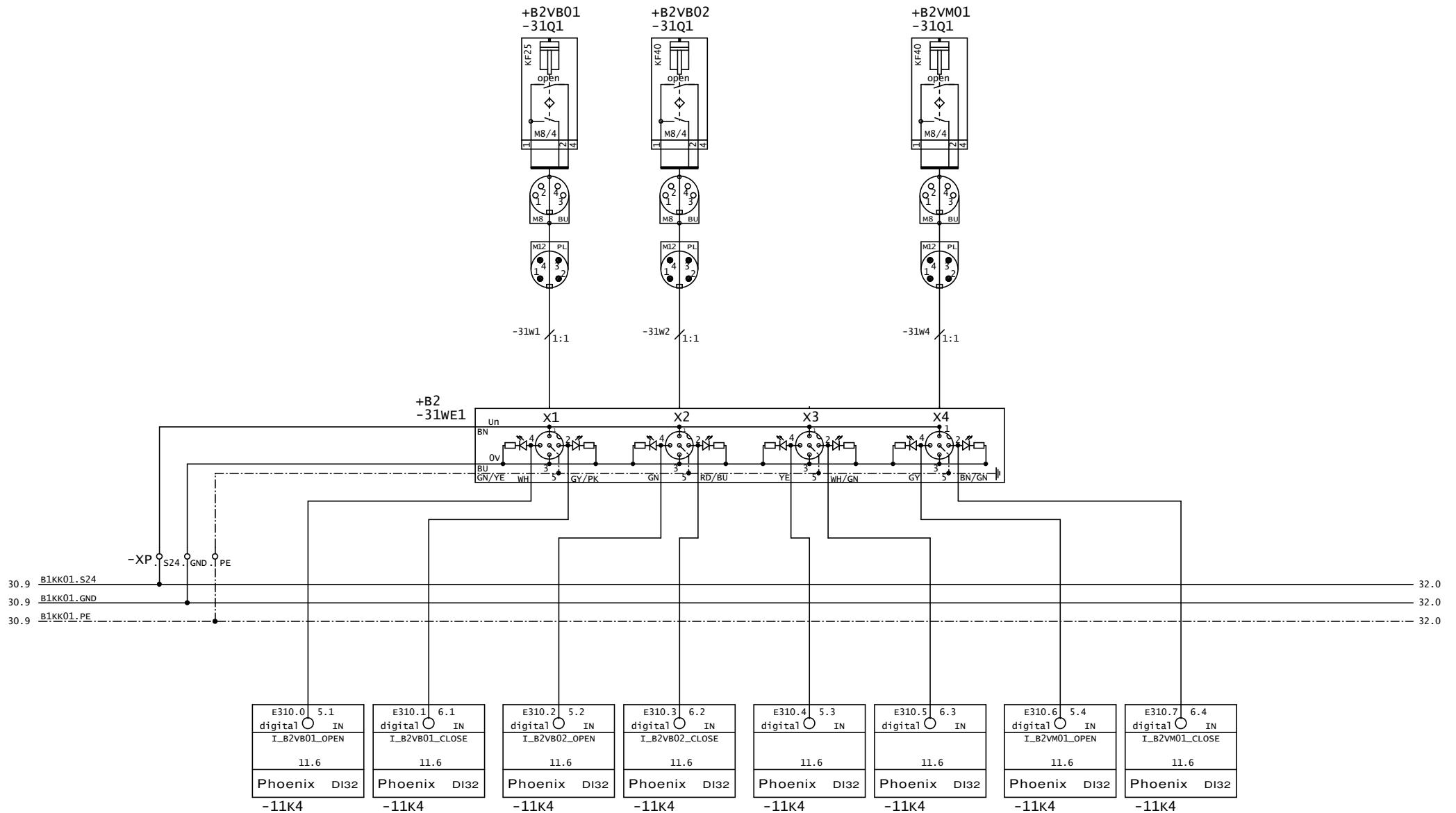
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	B1 digitale input upside	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 29	of 41	
cond.	alter.	date	name	norm				circuit diagram	< 28	30 >	

0	1	2	3	4	5	6	7	8	9
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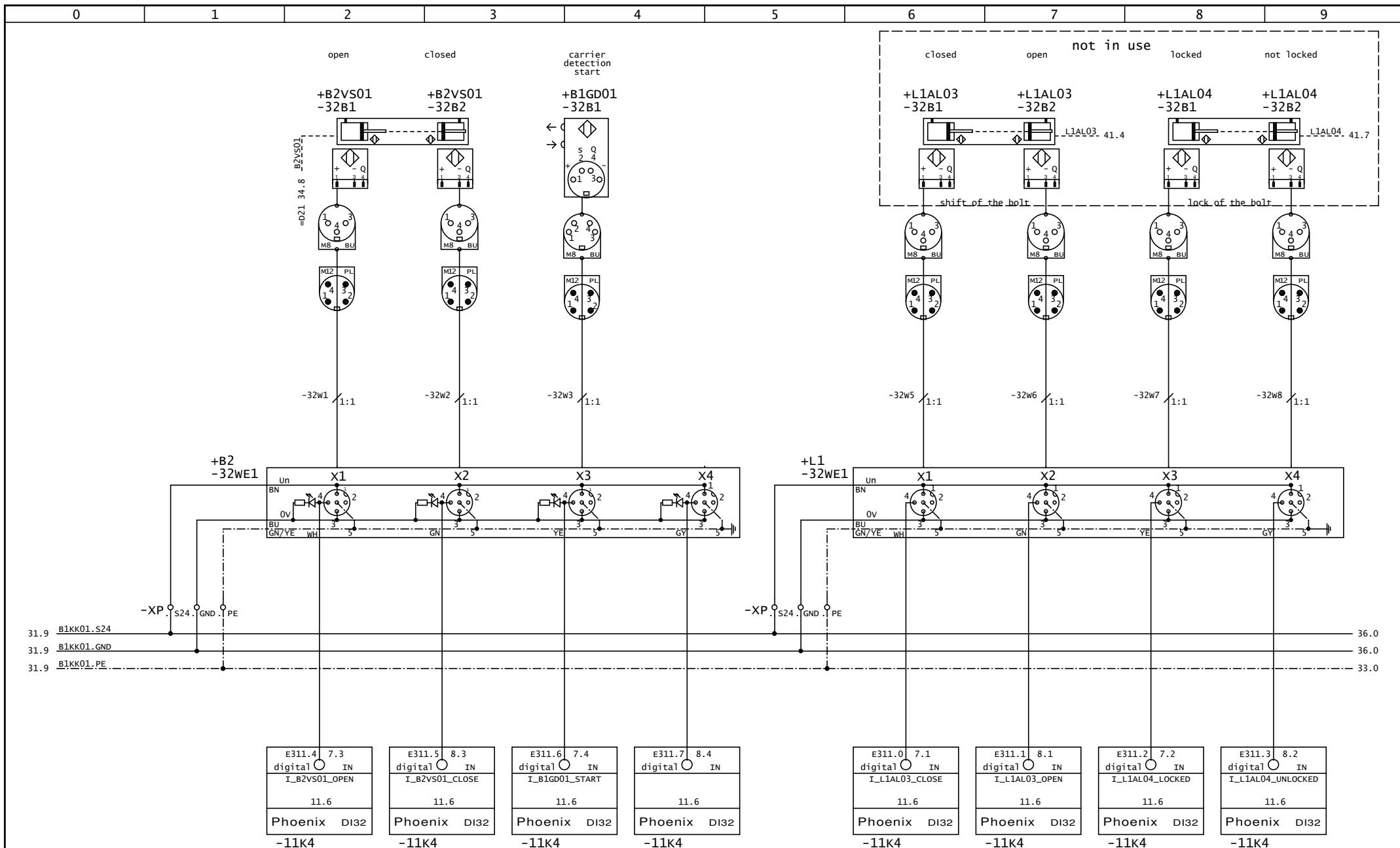


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				devel.	Henker				+B1KK01		
				check					sheet 30	of 41	
cond.	alter.	date	name	norm				circuit diagram	< 29	31 >	

0	1	2	3	4	5	6	7	8	9
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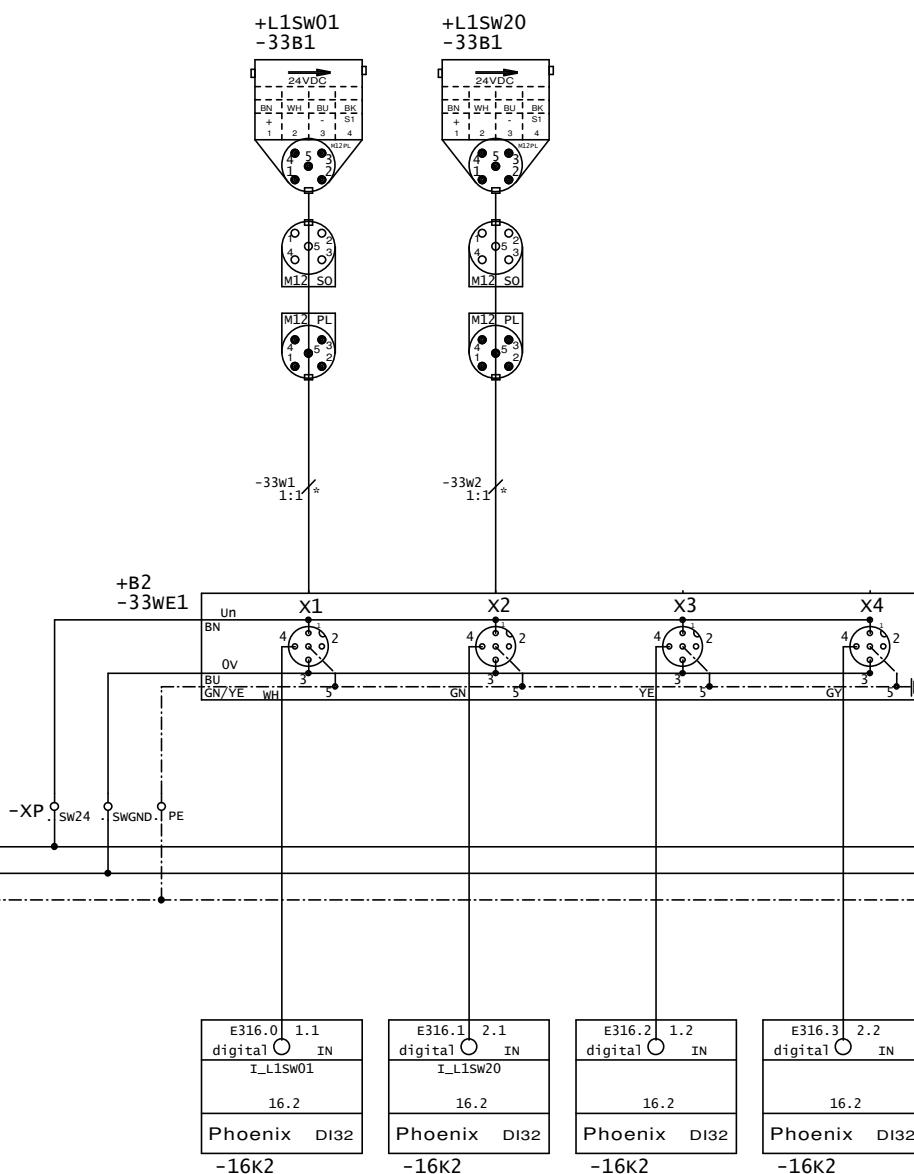


				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	B2 digitale input upside	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 31	of 41	
cond.	alter.	date	name	norm				circuit diagram	< 30	32 >	



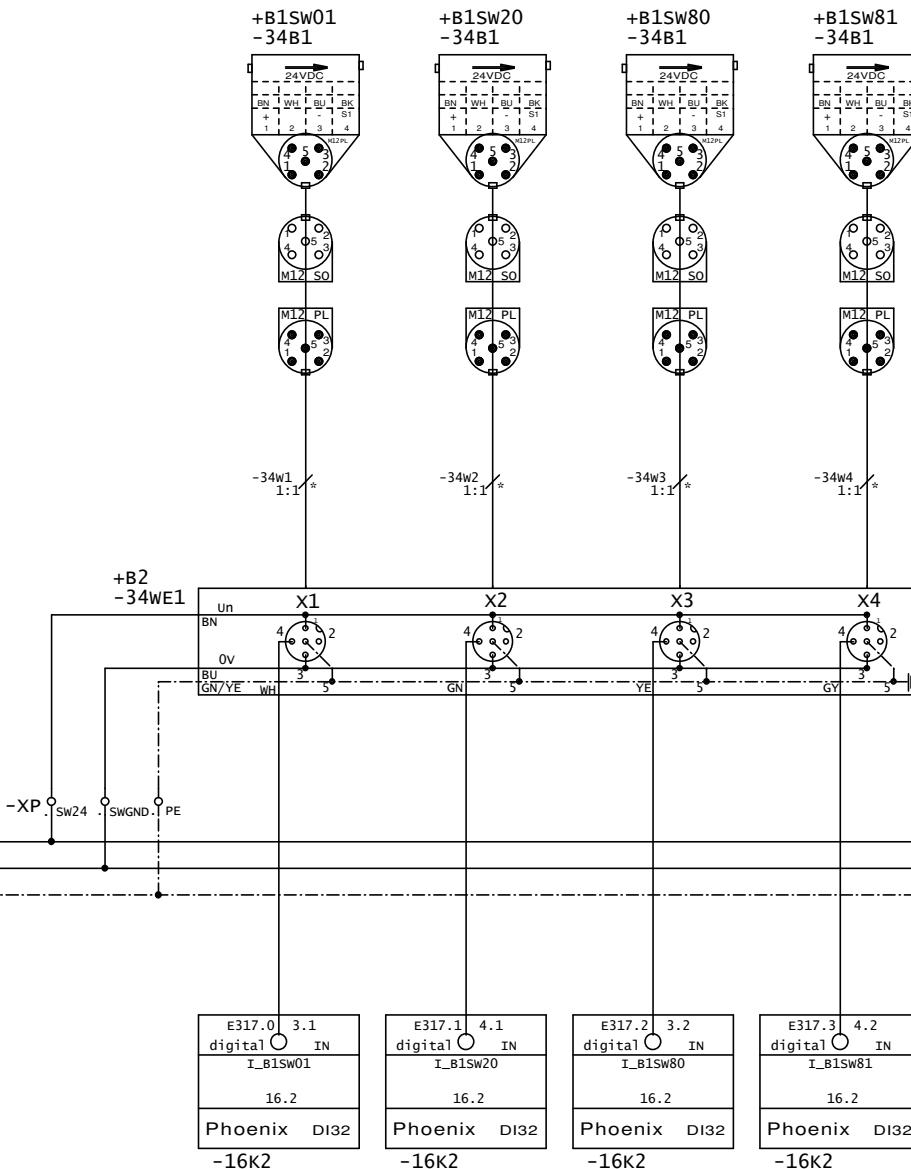
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				devel.	Henker				+B1KK01		
				check					sheet 32	of 41	
cond.	alter.	date	name	norm					< 31	33 >	

0	1	2	3	4	5	6	7	8	9
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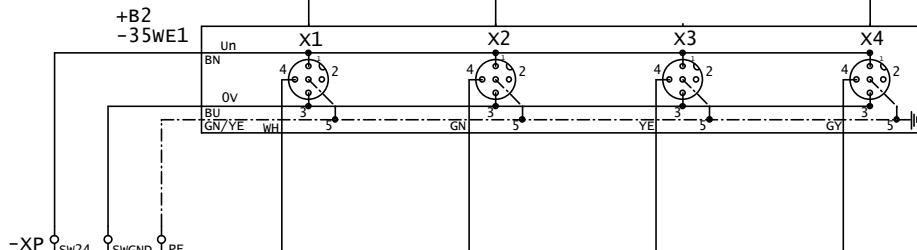
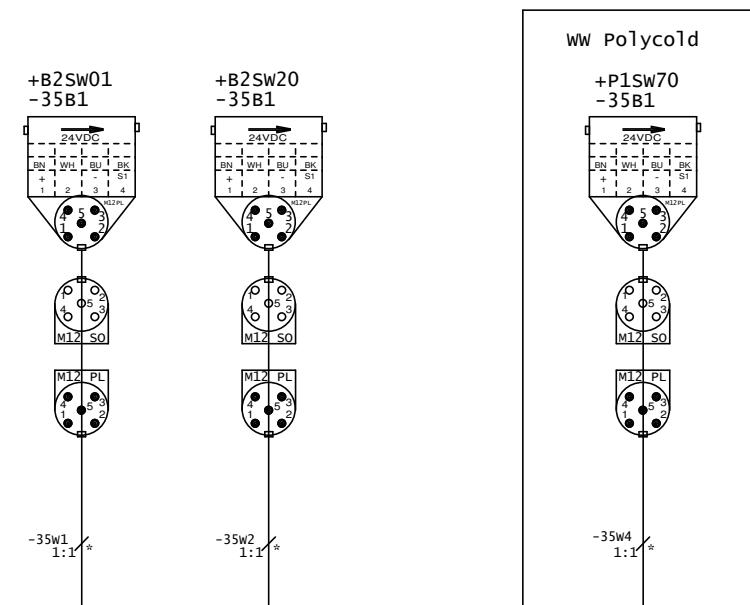
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				devel.	Henker				+B1KK01		
				check					sheet 33	of 41	
cond.	alter.	date	name	norm					< 32	34 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0		flow monitoring B1	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 34	of 41	
cond.	alter.	date	name	norm					< 33		35 >

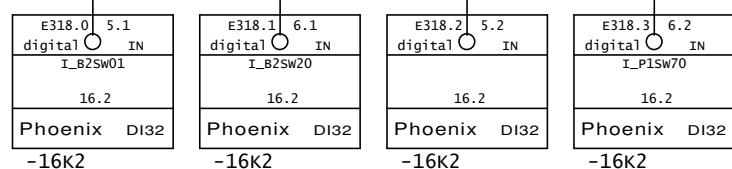
0	1	2	3	4	5	6	7	8	9
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34.9 B1KK01.W24

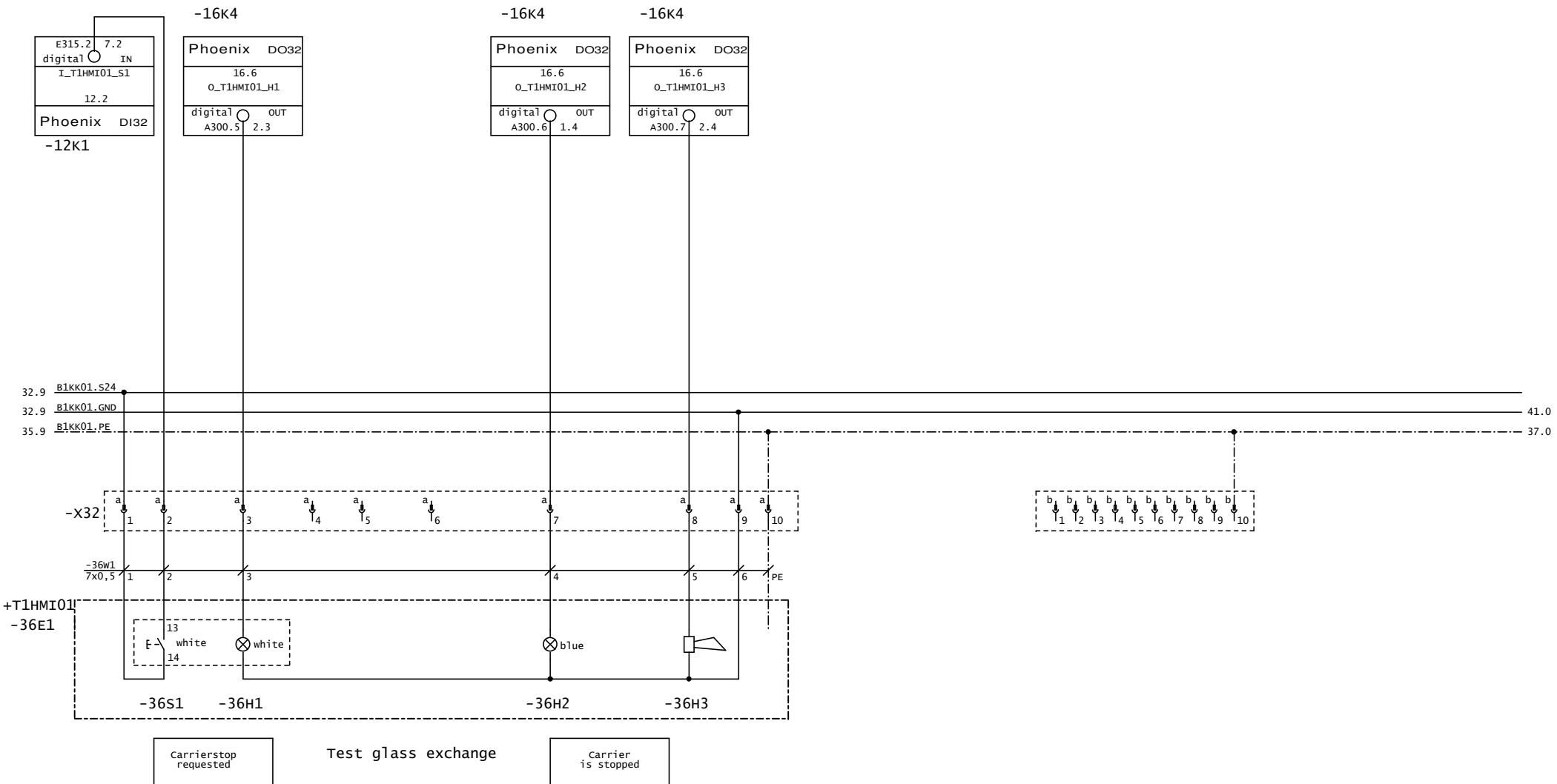
34.9 B1KK01.WGND

34.9 B1KK01.PE ----- 36.0



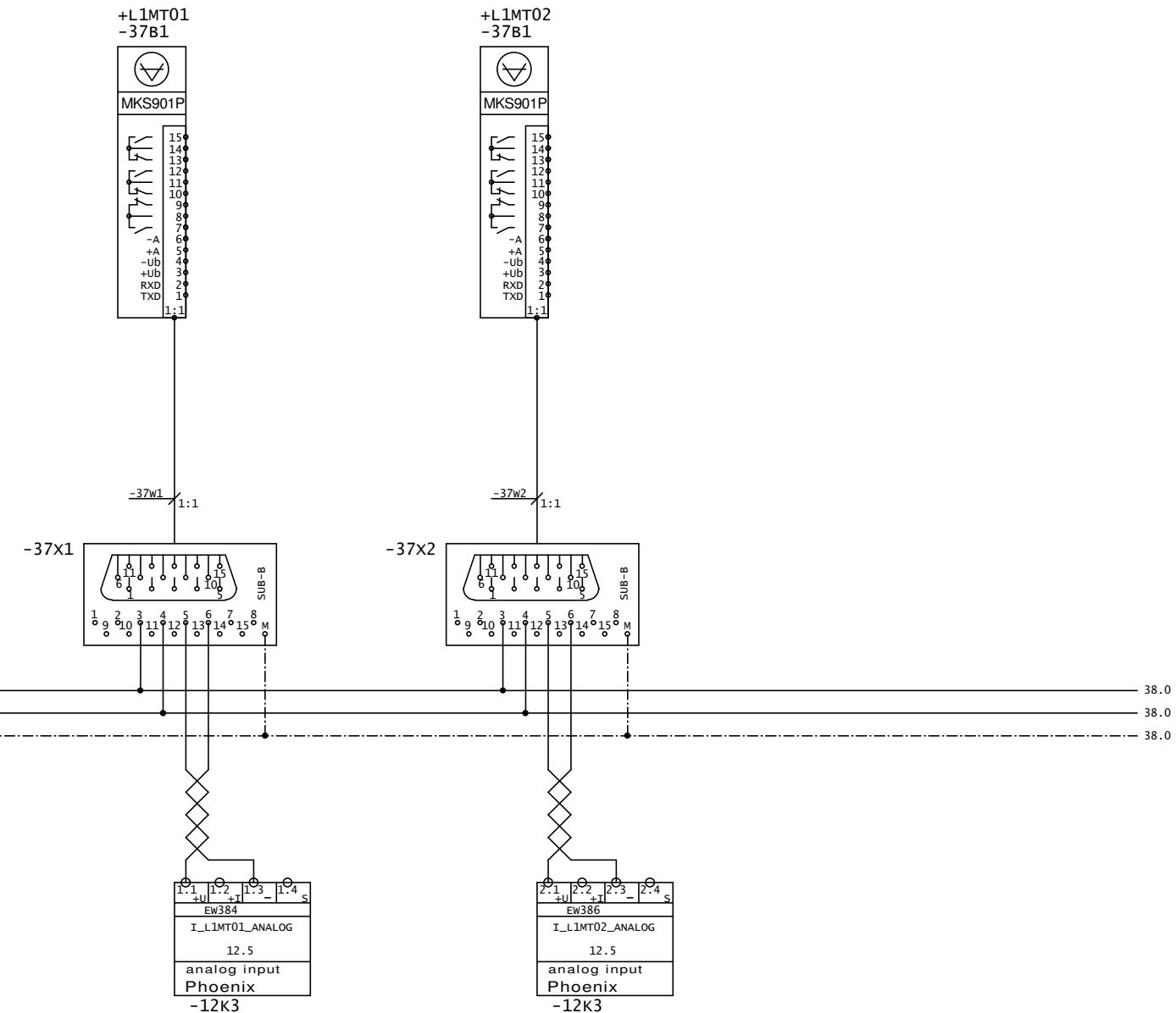
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				devel.	Henker				+B1KK01		
				check					sheet 35	of 41	
cond.	alter.	date	name	norm				circuit diagram			< 34      36 >

0	1	2	3	4	5	6	7	8	9
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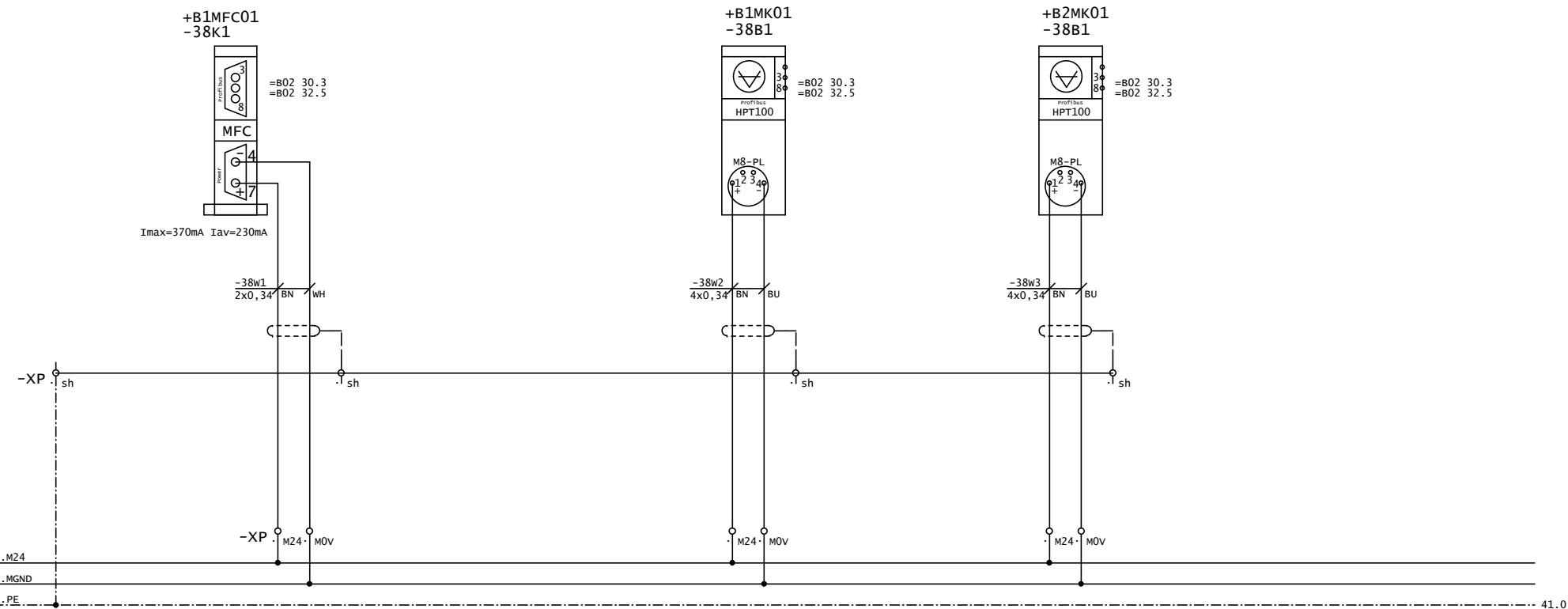
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				devel.	Henker				+B1KK01		
				check					sheet 36	of 41	
cond.	alter.	date	name	norm					< 35		37 >

0	1	2	3	4	5	6	7	8	9
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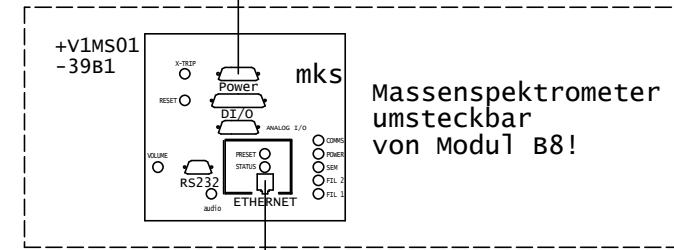
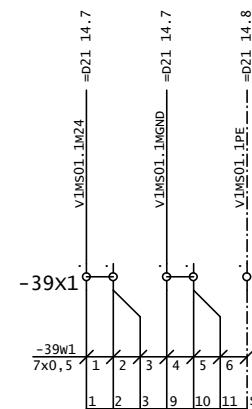
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				devel.	Henker				+B1KK01		
				check					sheet 37	of 41	
cond.	alter.	date	name	norm					< 36	38 >	

0	1	2	3	4	5	6	7	8	9
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				devel.	Henker				+B1KK01		
				check					sheet 38	of 41	
cond.	alter.	date	name	norm				circuit diagram	< 37	39 >	

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+B2  
-39X1



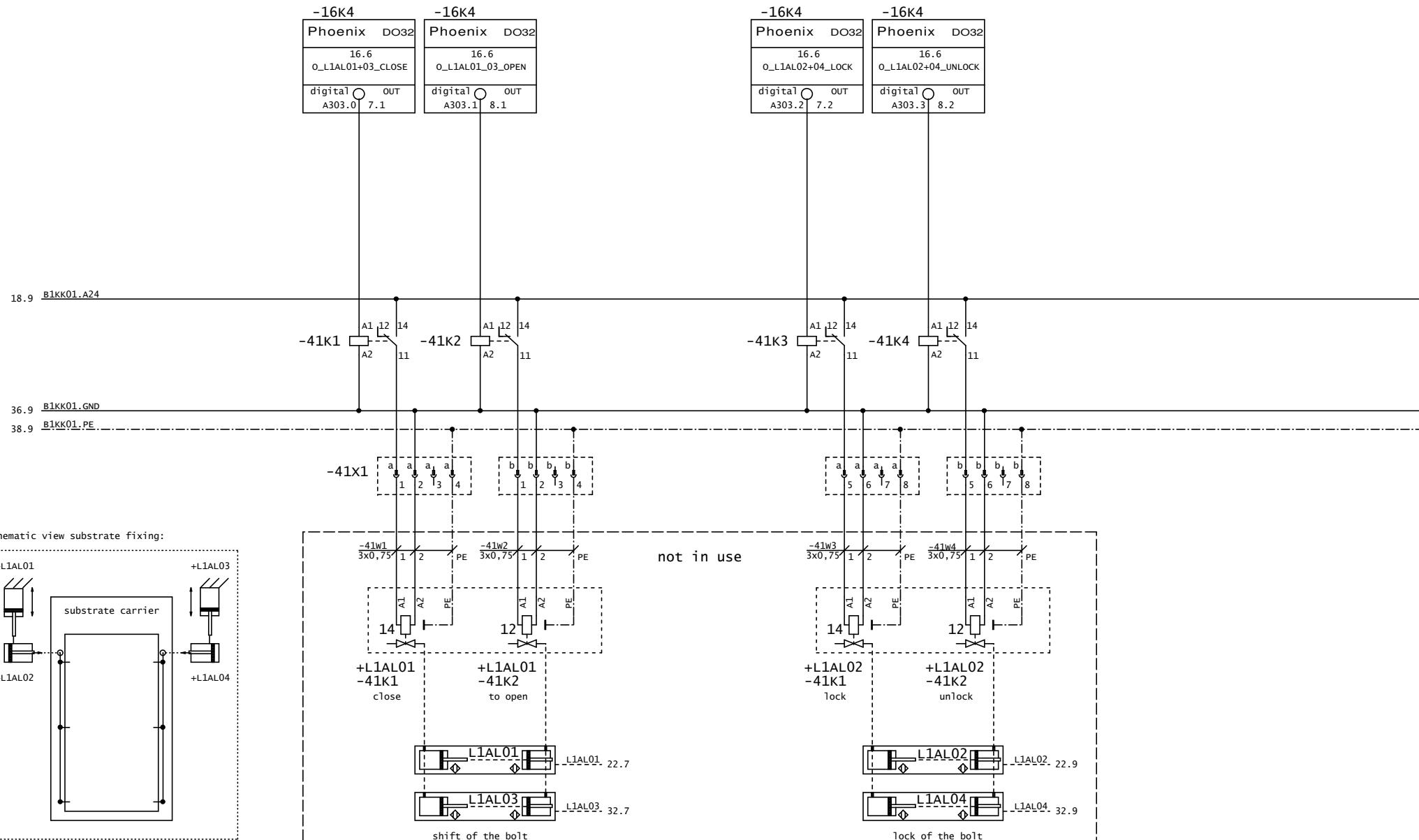
=D21\_21.1 V1MS01\_1ETN

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				devel.	Henker				+B1KK01		
				check					sheet 39 of 41		
cond.	alter.	date	name	norm					< 38	40 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	mass spectrometer	388-810000	P/005388	=M30
				devel.	Henker				+B1KK01		
				check					sheet 40	of 41	
cond.	alter.	date	name	norm					< 39	41 >	

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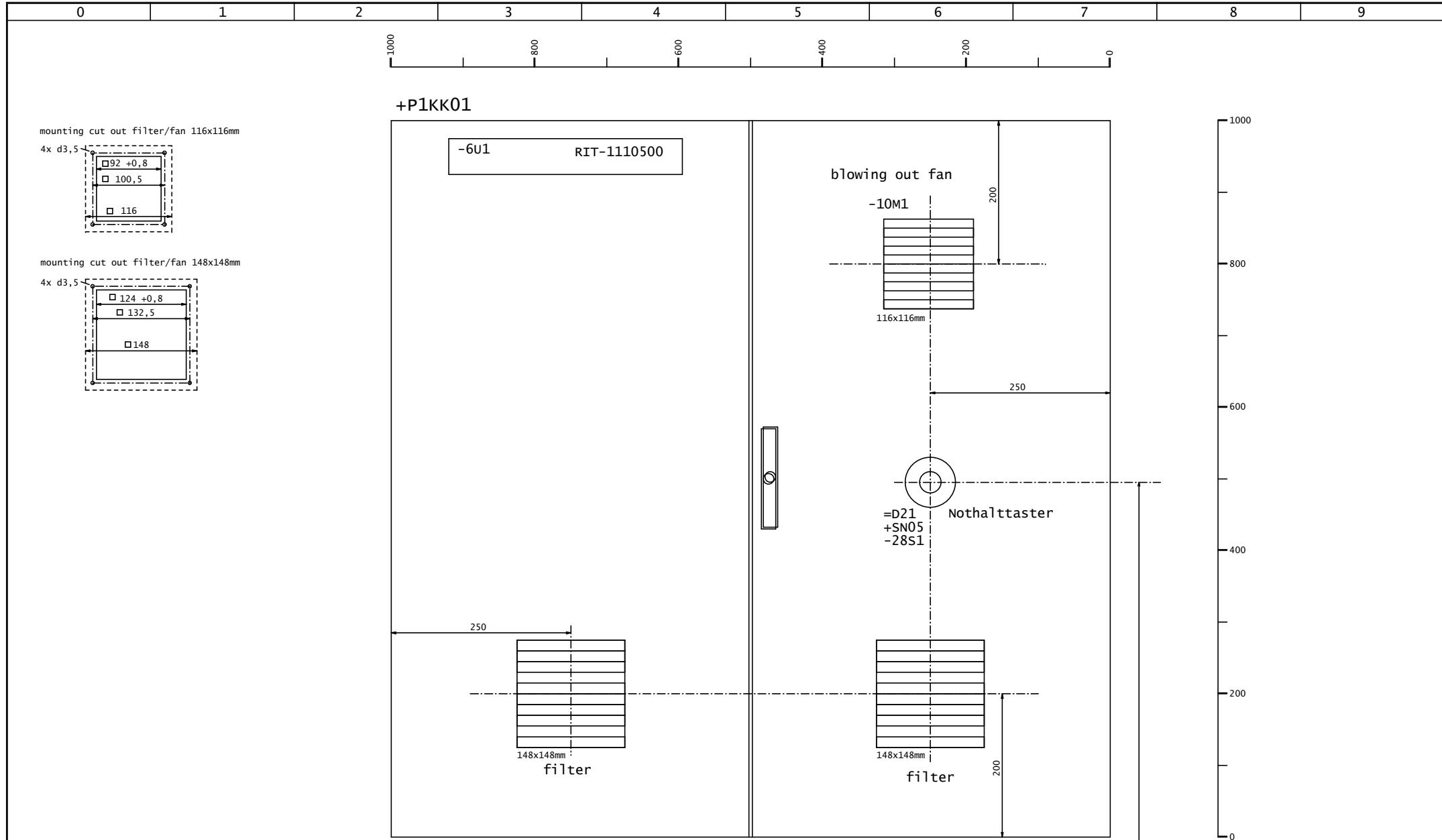
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				devel.	Henker						+B1KK01
				check							sheet 41 of 41
cond.	alter.	date	name	norm					circuit diagram		< 40 =M31/6 >

# partial arrangement:

## =M31

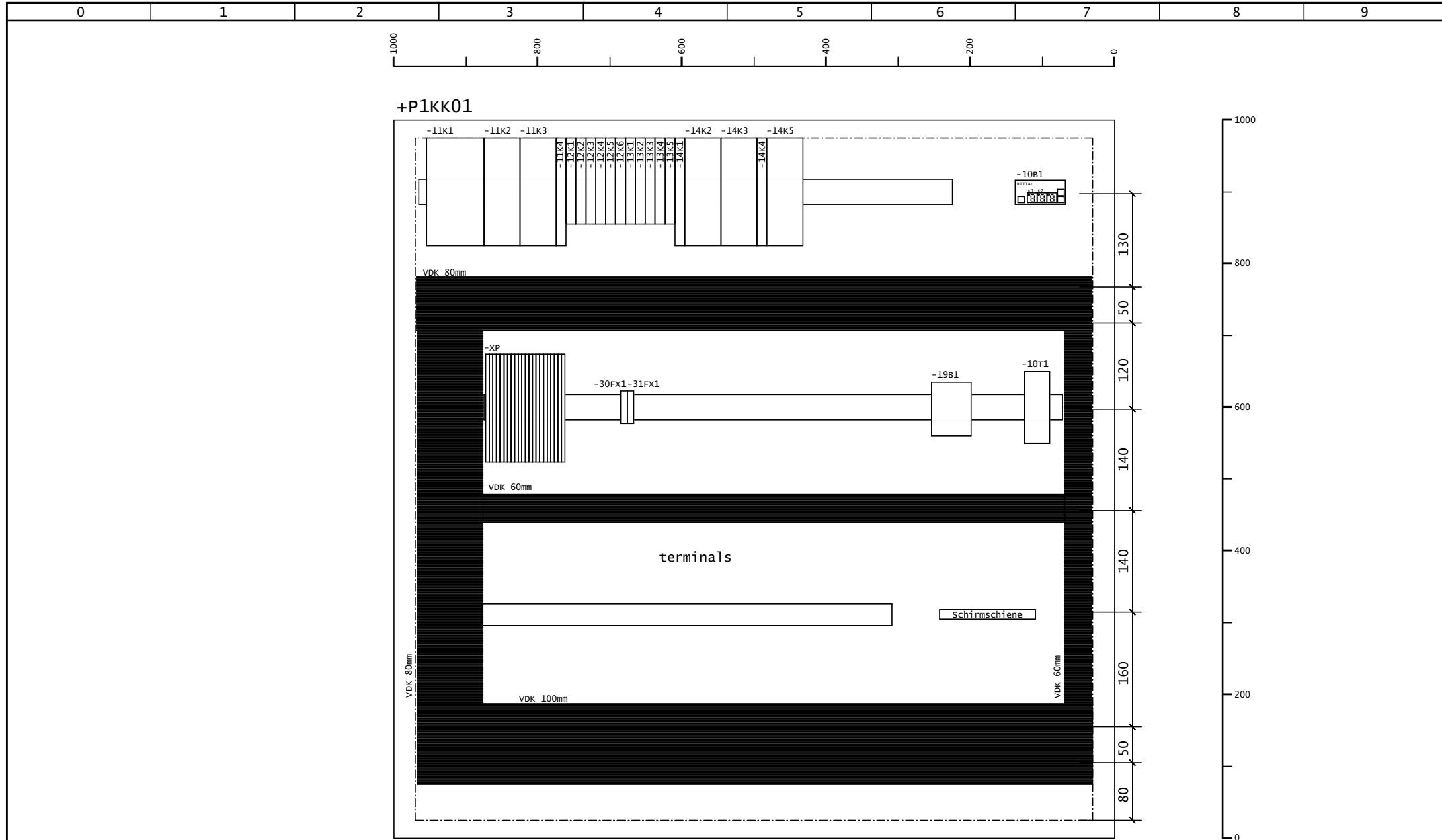
### actuators/ sensors module: P1

machine number:	011003	year of manufacture:	>
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000



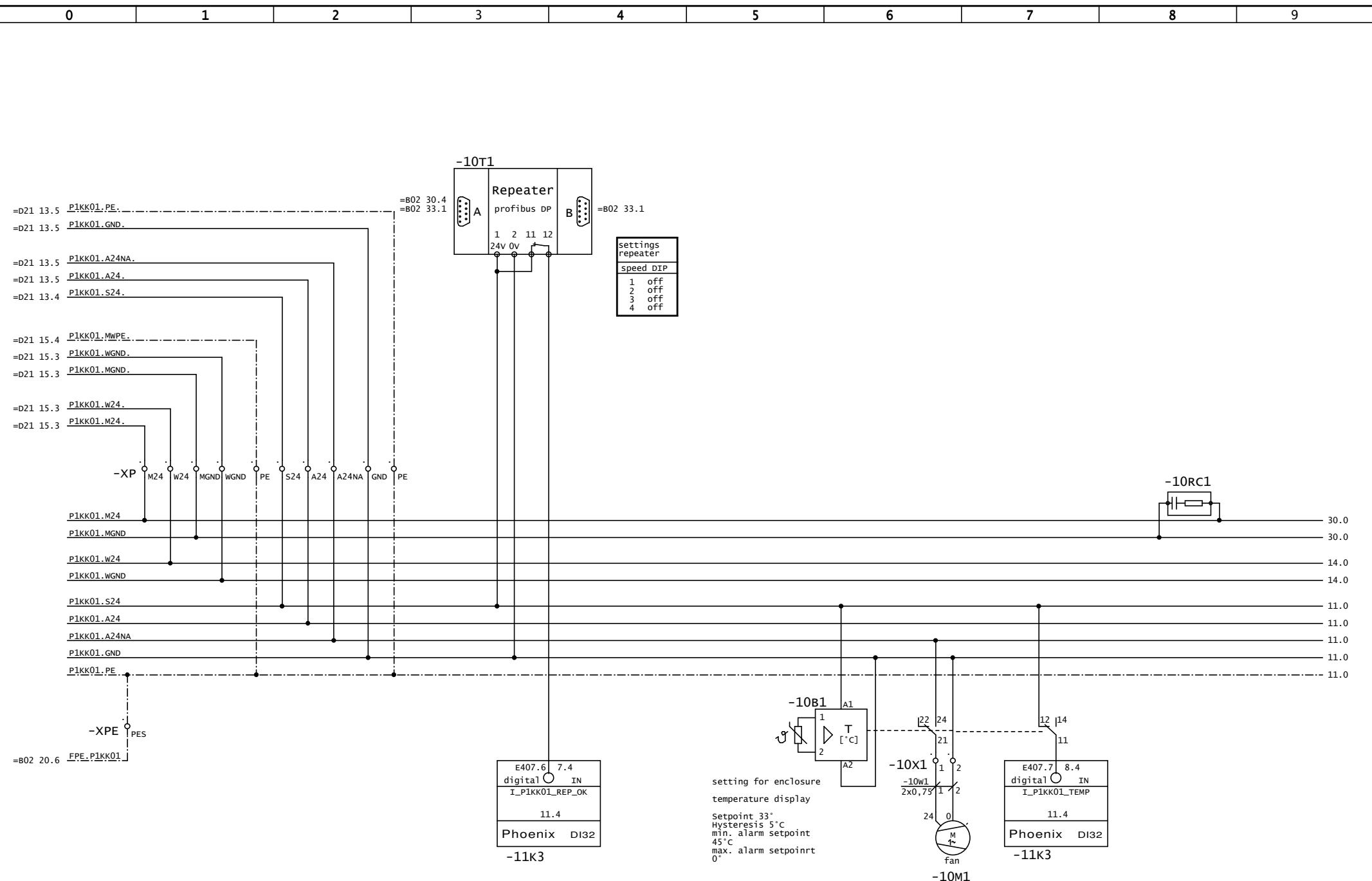
Scale (wscad): 1:5  
 equipment dimensions: (wide x height x deep)  
 all dimensions in mm  
 all dimensions only approximated!

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				devel.	Henker						+P1KK01
				check							
cond.	alter.	date	name	norm							sheet 6 of 31 <=M30/41 7 >



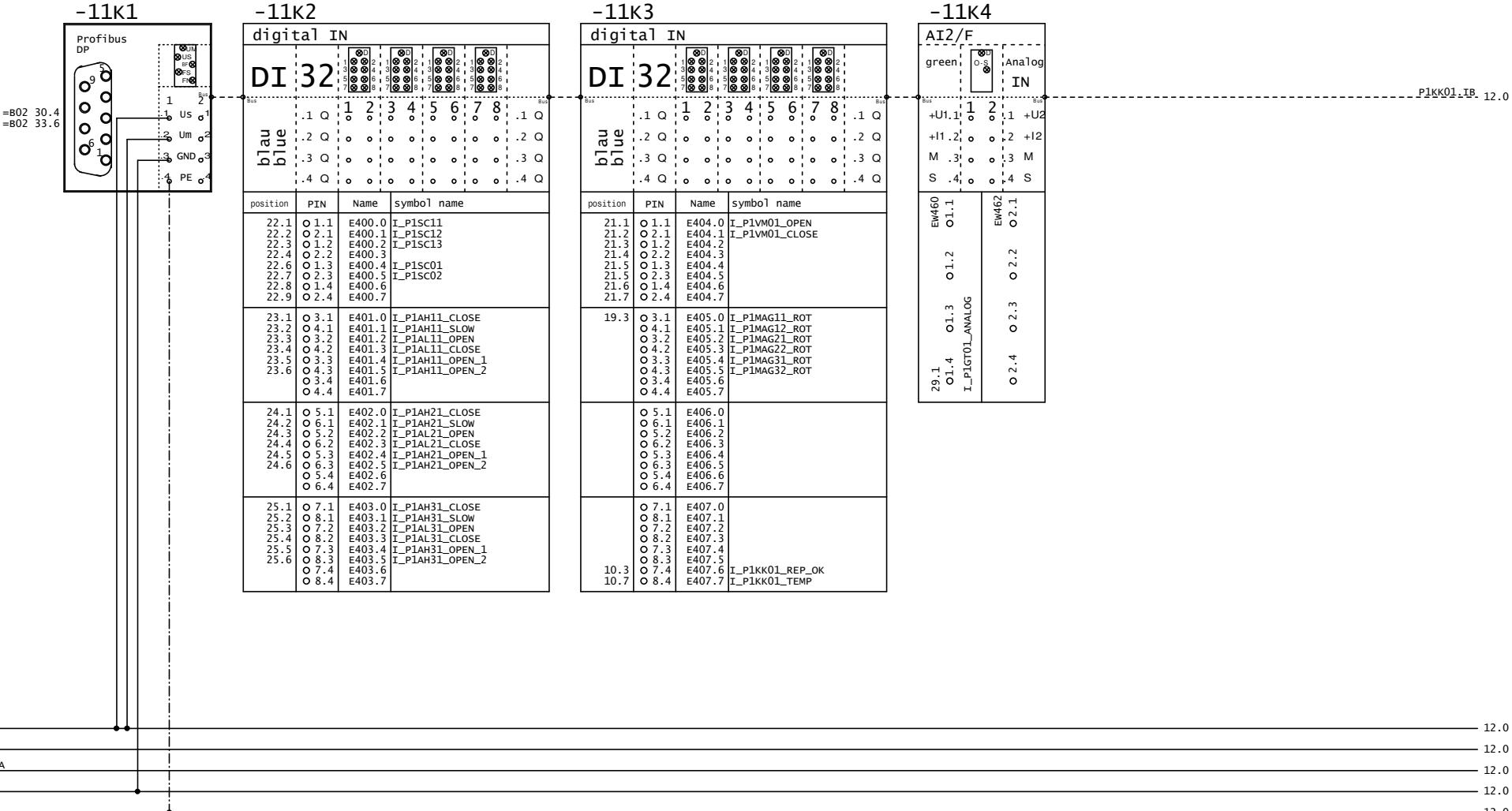
equipment dimentions: (wide x heigth x deep)  
 all dimensions in mm  
 all dimensions only approximated!

					date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	mounting plate	388-810000	P/005388	=M31
					devel.	Henker						+P1KK01
					check							
cond.	alter.	date	name	norm						layout		sheet 7 of 31 < 6 10 >



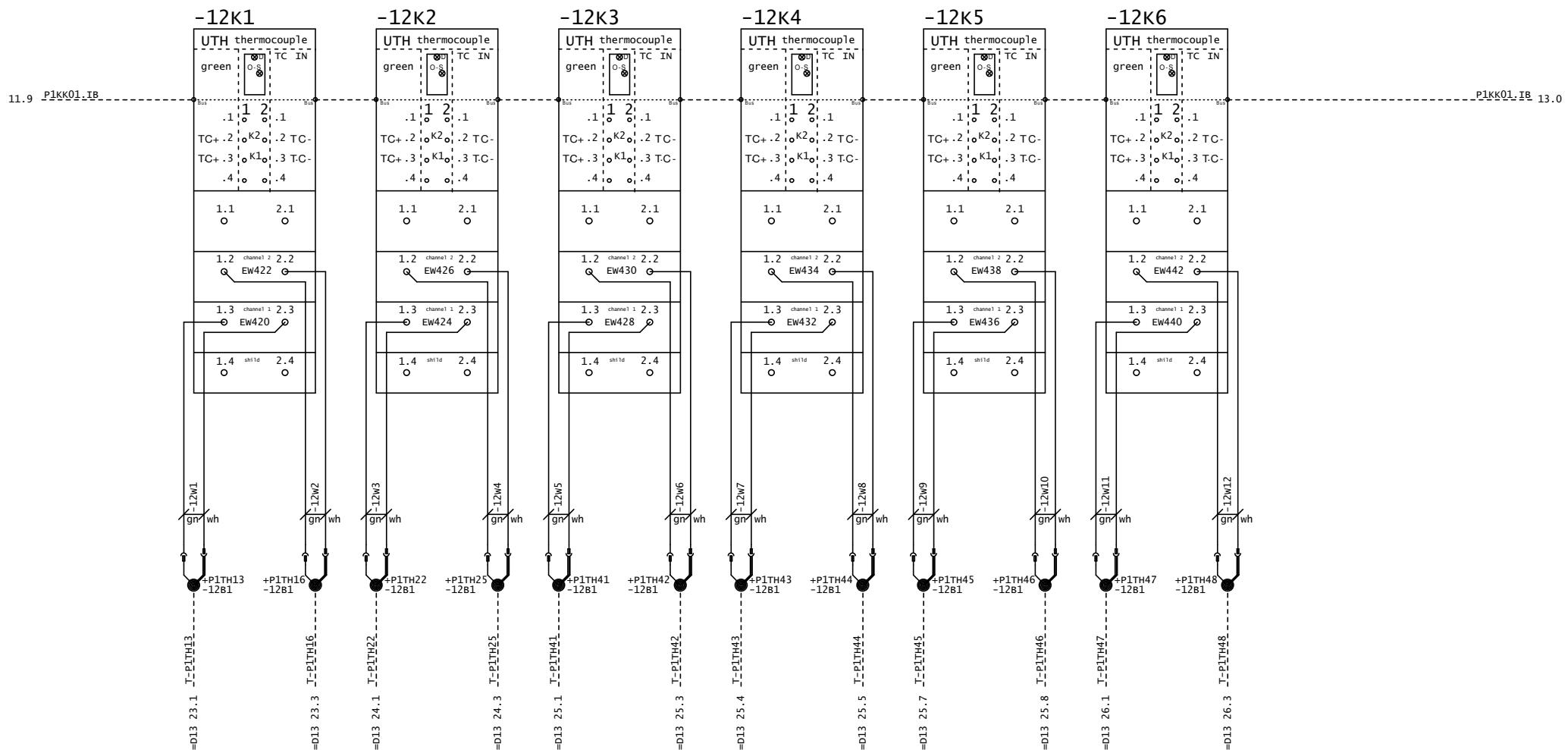
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				devel.	Henker				+P1KK01		
				check					sheet 10	of 31	
cond.	alter.	date	name	norm					< 7	11 >	

0	1	2	3	4	5	6	7	8	9
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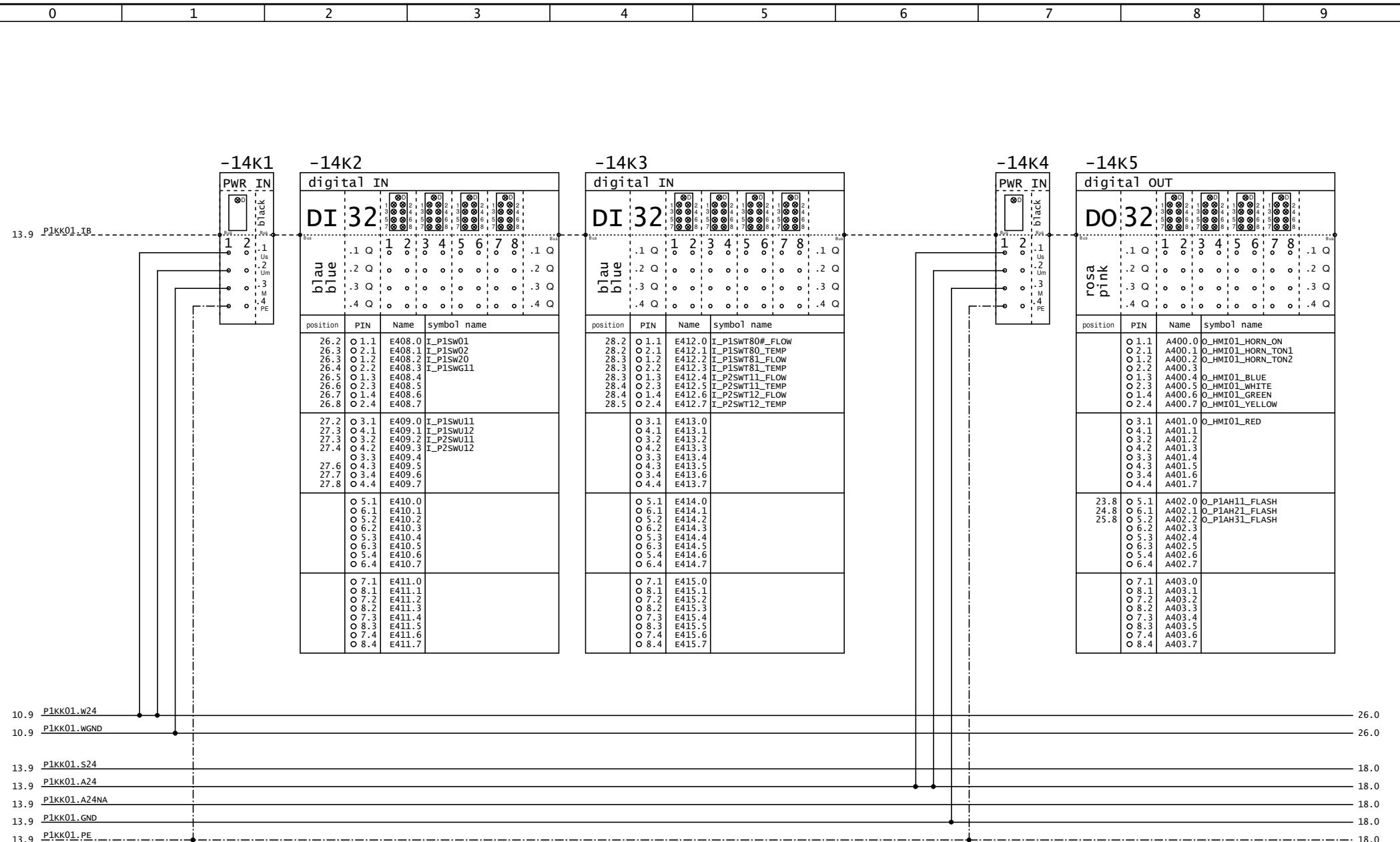
				date	12/05	A1500V-7 iznO_AZ0		digital I/O	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 11	of 31	
cond.	alter.	date	name	norm					< 10	12 >	

0	1	2	3	4	5	6	7	8	9
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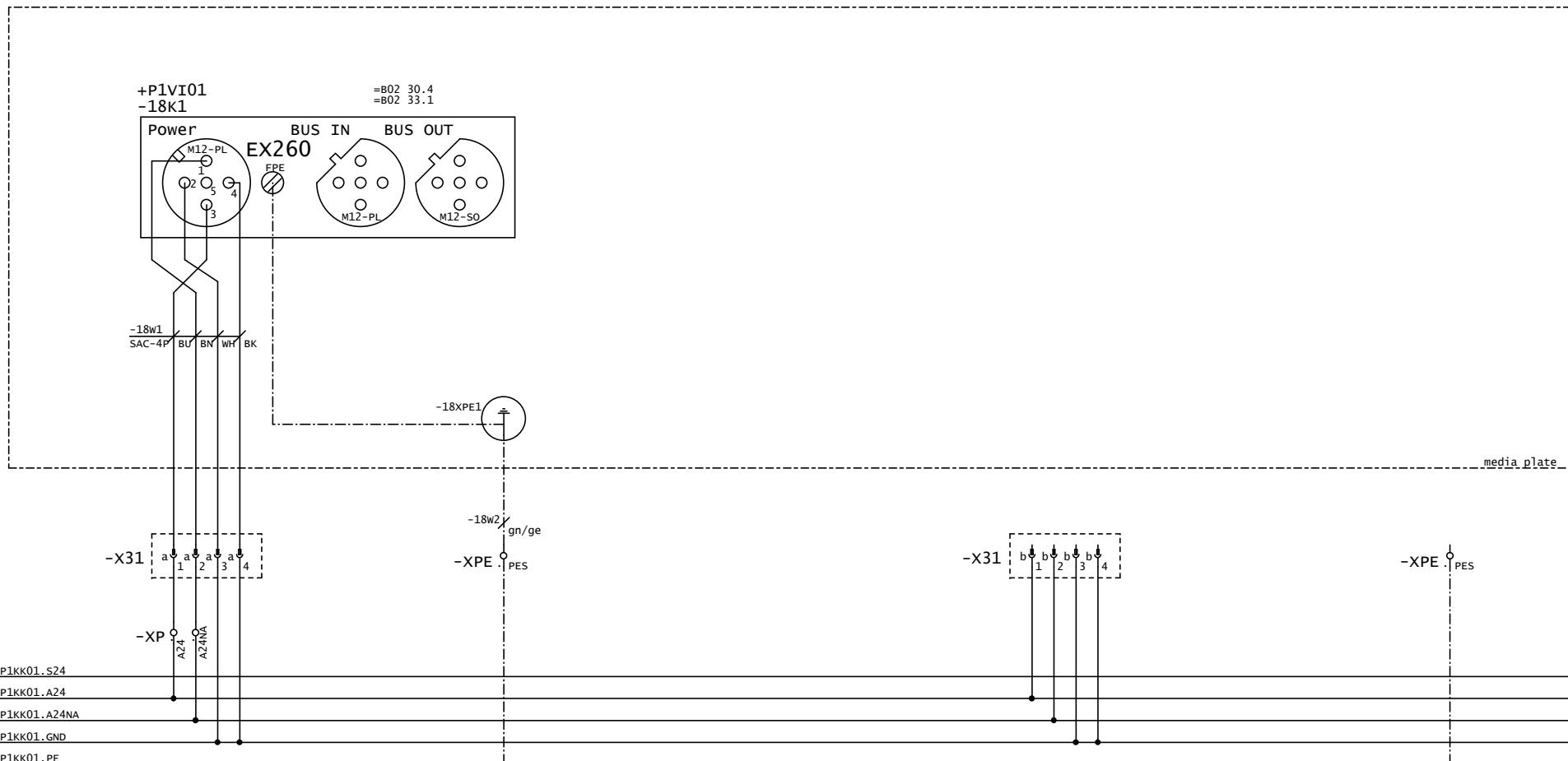


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				devel.	Henker				+P1KK01		
				check					sheet 12	of 31	
cond.	alter.	date	name	norm					< 11	13 >	



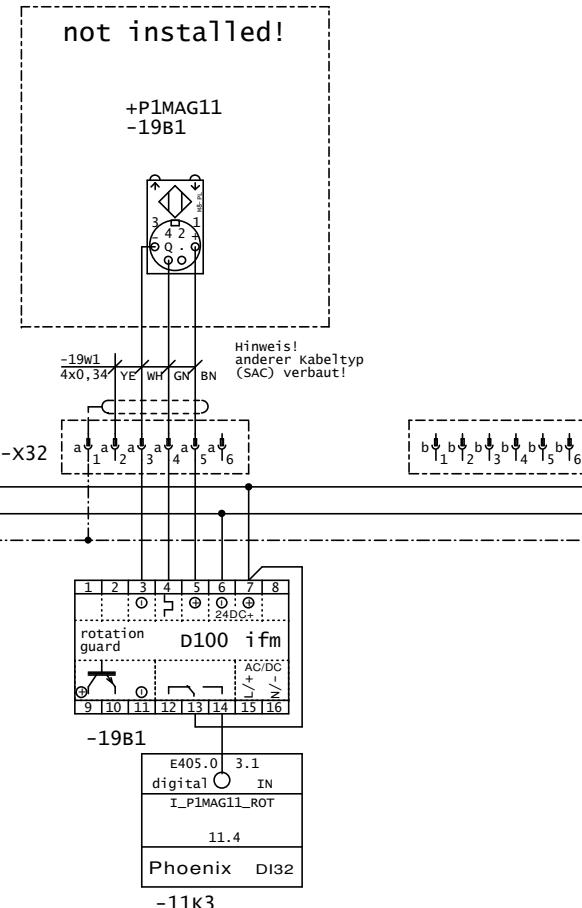


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				devel.	Henker						+P1KK01
				check							
cond.	alter.	date	name	norm					circuit diagram		sheet 18 of 31 < 14 19 >

0	1	2	3	4	5	6	7	8	9
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setting for  
D100

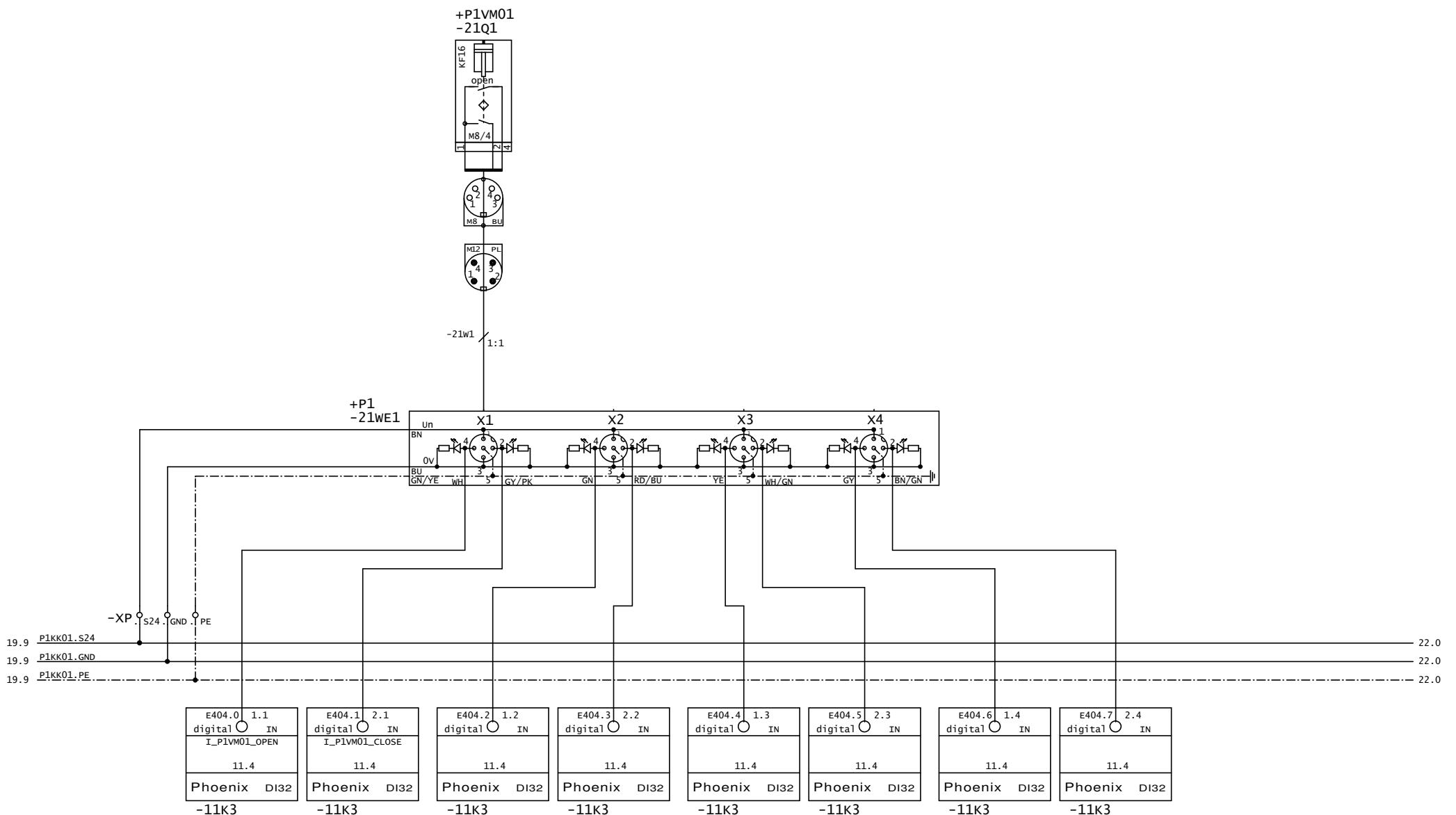
starting time: 5s  
pulse/min: 35  
hysteresis: 5%

speed

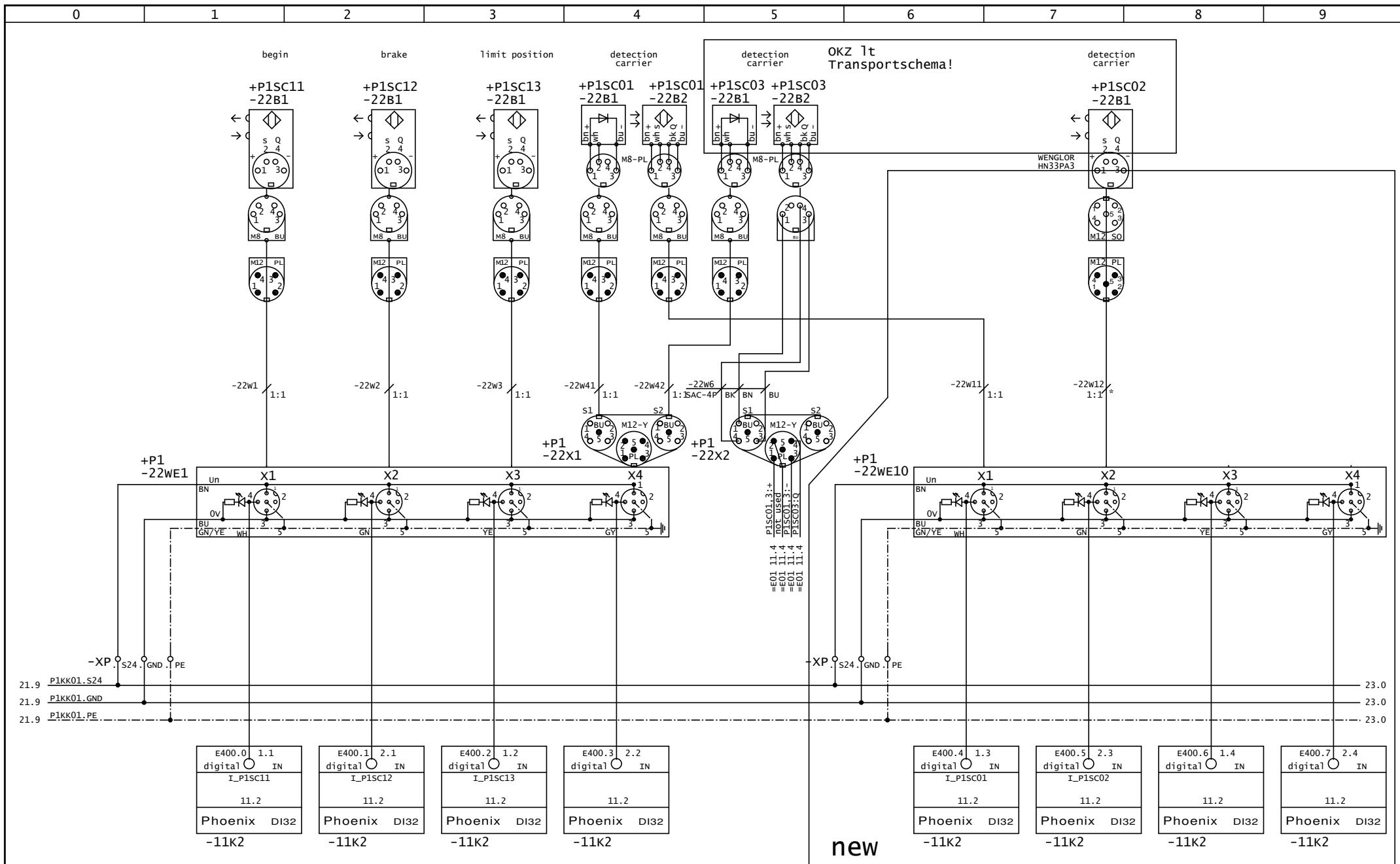
P1MAG11

				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	rotation monitoring	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 19	of 31	
cond.	alter.	date	name	norm					< 18	21 >	

0	1	2	3	4	5	6	7	8	9
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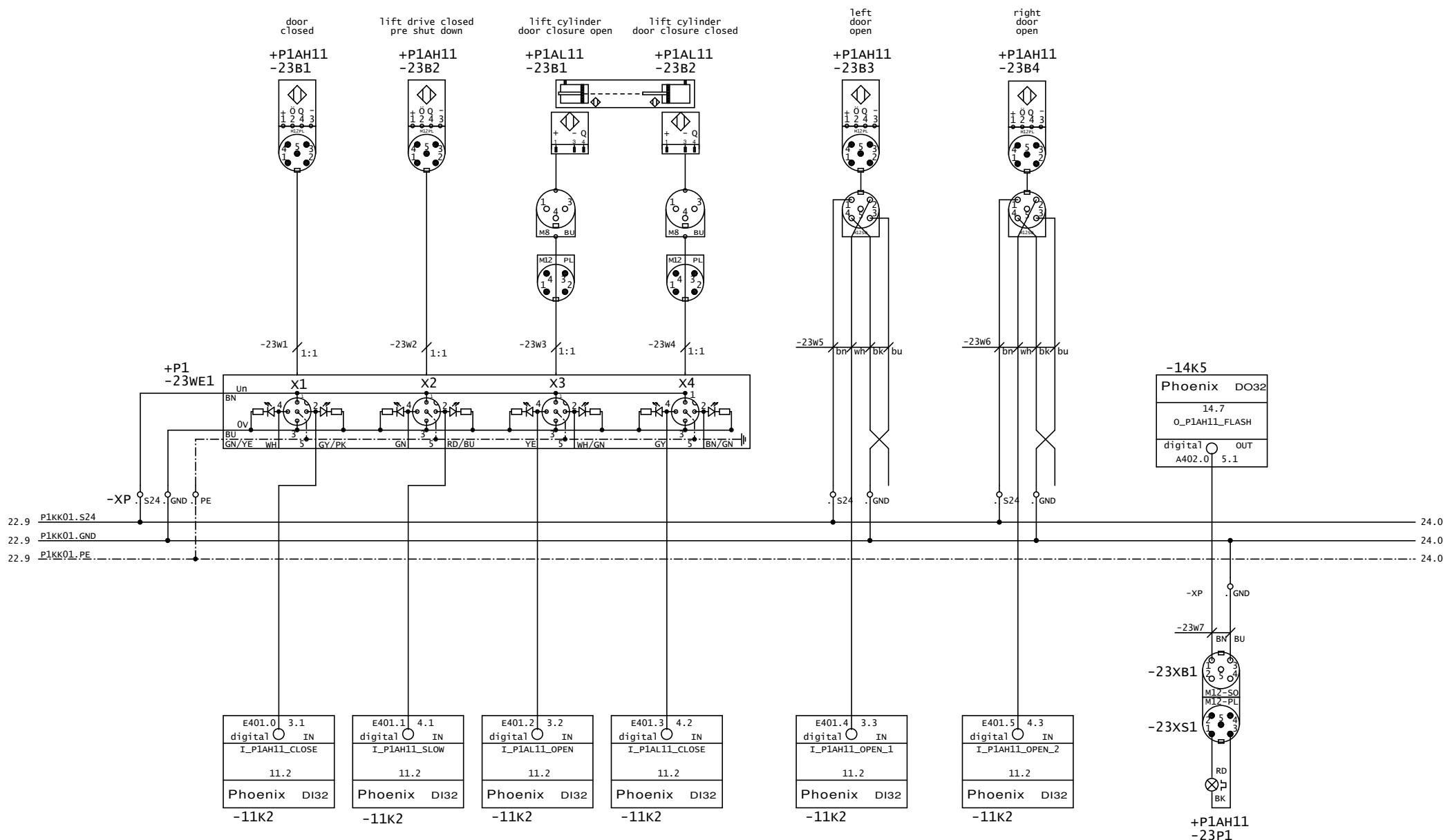


				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	P1 digitale input upside	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 21 of 31		
cond.	alter.	date	name	norm					< 19	22 >	



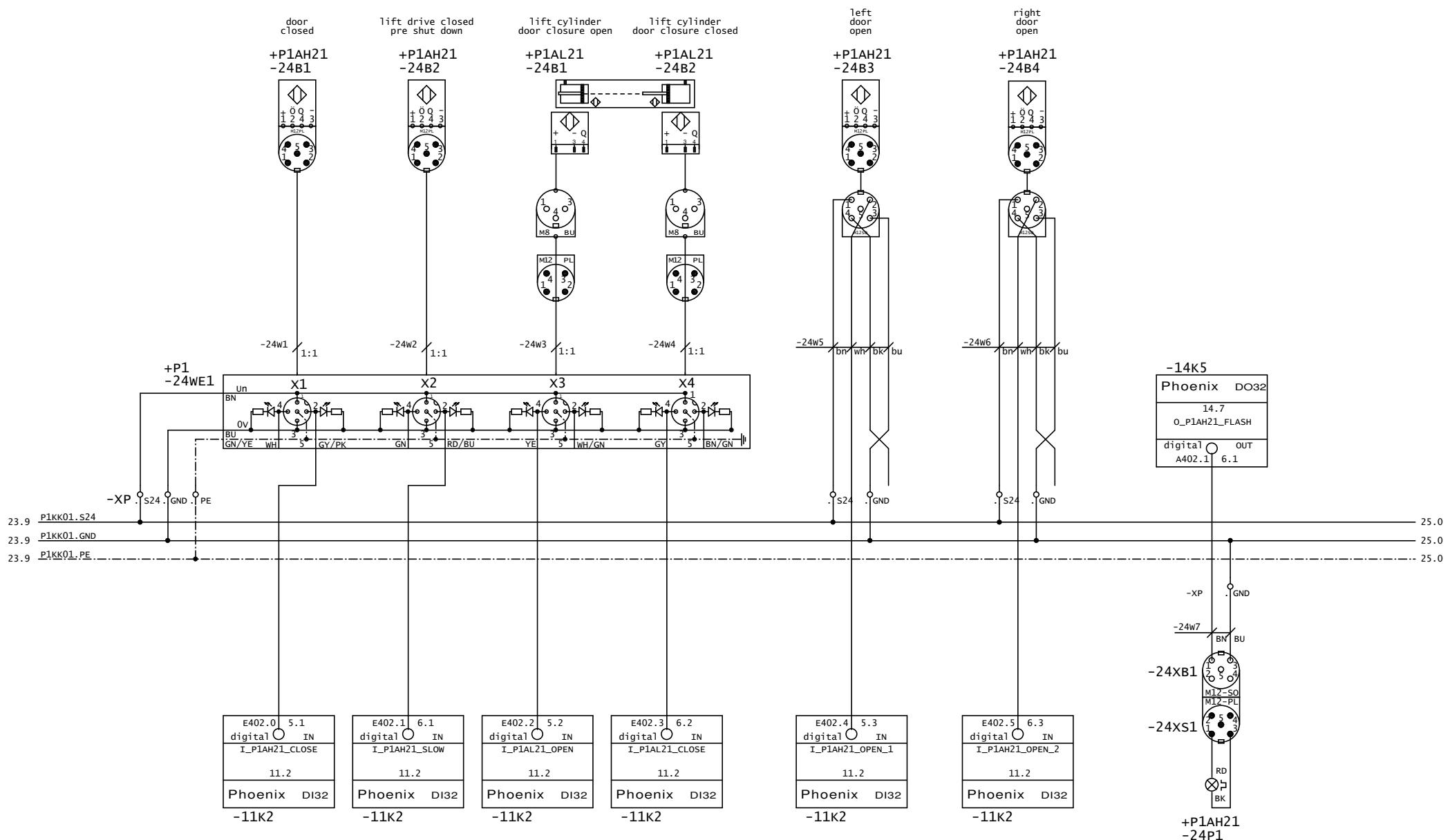
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	P1SC	388-810000	P/005388	=M31
				devel.	Henker					+P1KK01	
				check						sheet 22 of 31	
cond.	alter.	date	name	norm						< 21 23 >	

0	1	2	3	4	5	6	7	8	9
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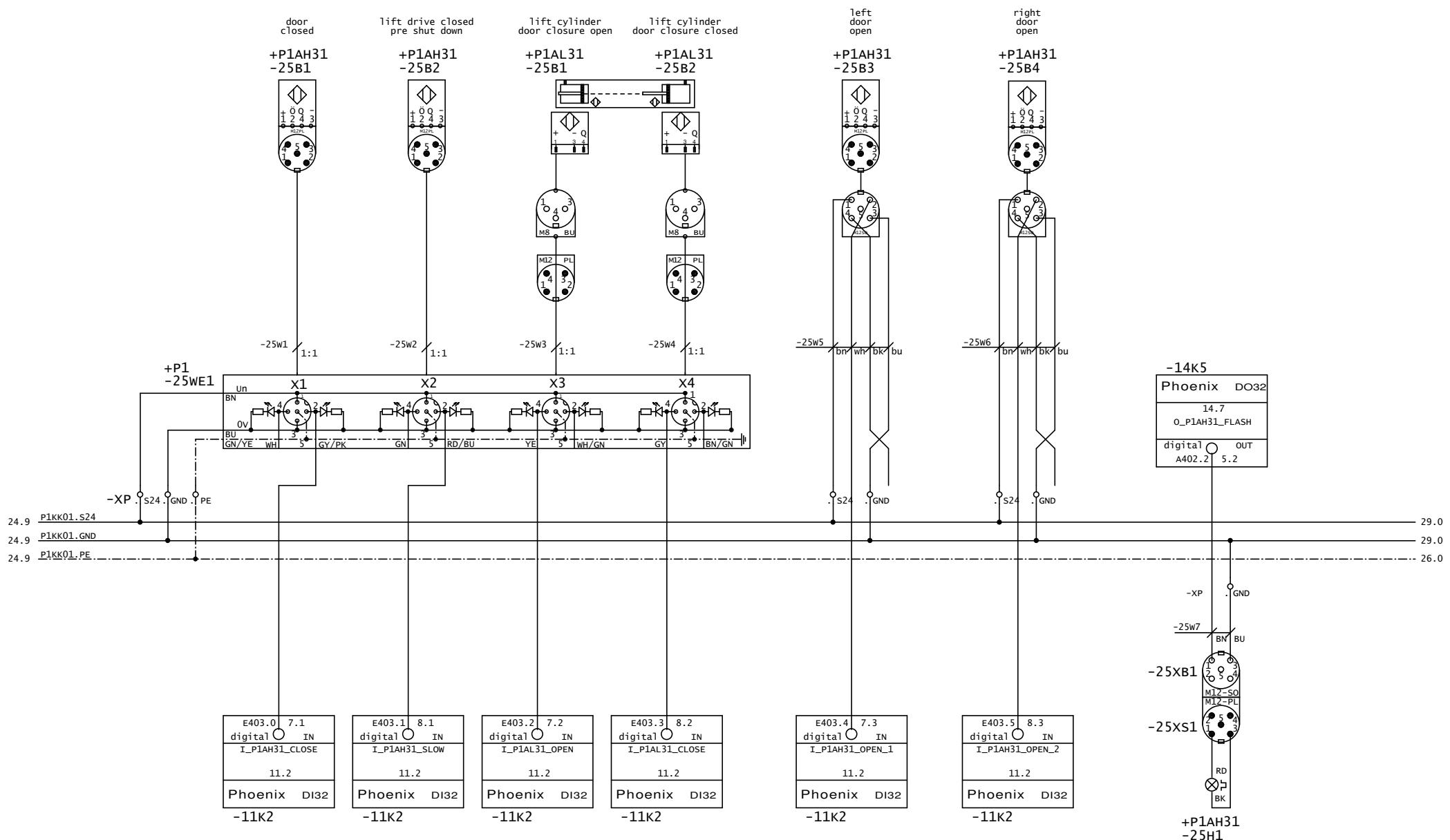
				date	12/05	A1500V-7 izn0_AZ0	<b>LEYBOLD OPTICS</b>	door control - sensors folding flange 1	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 23	of 31	
cond.	alter.	date	name	norm					< 22	24 >	

0	1	2	3	4	5	6	7	8	9
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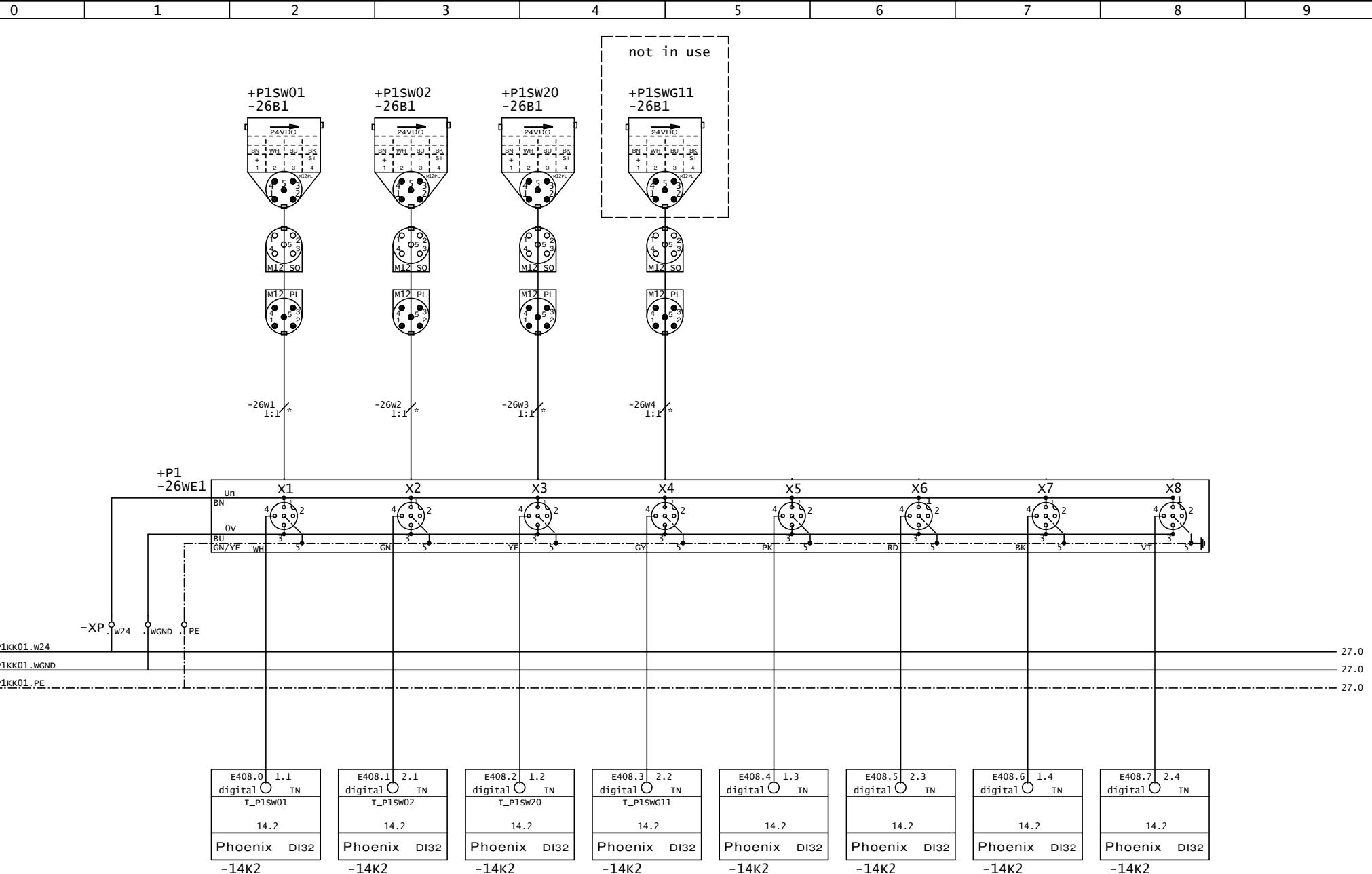


				date	12/05	A1500V-7 izn0_AZ0		door control - sensors folding flange 2	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 24	of 31	
cond.	alter.	date	name	norm					< 23	25 >	

0	1	2	3	4	5	6	7	8	9
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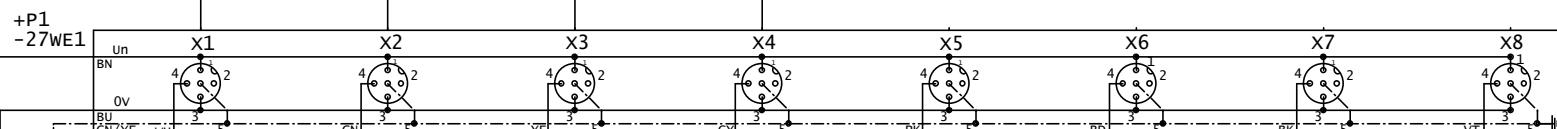
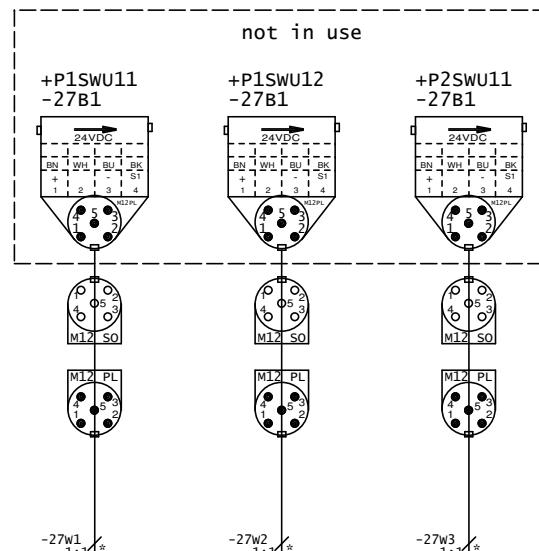


				date	12/05	A1500V-7 izn0_AZ0		door control - sensors folding flange 3	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 25	of 31	
cond.	alter.	date	name	norm					< 24	26 >	

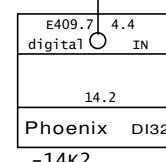
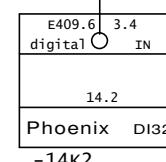
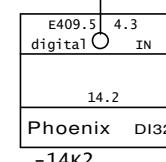
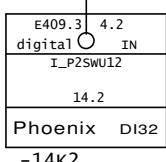
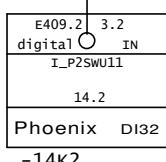
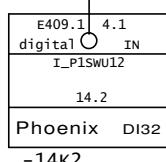
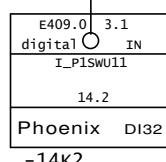


				date	12/05	A1500V-7 izn0_AZ0		flow monitoring P1	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 26	of 31	
cond.	alter.	date	name	norm					< 25		27 >

0	1	2	3	4	5	6	7	8	9
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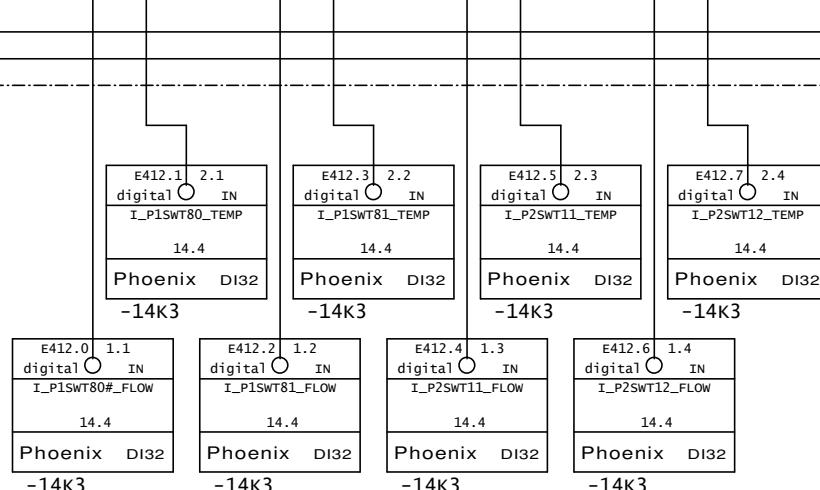
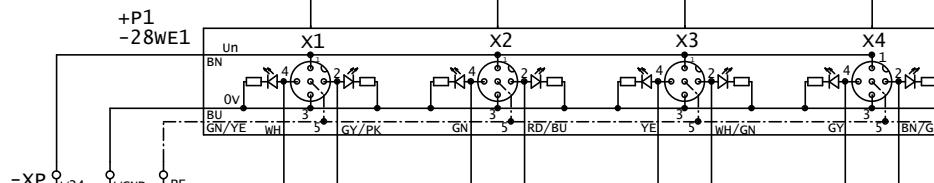
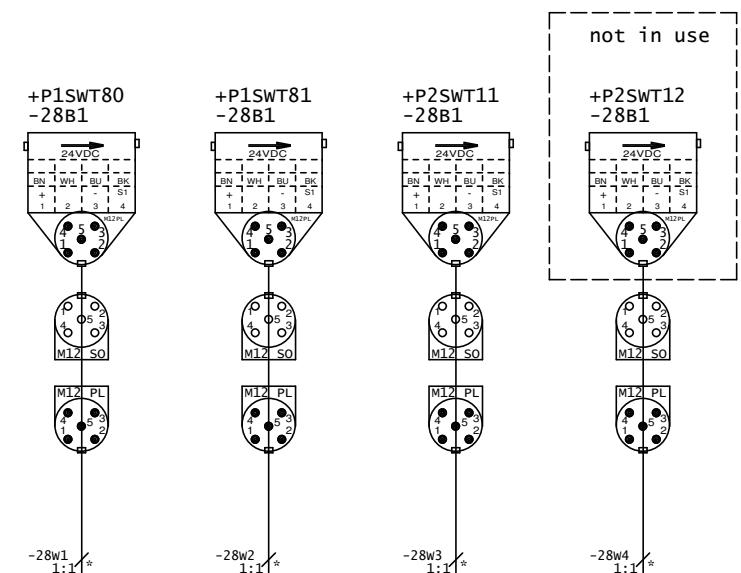


26.9 P1KK01.W24 28.0  
 26.9 P1KK01.WGND 28.0  
 26.9 P1KK01.PE 28.0



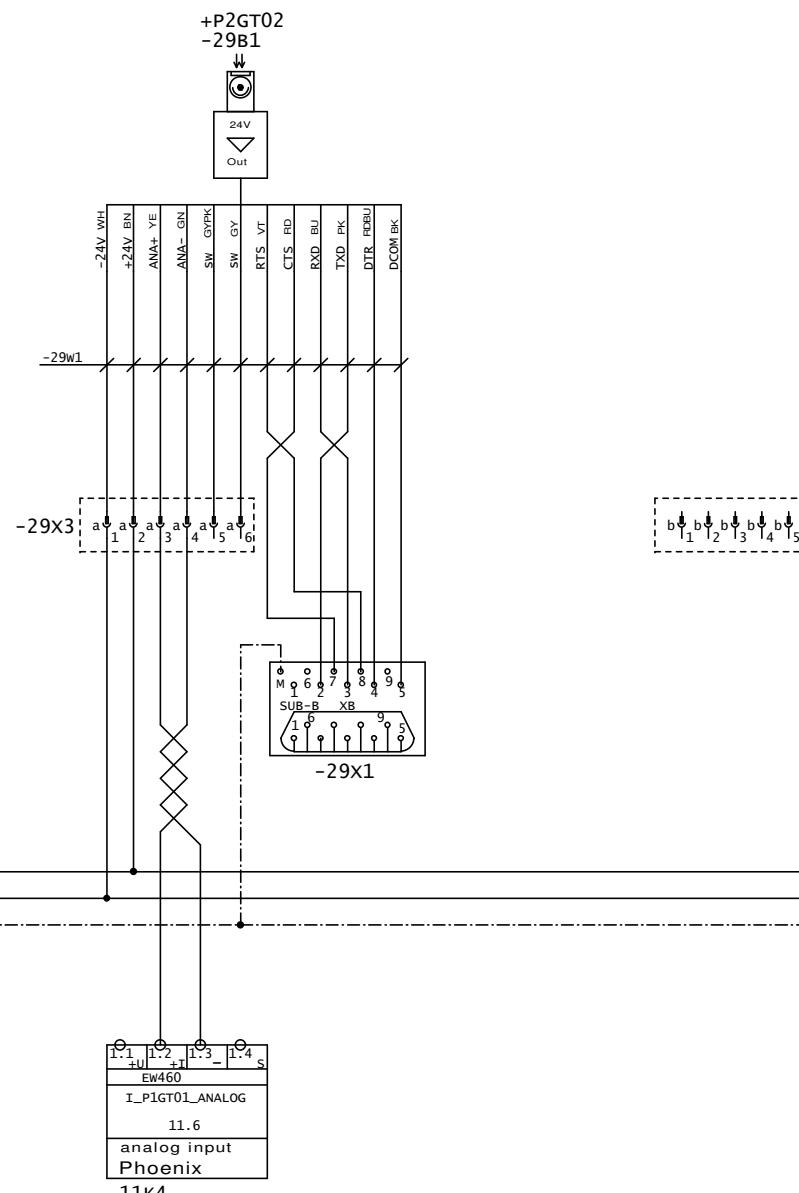
				date	12/05	A1500V-7 iznO_AZ0		flow monitoring P1	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 27	of 31	
cond.	alter.	date	name	norm					< 26		28 >

0	1	2	3	4	5	6	7	8	9
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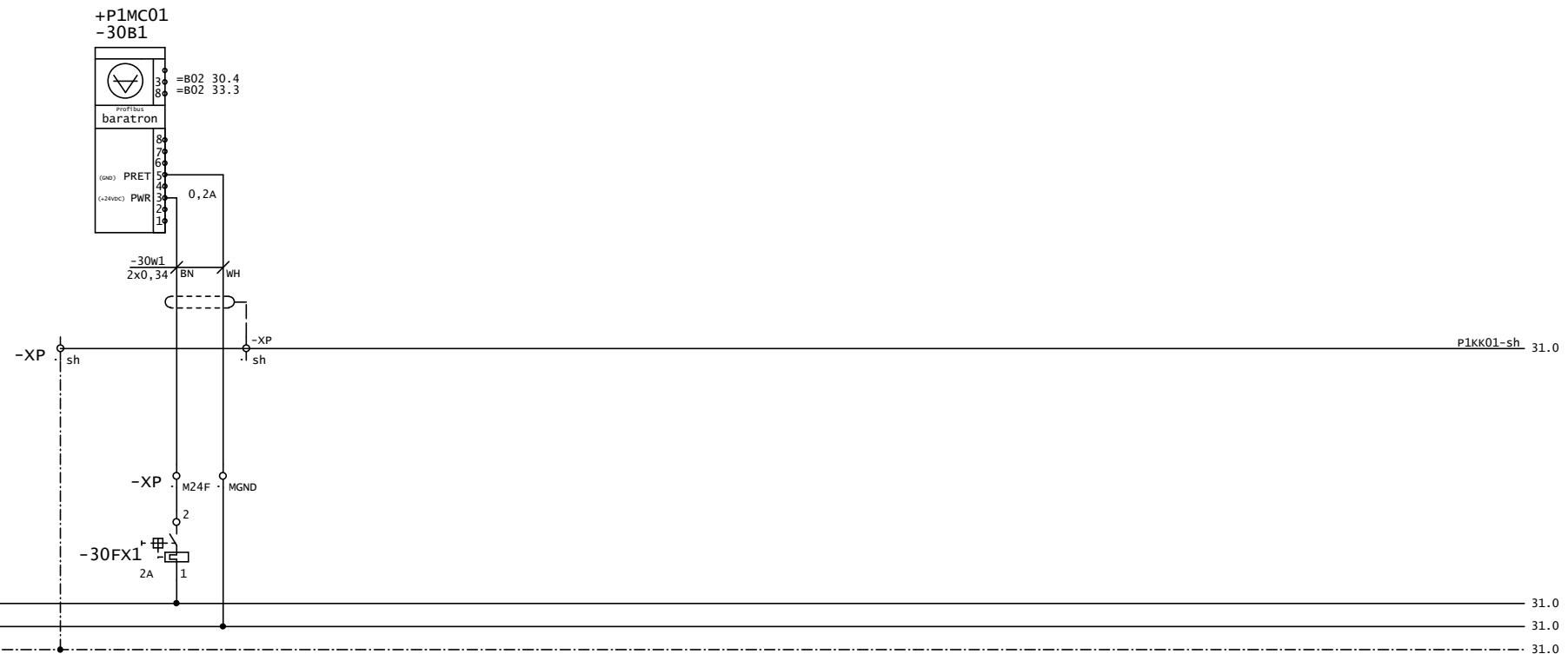
				date	12/05	A1500V-7 iznO_AZ0		flow monitoring P1	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check						sheet 28	of 31
cond.	alter.	date	name	norm					circuit diagram		< 27 29 >

0	1	2	3	4	5	6	7	8	9
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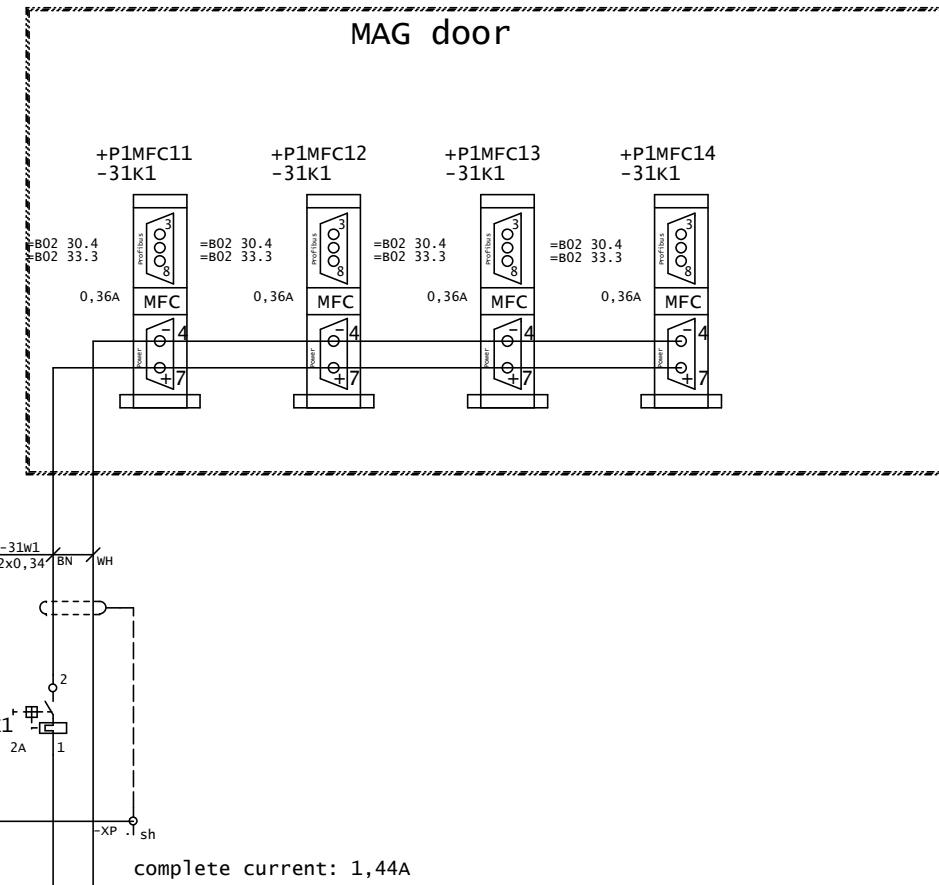
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	pyrometer	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 29	of 31	
cond.	alter.	date	name	norm				circuit diagram			< 28 30 >

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	vacuum gauges	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 30 of 31		
cond.	alter.	date	name	norm				circuit diagram	< 29	31 >	

0	1	2	3	4	5	6	7	8	9
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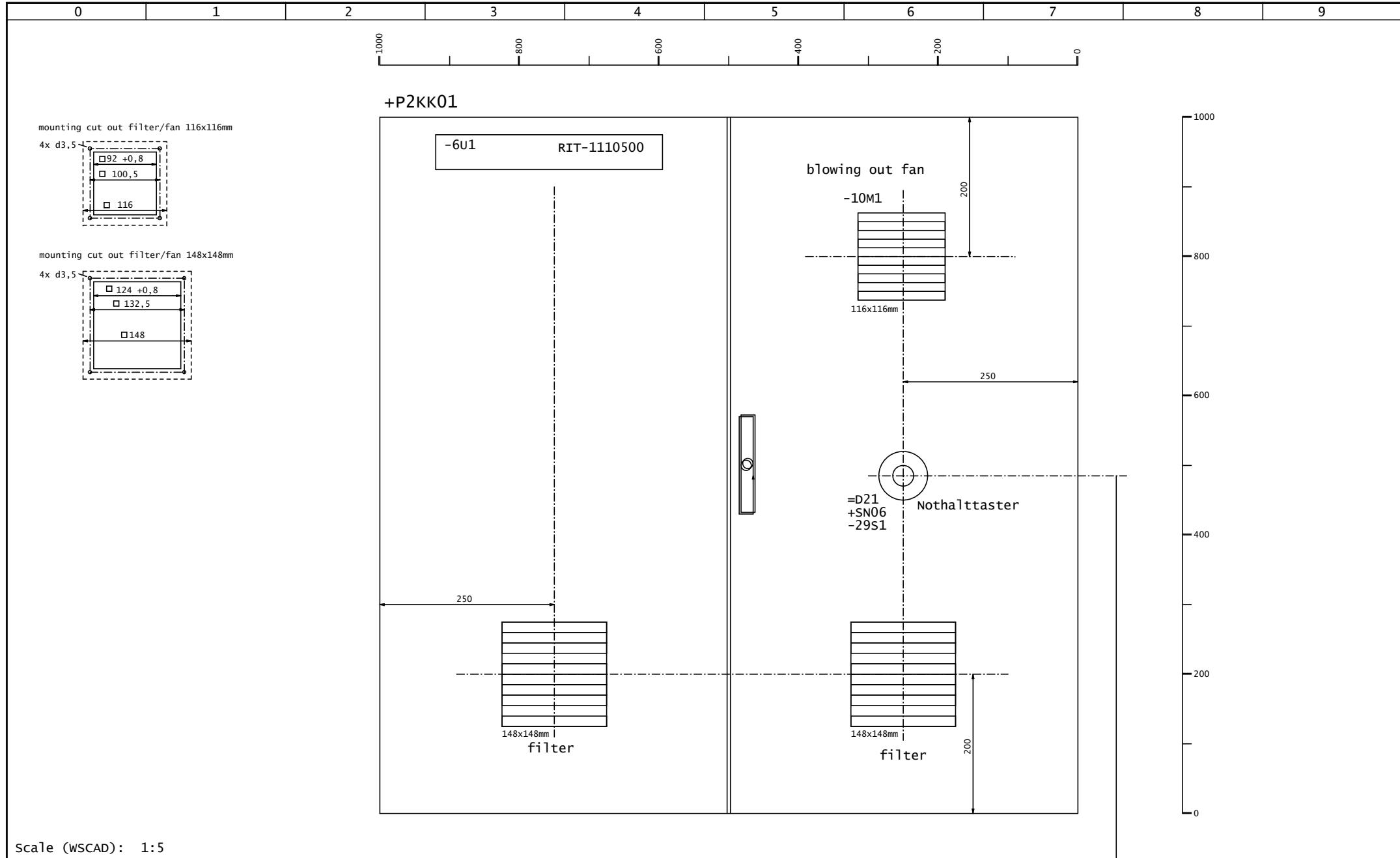
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	MFC & leak detection folding flange 1	388-810000	P/005388	=M31
				devel.	Henker				+P1KK01		
				check					sheet 31 of 31		
cond.	alter.	date	name	norm					circuit diagram		< 30 =M32/6 >

# partial arrangement:

## =M32

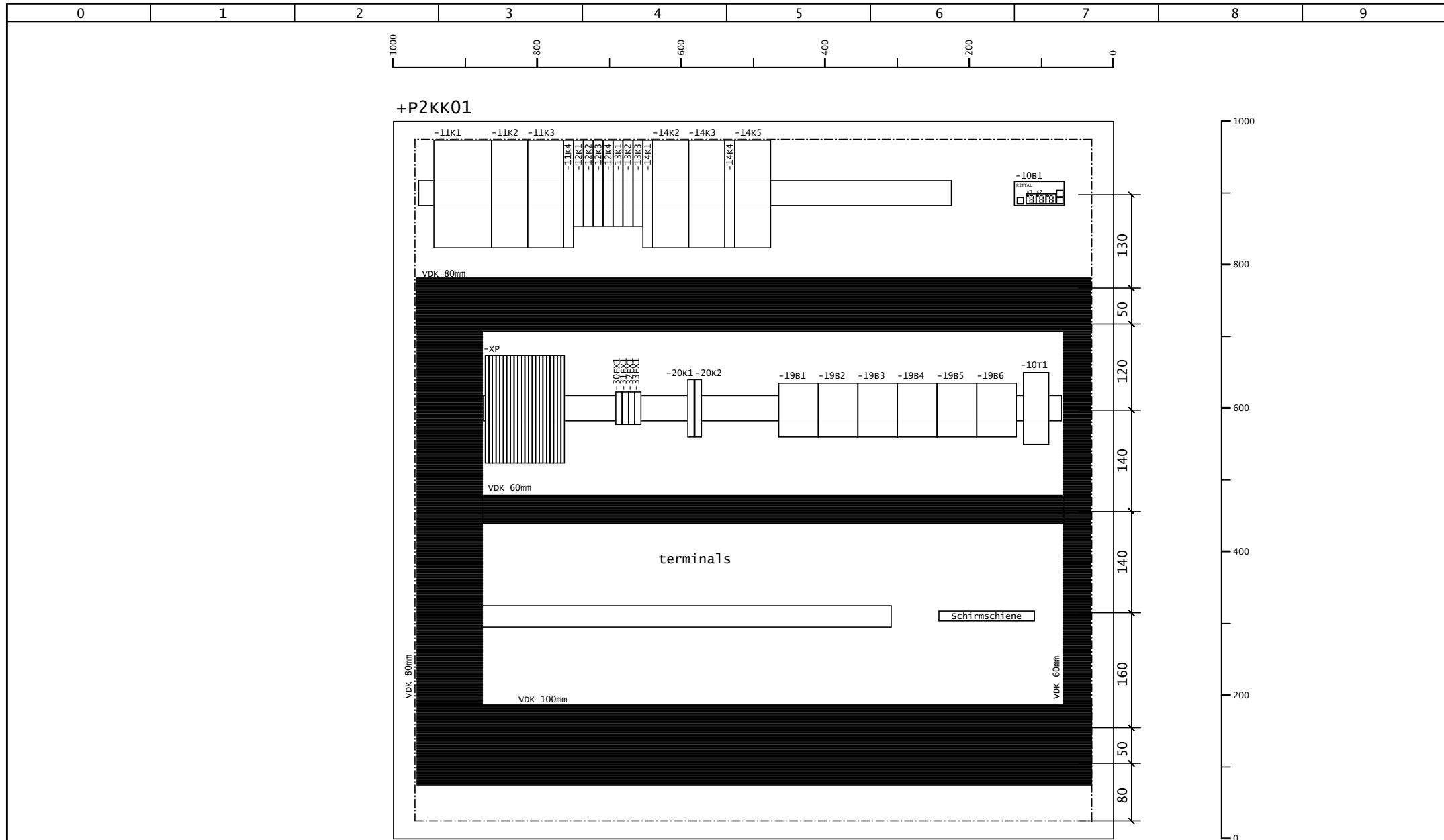
actuators/ sensors module: P2

machine number:	011003	year of manufacture:	>
 <b>LEYBOLD OPTICS</b> <b>LEYBOLD OPTICS DRESDEN GmbH</b> Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 Internet <a href="http://www.leyboldoptics.com">http://www.leyboldoptics.com</a> fax : +49 351 86695 42		remark :	
Plant built according to:	safety of machines	- Elektrische Ausrüstung von Maschinen	EN 60 204 (VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000



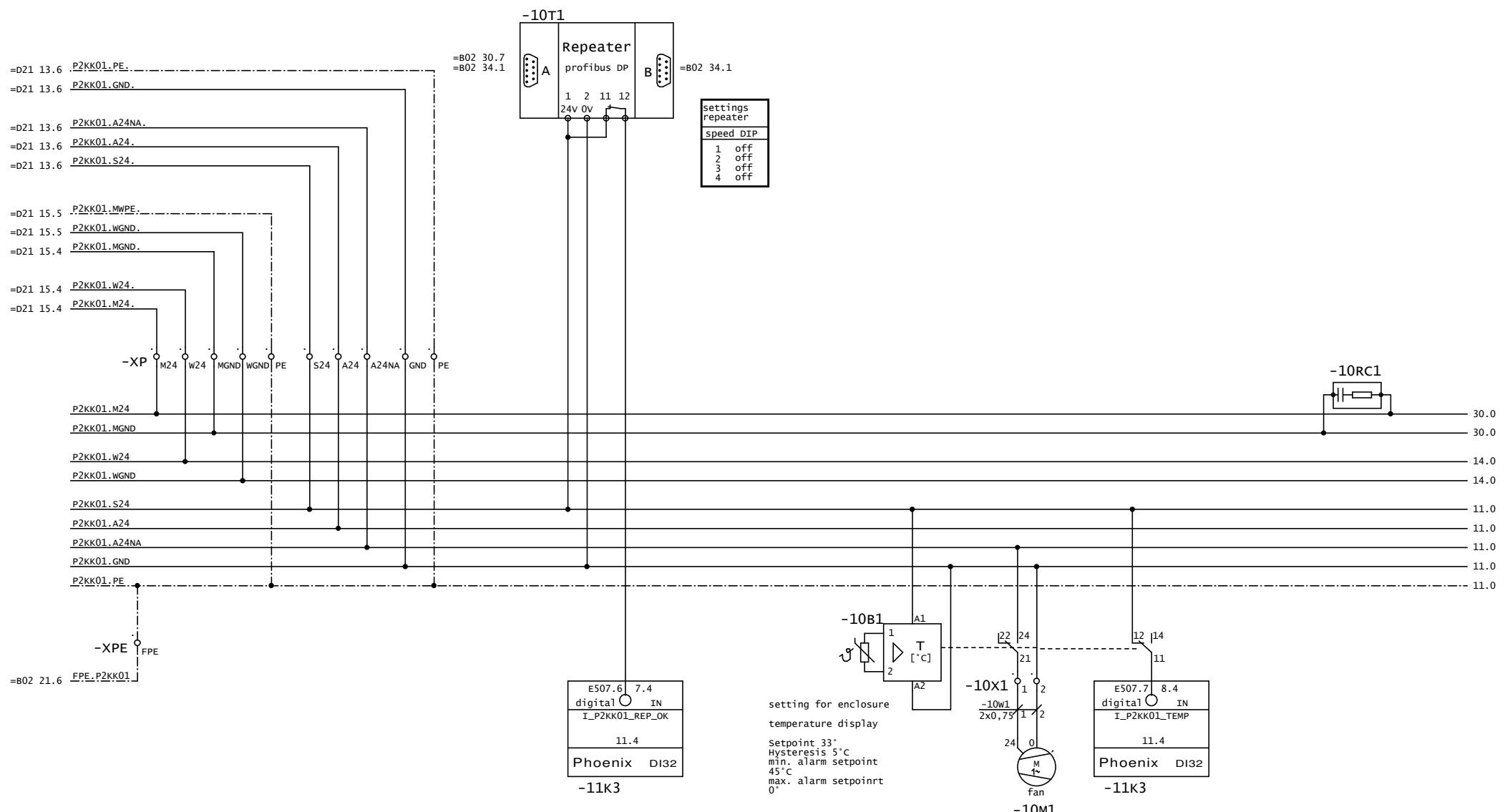
Scale (WSCAD): 1:5  
 equipment dimensions: (wide x height x deep)  
 all dimensions in mm  
 all dimensions only approximated!

				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	layout outside	388-810000	P/005388	=M32
				devel.	Henker						+P2KK01
				check							sheet 6 of 33
cond.	alter.	date	name	norm							<= M31/31 7 >



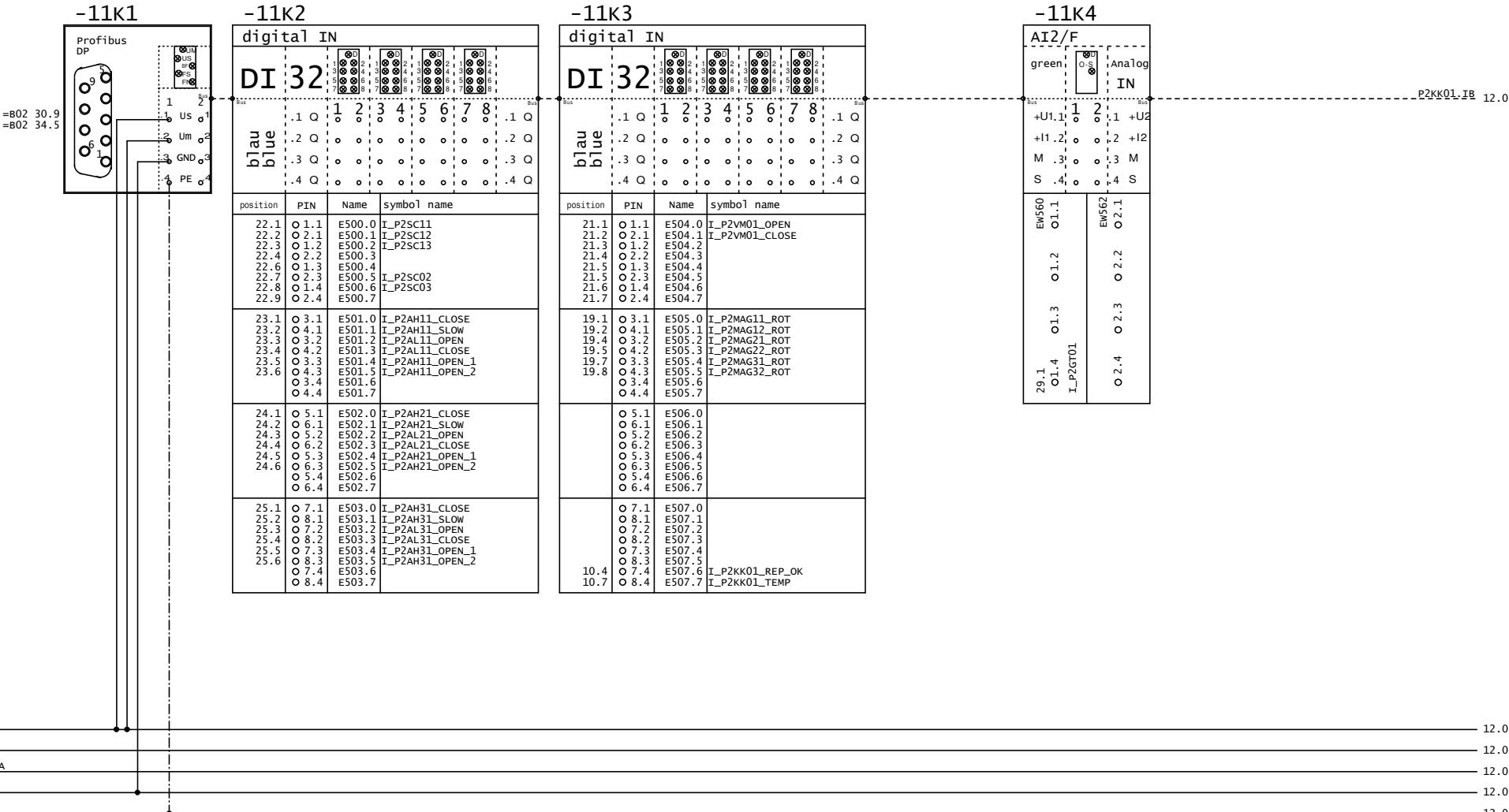
equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

0	1	2	3	4	5	6	7	8	9
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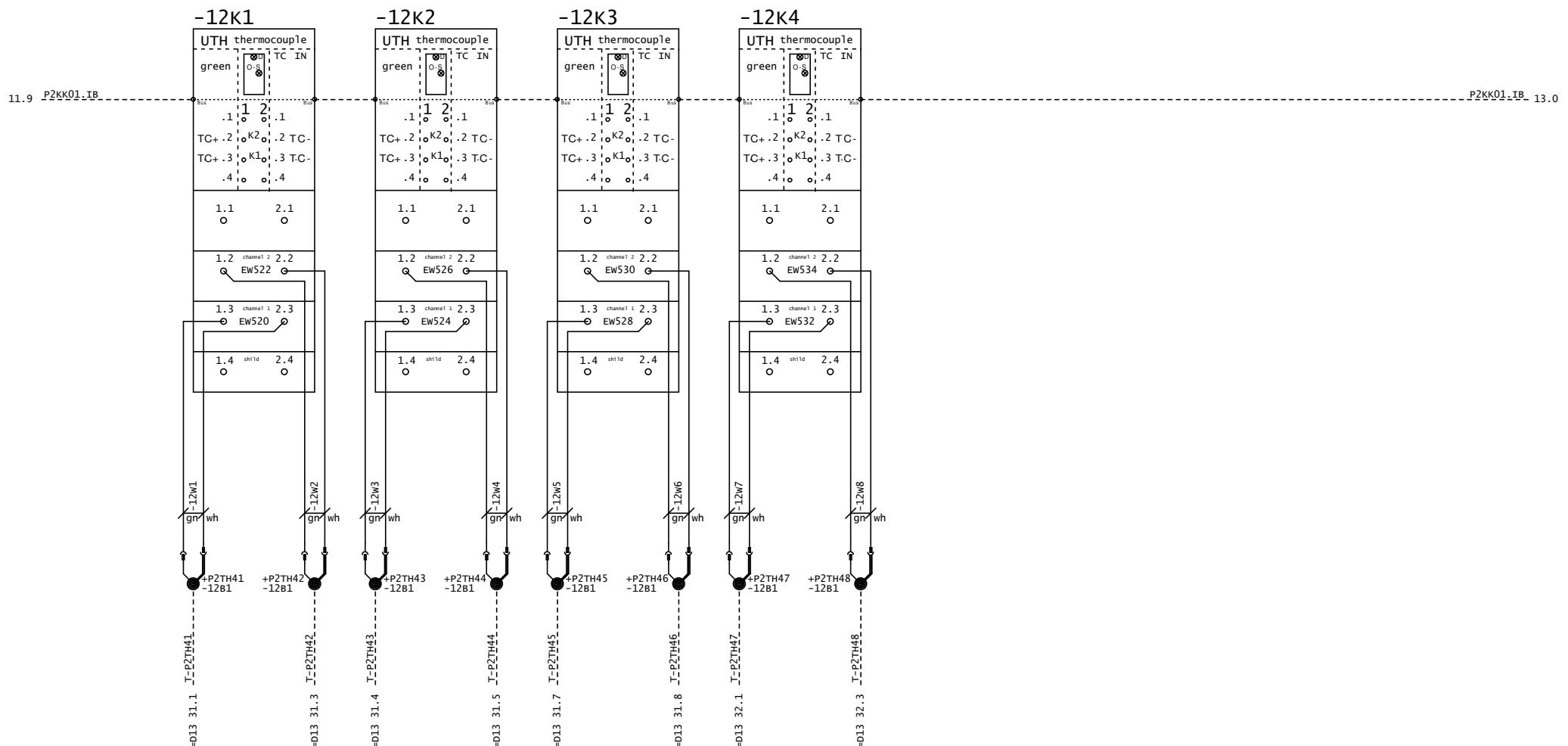


				date	12/05	A1500V-7 iznO_AZ0		feed-in	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check						sheet 10	of 33
cond.	alter.	date	name	norm					circuit diagram	< 7	11 >

0	1	2	3	4	5	6	7	8	9
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0	1	2	3	4	5	6	7	8	9
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11.9 P2KK01.S24

13.0

11.9 P2KK01.A24

13.0

11.9 P2KK01.A24NA

13.0

11.9 P2KK01.GND

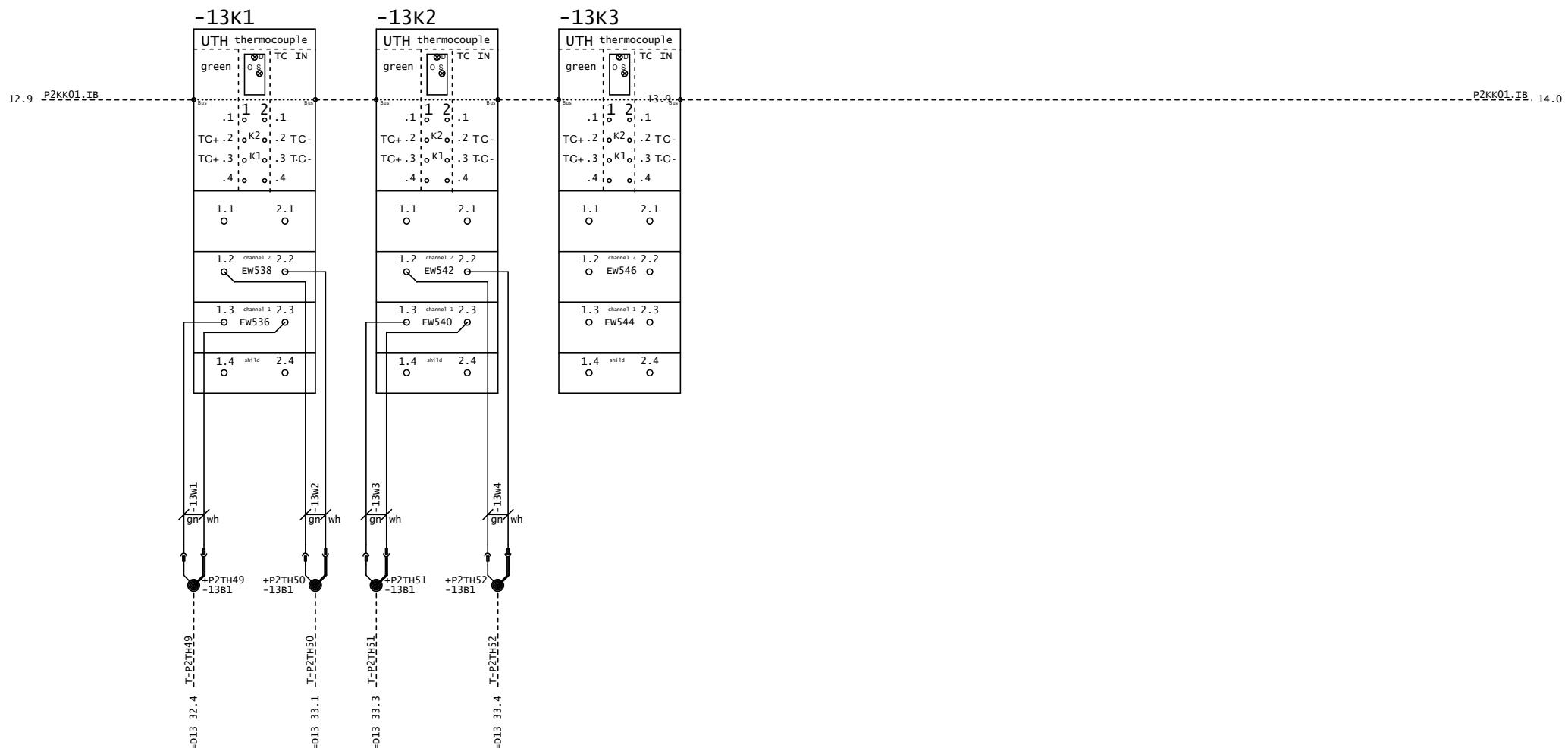
13.0

11.9 P2KK01.PE

13.0

				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	analog inputs	388-810000	P/005388	M32
				devel.	Henker				+P2KK01		
				check					sheet 12	of 33	
cond.	alter.	date	name	norm					< 11	13 >	

0	1	2	3	4	5	6	7	8	9
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12.9 P2KK01.S4

12.9 P2KK01.A24

12.9 P2KK01.A24NA

12.9 P2KK01.GND

12.9 P2KK01.PE

14.0

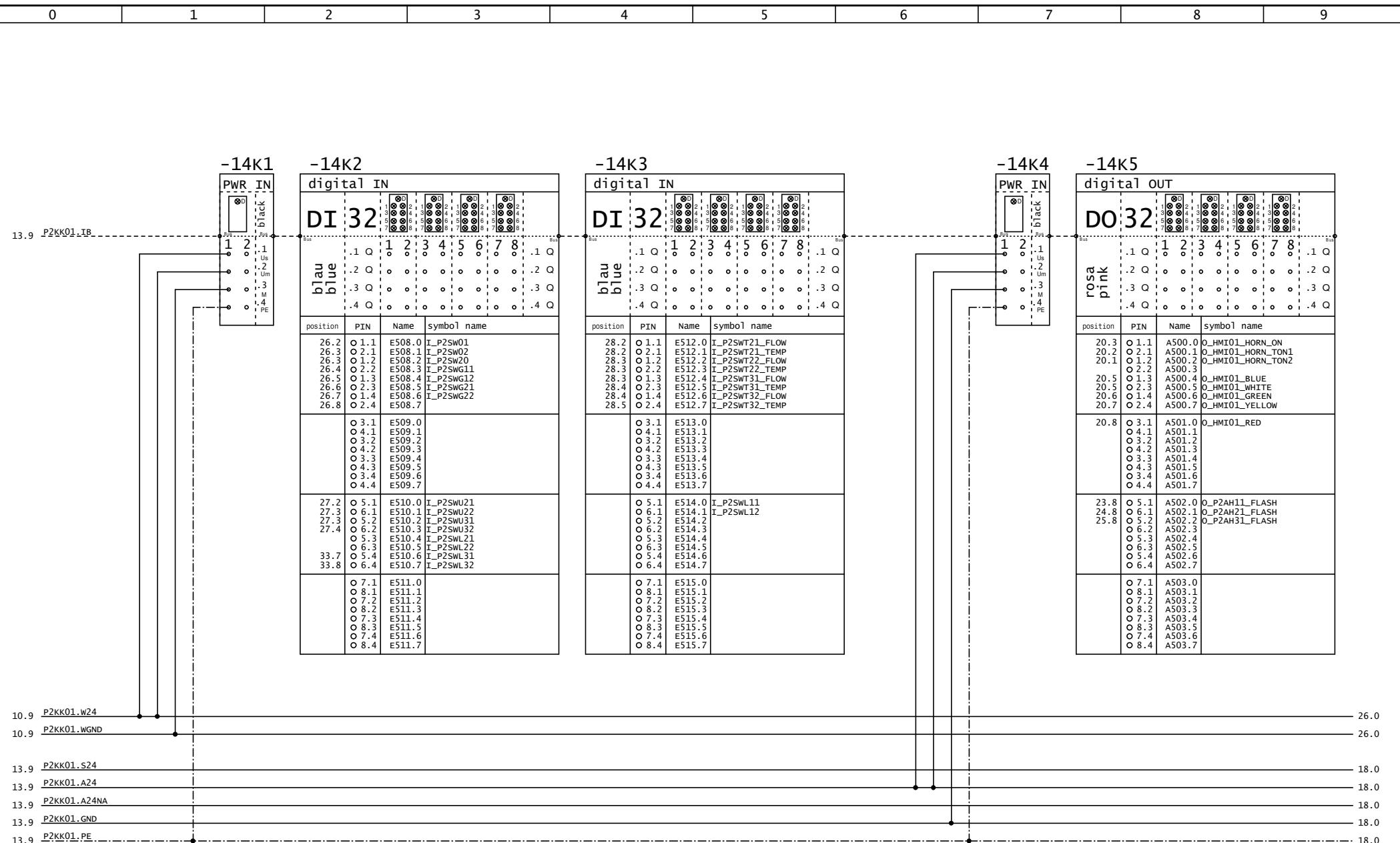
14.0

14.0

14.0

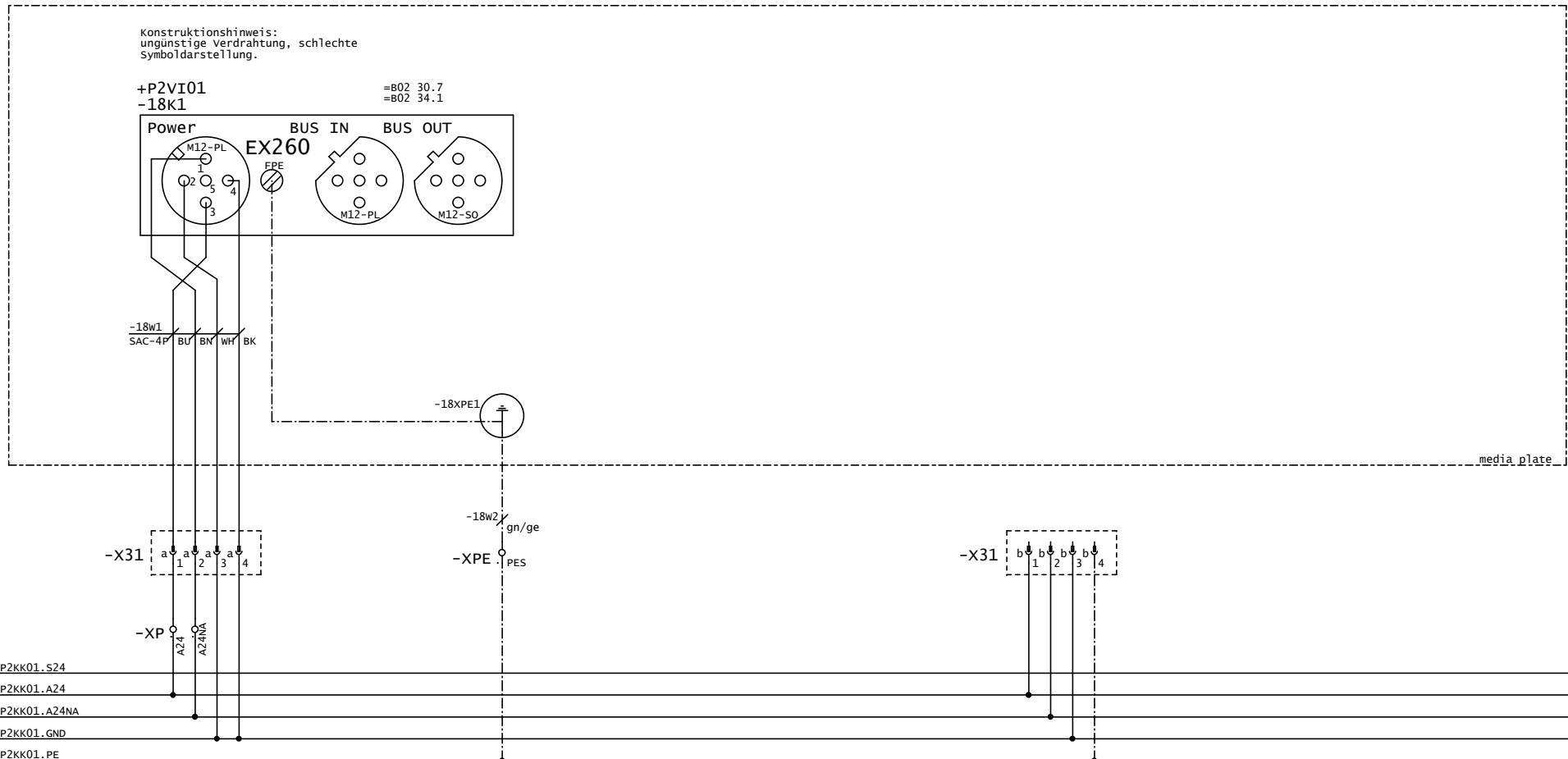
14.0

				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	analog inputs	388-810000	P/005388	M32
				devel.	Henker				+P2KK01		
				check					sheet 13	of 33	
cond.	alter.	date	name	norm					< 12		14 >



				date	12/05	A1500V-7 izno_AZO	 <b>LEYBOLD OPTICS</b>	digital I/O	388-810000	P/005388	=M32	
				devel.	Henker				+PZKK01		sheet 14	of 33
				check							< 13	18 >
cond.	alter.	date	name	norm					circuit diagram			

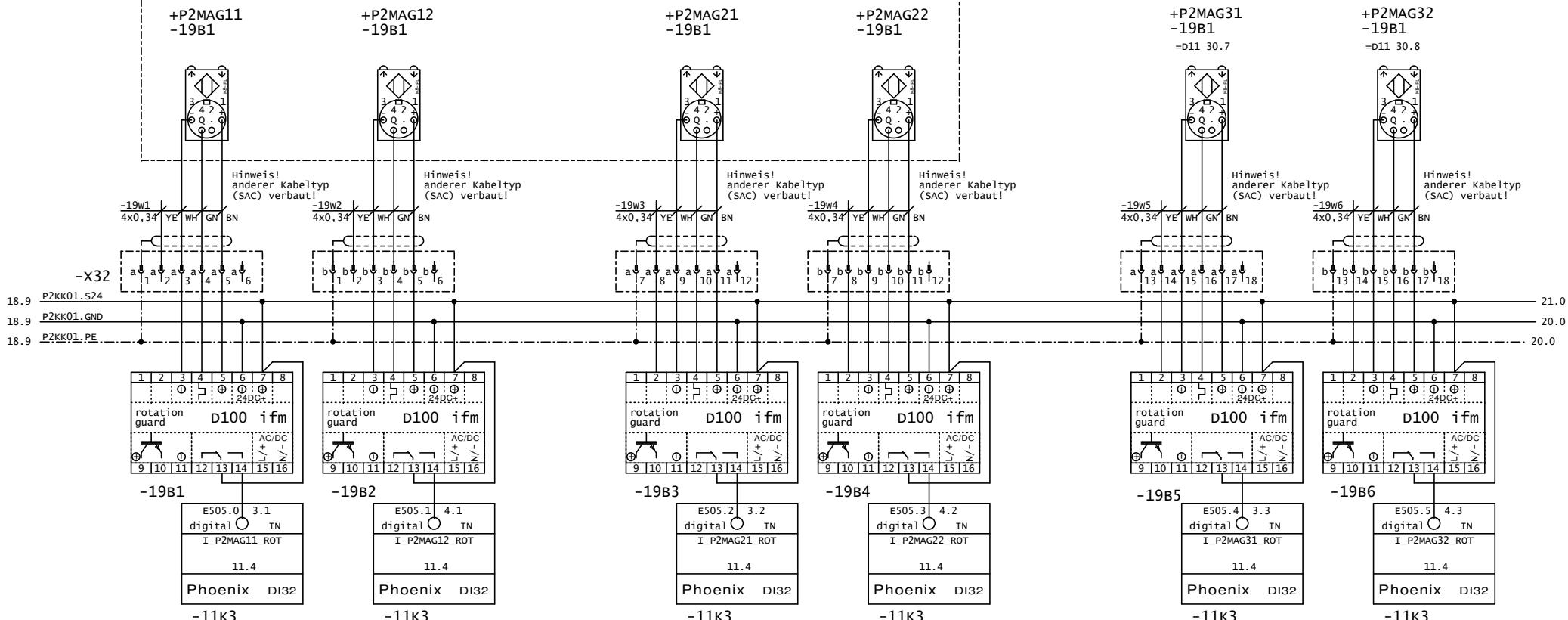
0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	valve unit	388-810000	P/005388	=M32
				devel.	Henker						+P2KK01
				check							sheet 18 of 33
cond.	alter.	date	name	norm					circuit diagram		< 14 19 >

0	1	2	3	4	5	6	7	8	9
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not installed!



setting for  
D100

starting time: 5s  
pulse/min: 35  
hysteresis: 5%

speed  
P2MAG11

speed  
P2MAG12

speed  
P2MAG21

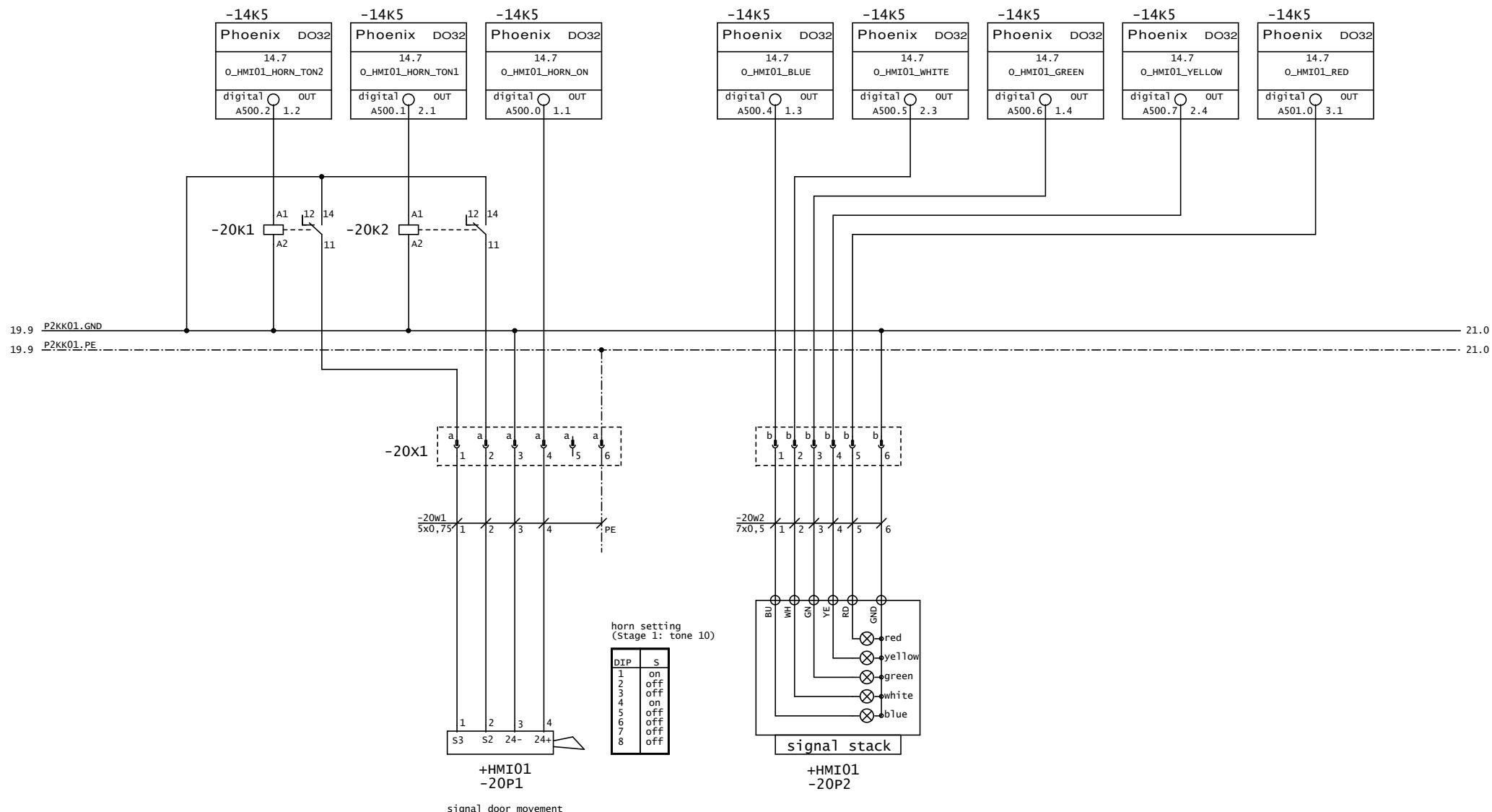
speed  
P2MAG22

speed  
P2MAG31

Drehzahl  
P2MAG32

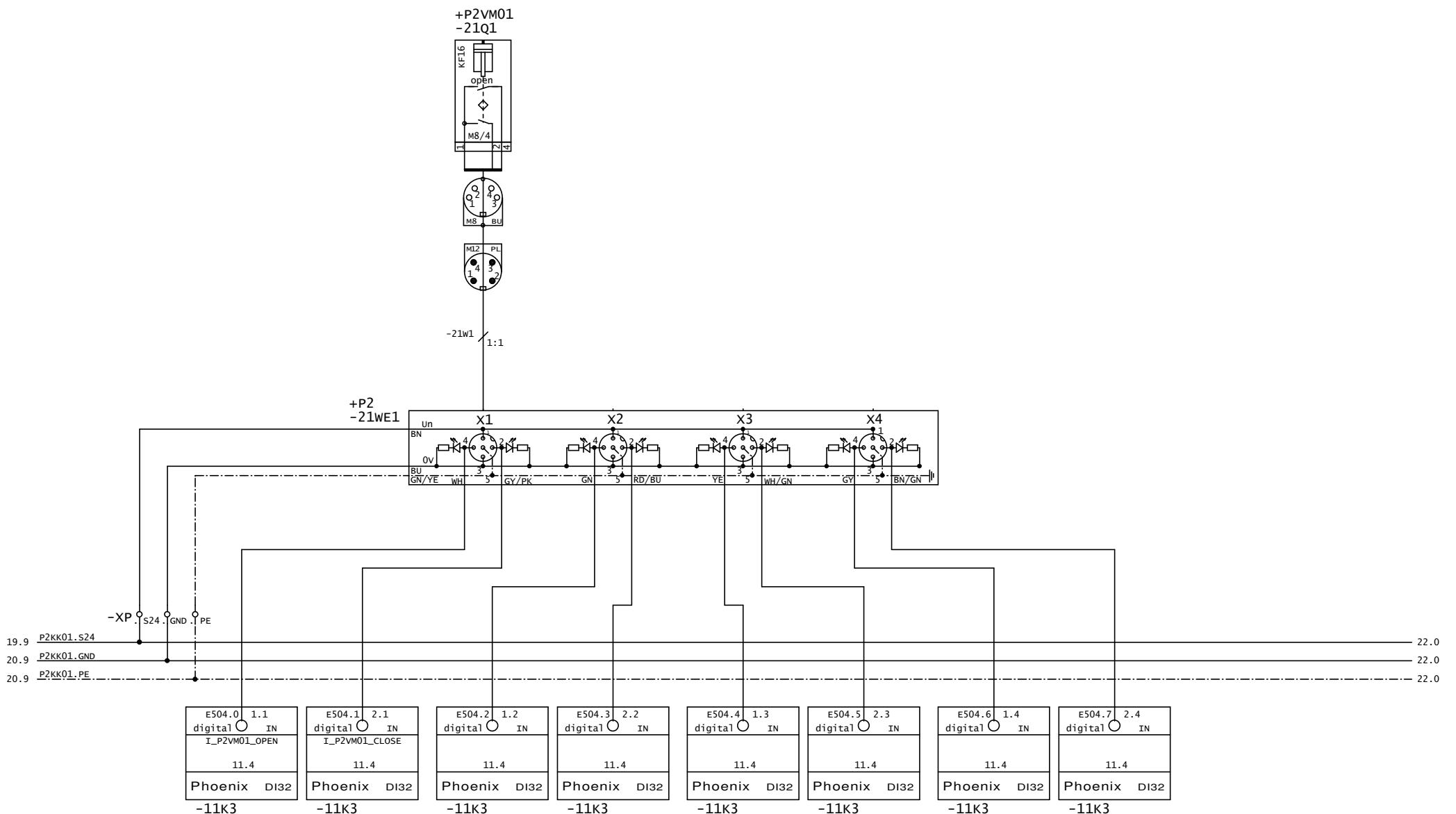
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	rotation monitoring	388-810000	P/005388	M32
				devel.	Henker				+P2KK01		
				check					sheet 19	of 33	
cond.	alter.	date	name	norm					< 18	20 >	

0	1	2	3	4	5	6	7	8	9
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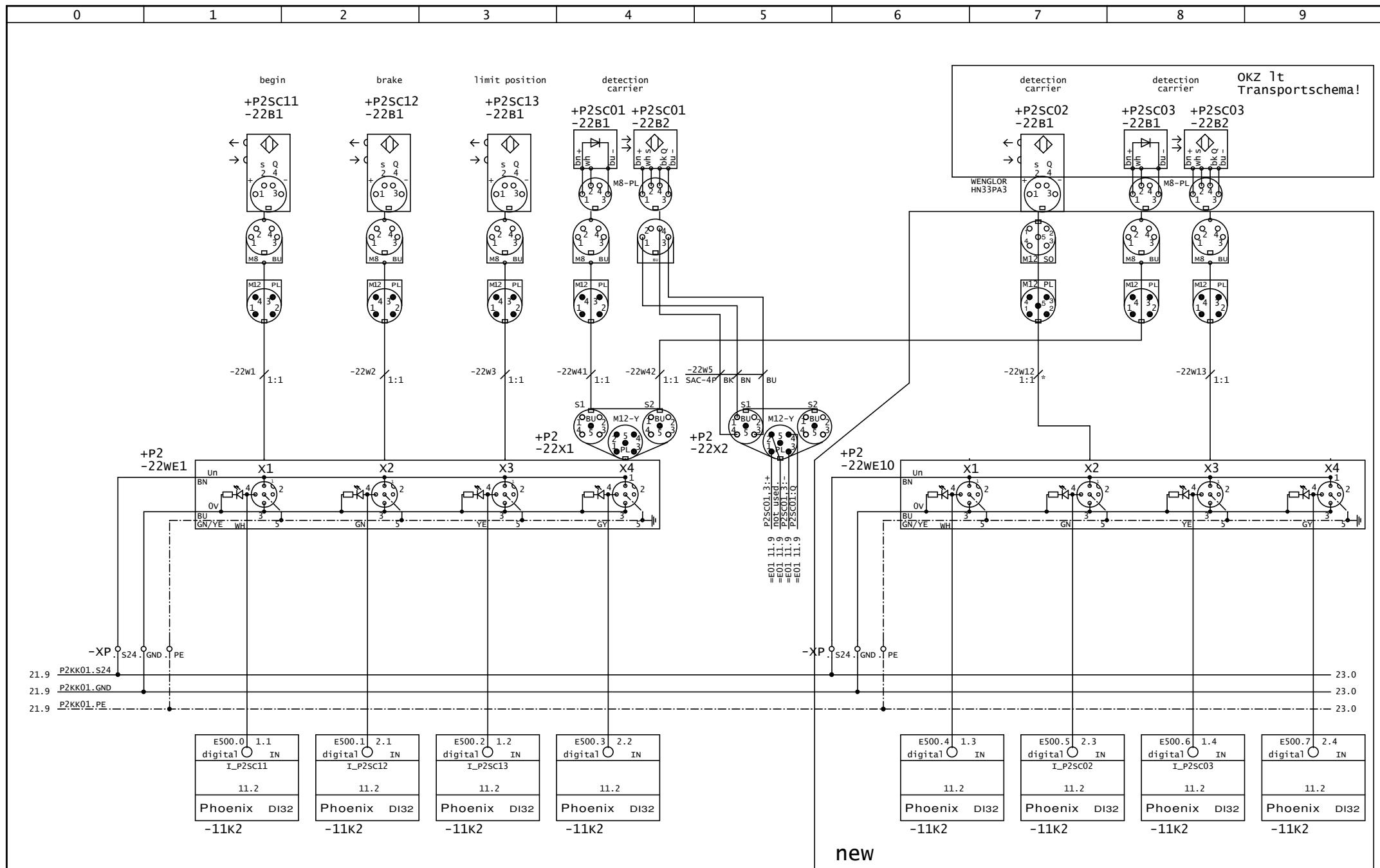


				date	12/05	A1500V-7 iznO_AZ0	LEYBOLD OPTICS	horn and light stack	388-810000	P/005388	M32
				devel.	Henker				+P2KK01		
				check					sheet 20	of 33	
cond.	alter.	date	name	norm				circuit diagram	< 19	21 >	

0	1	2	3	4	5	6	7	8	9
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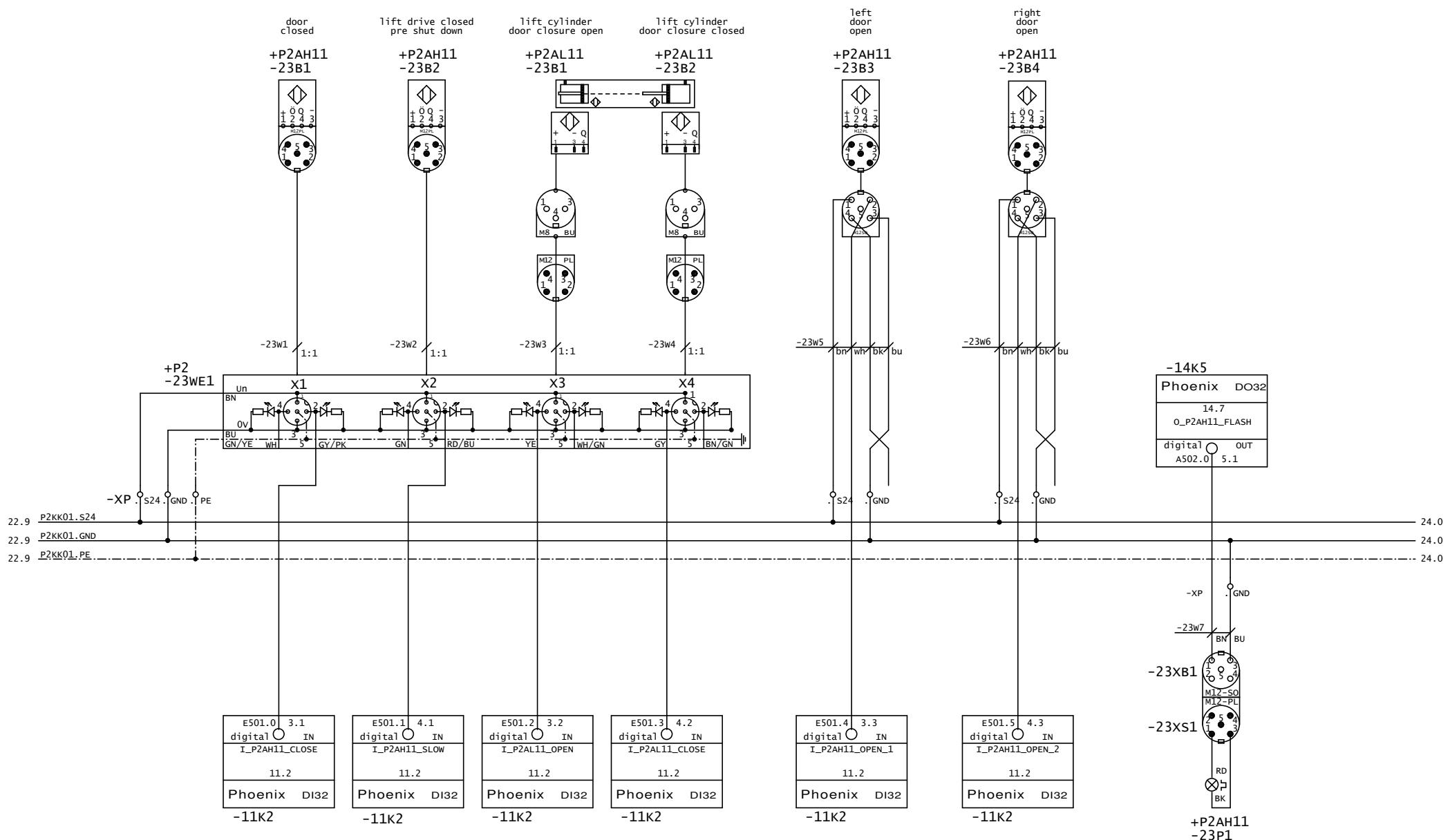


				date	12/05	A1500V-7 izn0_AZ0	 <b>LEYBOLD OPTICS</b>	P2 digitale input upside	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 21 of 33		
cond.	alter.	date	name	norm					< 20	22 >	



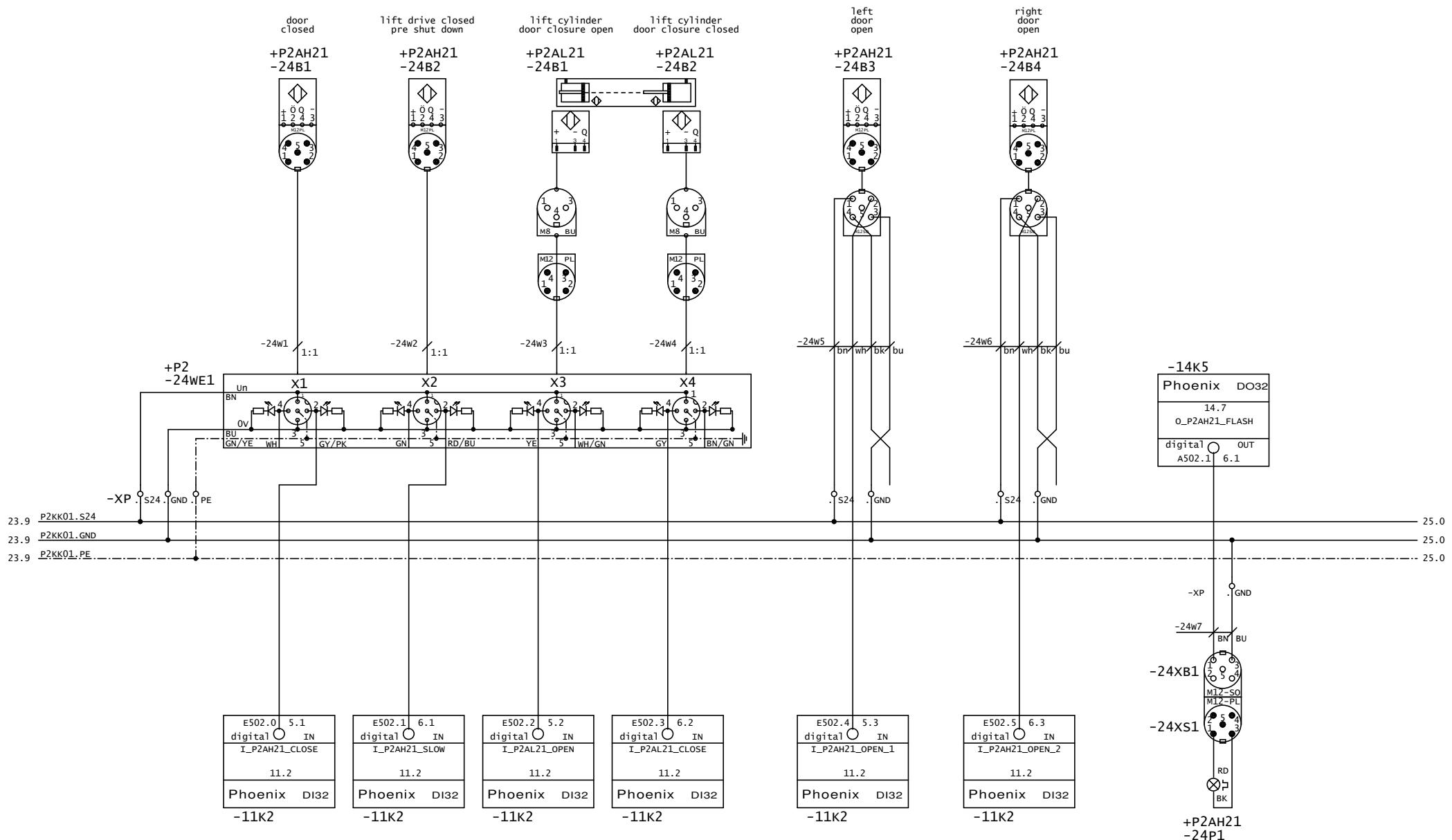
				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	P2SC	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check						sheet 22	of 33
cond.	alter.	date	name	norm						< 21	23 >

0	1	2	3	4	5	6	7	8	9
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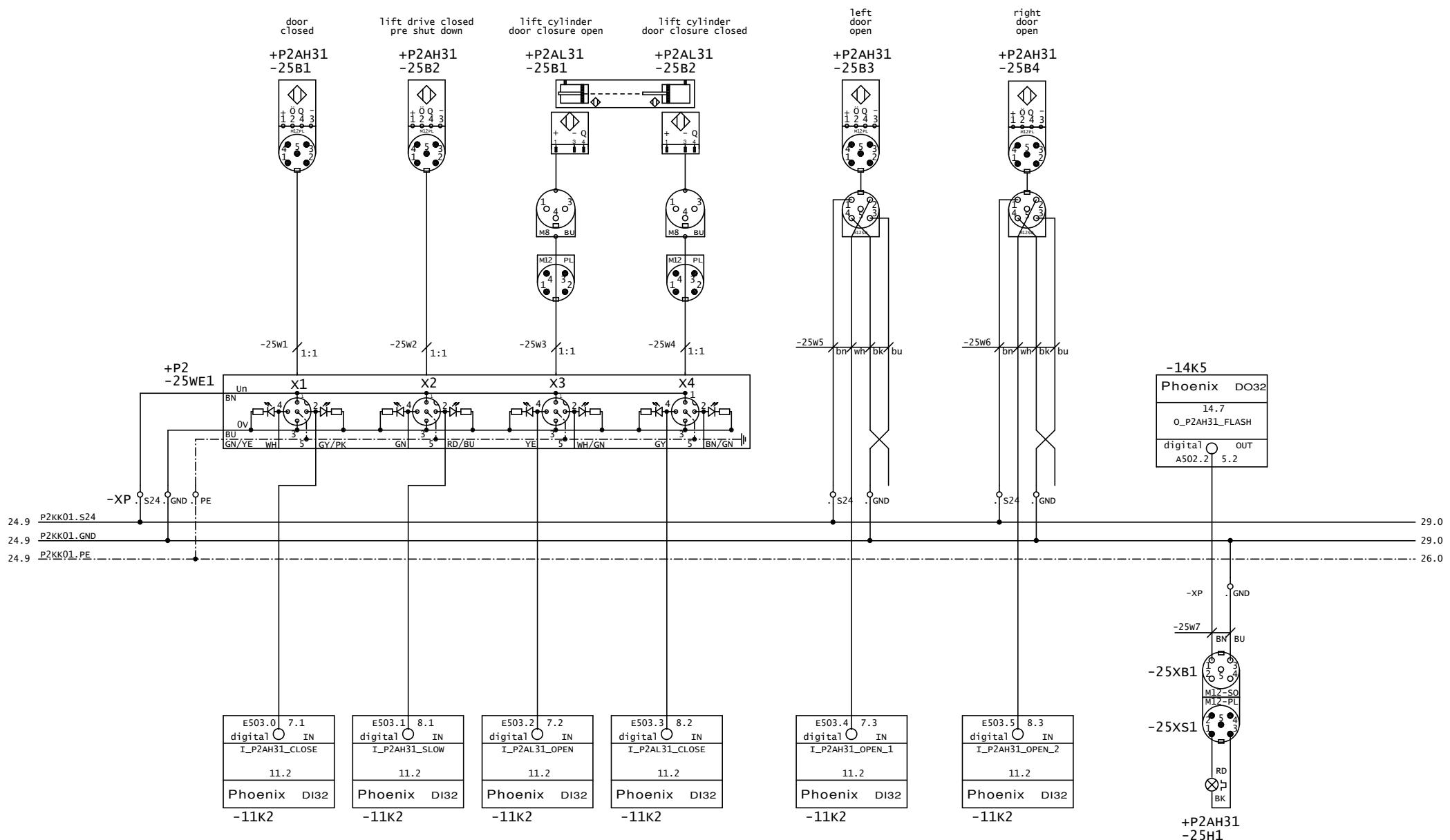
				date	12/05	A1500V-7 izn0_AZ0		door control - sensors folding flange 1	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 23	of 33	
cond.	alter.	date	name	norm					< 22	24 >	

0	1	2	3	4	5	6	7	8	9
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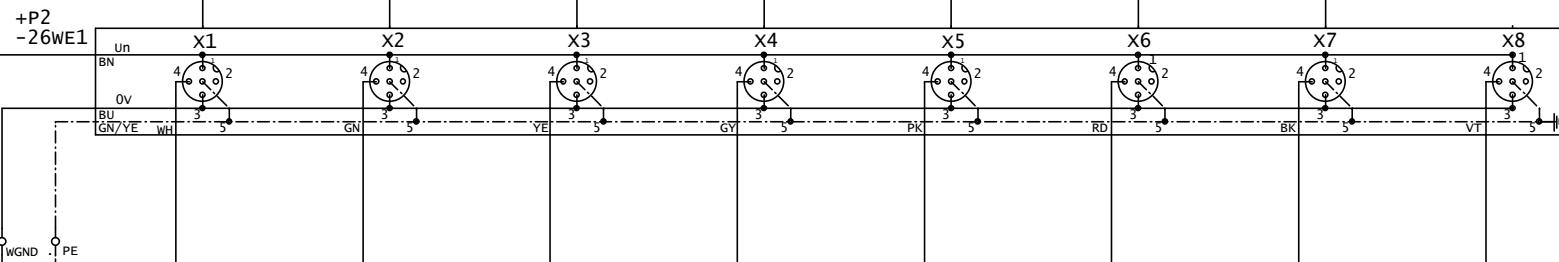
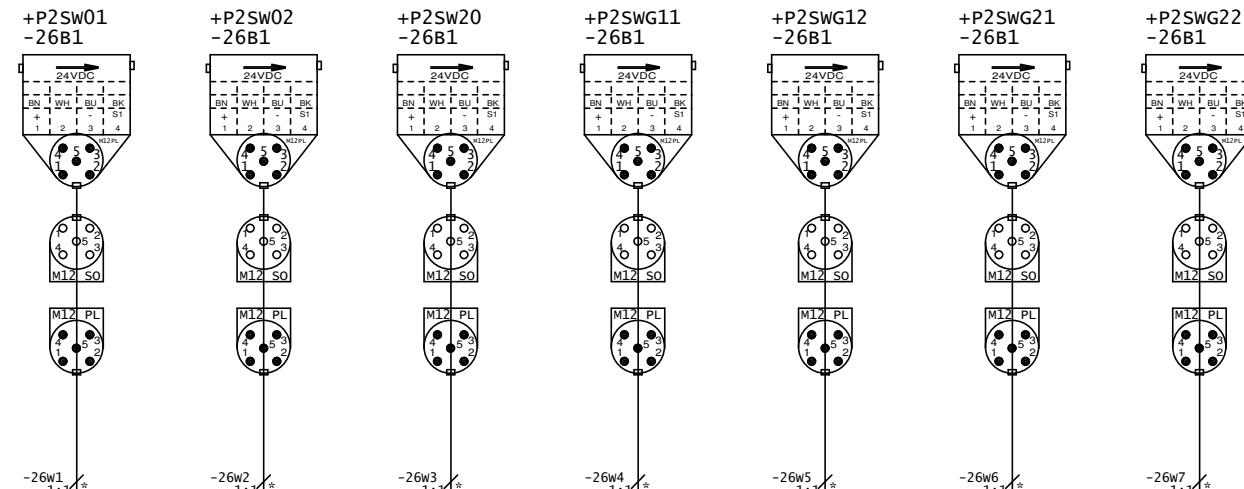
				date	12/05	A1500V-7 izn0_AZ0	<b>LEYBOLD OPTICS</b>	door control - sensors folding flange 2	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 24	of 33	
cond.	alter.	date	name	norm					< 23	25 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 izn0_AZ0		door control - sensors folding flange 3	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 25	of 33	
cond.	alter.	date	name	norm					< 24	26 >	

0	1	2	3	4	5	6	7	8	9
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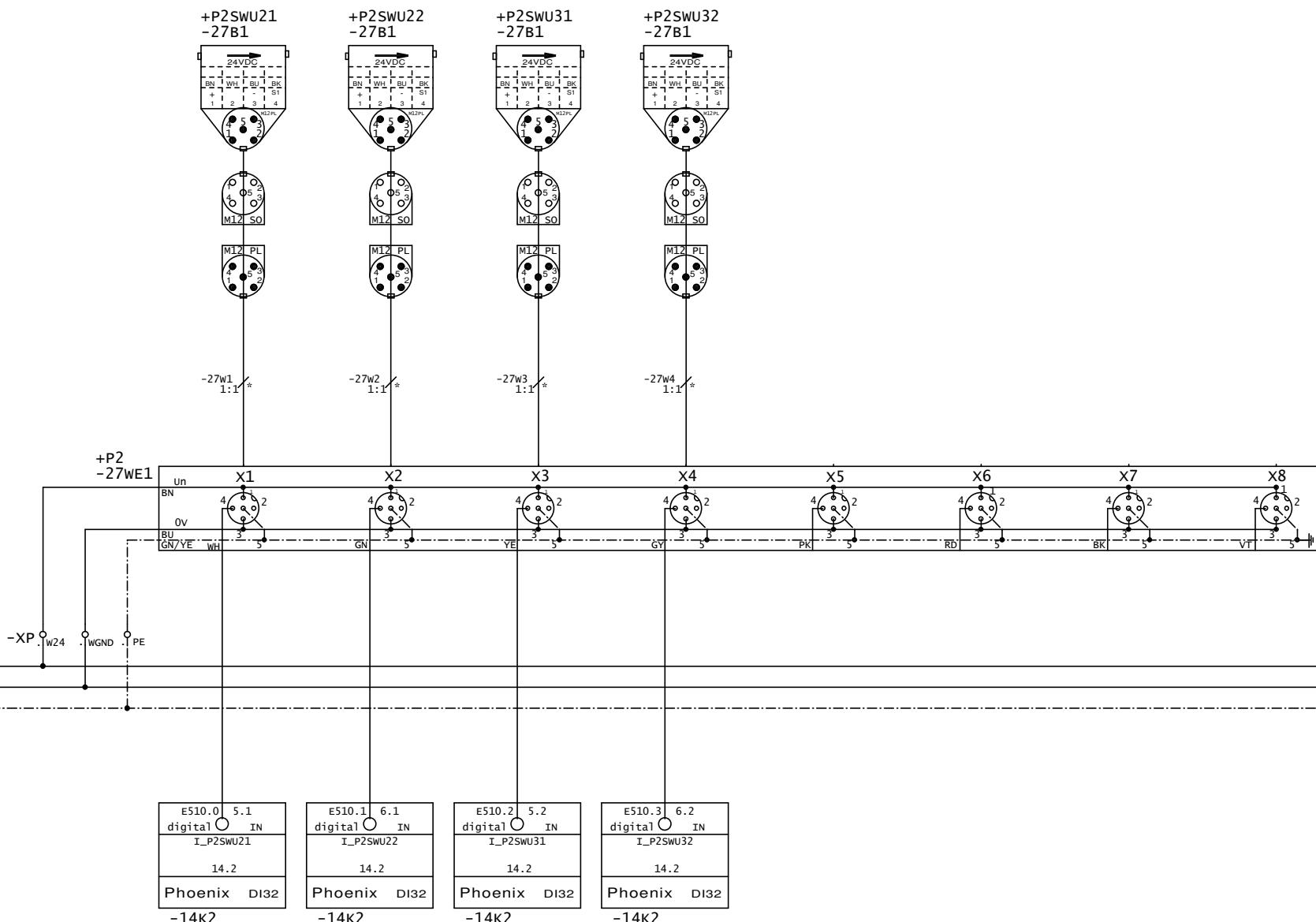


14.9 P2KK01.W24 27.0  
14.9 P2KK01.WGND 27.0  
25.9 P2KK01.PE 27.0

E508.0	1.1	digital	IN	I_P2SW01	14.2	Phoenix	DI32	-14K2
E508.1	2.1	digital	IN	I_P2SW02	14.2	Phoenix	DI32	-14K2
E508.2	1.2	digital	IN	I_P2sw20	14.2	Phoenix	DI32	-14K2
E508.3	2.2	digital	IN	I_P2SWG11	14.2	Phoenix	DI32	-14K2
E508.4	1.3	digital	IN	I_P2SWG12	14.2	Phoenix	DI32	-14K2
E508.5	2.3	digital	IN	I_P2SWG21	14.2	Phoenix	DI32	-14K2
E508.6	1.4	digital	IN	I_P2SWG22	14.2	Phoenix	DI32	-14K2
E508.7	2.4	digital	IN		14.2	Phoenix	DI32	-14K2

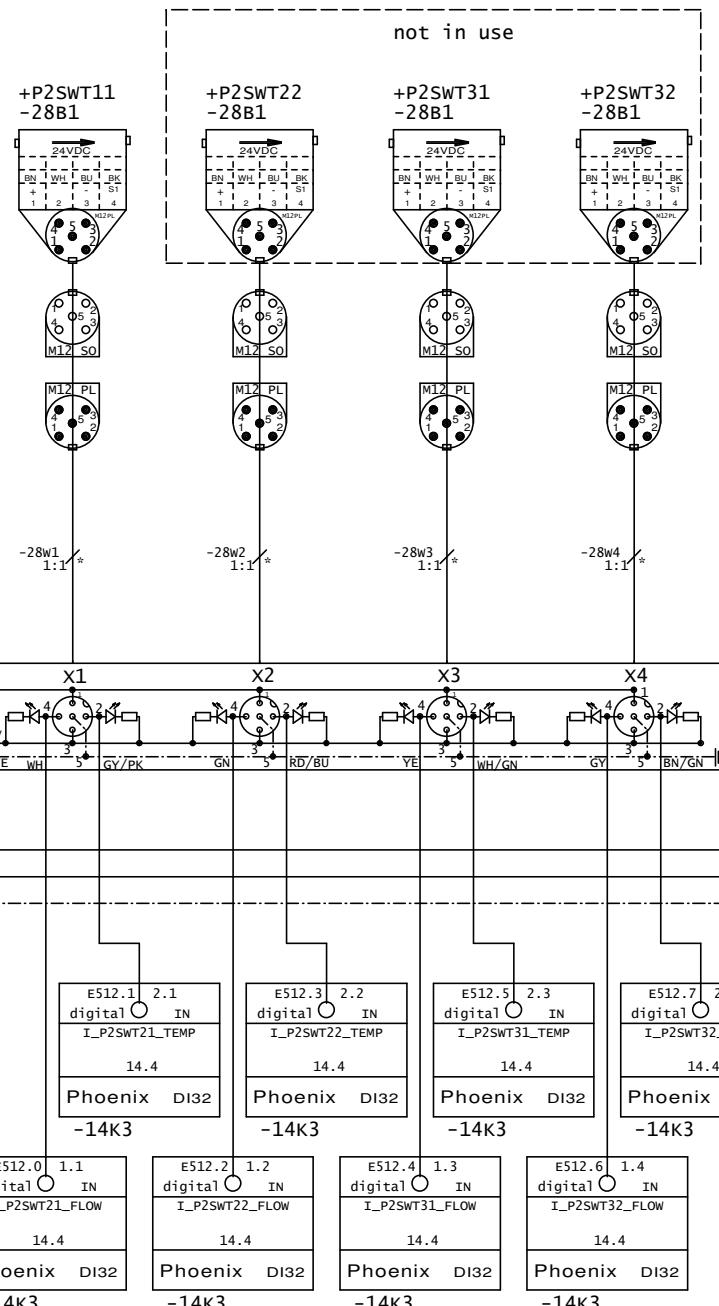
				date	12/05				=M32
				devel.	Henker				+P2KK01
				check					sheet 26 of 33
cond.	alter.	date	name	norm					< 25 27 >
						A1500V-7 izn0_AZ0	LEYBOLD OPTICS	flow monitoring P2	388-810000
								P/005388	circuit diagram

0	1	2	3	4	5	6	7	8	9
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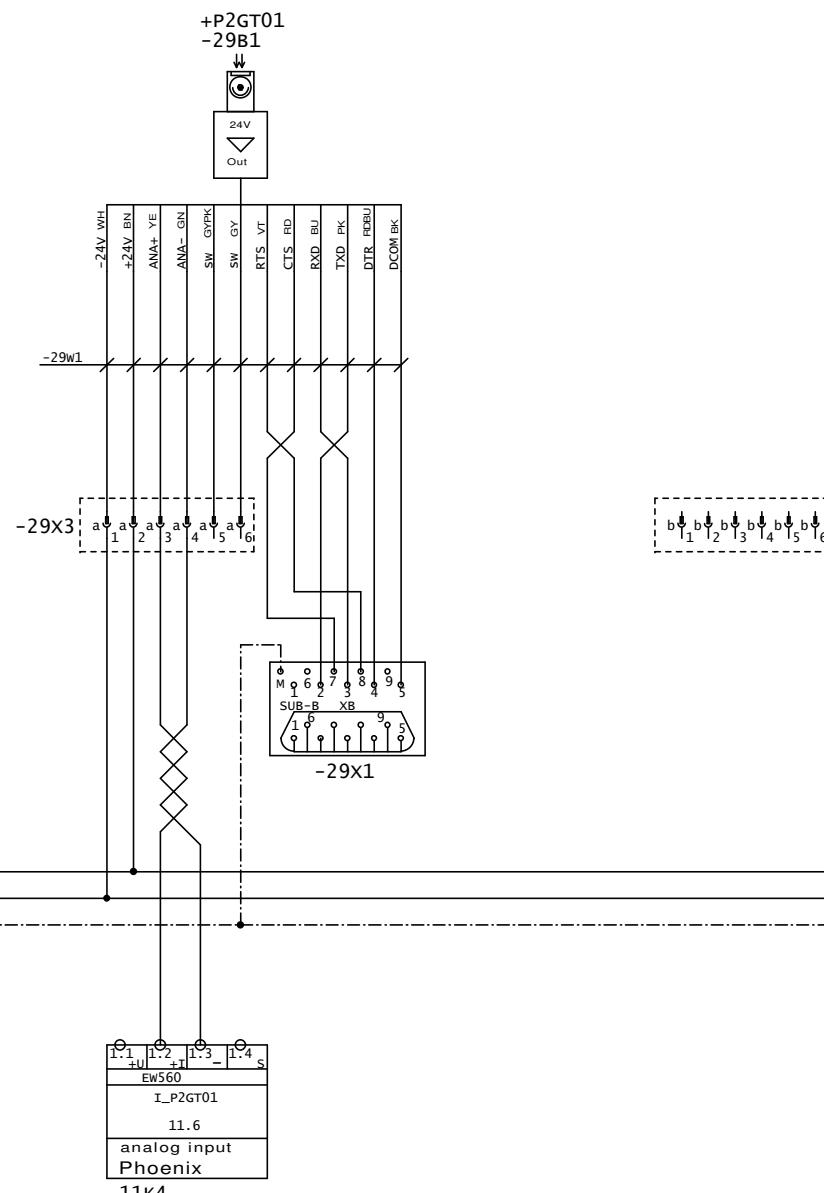
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	flow monitoring P2	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 27	of 33	
cond.	alter.	date	name	norm					< 26	28 >	

0	1	2	3	4	5	6	7	8	9
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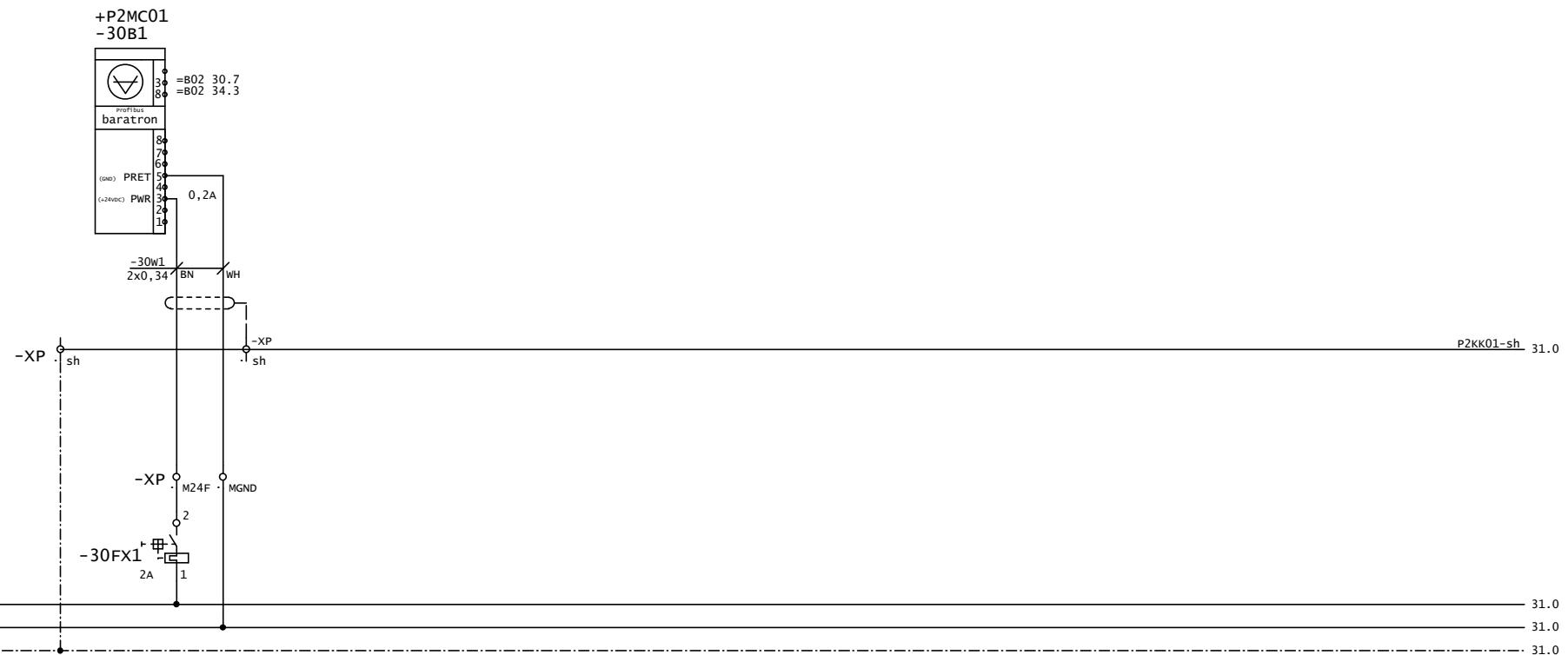
				date	12/05	A1500V-7 iznO_AZ0		flow monitoring P2	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 28	of 33	
cond.	alter.	date	name	norm					< 27	29 >	

0	1	2	3	4	5	6	7	8	9
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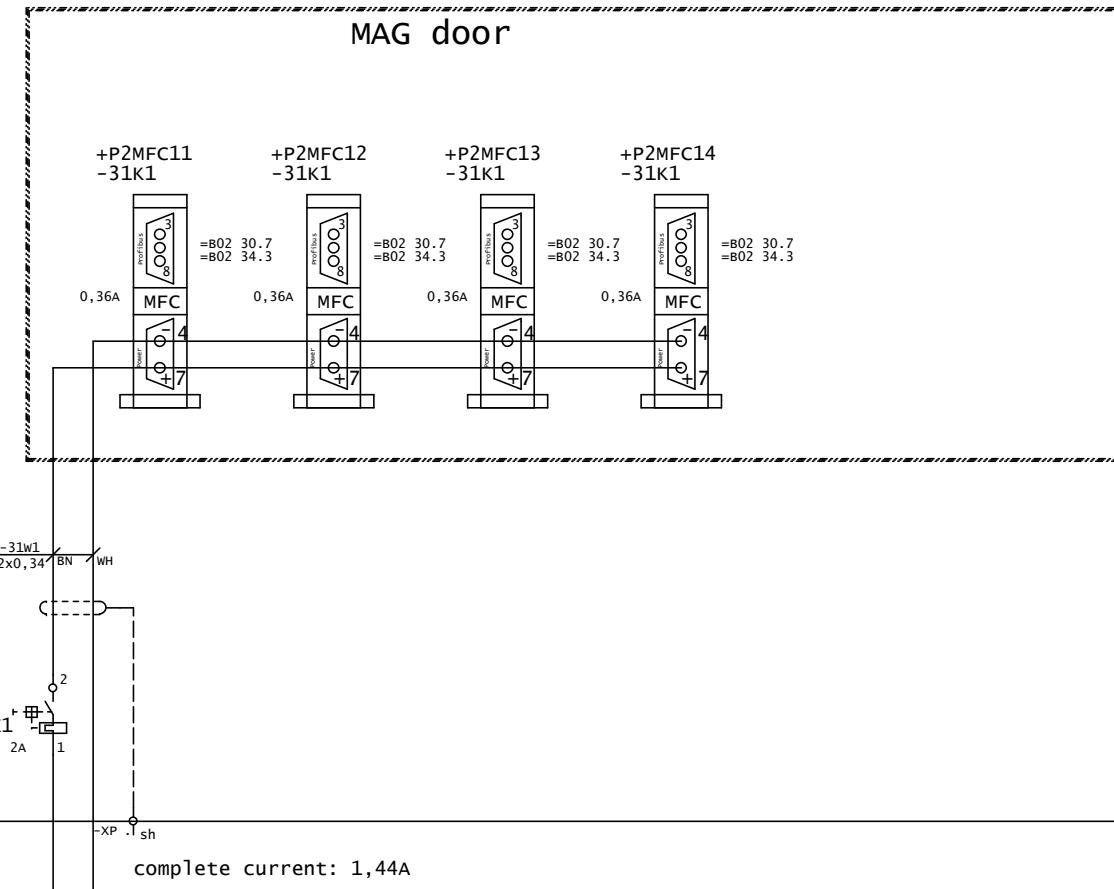
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	pyrometer	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 29	of 33	
cond.	alter.	date	name	norm				circuit diagram	< 28	30 >	

0	1	2	3	4	5	6	7	8	9
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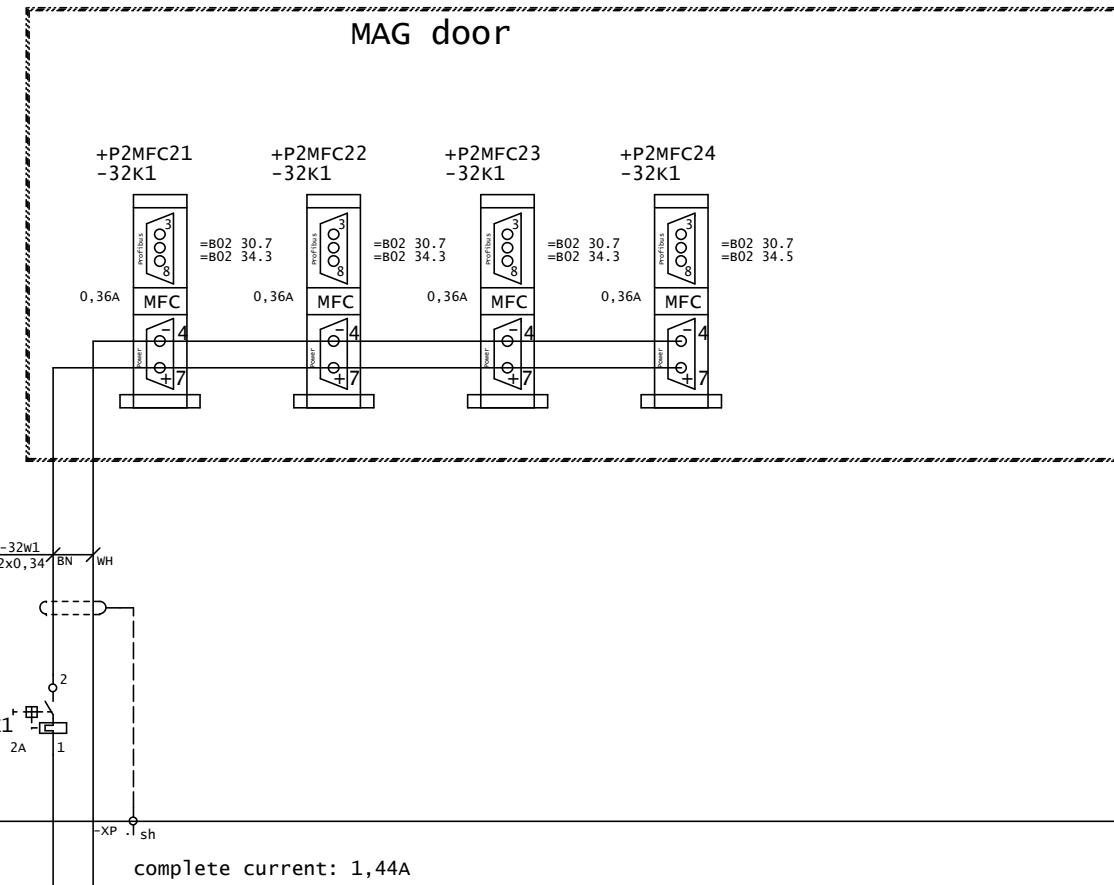
				date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	vacuum gauges	388-810000	P/005388	M32
				devel.	Henker				+P2KK01		
				check					sheet 30	of 33	
cond.	alter.	date	name	norm				circuit diagram	< 29	31 >	

0	1	2	3	4	5	6	7	8	9
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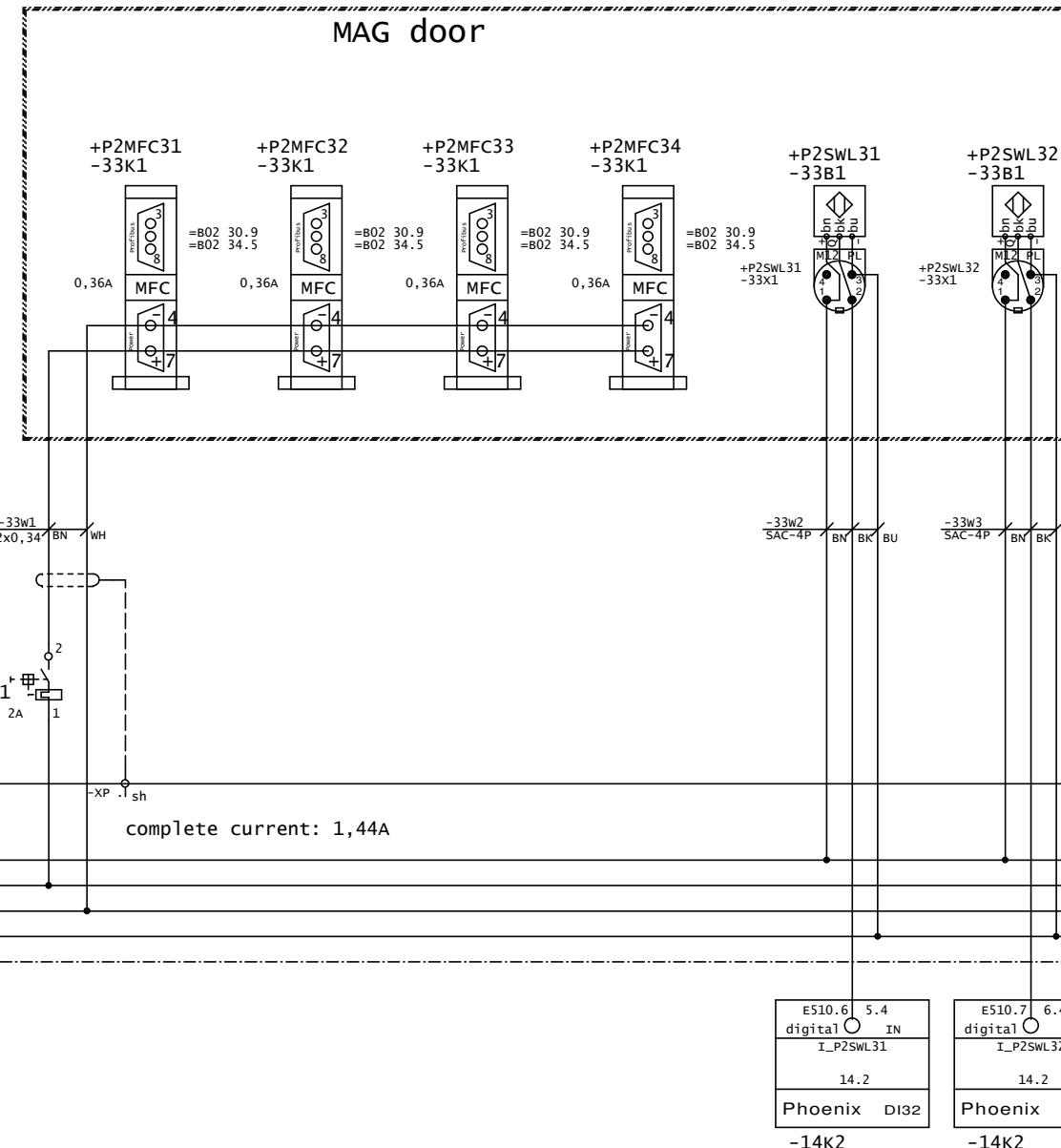
				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	MFC & leak detection folding flange 1	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 31	of 33	
cond.	alter.	date	name	norm				circuit diagram	< 30	32 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	MFC & leak detection folding flange 2	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 32	of 33	
cond.	alter.	date	name	norm					< 31	33 >	

0	1	2	3	4	5	6	7	8	9
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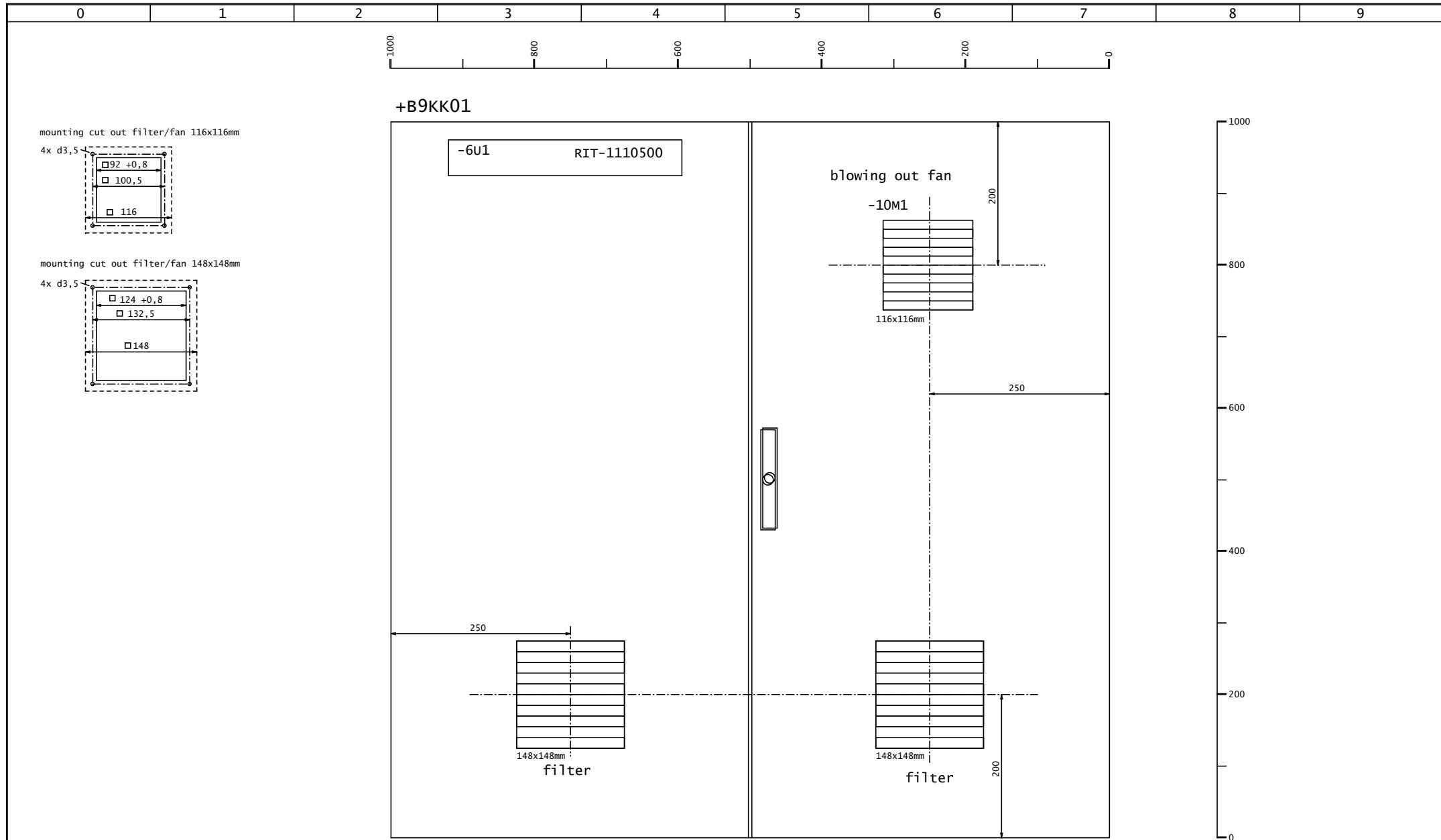
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	MFC & leak detection folding flange 3	388-810000	P/005388	=M32
				devel.	Henker				+P2KK01		
				check					sheet 33 of 33		
cond.	alter.	date	name	norm					< 32	=M39/6 >	

# partial arrangement:

## =M39

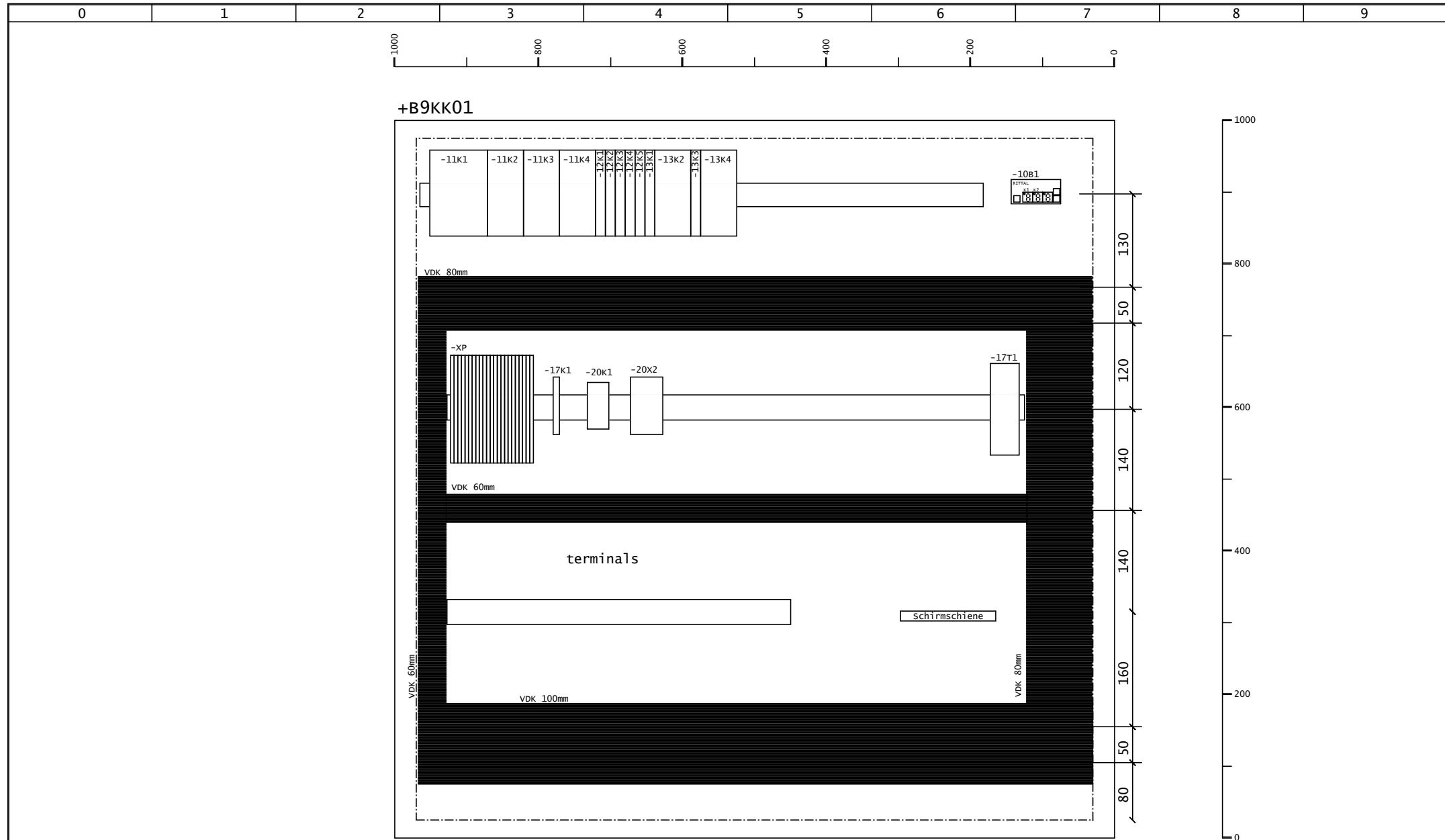
actuators/ sensors modules: B8, B9, L9, T9

machine number:	011003	year of manufacture:	>
 LEYBOLD OPTICS LEYBOLD OPTICS DRESDEN GmbH Zur Wetterwarte 50, Haus 303 D-01109 Dresden call: +49 351 86695 16 fax : +49 351 86695 42		remark :	
Plant built according to: safety of machines - Elektrische Ausrüstung von Maschinen		EN 60 204	(VDE 0113/1)
Date: 12/05	Developer: Henker	cover sheet	P/005388 388-810000



Scale (wscad): 1:5  
 equipment dimensions: (wide x height x deep)  
 all dimensions in mm  
 all dimensions only approximated!

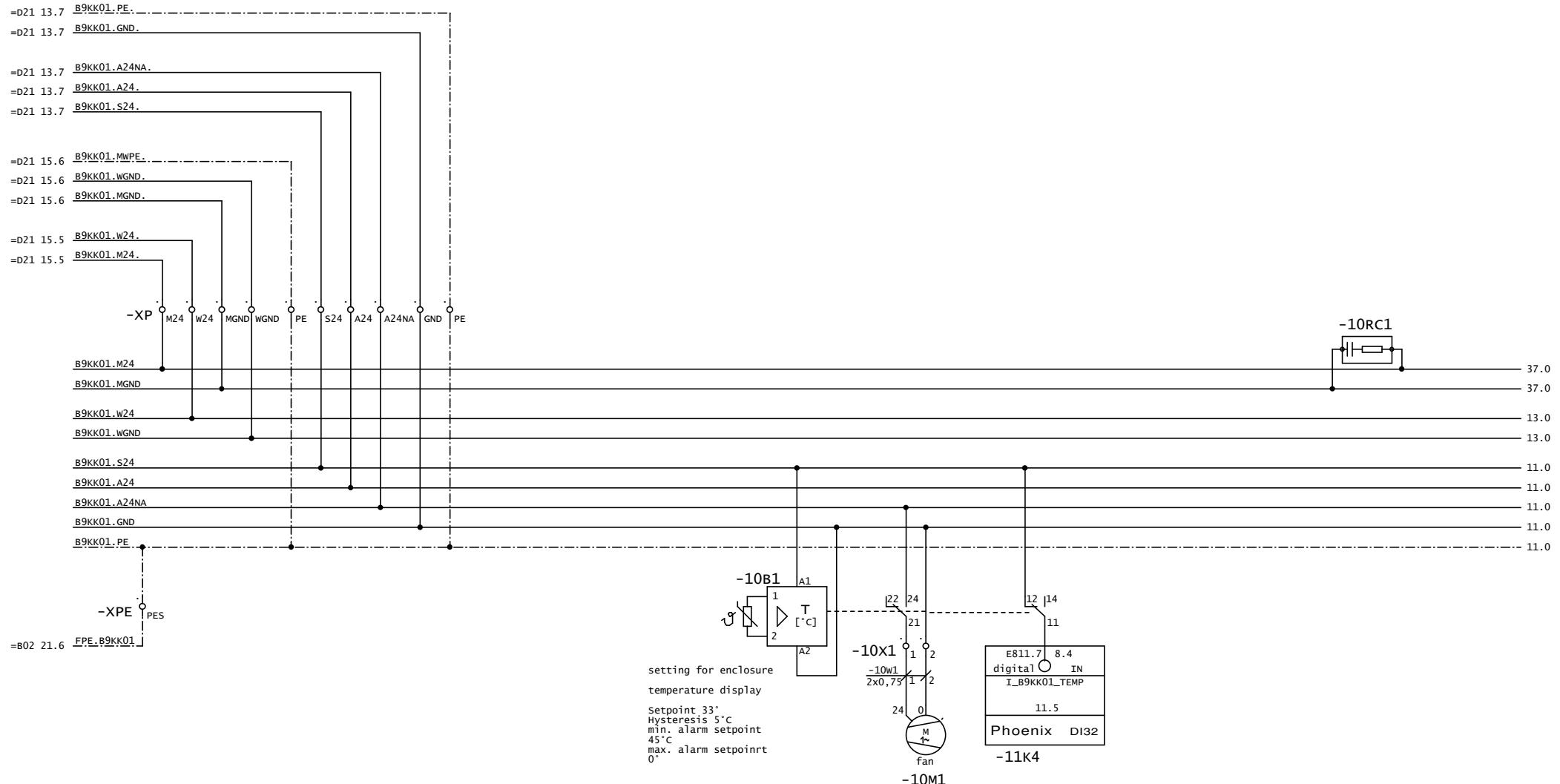
				date	12/05	A1500V-7 izno_AZ0	 LEYBOLD OPTICS	layout outside	388-810000	P/005388	=M39
				devel.	Henker						+B9KK01
				check							
cond.	alter.	date	name	norm							sheet 6 of 41 <= M32/33 7 >



equipment dimensions: (wide x height x deep)  
all dimensions in mm  
all dimensions only approximated!

				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	mounting plate	388-810000	P/005388	=M39	
				devel.	Henker				+B9KK01			
				check							sheet 7	of 41
cond.	alter.	date	name	norm					layout		< 6	10 >

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	feed-in	388-810000	P/005388	=M39
				devel.	Henker						+B9KK01
				check							sheet 10 of 41
cond.	alter.	date	name	norm							< 7 11 >

0 1 2 3 4 5 6 7 8 9

**-11K1**

digital IN			
DI 32			
position	PIN	Name	symbol name
24.6	O 1.1	E800.0	I_L9AL01_CLOSE
24.7	O 2.1	E800.1	I_L9AL01_OPEN
24.8	O 1.2	E800.2	I_L9AL02_LOCKED
24.8	O 2.2	E800.3	I_L9AL02_UNLOCKED
24.1	O 1.3	E800.4	I_T9SC01
24.2	O 2.3	E800.5	I_T9SC02
24.3	O 1.4	E800.6	I_T9SC03
24.4	O 2.4	E800.7	I_T9SC03
21.2	O 3.1	E801.0	I_B8SC01
21.3	O 4.1	E801.1	I_B8SC02
21.4	O 3.2	E801.2	I_B8SC03
21.5	O 4.2	E801.3	I_B8SC03
21.5	O 3.3	E801.4	I_B8SC11
21.6	O 4.3	E801.5	I_B8SC12
21.7	O 3.4	E801.6	I_B8SC13
21.8	O 4.4	E801.7	I_B8SC13
22.2	O 5.1	E802.0	I_B9SC01
22.3	O 6.1	E802.1	I_B9SC02
22.4	O 5.2	E802.2	I_B9SC03
22.5	O 6.2	E802.3	I_B9SC03
22.5	O 5.3	E802.4	I_B9SC11
22.6	O 6.3	E802.5	I_B9SC12
22.7	O 5.4	E802.6	I_B9SC13
22.8	O 6.4	E802.7	I_B9SC13
23.2	O 7.1	E803.0	I_L9SC01
23.3	O 8.1	E803.1	I_L9SC02
23.4	O 7.2	E803.2	I_L9SC03
23.5	O 8.2	E803.3	I_L9SC03
23.5	O 7.3	E803.4	I_L9SC11
23.6	O 8.3	E803.5	I_L9SC12
23.7	O 7.4	E803.6	I_L9SC13
23.8	O 8.4	E803.7	I_L9SC14

**-11K2**

**-11K3**

**-11K4**

B9KK01\_IB\_12.0

10.9 B9KK01.S24 12.0

10.9 B9KK01.A24 12.0

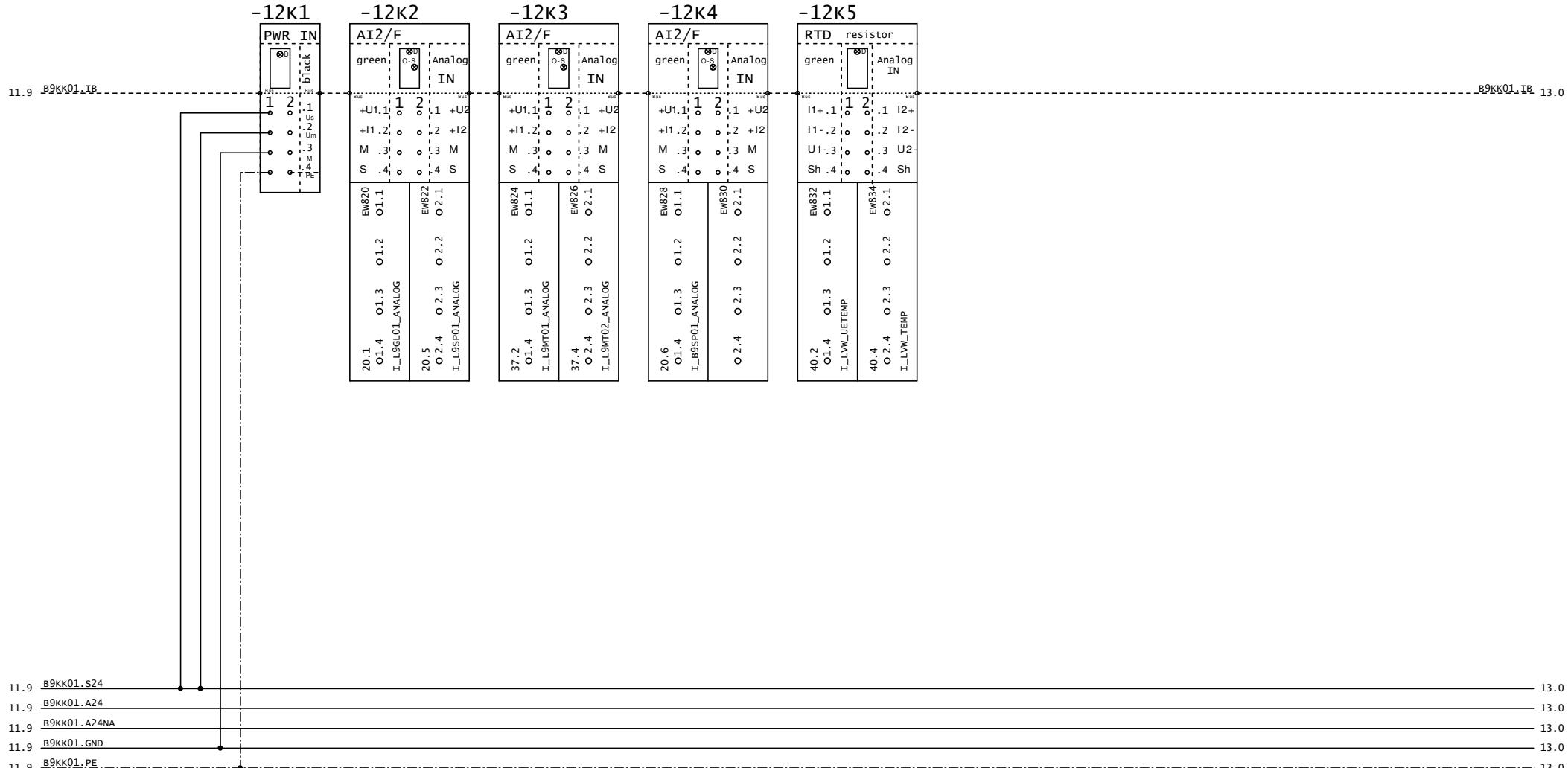
10.9 B9KK01.A24NA 12.0

10.9 B9KK01.GND 12.0

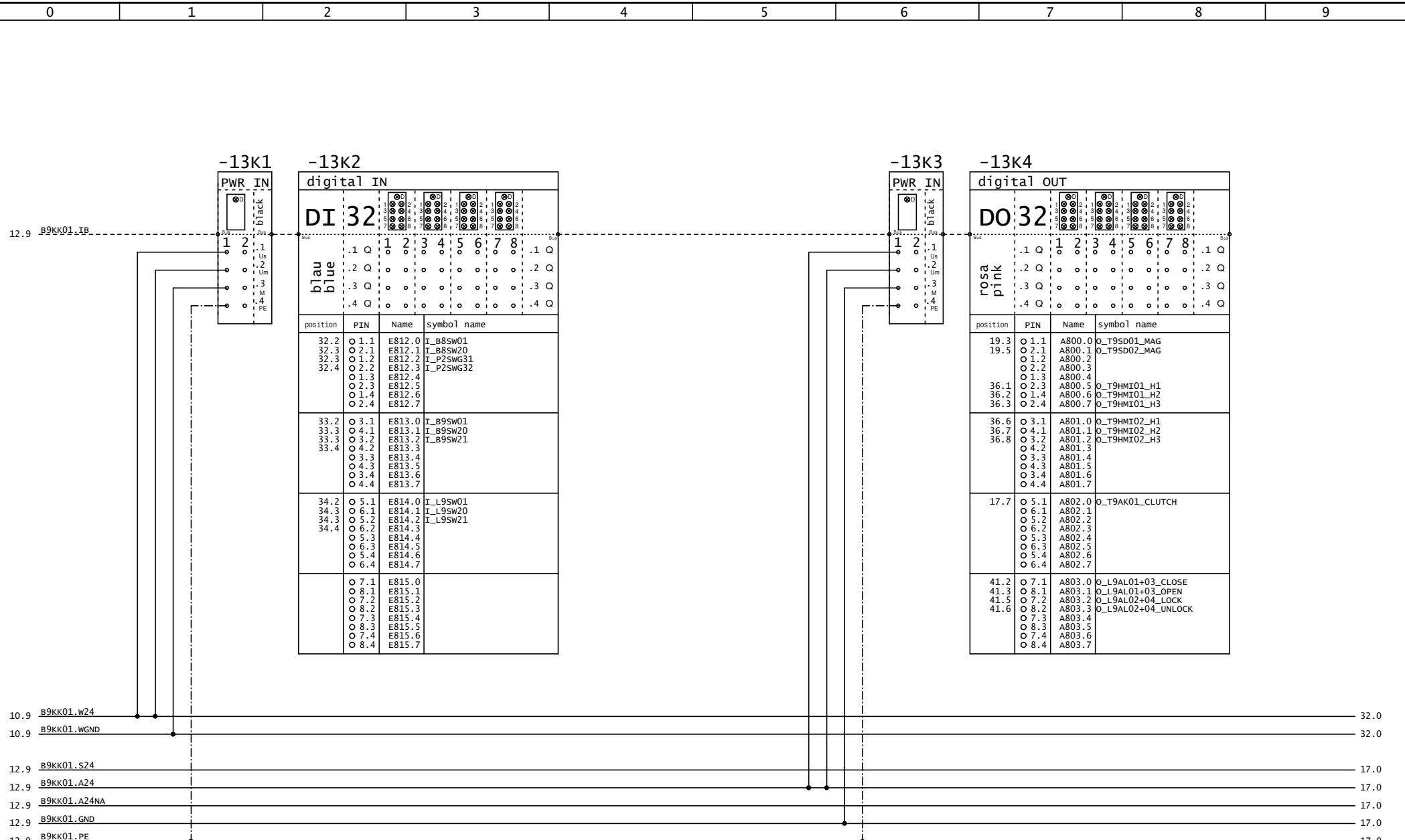
10.9 B9KK01.PE 12.0

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				devel.	Henker				+B9KK01		
				check							
cond.	alter.	date	name	norm							
									sheet 11	of 41	
									< 10		12 >

0	1	2	3	4	5	6	7	8	9
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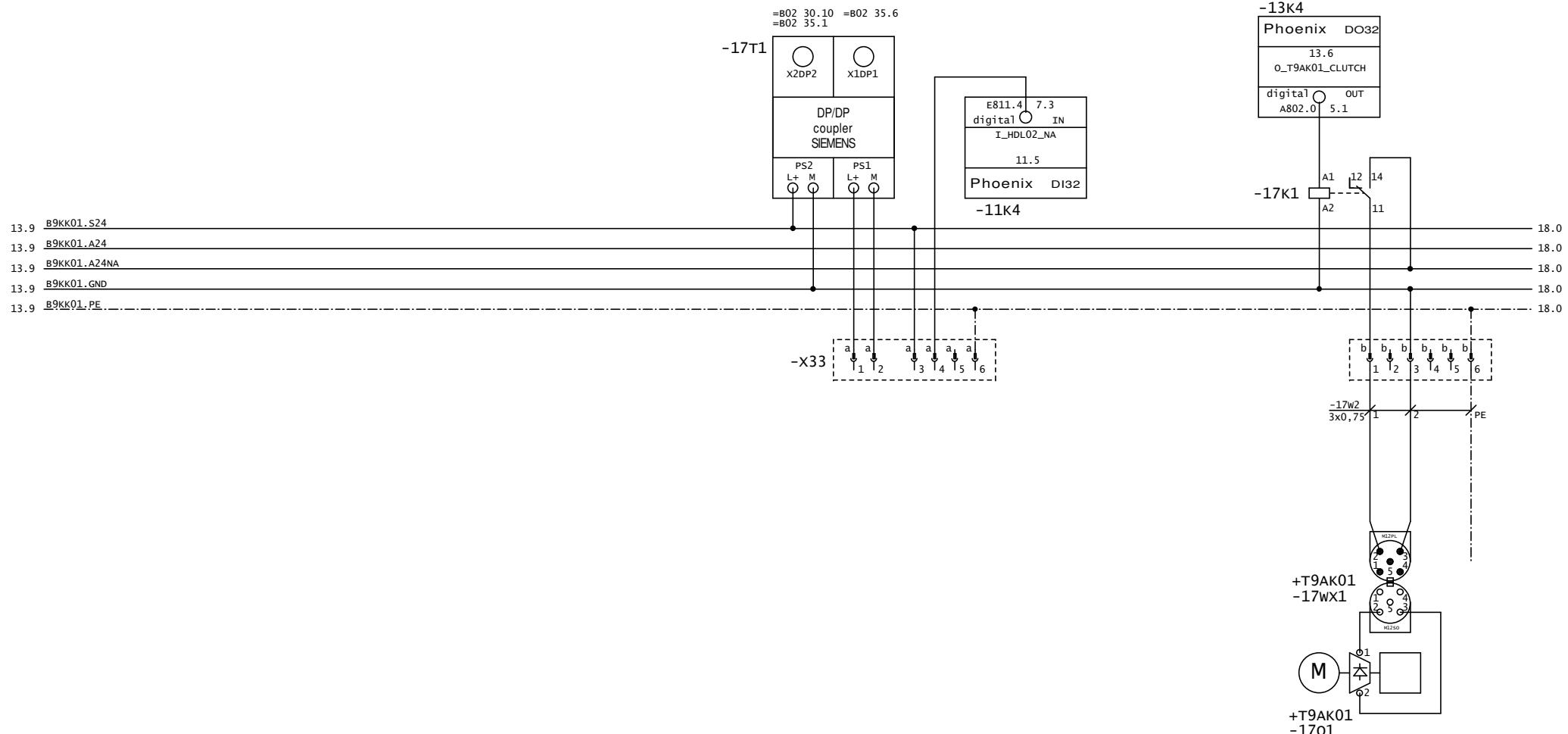


				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	analog inputs	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 12	of 41	
cond.	alter.	date	name	norm				circuit diagram			< 11 13 >



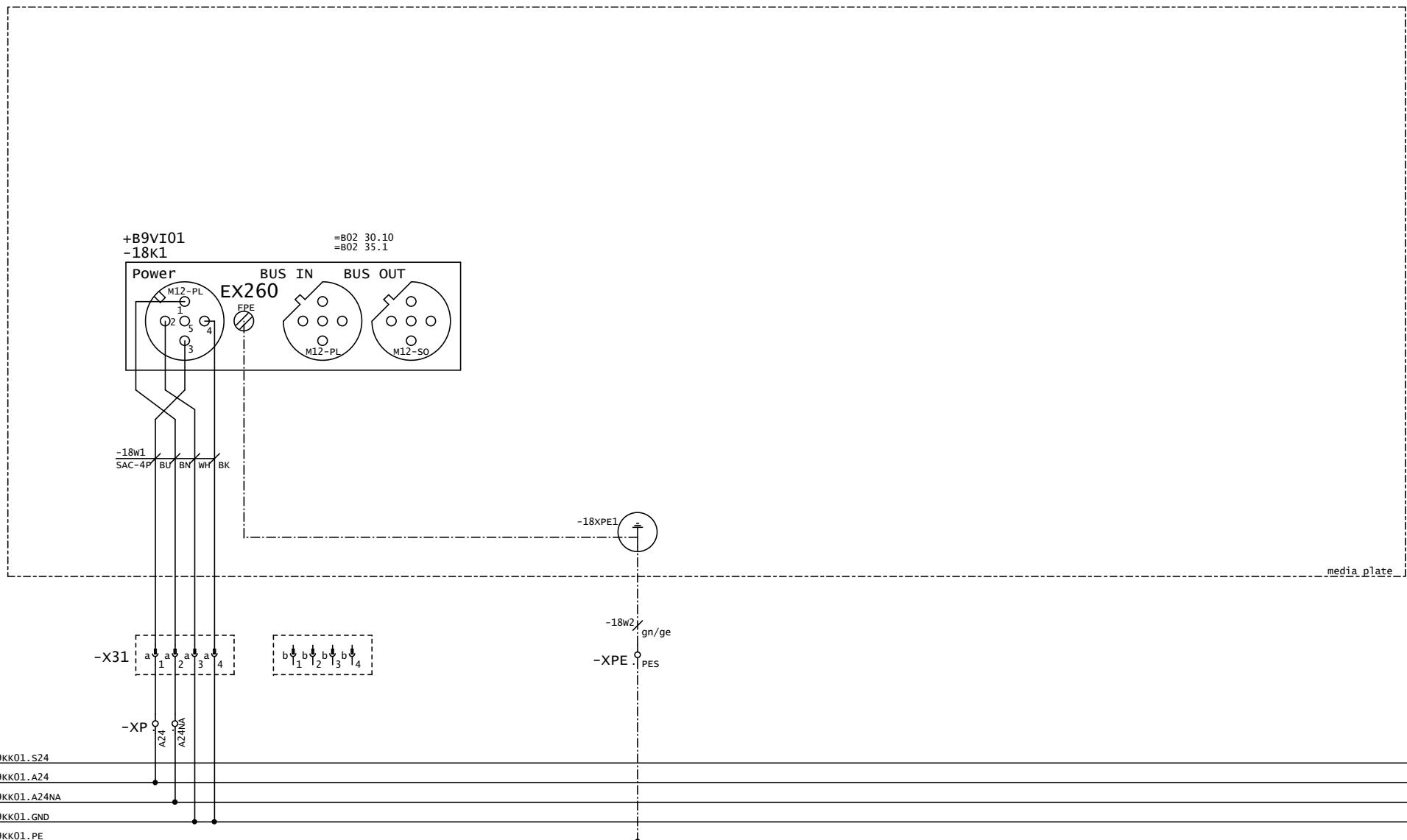
				date	12/05	A1500V-7 izno_Azo	 <b>LEYBOLD OPTICS</b>	digital I/O	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 13	of 41	
cond.	alter.	date	name	norm					< 12		> 17 >

0	1	2	3	4	5	6	7	8	9
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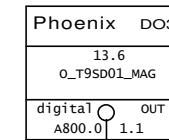
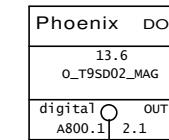
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	unloading station	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check						sheet 17	of 41
cond.	alter.	date	name	norm						< 13	18 >

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	valve unit B9	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 18	of 41	
cond.	alter.	date	name	norm					< 17	19 >	

0	1	2	3	4	5	6	7	8	9
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**-13K4****-13K4**18.9 B9KK01.GND

20.0

18.9 B9KK01.PE

20.0

**-X4****-19W1**  
3x0,75

+T9SD01  
-19F1  
guard locking  
magnet

**-X4****-19W2**  
3x0,75

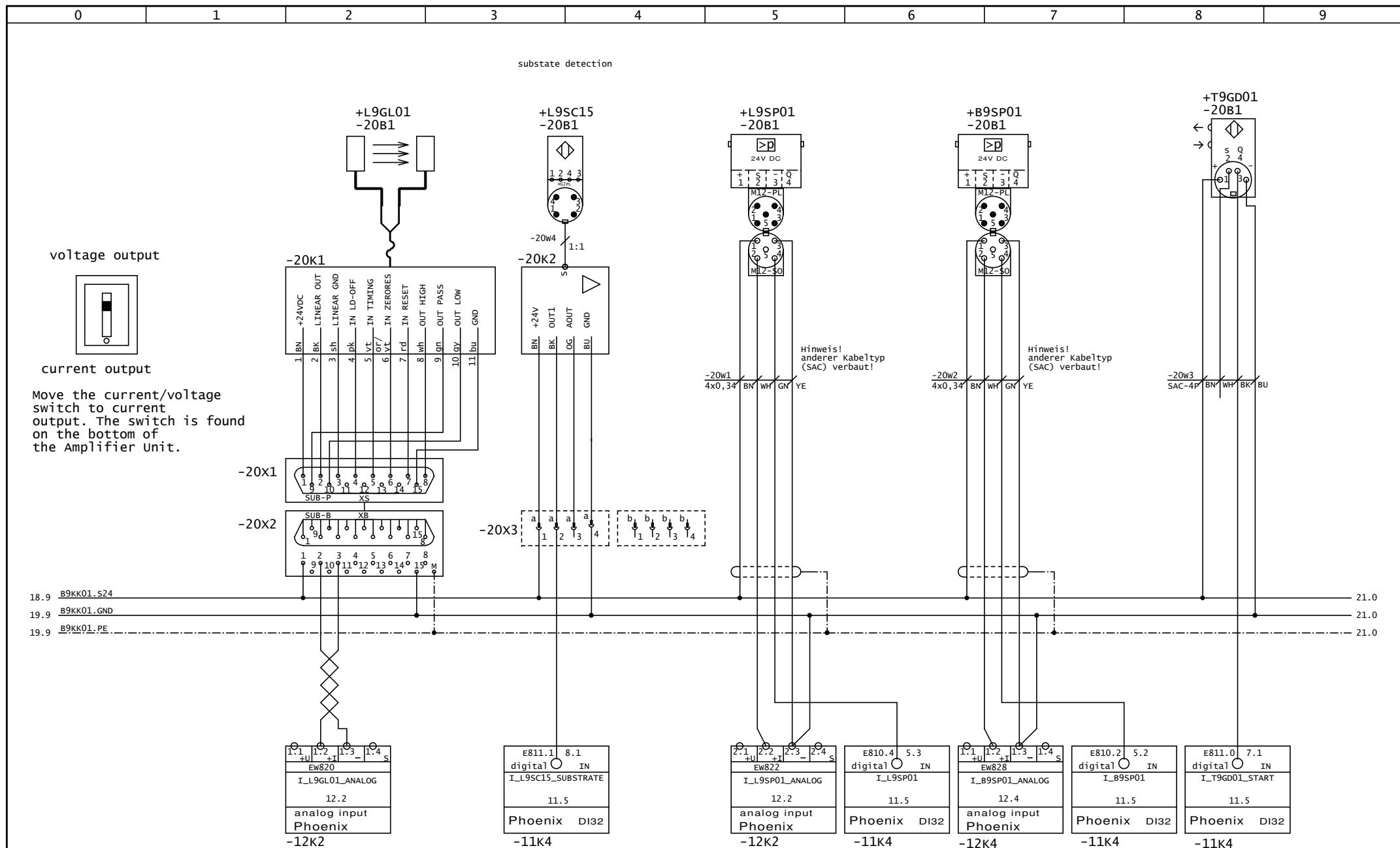
+T9SD02  
-19F1  
guard locking  
magnet

A1  
A2A1  
A21  
21  
2

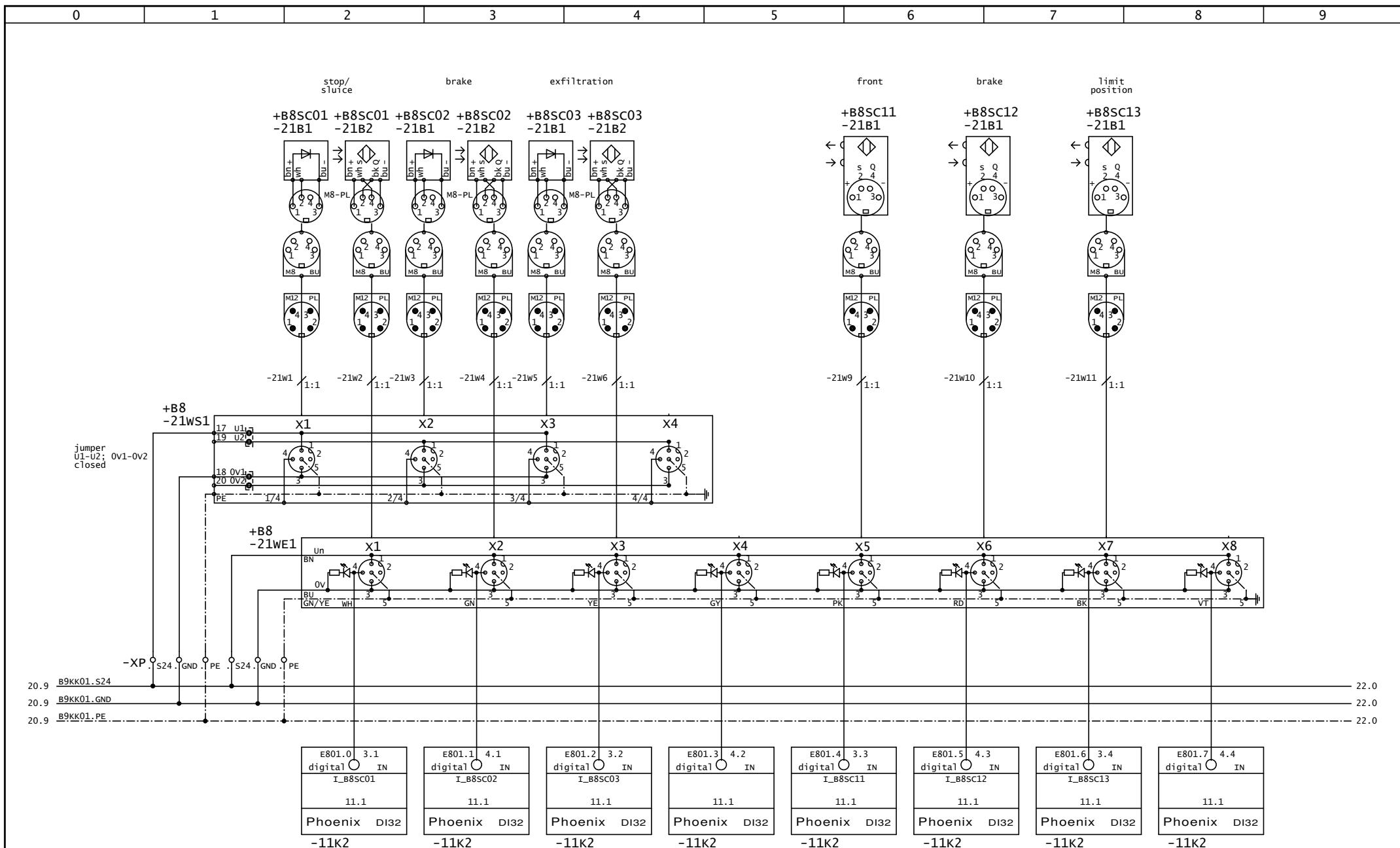
PE

PE

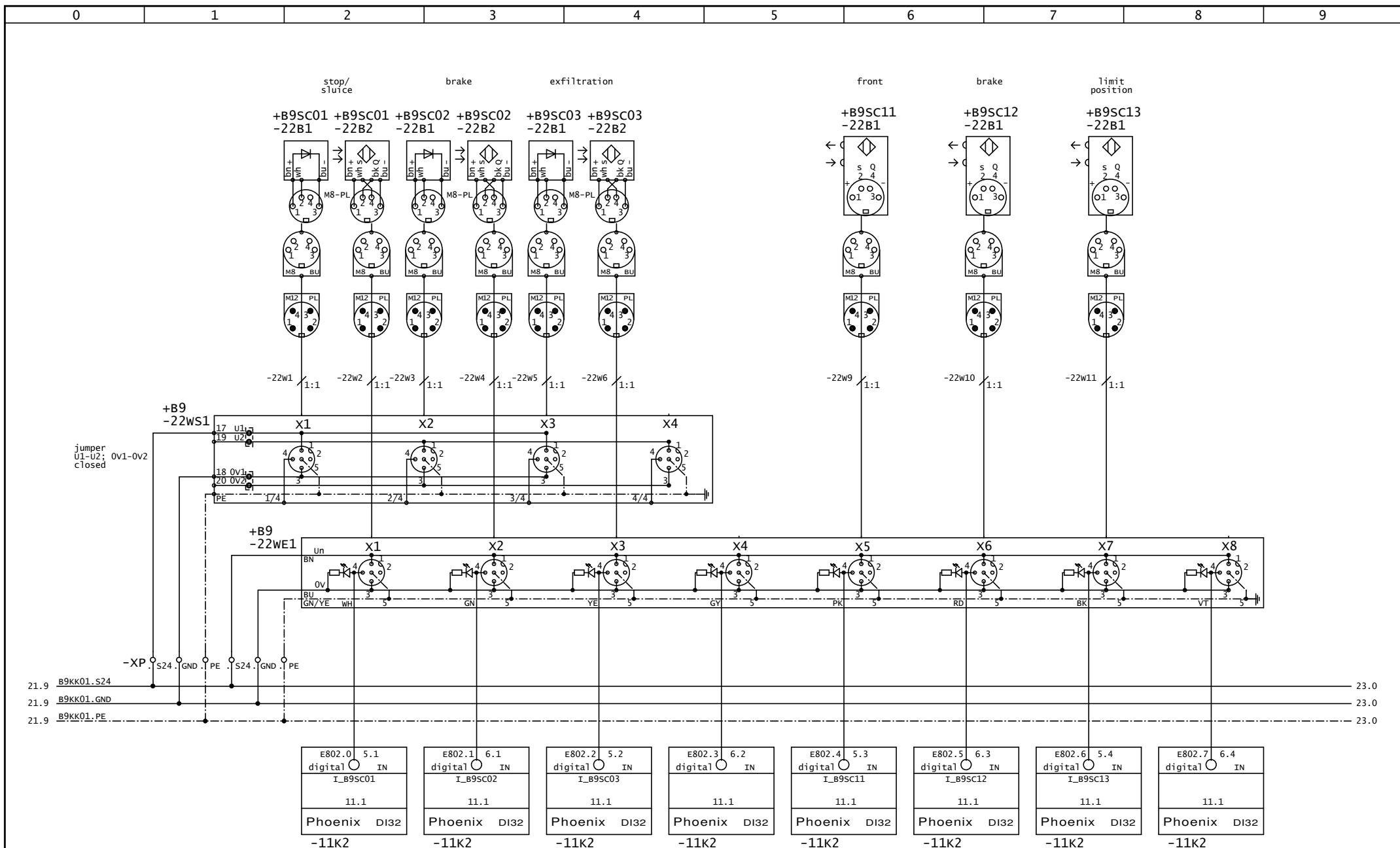
				date	12/05	A1500V-7 iznO_AZ0		door locking	388-810000	P/005388	=M39
				devel.	Henker						+B9KK01
				check							sheet 19 of 41
cond.	alter.	date	name	norm					circuit diagram		< 18 20 >



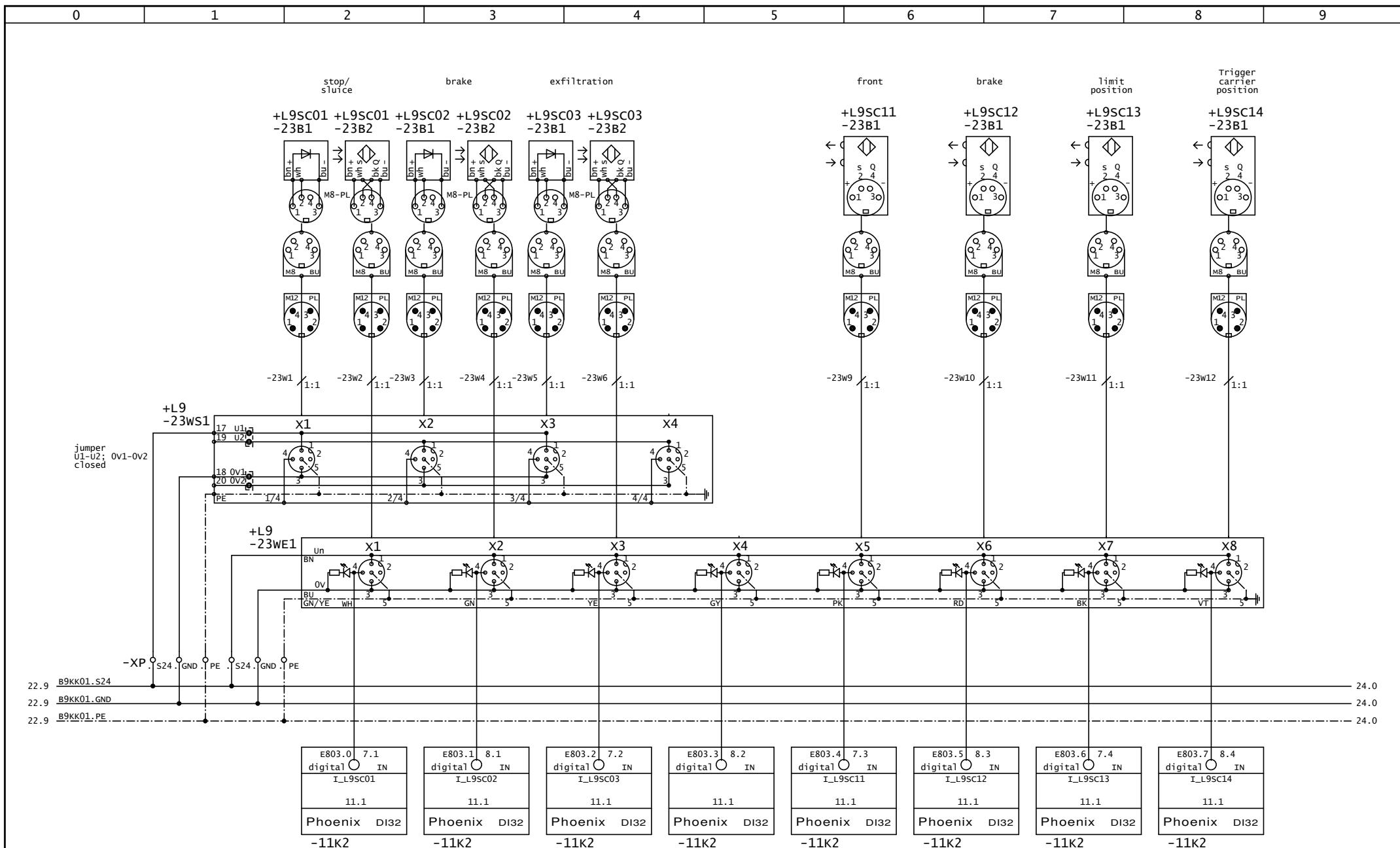
				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	pressure switch	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 20	of 41	
cond.	alter.	date	name	norm					< 19		> 21 >

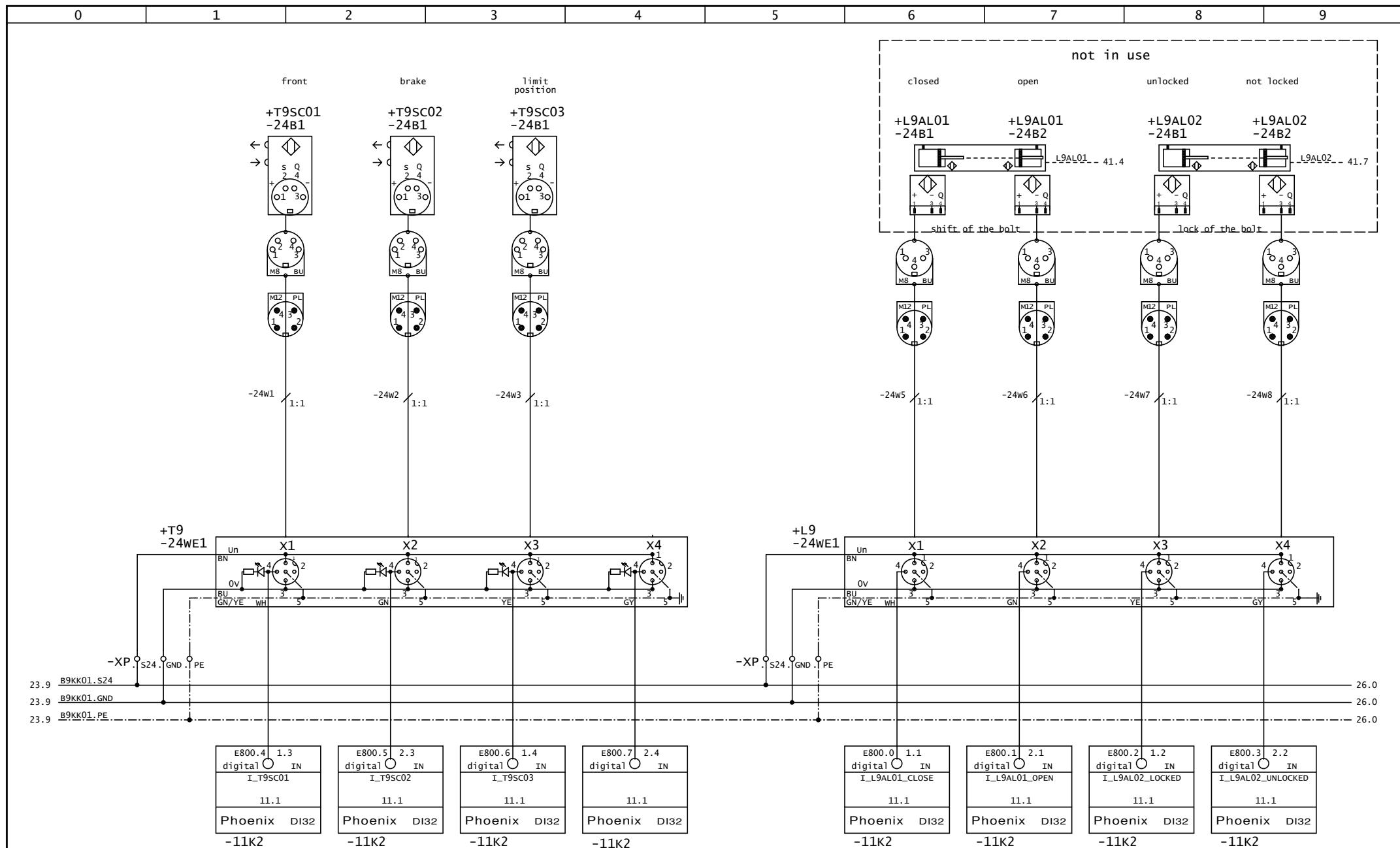


				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	B8SC	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 21	of 41	
cond.	alter.	date	name	norm					< 20	22 >	



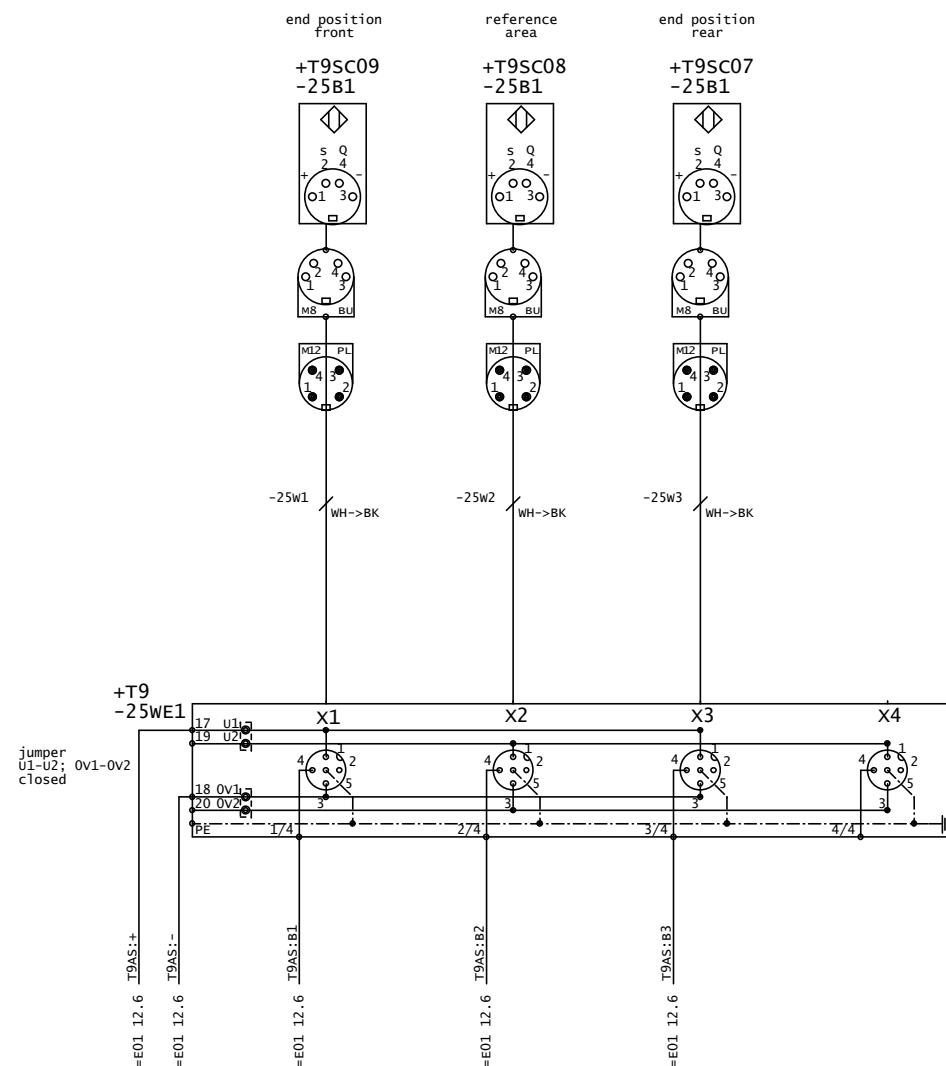
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	B9SC	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 22	of 41	
cond.	alter.	date	name	norm					< 21	23 >	





				date	12/05	A1500V-7 iznO_AZO	 LEIBOLD OPTICS	T9SC01...03	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check						sheet 24	of 41
cond.	alter.	date	name	norm						< 23	> 25 >
									circuit diagram		

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	T9SC07...09	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 25 of 41		
cond.	alter.	date	name	norm					< 24	26 >	

carrier detection

The circuit diagram illustrates the carrier detection logic for eight bits (bit 0 to bit 7). Each bit path consists of a T9GD01 component, a 2-to-1 MUX (M8), and a PLD (ML2). The outputs of these stages are labeled -26W1 through -26W8. Below this, a large terminal block (T9GD01) is shown with pins X1 through X8. The connections from the logic stages to the terminal block are as follows:

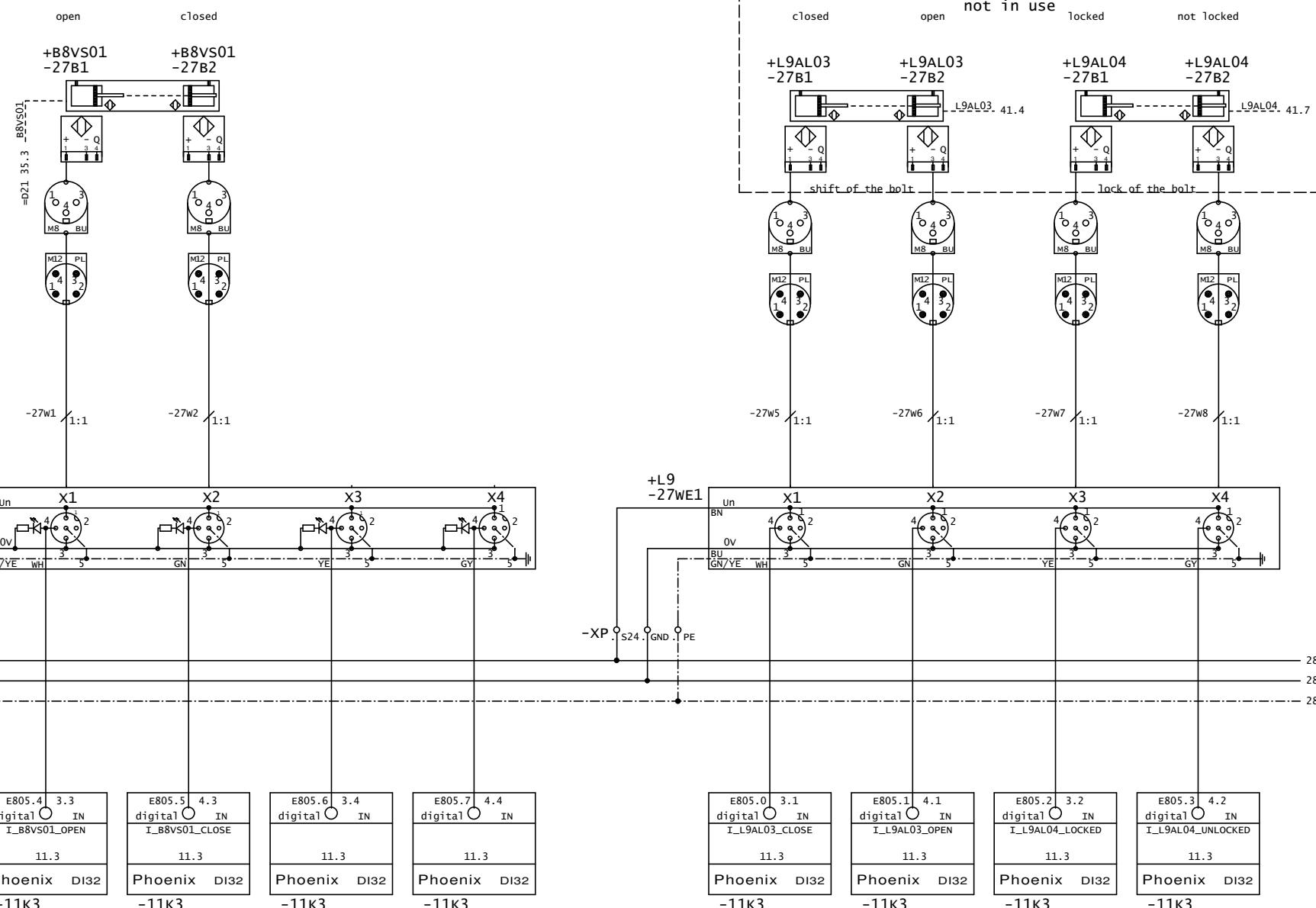
- 26W1 connects to X1 (BU, GN/YE, WH)
- 26W2 connects to X2 (GN, YE)
- 26W3 connects to X3 (YE)
- 26W4 connects to X4 (GN, YE)
- 26W5 connects to X5 (PK)
- 26W6 connects to X6 (RD)
- 26W7 connects to X7 (BK)
- 26W8 connects to X8 (VT)

Below the terminal block, a legend provides the component details for each connection:

E804.0 1.1 digital IN I_T9GD01_Bit0 11.3 Phoenix DI32 -11K3	E804.1 2.1 digital IN I_T9GD01_Bit1 11.3 Phoenix DI32 -11K3	E804.2 1.2 digital IN I_T9GD01_Bit2 11.3 Phoenix DI32 -11K3	E804.3 2.2 digital IN I_T9GD01_Bit3 11.3 Phoenix DI32 -11K3	E804.4 1.3 digital IN I_T9GD01_Bit4 11.3 Phoenix DI32 -11K3	E804.5 2.3 digital IN I_T9GD01_Bit5 11.3 Phoenix DI32 -11K3	E804.6 1.4 digital IN I_T9GD01_Bit6 11.3 Phoenix DI32 -11K3	E804.7 2.4 digital IN I_T9GD01_Bit7 11.3 Phoenix DI32 -11K3
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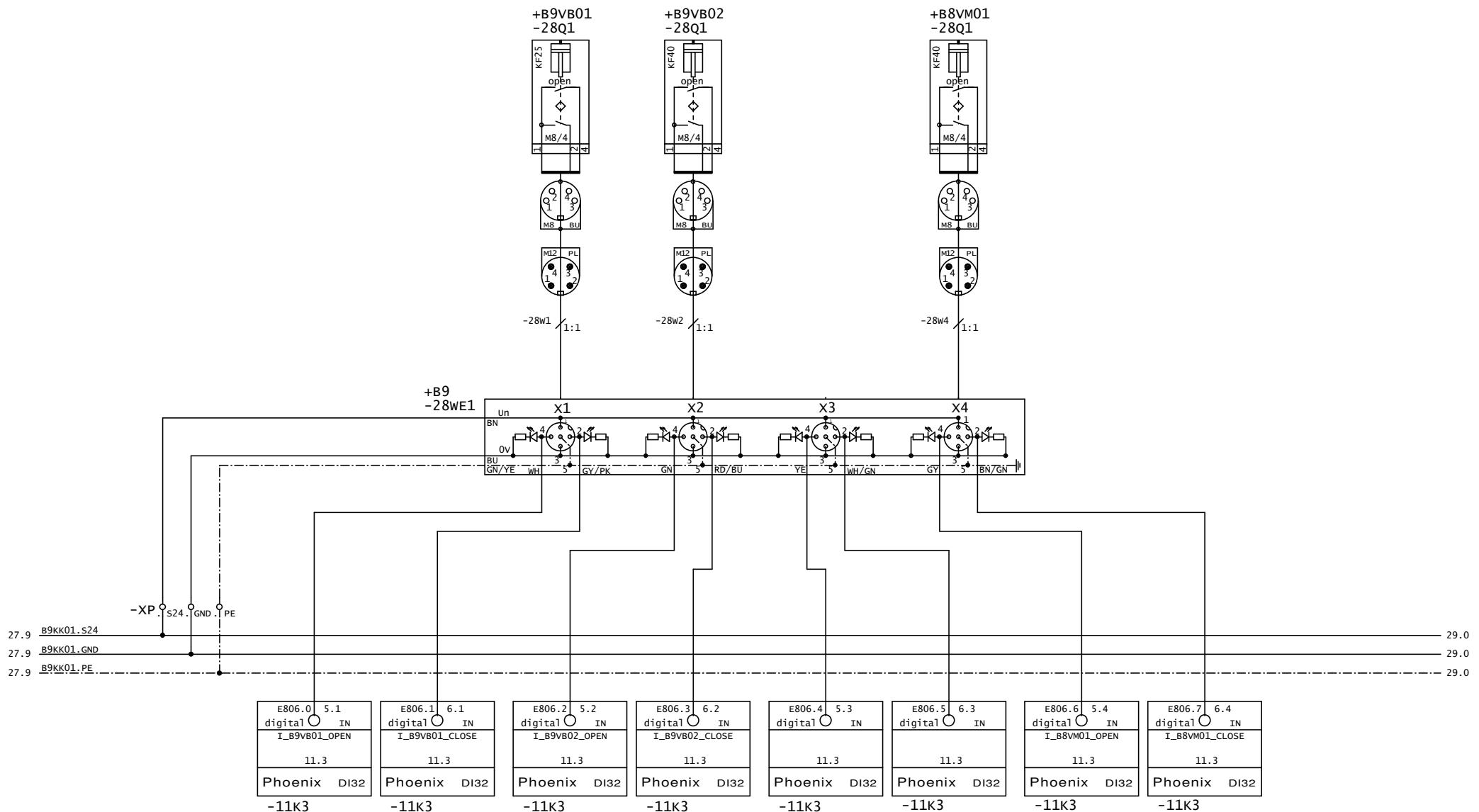
Annotations at the bottom left indicate component values: 24.9 B9KK01.S24, 24.9 B9KK01.GND, and 24.9 B9KK01.PE, all connected to ground with a 27.0 ohm resistor.

0	1	2	3	4	5	6	7	8	9
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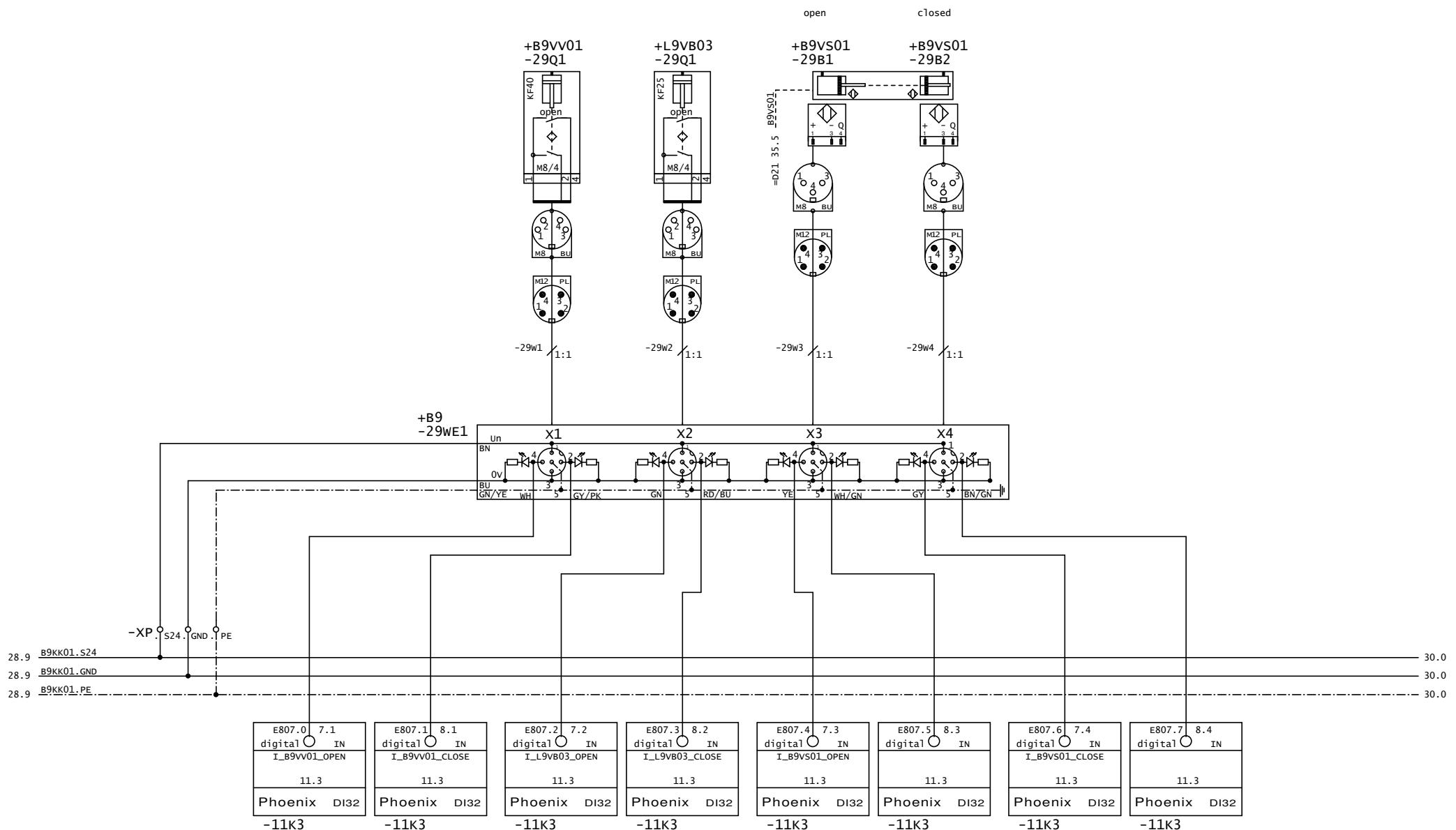
				date	12/05	A1500V-7 izn0_AZ0	LEYBOLD OPTICS	B8 digitale input bottomside	388-810000	P/005388	M39
				devel.	Henker						+B9KK01
				check							sheet 27 of 41
cond.	alter.	date	name	norm							< 26                                  28 >

0	1	2	3	4	5	6	7	8	9
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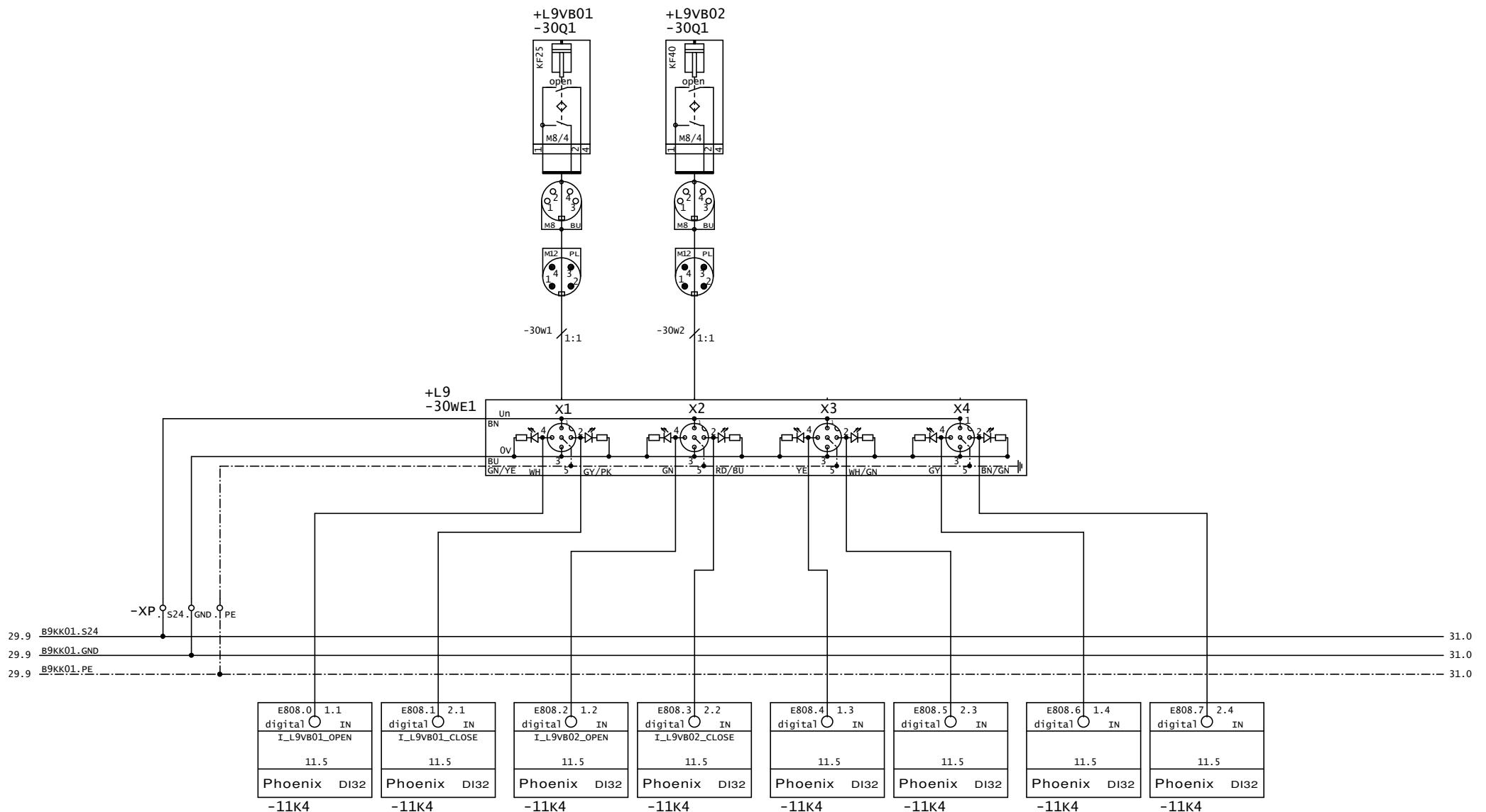
				date	12/05	A1500V-7 iznO_AZ0		B9 digitale input upside	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 28	of 41	
cond.	alter.	date	name	norm					< 27	29 >	

0	1	2	3	4	5	6	7	8	9
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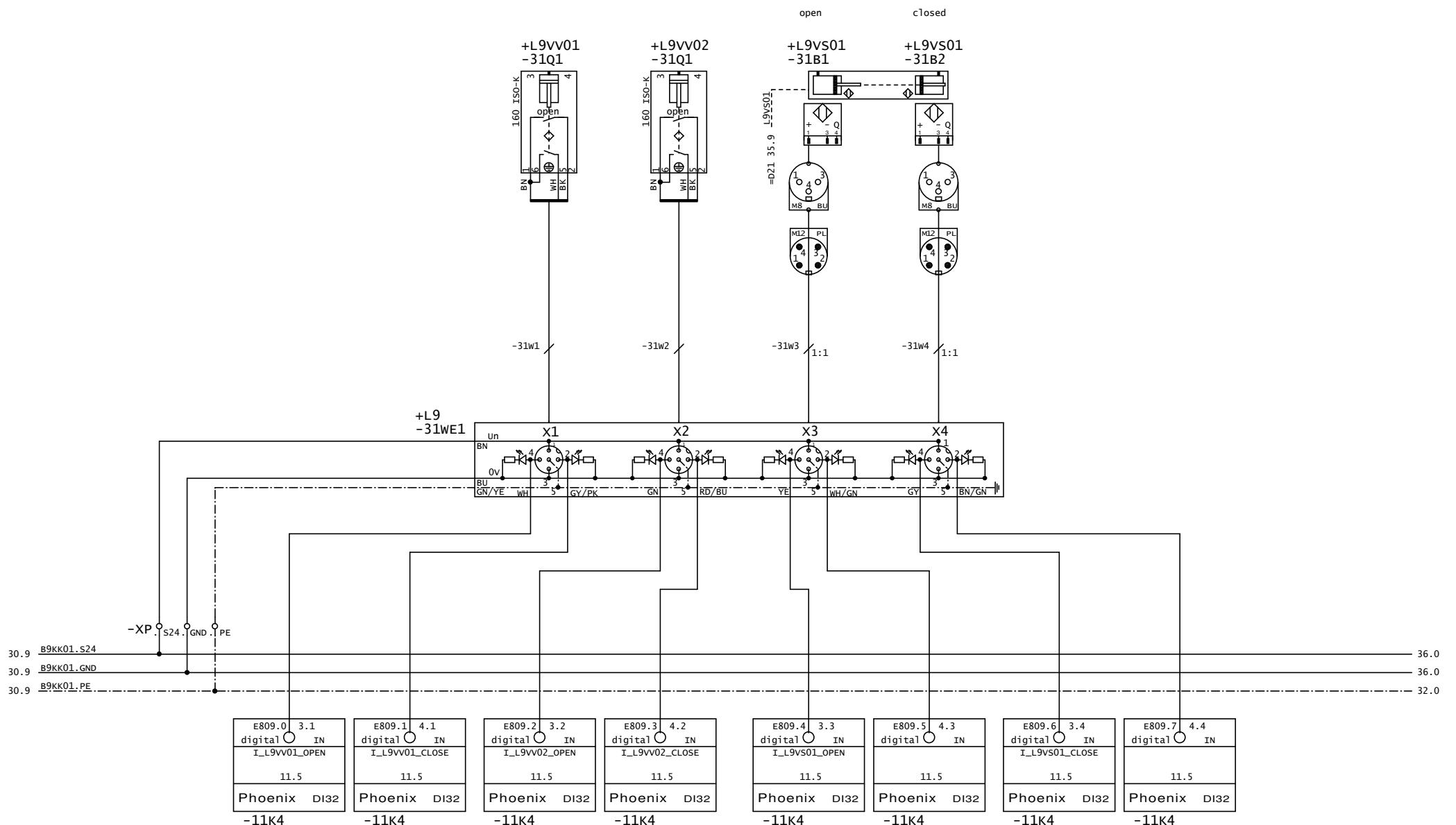
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	B9 digitale input bottomside	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 29	of 41	
cond.	alter.	date	name	norm					< 28	30 >	

0	1	2	3	4	5	6	7	8	9
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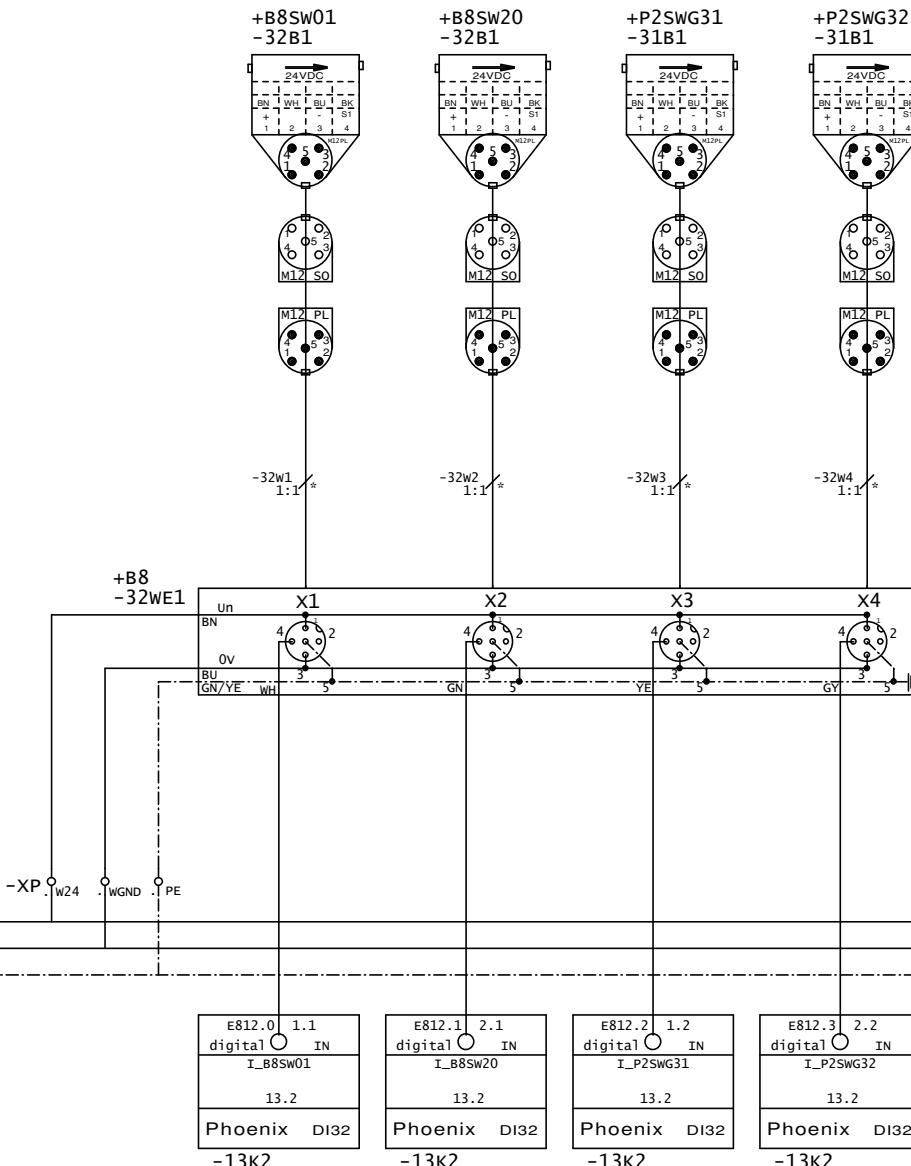
				date	12/05	A1500V-7 iznO_AZ0		L9 digitale input upside	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 30	of 41	
cond.	alter.	date	name	norm					< 29	31 >	

0	1	2	3	4	5	6	7	8	9
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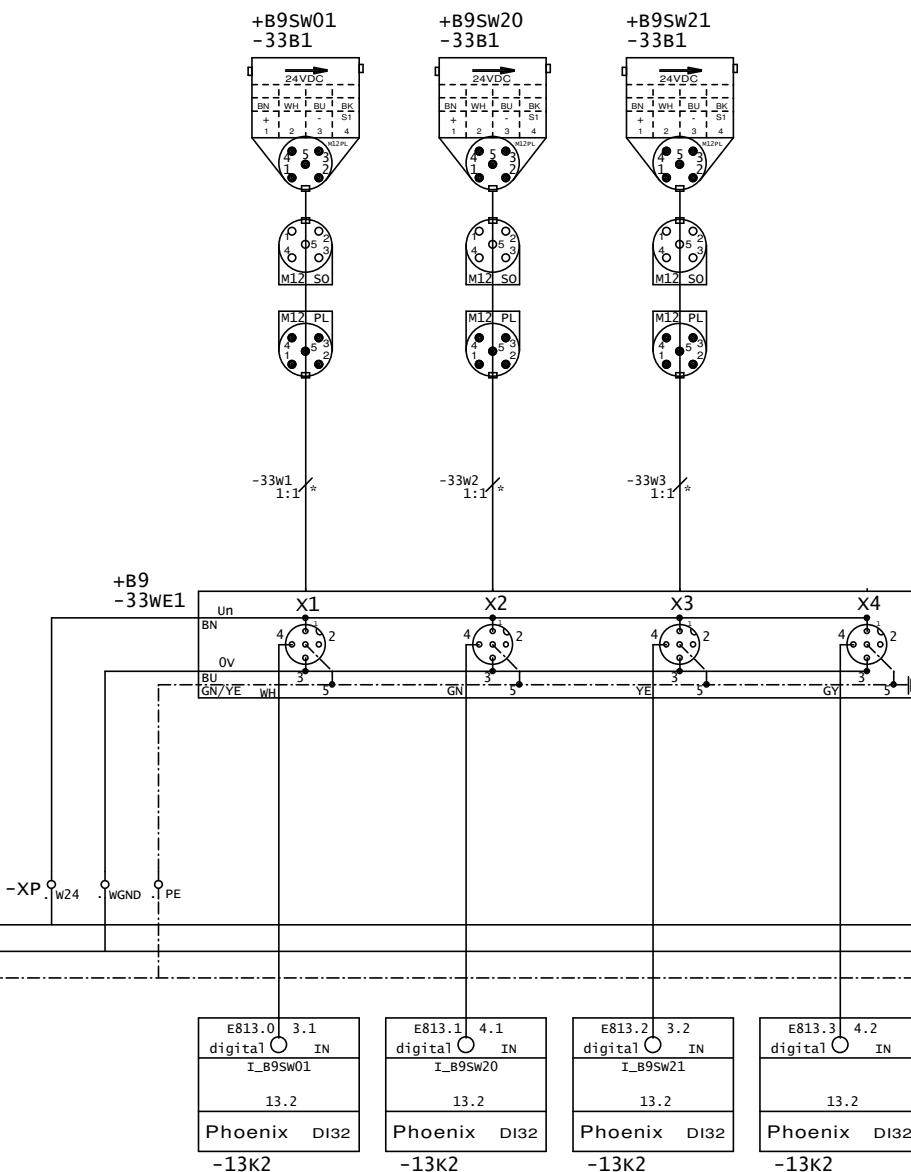
				date	12/05	A1500V-7 iznO_AZ0	<b>LEYBOLD OPTICS</b>	L9 digitale input bottomside	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 31	of 41	
cond.	alter.	date	name	norm					< 30		32 >

0	1	2	3	4	5	6	7	8	9
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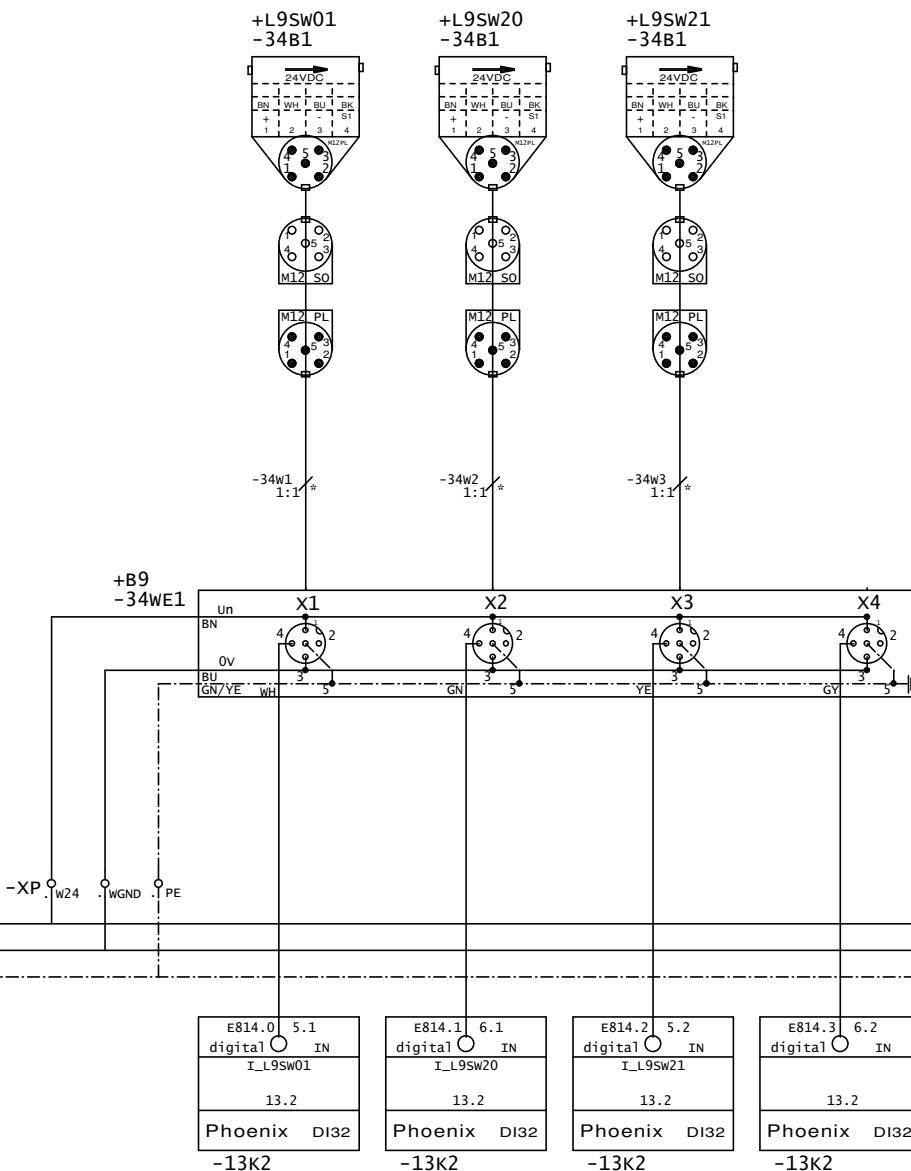
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				devel.	Henker				+B9KK01		
				check					sheet 32 of 41		
cond.	alter.	date	name	norm					< 31	33 >	

0	1	2	3	4	5	6	7	8	9
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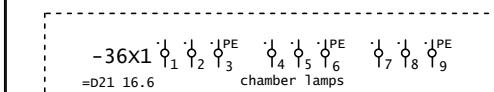
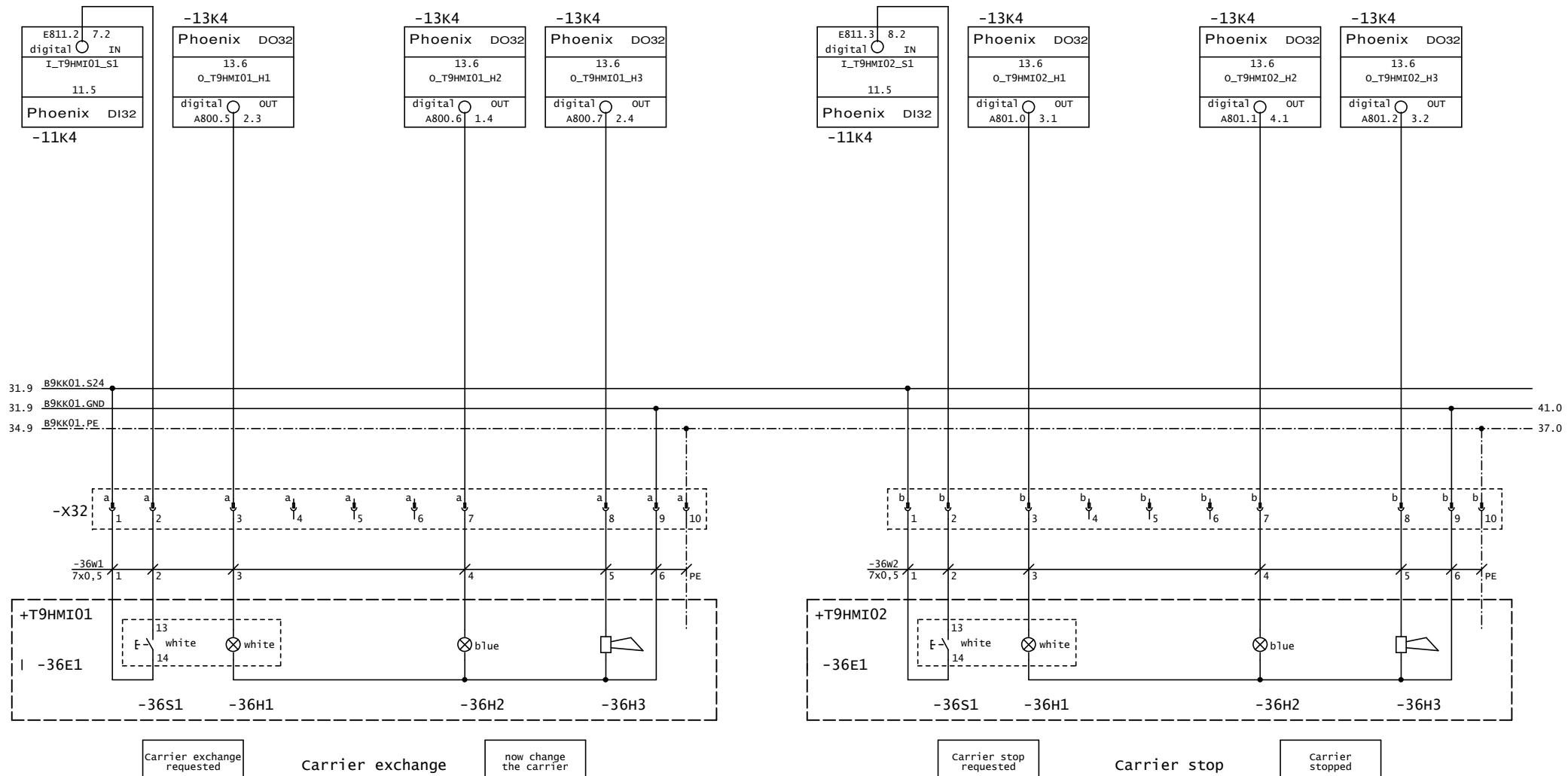
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	flow monitoring B9	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check						sheet 33	of 41
cond.	alter.	date	name	norm					circuit diagram		< 32 34 >

0	1	2	3	4	5	6	7	8	9
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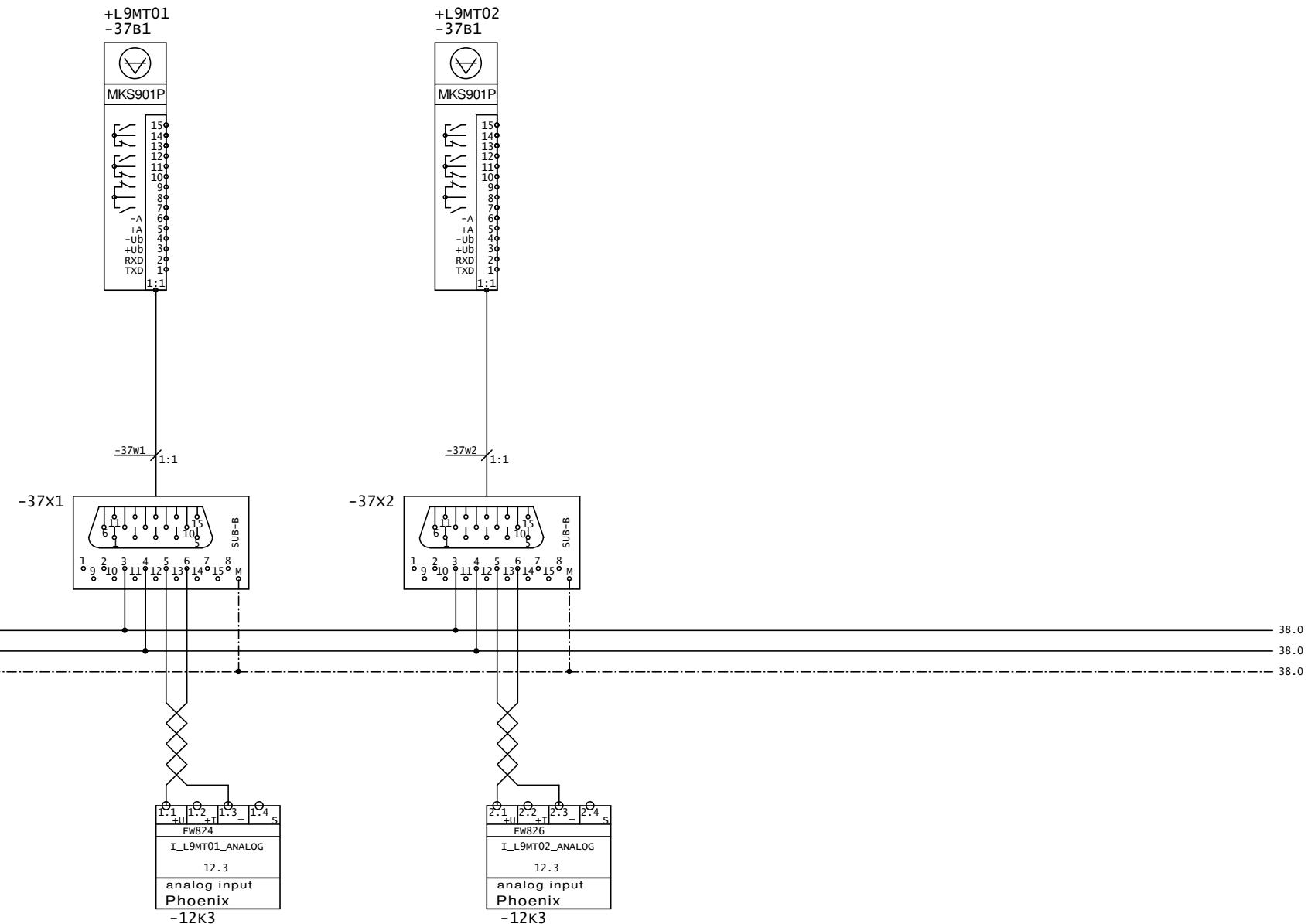
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	flow monitoring L9	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check						sheet 34	of 41
cond.	alter.	date	name	norm					circuit diagram		< 33 36 >

0	1	2	3	4	5	6	7	8	9
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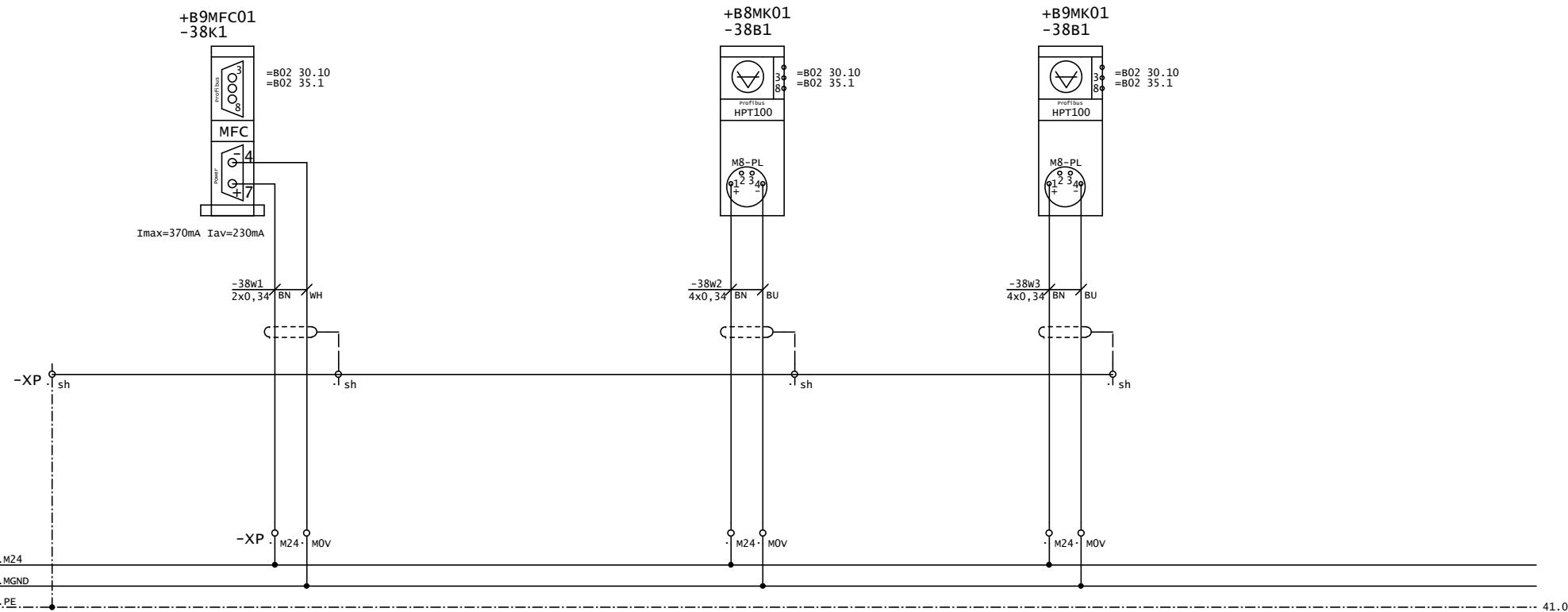
				date	12/05	A1500V-7 iznO_AZ0	LEYBOLD OPTICS	T9HMI01 & T9HMI02	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 36	of 41	
cond.	alter.	date	name	norm					< 34		37 >

0	1	2	3	4	5	6	7	8	9
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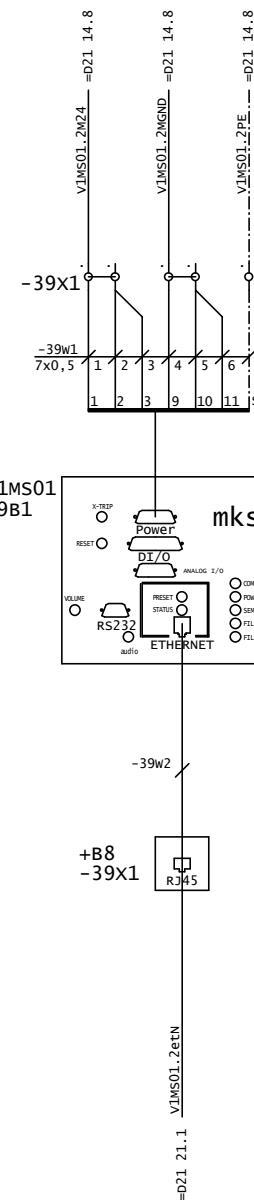
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	pressure measurment L9	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 37	of 41	
cond.	alter.	date	name	norm					< 36	38 >	

0	1	2	3	4	5	6	7	8	9
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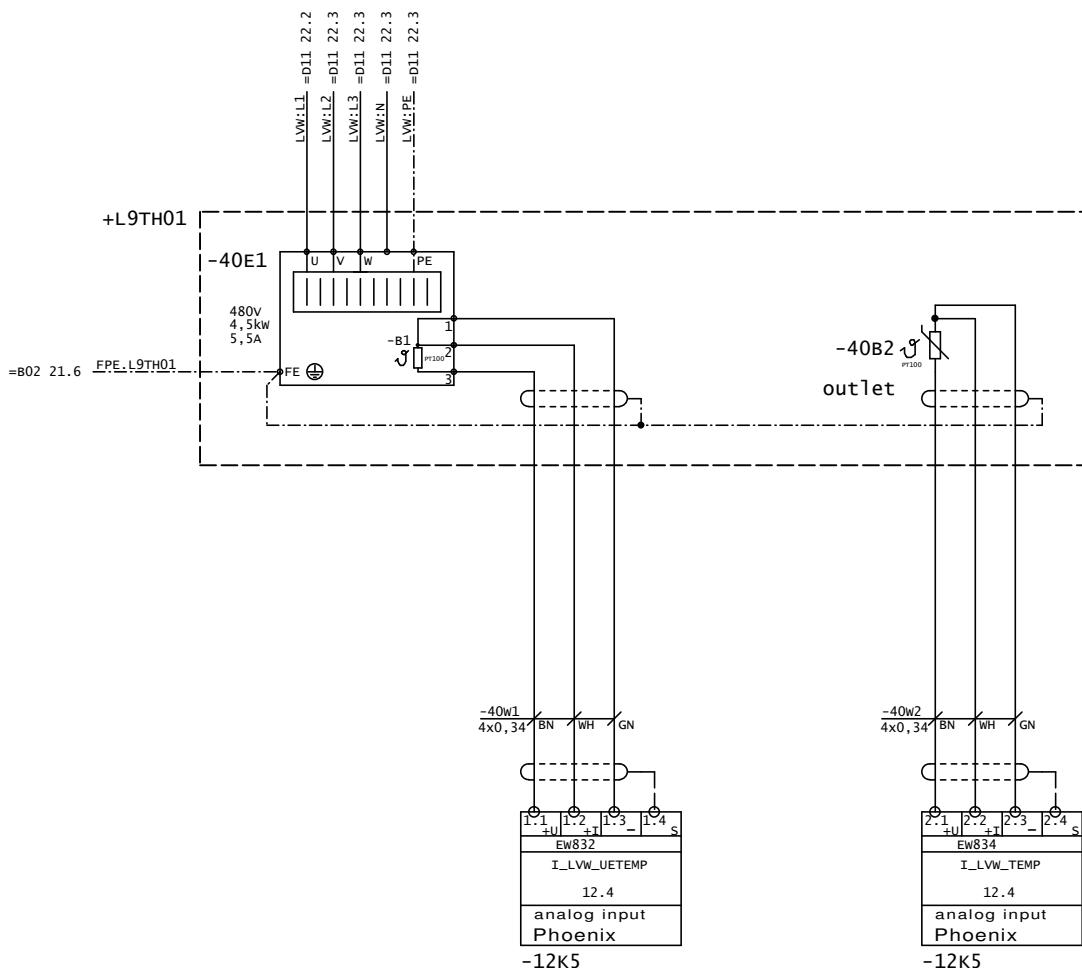
				date	12/05	A1500V-7 iznO_AZ0	 LEYBOLD OPTICS	vacuum gauges	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 38 of 41		
cond.	alter.	date	name	norm					< 37	39 >	

0	1	2	3	4	5	6	7	8	9
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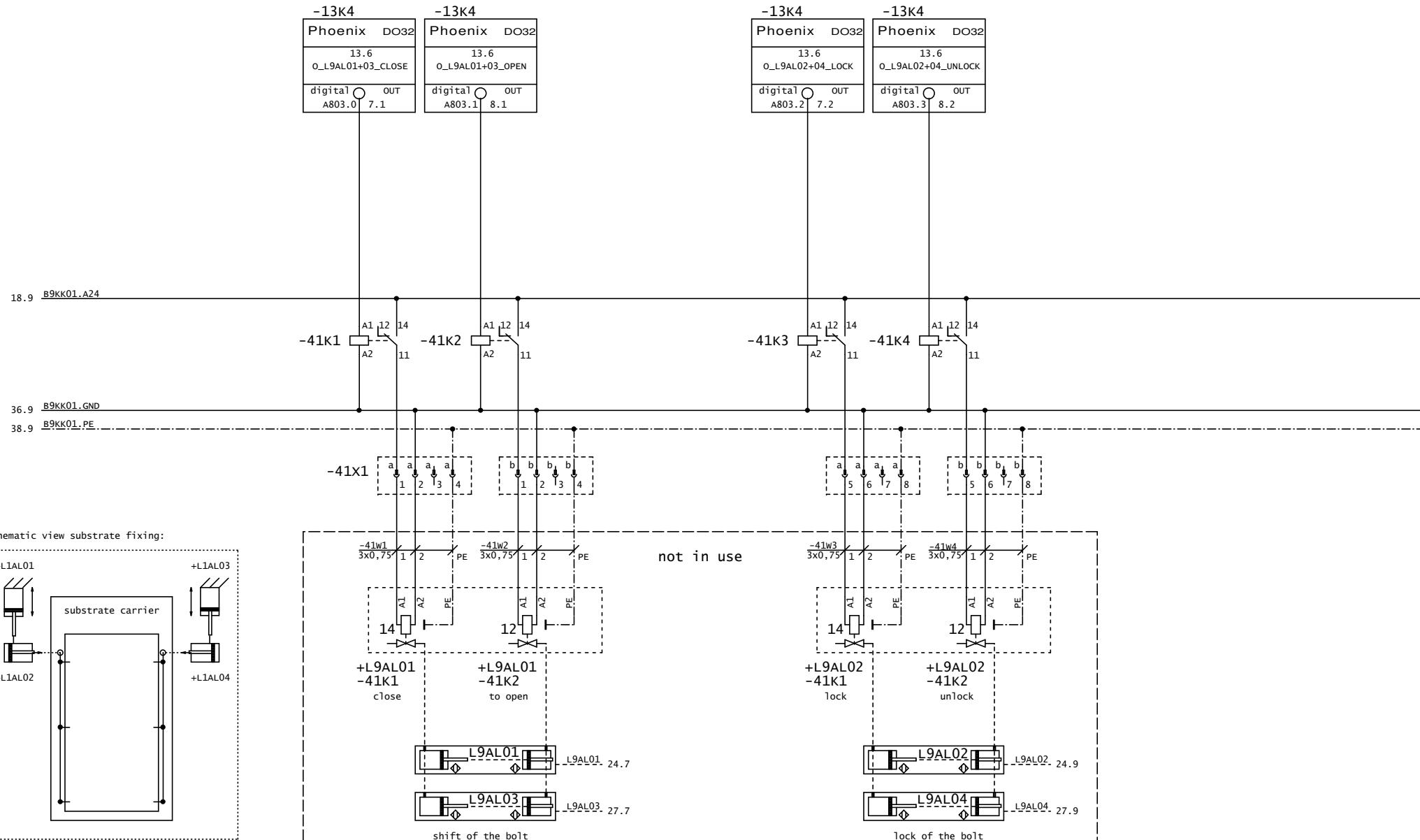
				date	12/05	A1500V-7 iznO_AZO	 <b>LEYBOLD OPTICS</b>	mass spectrometer	388-810000	P/005388	=M39
				devel.	Henker				+B9KK01		
				check					sheet 39 of 41		
cond.	alter.	date	name	norm					< 38	40 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	 <b>LEYBOLD OPTICS</b>	air preheater	388-810000	P/005388	M39
				devel.	Henker				+B9KK01		
				check					sheet 40 of 41		
cond.	alter.	date	name	norm					< 39	41 >	

0	1	2	3	4	5	6	7	8	9
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				date	12/05	A1500V-7 iznO_AZ0	LEYBOLD OPTICS	glass fixing	388-810000	P/005388	=M39
				devel.	Henker						+B9KK01
				check							sheet 41 of 41
cond.	alter.	date	name	norm					circuit diagram		< 40 >

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
1	40 .3	=D21+CCMC	-W	=D21+CCMC-X24	=D21+CCMC-40E1	cable JZ-500 3x1,5	HELU-10091	3	
2	30 .6	=M30+B1KK01	-W			.SACC-M12FS-400-0,75 Buchse, gerade, Ks-rändel	PC-1641756 female jack with LiYCY4x0,34	1	
3	13 .2	=D11+CCMD01	-W0, 34	=D11+CCMD01-X31	=D11+CCMD01-55K2	.cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	6	
4	10 .2	=E21+CCOS	-W1, 5mm	=E21+CCOS-X2	=E21+CCOS-10F1	single wire-H07V-K 1,5mm <sup>2</sup> black	HELU-29129	2	
5	11 .5	=D21+CCMC	-W2, 5mm	=D21+CCMC-X22	=D21+CCMC-11F4	single wire-H07V-K 2,5mm <sup>2</sup> black	HELU-29145	6	
6	10 .0	=E21+CCOS	-W2, 5mm	=E21+CCOS-X02	=E21+CCOS-10F1	single wire-H07V-K 2,5mm <sup>2</sup> black	HELU-29145	2	
7	10 .3	=E21+CCOS	-W4mm	=E21+CCOS-10A1	=E21+CCOS-XEP	single wire-H07V-K 4mm <sup>2</sup> gn/ye	HELU-29162	1	
8	10 .0	=D21+CCMC	-W6mm	=D21+CCMC-X0	=D21+CCMC-11F1	single wire-H07V-K 6mm <sup>2</sup> black	HELU-29177	4	
9	10 .1	=E22+CCORM	-W10mm	=E22+CCORM-XPE	=E22+CCORM-XEP	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	2	
10	10 .1	=D21+CCMC	-W10mm	=D21+CCMC-XPE	=D21+CCMC-XEP	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
11	10 .1	=E21+CCOS	-W10mm	=E21+CCOS-XPE	=E21+CCOS-XEP	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
12	20 .4	=B02+ES	-W25mm <sup>2</sup>		=B02+p1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	6	
13	10 .5	=M39+B9KK01	-10W1	=M39+B9KK01-10X1	=M39+B9KK01-10M1	cable JZ-500 2x0,75	HELU-10030	2	
14	10 .4	=E21+CCOS	-10W1	=E21+CCOS-10C1	=E21+CCOS-10A1	cable JZ-500 3x1,5	HELU-10091	3	
15	10 .3	=E22+CCORM	-10W1	=E22+CCORM-10B1	=E22+CCORM-10P1	Verbindungskabel, 3m	102086396	1	
16	10 .1	=E11+CCPS01	-10W1	=E11+CCPS01-10xe1	=E11+p1GEN11-10G1	cable grade cable RJ 45 / 2m	HELU-80349	7	
17	10 .2	=D11+CCMD01	-10W1	=D21+CCMC-X0	=D11+CCMD01-XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
18	10 .6	=M31+P1KK01	-10W1	=M31+P1KK01-10X1	=M31+P1KK01-10M1	cable JZ-500 2x0,75	HELU-10030	2	
19	10 .6	=M32+P2KK01	-10W1	=M32+P2KK01-10X1	=M32+P2KK01-10M1	cable JZ-500 2x0,75	HELU-10030	2	
20	10 .4	=D12+CCMD02	-10W1	=E11+CCPS01-XPE	=D12+CCMD02-XPE	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	1	
21	10 .2	=D11+CCMD01	-10W2	=E01+CCSC-X0	=D11+CCMD01-XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
22	10 .4	=D12+CCMD02	-10W2	=E11+CCPS02-XPE	=D12+CCMD02-XPE	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	1	
23	10 .5	=E21+CCOS	-10W2	=E21+CCOS-10T1	=E21+CCOS-10A1	cable JZ-500 3x1,5	HELU-10091	3	
24	10 .4	=E22+CCORM	-10W2	=E22+CCORM-11K2	=E22+CCORM-10B3	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	3	
25	10 .5	=E22+CCORM	-10W3	=E22+CCORM-11K2	=E22+CCORM-10B2	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	3	
26	10 .4	=D12+CCMD02	-10W3	=E11+CCPS03-XPE	=D12+CCMD02-XPE	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	1	
27	10 .2	=D11+CCMD01	-10W3	=D11+CCMD01-XPE	=D21+wab-41M1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
28	10 .5	=M30+B1KK01	-10W3	=M30+B1KK01-10X1	=M30+B1KK01-10M1	cable JZ-500 2x0,75	HELU-10030	2	
29	10 .7	=E21+CCOS	-10W3	=E21+CCOS-Xe1	=E21+CCOS-10A1	cable grade cable RJ 45 / 1m	HELU-80361	1	
30	10 .6	=E22+CCORM	-10W4	=E22+CCORM-11K2	=E22+CCORM-10S1	cable JZ-500 2x0,75	HELU-10030	2	
31	11 .3	=D12+CCMD02	-11W1	=D12+CCMD02-X11	=E11+p1GEN11-10G1	cable JZ-500 4x35	HELU-10161	4	
32	11 .5	=D21+CCMC	-11W1	=E21+CCOS-X02	=D21+CCMC-X22	cable JZ-500 3x2,5	HELU-10121	3	
33	11 .0	=E01+CCSC	-11W1	=E01+CCSC-X31	=M30+t1-21WE1	cable JZ-500 7x0,5	HELU-10009	5	
34	11 .8	=D11+CCMD01	-11W1	=D11+CCMD01-X11	=D21+wab-41M1	cable JZ-500 4x10	HELU-10152	4	
35	11 .1	=C01+CCMS	-11W1	=D11+CCMD01-10WSV1	=C01+CCMS-11Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
36	11 .6	=D21+CCMC	-11W2	=E22+CCORM-X02	=D21+CCMC-X22	cable JZ-500 3x2,5	HELU-10121	3	
37	11 .1	=C01+CCMS	-11W2	=D11+CCMD01-10WSV1	=C01+CCMS-11Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
38	11 .6	=E01+CCSC	-11W2	=E01+CCSC-X31	=M30+b2sc02-25B2	cable TRONIC (LiYY) 4x0,34	HELU-18059	4	
39	11 .8	=E01+CCSC	-11W3	=E01+CCSC-X31	=M30+b2sc03-25B2	cable TRONIC (LiYY) 4x0,34	HELU-18059	4	
40	11 .1	=C01+CCMS	-11W3	=D11+CCMD01-10WSV1	=C01+CCMS-11Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
41	11 .1	=C01+CCMS	-11W4	=D11+CCMD01-XN	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1	
42	11 .2	=C01+CCMS	-11W5	=D11+CCMD01-XN	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1	
43	11 .2	=C01+CCMS	-11W6	=D11+CCMD01-XPE	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1	
44	12 .1	=M32+P2KK01	-12W1	=M32+P2KK01-12K1	=M32+P2TH41-12X1	.thermocouple line	thermocouple device cable	2	
45	12 .6	=E01+CCSC	-12W1	=E01+CCSC-X31	=M39+t9-25WE1	cable JZ-500 7x0,5	HELU-10009	5	
46	12 .1	=E21+CCOS	-12W1	=E21+CCPC-12C1	=E21+CCPC-12K1	USB cable	USB cable	1	
47	12 .1	=M31+P1KK01	-12W1	=M31+P1KK01-12K1	=M31+p1th13-12X1	.thermocouple line	thermocouple device cable	2	
48	12 .0	=C01+CCMS	-12W1	=D12+CCMD02-10WSV1	=C01+CCMS-12Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
49	12 .3	=D12+CCMD02	-12W1	=D12+CCMD02-X11	=E11+p2GEN11-13G1	cable JZ-500 4x35	HELU-10161	4	
50	12 .1	=C01+CCMS	-12W2	=D12+CCMD02-15WSV2	=C01+CCMS-12Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
51	12 .1	=M31+P1KK01	-12W2	=M31+p1th16-12X1	=M31+P1KK01-12K1	.thermocouple line	thermocouple device cable	2	
52	12 .1	=M32+P2KK01	-12W2	=M32+P2KK01-12K1	=M32+P2TH42-12X1	.thermocouple line	thermocouple device cable	2	
53	12 .6	=D12+CCMD02	-12W2	=D12+CCMD02-X11	=E11+p2GEN12-13G1	cable JZ-500 4x35	HELU-10161	4	

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## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
54	12..1	=E21+CCOS	-12w2	=E21+CCPC-12S1	=E21+CCPC-12K1	USB cable extension 3m AM/AF	102142640	1	
55	12..2	=M31+P1KK01	-12w3	=M31+P1KK01-12K2	=M31+P1TH22-12X1	.thermocouple line	thermocouple device cable	2	
56	12..2	=M32+P2KK01	-12w3	=M32+P2KK01-12K2	=M32+P2TH43-12X1	.thermocouple line	thermocouple device cable	2	
57	12..1	=C01+CCMS	-12w3	=D12+CCMD02-10WSV1	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
58	12..2	=E21+CCOS	-12w3	=E21+CCOS-X2	NKKV200SW cold device extension 1,8m		102074282	1	
59	12..3	=M32+P2KK01	-12w4	=M32+P2TH44-12X1	=M32+P2KK01-12K2	.thermocouple line	thermocouple device cable	2	
60	12..3	=M31+P1KK01	-12w4	=M31+P1TH25-12X1	=M31+P1KK01-12K2	.thermocouple line	thermocouple device cable	2	
61	12..1	=C01+CCMS	-12w4	=D12+CCMD02-15WSV2	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
62	12..2	=E21+CCOS	-12w4	=E21+CCPC-12C1	=E21+CCPC-12K1	power cable, CEE 22, 1.5m, black	RS-116-3095	1	
63	12..1	=C01+CCMS	-12w5	=D12+CCMD02-10WSV1	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
64	12..3	=M31+P1KK01	-12w5	=M31+P1KK01-12K3	=M31+P1TH41-12X1	.thermocouple line	thermocouple device cable	2	
65	12..3	=M32+P2KK01	-12w5	=M32+P2TH45-12X1	.thermocouple line		thermocouple device cable	2	
66	12..2	=E21+CCOS	-12w5	=E21+CCPC-12C1	=E21+CCPC-12P1	power cable, CEE 22, 1.5m, black	RS-116-3095	1	
67	12..4	=M32+P2KK01	-12w6	=M32+P2TH46-12X1	=M32+P2KK01-12K3	.thermocouple line	thermocouple device cable	2	
68	12..1	=C01+CCMS	-12w6	=D12+CCMD02-15WSV2	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
69	12..4	=M31+P1KK01	-12w6	=M31+P1TH42-12X1	=M31+P1KK01-12K3	.thermocouple line	thermocouple device cable	2	
70	12..2	=E21+CCOS	-12w6	=E21+CCPC-12S2	=E21+CCPC-12K1	USB cable extension 3m AM/AF	102142640	1	
71	12..2	=C01+CCMS	-12w7	=D12+CCMD02-XPE	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1	
72	12..3	=E21+CCOS	-12w7	=E21+CCPC-12P1	=E21+CCPC-12K1	cable monitor VGA 5m	RS-331-5298	1	
73	12..4	=M32+P2KK01	-12w7	=M32+P2KK01-12K4	=M32+P2TH47-12X1	.thermocouple line	thermocouple device cable	2	
74	12..4	=M31+P1KK01	-12w7	=M31+P1KK01-12K4	=M31+P1TH43-12X1	.thermocouple line	thermocouple device cable	2	
75	12..5	=M31+P1KK01	-12w8	=M31+P1TH44-12X1	=M31+P1KK01-12K4	.thermocouple line	thermocouple device cable	2	
76	12..2	=C01+CCMS	-12w8	=D12+CCMD02-XPE	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1	
77	12..3	=E21+CCOS	-12w8	=E21+CCOS-Xe1	=E21+CCPC-12K1	cable grade cable RJ 45/ 1m	HELU-80361	1	
78	12..5	=M32+P2KK01	-12w8	=M32+P2TH48-12X1	=M32+P2KK01-12K4	.thermocouple line	thermocouple device cable	2	
79	12..3	=E21+CCOS	-12w9	=E21+CCOS-Xe1	=E21+CCPC-12K1	cable grade cable RJ 45/ 1m	HELU-80361	1	
80	12..5	=M31+P1KK01	-12w9	=M31+P1KK01-12K5	=M31+P1TH45-12X1	.thermocouple line	thermocouple device cable	2	
81	12..6	=M31+P1KK01	-12w10	=M31+P1TH46-12X1	=M31+P1KK01-12K5	.thermocouple line	thermocouple device cable	2	
82	12..6	=M31+P1KK01	-12w11	=M31+P1KK01-12K6	=M31+P1TH47-12X1	.thermocouple line	thermocouple device cable	2	
83	12..7	=M31+P1KK01	-12w12	=M31+P1TH48-12X1	=M31+P1KK01-12K6	.thermocouple line	thermocouple device cable	2	
84	13..3	=D21+CCMC	-13w1	=M30+B1KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
85	13..2	=D11+CCMD01	-13w1	=D11+CCMD01-X31	=D11+L1PV01-13M1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
86	13..1	=E11+CCPS02	-13w1	=E11+CCPS02-13xe1	=E11+P2GEN11-13G1	cable grade cable RJ 45/ 2m	HELU-80349	7	
87	13..1	=E01+CCSC	-13w1	=E01+CCSC-13T1	=E01+T1AK01-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4	
88	13..1	=M32+P2KK01	-13w1	=M32+P2KK01-13K1	=M32+P2TH49-13X1	.thermocouple line	thermocouple device cable	2	
89	13..1	=M31+P1KK01	-13w1	=M31+P1KK01-13K1	=M31+P1TH49-13X1	.thermocouple line	thermocouple device cable	2	
90	13..1	=M30+B1KK01	-13w1	=M30+B1KK01-13K1	=M30+L1TH01-13X1	.thermocouple line	thermocouple device cable	2	
91	13..1	=C01+CCMS	-13w1	=D13+CCMD03-10WSV1	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
92	13..3	=D12+CCMD02	-13w1	=E11+CCPS02-X0	=D12+CCMD02-X11	cable JZ-500 4x35	HELU-10161	4	
93	13..2	=E01+CCSC	-13w2	=E01+CCSC-13T1	=E01+T1AK01-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1	
94	13..1	=M30+B1KK01	-13w2	=M30+B1KK01-13K1	=M30+L1TH02-13X1	.thermocouple line	thermocouple device cable	2	
95	13..1	=M31+P1KK01	-13w2	=M31+P1TH50-13X1	=M31+P1KK01-13K1	.thermocouple line	thermocouple device cable	2	
96	13..4	=D11+CCMD01	-13w2	=D11+CCMD01-XM1	=D11+L1PV01-13M1	cable JZ-500 4x6	HELU-10148	4	
97	13..7	=E11+CCPS02	-13w2	=E11+P2GEN12-13G1	=E11+P2MAG12-13G1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	102122064	5	
98	13..4	=D21+CCMC	-13w2	=M31+P1KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
99	13..6	=D12+CCMD02	-13w2	=E11+CCPS03-X0	=D12+CCMD02-X11	cable JZ-500 4x35	HELU-10161	4	
100	13..1	=C01+CCMS	-13w2	=D13+CCMD03-10WSV1	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
101	13..1	=M32+P2KK01	-13w2	=M32+P2TH50-13X1	=M32+P2KK01-13K1	.thermocouple line	thermocouple device cable	2	
102	13..2	=M30+B1KK01	-13w3	=M30+B1KK01-13K2	=M30+L1TH03-13X1	.thermocouple line	thermocouple device cable	2	
103	13..1	=C01+CCMS	-13w3	=D13+CCMD03-10WSV1	=C01+CCMS-1Q1	cable NYY-0 Power cable 1x185 RM	HELU-32100	1	
104	13..6	=D21+CCMC	-13w3	=M32+P2KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
105	13..2	=E01+CCSC	-13w3	=E01+CCSC-13T1	=E01+T1AS01-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4	
106	13..2	=M32+P2KK01	-13w3	=M32+P2KK01-13K2	=M32+P2TH51-13X1	.thermocouple line	thermocouple device cable	2	

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## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description	
107	13.7	=D11+CCMD01	-13W3	=D11+CCMD01-X31	=D11+L1PV01-13M1	cable JZ-500 3x0,75	HELU-10031	3		
108	13.2	=M31+P1KK01	-13W3	=M31+P1KK01-13K2	=M31+P1TH51-13X1	.thermocouple line	thermocouple device cable	2		
109	13.3	=M32+P2KK01	-13W4	=M32+P2TH52-13X1	=M32+P2KK01-13K2	.thermocouple line	thermocouple device cable	2		
110	13.3	=M30+B1KK01	-13W4	=M30+L1TH04-13X1	=M30+B1KK01-13K2	.thermocouple line	thermocouple device cable	2		
111	13.2	=E01+CCSC	-13W4	=E01+CCSC-13T1	=E01+T1AS01-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1		
112	13.7	=D21+CCMC	-13W4	=M39+B9KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5		
113	13.3	=M31+P1KK01	-13W4	=M31+P1TH52-13X1	=M31+P1KK01-13K2	.thermocouple line	thermocouple device cable	2		
114	13.1	=C01+CCMS	-13W4	=D13+CCMD03-XN	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1		
115	13.3	=M32+P2KK01	-13W5	=M32+P2KK01-13K3	=M32+P2TH53-13X1	.thermocouple line	thermocouple device cable	2		
116	13.3	=M31+P1KK01	-13W5	=M31+P1KK01-13K3	=M31+P1TH53-13X1	.thermocouple line	thermocouple device cable	2		
117	13.4	=E01+CCSC	-13W5	=E01+CCSC-13T2	=E01+L1AK01-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4		
118	13.2	=C01+CCMS	-13W5	=D13+CCMD03-XN	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1		
119	13.3	=M30+B1KK01	-13W5	=M30+B1KK01-13K3	=M30+L1TH41-13X1	.thermocouple line	thermocouple device cable	2		
120	13.2	=C01+CCMS	-13W6	=D13+CCMD03-XPE	=C01+CCMS-X1	cable, H07 RN-F 1 x 95	HELU-37011	1		
121	13.4	=M31+P1KK01	-13W6	=M31+P1TH54-13X1	=M31+P1KK01-13K3	.thermocouple line	thermocouple device cable	2		
122	13.4	=M32+P2KK01	-13W6	=M32+P2TH54-13X1	=M32+P2KK01-13K3	.thermocouple line	thermocouple device cable	2		
123	13.4	=M30+B1KK01	-13W6	=M30+B1KK01-13K3	.thermocouple line	thermocouple device cable	2			
124	13.4	=E01+CCSC	-13W6	=E01+CCSC-13T2	=E01+L1AK01-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1		
125	13.4	=M31+P1KK01	-13W7	=M31+P1KK01-13K4	=M31+P1TH55-13X1	.thermocouple line	thermocouple device cable	2		
126	13.5	=E01+CCSC	-13W7	=E01+CCSC-13T2	=E01+L1AK11-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4		
127	13.4	=M32+P2KK01	-13W7	=M32+P2KK01-13K4	=M32+P2TH55-13X1	.thermocouple line	thermocouple device cable	2		
128	13.4	=M30+B1KK01	-13W7	=M30+B1KK01-13K4	=M30+L1TH43-13X1	.thermocouple line	thermocouple device cable	2		
129	13.5	=M30+B1KK01	-13W8	=M30+L1TH44-13X1	=M30+B1KK01-13K4	.thermocouple line	thermocouple device cable	2		
130	13.5	=E01+CCSC	-13W8	=E01+CCSC-13T2	=E01+L1AK11-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1		
131	13.6	=E01+CCSC	-13W9	=E01+CCSC-13T3	=E01+B8AK01-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4		
132	13.5	=M30+B1KK01	-13W9	=M30+B1KK01-13K5	=M30+L1TH45-13X1	.thermocouple line	thermocouple device cable	2		
133	13.6	=M30+B1KK01	-13W10	=M30+L1TH46-13X1	=M30+B1KK01-13K5	.thermocouple line	thermocouple device cable	2		
134	13.7	=E01+CCSC	-13W10	=E01+CCSC-13T3	=E01+B8AK01-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1		
135	13.7	=E01+CCSC	-13W11	=E01+CCSC-13T3	=E01+B8AK11-13M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4		
136	13.7	=E01+CCSC	-13W12	=E01+CCSC-13T3	=E01+B8AK11-13M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1		
137	14.1	=M30+B1KK01	-14W1	=M30+B1KK01-14K1	=M30+B1TH01-14X1	.thermocouple line	thermocouple device cable	2		
138	14.1	=E01+CCSC	-14W1	=E01+CCSC-14T1	=E01+B1AK01-14M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4		
139	14.2	=E11+CCPS02	-14W1	=E11+CCPS02-X1	=E11+CCPS02-X1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	1021122064	6		
140	14.7	=D21+CCMC	-14W1	=M30+B1KK01-39X1	=D21+CCMC-X31	cable JZ-500 3x1,5	HELU-10091	3		
141	14.2	=D11+CCMD01	-14W1	=D11+CCMD01-X31	=D11+V1PV01-14M1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	2		
142	14.1	=D13+CCMD03	-14W1	=D13+L1KTH01-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x2,5	HELU-10121	3		
143	14.3	=D12+CCMD02	-14W1	=D12+CCMD02-X11	=E11+P2GEN31-16G1	cable JZ-500 4x35	HELU-10161	4		
144	14.2	=E01+CCSC	-14W2	=E01+CCSC-14T1	=E01+B1AK01-14M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1		
145	14.4	=D11+CCMD01	-14W2	=D11+CCMD01-XM1	=D11+V1PV01-14M1	cable JZ-500 4x6	HELU-10148	4		
146	14.6	=D12+CCMD02	-14W2	=D12+CCMD02-X11	=E11+P2GEN32-16G1	cable JZ-500 4x35	HELU-10161	4		
147	14.1	=M30+B1KK01	-14W2	=M30+B1TH02-14X1	=M30+B1KK01-14K1	.thermocouple line	thermocouple device cable	2		
148	14.2	=D13+CCMD03	-14W2	=D13+L1KTH01-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x2,5	HELU-10121	3		
149	14.8	=D21+CCMC	-14W2	=M39+B9KK01-39X1	=D21+CCMC-X31	cable JZ-500 3x1,5	HELU-10091	3		
150	14.2	=M30+B1KK01	-14W3	=M30+B1KK01-14K2	=M30+B1TH03-14X1	.thermocouple line	thermocouple device cable	2		
151	14.2	=E01+CCSC	-14W3	=E01+CCSC-14T1	=E01+B2AK01-14M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4		
152	14.5	=D13+CCMD03	-14W3	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3		
153	14.7	=D11+CCMD01	-14W3	=D11+CCMD01-X31	=D11+V1PV01-14M1	cable JZ-500 3x0,75	HELU-10031	3		
154	14.3	=M30+B1KK01	-14W4	=M30+B1TH04-14X1	=M30+B1KK01-14K2	.thermocouple line	thermocouple device cable	2		
155	14.6	=D13+CCMD03	-14W4	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3		
156	14.2	=E01+CCSC	-14W4	=E01+CCSC-14T1	=E01+B2AK01-14M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1		
157	14.4	=E01+CCSC	-14W5	=E01+CCSC-14T2	=E01+B1AK01-14M1	6FX5002-5CS01-1BA0 LEISTUNGSLEITUNG 10M	102113738	4		
158	14.3	=M30+B1KK01	-14W5	=M30+B1TH41-14X1	.thermocouple line	thermocouple device cable	2			
159	14.4	=E01+CCSC	-14W6	=E01+CCSC-14T2	=E01+B1AK01-14M1	6FX5002-2DC10-1BA0 SIGNALLEITUNG 10M	102113742	1		

A1500V-7 iZnO-AZO


  
LEYBOLD OPTICS

list of cables

388-810000

P/005388

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cond.	alter.	date	name	norm

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
160	14 .4	=M30+B1KK01	-14w6	=M30+B1TH42-14X1	=M30+B1KK01-14K3	.thermocouple line	thermocouple device cable	2	
161	14 .5	=E01+CCSC	-14w7	=E01+CCSC-14T2	=E01+P2AK01-14M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4	
162	14 .4	=M30+B1KK01	-14w7	=M30+B1KK01-14K4	=M30+B1TH43-14X1	.thermocouple line	thermocouple device cable	2	
163	14 .5	=M30+B1KK01	-14w8	=M30+B1TH44-14X1	=M30+B1KK01-14K4	.thermocouple line	thermocouple device cable	2	
164	14 .5	=E01+CCSC	-14w8	=E01+CCSC-14T2	=E01+P2AK01-14M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1	
165	14 .5	=M30+B1KK01	-14w9	=M30+B1KK01-14K5	=M30+B1TH45-14X1	.thermocouple line	thermocouple device cable	2	
166	14 .6	=M30+B1KK01	-14w10	=M30+B1TH46-14X1	=M30+B1KK01-14K5	.thermocouple line	thermocouple device cable	2	
167	15 .2	=D21+CCMC	-15w1	=M30+B1KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
168	15 .7	=E11+CCPS03	-15w1	=E11+CCPS03-X1	=E11+CCPS03-X1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	1021122064	6	
169	15 .1	=M30+B1KK01	-15w1	=M30+B1KK01-15K1	=M30+B2TH01-15X1	.thermocouple line	thermocouple device cable	2	
170	15 .1	=D13+CCMD03	-15w1	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3	
171	15 .2	=D11+CCMD01	-15w1	=D11+CCMD01-X31	=D11+L9PV01-15M1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
172	15 .1	=E01+CCSC	-15w1	=E01+CCSC-15T1	=E01+B1AK11-15M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4	
173	15 .1	=M30+B1KK01	-15w2	=M30+B2TH02-15X1	=M30+B1KK01-15K1	.thermocouple line	thermocouple device cable	2	
174	15 .3	=D21+CCMC	-15w2	=M31+P1KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
175	15 .4	=D11+CCMD01	-15w2	=D11+CCMD01-XM1	=D11+L9PV01-15M1	cable JZ-500 4x6	HELU-10148	4	
176	15 .2	=E01+CCSC	-15w2	=E01+CCSC-15T1	=E01+B1AK11-15M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1	
177	15 .2	=D13+CCMD03	-15w2	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3	
178	15 .2	=M30+B1KK01	-15w3	=M30+B1KK01-15K2	=M30+B2TH03-15X1	.thermocouple line	thermocouple device cable	2	
179	15 .7	=D11+CCMD01	-15w3	=D11+CCMD01-X31	=D11+L9PV01-15M1	cable JZ-500 3x0,75	HELU-10031	3	
180	15 .4	=D13+CCMD03	-15w3	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3	
181	15 .2	=E01+CCSC	-15w3	=E01+CCSC-15T1	=E01+B2AK11-15M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4	
182	15 .4	=D21+CCMC	-15w3	=M32+P2KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
183	15 .3	=M30+B1KK01	-15w4	=M30+B2TH04-15X1	=M30+B1KK01-15K2	.thermocouple line	thermocouple device cable	2	
184	15 .2	=E01+CCSC	-15w4	=E01+CCSC-15T1	=E01+B2AK11-15M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1	
185	15 .5	=D21+CCMC	-15w4	=M39+B9KK01-XP	=D21+CCMC-13X1	cable JZ-500 5x2,5	HELU-10125	5	
186	15 .5	=D13+CCMD03	-15w4	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	1	
187	15 .3	=M30+B1KK01	-15w5	=M30+B1KK01-15K3	=M30+B2TH41-15X1	.thermocouple line	thermocouple device cable	2	
188	15 .4	=E01+CCSC	-15w5	=E01+CCSC-15T2	=E01+P1AK11-15M1	6FX5002-5CS01-1BA0 LEISTUNGSLEITUNG 10M	102113738	4	
189	15 .5	=D13+CCMD03	-15w5	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	9	
190	15 .4	=E01+CCSC	-15w6	=E01+CCSC-15T2	=E01+P1AK11-15M1	6FX5002-2DC10-1BA0 SIGNALLEITUNG 10M	102113742	1	
191	15 .8	=D13+CCMD03	-15w6	=D13+L1KTH02-X1	=D13+CCMD03-XL1TH	cable JZ-500 3x1,5	HELU-10091	3	
192	15 .4	=M30+B1KK01	-15w6	=M30+B2TH42-15X1	=M30+B1KK01-15K3	.thermocouple line	thermocouple device cable	2	
193	15 .4	=M30+B1KK01	-15w7	=M30+B1KK01-15K4	=M30+B2TH43-15X1	.thermocouple line	thermocouple device cable	2	
194	15 .5	=E01+CCSC	-15w7	=E01+CCSC-15T2	=E01+P2AK11-15M1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	4	
195	15 .5	=M30+B1KK01	-15w8	=M30+B2TH44-15B1	=M30+B1KK01-15K4	.thermocouple line	thermocouple device cable	2	
196	15 .5	=E01+CCSC	-15w8	=E01+CCSC-15T2	=E01+P2AK11-15M1	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	1	
197	15 .5	=M30+B1KK01	-15w9	=M30+B1KK01-15K5	=M30+B2TH45-15X1	.thermocouple line	thermocouple device cable	2	
198	15 .6	=M30+B1KK01	-15w10	=M30+B2TH46-15X1	=M30+B1KK01-15K5	.thermocouple line	thermocouple device cable	2	
199	16 .2	=D11+CCMD01	-16w1	=D11+CCMD01-X31	=D11+L1PRO1-16M1	cable JZ-500 3x0,75	HELU-10031	3	
200	16 .2	=E11+CCPS03	-16w1	=E11+P2GEN31-16G1	=E11+P2MAG31-16G1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	1021122064	5	
201	16 .3	=D21+CCMC	-16w1	=M30+B1KK01-36X1	=D21+CCMC-16X1	cable JZ-500 5x1,5	HELU-10095	5	
202	16 .1	=E01+CCSC	-16w1	=E01+CCSC-16T1	=E01+B9AK01-16M1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	4	
203	16 .4	=D11+CCMD01	-16w2	=D11+CCMD01-XM1	=D11+L1PRO1-16M1	cable JZ-500 4x2,5	HELU-10123	4	
204	16 .3	=D21+CCMC	-16w2	=M30+B1KK01-36X1	=D21+L1-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
205	16 .2	=E01+CCSC	-16w2	=E01+CCSC-16T1	=E01+B9AK01-16M1	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	1	
206	16 .7	=E11+CCPS03	-16w2	=E11+P2GEN32-16G1	=E11+P2MAG32-16G1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	1021122064	5	
207	16 .2	=E01+CCSC	-16w3	=E01+CCSC-16T1	=E01+B9AK11-16M1	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	4	
208	16 .4	=D21+CCMC	-16w3	=M30+B1KK01-36X1	=D21+B1-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
209	16 .6	=D11+CCMD01	-16w3	=D11+CCMD01-X22	=D11+L1PRO1-16M1	cable JZ-500 3x0,75	HELU-10031	3	
210	16 .5	=D21+CCMC	-16w4	=M30+B1KK01-36X1	=D21+B2-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
211	16 .2	=E01+CCSC	-16w4	=E01+CCSC-16T1	=E01+B9AK11-16M1	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	1	
212	16 .4	=E01+CCSC	-16w5	=E01+CCSC-16T2	=E01+L9AK01-16M1	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	4	

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
213	16.6	=D21+CCMC	-16W5	=M39+B9KK01-36X1	=D21+CCMC-16X1	cable JZ-500 5x1,5	HELU-10095	5	
214	16.4	=E01+CCSC	-16W6	=E01+CCSC-16T2	=E01+L9AK01-16M1	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	1	
215	16.6	=D21+CCMC	-16W6	=M39+B9KK01-36X1	=D21+B8-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
216	16.7	=D21+CCMC	-16W7	=M39+B9KK01-36X1	=D21+B9-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
217	16.5	=E01+CCSC	-16W7	=E01+CCSC-16T2	=E01+L9AK11-16M1	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	4	
218	16.8	=D21+CCMC	-16W8	=M39+B9KK01-36X1	=D21+L9-16XV1	cable JZ-500 3x1,5	HELU-10091	3	
219	16.5	=E01+CCSC	-16W8	=E01+CCSC-16T2	=E01+L9AK11-16M1	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	1	
220	16.6	=E01+CCSC	-16W9	=E01+CCSC-16T3	=E01+T9AS01-16M1	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	4	
221	16.7	=E01+CCSC	-16W10	=E01+CCSC-16T3	=E01+T9AS01-16M1	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	1	
222	16.7	=E01+CCSC	-16W11	=E01+CCSC-16T3	=E01+T9AK01-16M1	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	4	
223	16.7	=E01+CCSC	-16W12	=E01+CCSC-16T3	=E01+T9AK01-16M1	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	1	
224	17.5	=M39+B9KK01	-17W1	=M39+B9KK01-X33	=M39+HDL2-S1	cable JZ-500 5x0,5	HELU-10006	5	
225	17.1	=D13+CCMD03	-17W1	=D13+B1KTH01-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x2,5	HELU-10121	3	
226	17.5	=M30+B1KK01	-17W1	=M30+B1KK01-X33	=M30+HDL01-S1	cable JZ-500 5x0,5	HELU-10006	5	
227	17.2	=D11+CCMD01	-17W1	=D11+CCMD01-X31	=D11+V1PR01-17M1	cable JZ-500 3x0,75	HELU-10031	3	
228	17.8	=M39+B9KK01	-17W2	=M39+B9KK01-X33	=M39+T9AK01-17WX1	cable JZ-500 3x0,75	HELU-10031	3	
229	17.4	=D11+CCMD01	-17W2	=D11+CCMD01-XM1	=D11+V1PR01-17M1	cable JZ-500 4x2,5	HELU-10123	4	
230	17.2	=D13+CCMD03	-17W2	=D13+B1KTH01-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x2,5	HELU-10121	3	
231	17.5	=D13+CCMD03	-17W3	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
232	17.6	=D11+CCMD01	-17W3	=D11+CCMD01-X22	=D11+V1PR01-17M1	cable JZ-500 3x0,75	HELU-10031	3	
233	17.6	=D13+CCMD03	-17W4	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
234	17.2	=M39+B9KK01	-17WPE1	=E22+CCORM-XPE	=M39+HDL2-XEP	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
235	18.1	=M31+P1KK01	-18W1	=M31+P1KK01-X31	=M31+V1IO01-18K1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	4	
236	18.1	=D13+CCMD03	-18W1	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
237	18.2	=D11+CCMD01	-18W1	=D11+CCMD01-X31	=D11+L9PR01-18M1	cable JZ-500 3x0,75	HELU-10031	3	
238	18.1	=M32+P2KK01	-18W1	=M32+P2KK01-X31	=M32+P2VIO1-18K1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	4	
239	18.2	=M30+B1KK01	-18W1	=M30+B1KK01-X31	=M30+B1VIO1-18K1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	4	
240	18.1	=E01+CCSC	-18W1	=E01+CCSC-X32	=E01+CCSC-18S1	cable JZ-500 3x0,5	HELU-10002	3	
241	18.1	=M39+B9KK01	-18W1	=M39+B9KK01-X31	=M39+B9VI01-18K1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	4	
242	18.3	=M32+P2KK01	-18W2	=M32+P2KK01-XPE	=M32+P2VIO1-18XPE1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
243	18.4	=D11+CCMD01	-18W2	=D11+CCMD01-XM1	=D11+L9PR01-18M1	cable JZ-500 4x2,5	HELU-10123	4	
244	18.2	=E01+CCSC	-18W2	=E01+CCSC-X32	=E01+CCSC-18E1	cable JZ-500 5x0,5	HELU-10006	5	
245	18.5	=M30+B1KK01	-18W2	=M30+B1KK01-XPE	=M30+B1KK01-18XPE1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
246	18.4	=M39+B9KK01	-18W2	=M39+B9KK01-XPE	=M39+B9KK01-18XPE1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
247	18.2	=D13+CCMD03	-18W2	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
248	18.3	=M31+P1KK01	-18W2	=M31+P1KK01-XPE	=M31+P1KK01-18XPE1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
249	18.4	=D13+CCMD03	-18W3	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
250	18.6	=D11+CCMD01	-18W3	=D11+CCMD01-X22	=D11+L9PR01-18M1	cable JZ-500 3x0,75	HELU-10031	3	
251	18.5	=D13+CCMD03	-18W4	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	1	
252	18.6	=D13+CCMD03	-18W5	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
253	18.8	=D13+CCMD03	-18W6	=D13+B1KTH02-X1	=D13+CCMD03-XB1TH	cable JZ-500 3x1,5	HELU-10091	3	
254	19.2	=D11+CCMD01	-19W1	=D11+CCMD01-XM1	=D11+L1PV02-19M1	cable JZ-500 4x2,5	HELU-10123	4	
255	19.1	=M32+P2KK01	-19W1	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
256	19.3	=M30+B1KK01	-19W1	=M30+B1KK01-X4	=M30+T1SD01-19F1	cable JZ-500 3x0,75	HELU-10031	3	
257	19.2	=M31+P1KK01	-19W1	=M31+P1KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
258	19.3	=M39+B9KK01	-19W1	=M39+B9KK01-X4	=M39+T9SD01-19F1	cable JZ-500 3x0,75	HELU-10031	3	
259	19.5	=D11+CCMD01	-19W2	=D11+CCMD01-XM1	=D11+B1PV01-19M1	cable JZ-500 4x2,5	HELU-10123	4	
260	19.5	=M39+B9KK01	-19W2	=M39+B9KK01-X4	=M39+T9SD02-19F1	cable JZ-500 3x0,75	HELU-10031	3	
261	19.5	=M30+B1KK01	-19W2	=M30+B1KK01-X4	=M30+T1SD02-19F1	cable JZ-500 3x0,75	HELU-10031	3	
262	19.2	=M32+P2KK01	-19W2	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
263	19.8	=D11+CCMD01	-19W3	=D11+CCMD01-XM1	=D11+L9PV02-19M1	cable JZ-500 4x2,5	HELU-10123	4	
264	19.4	=M32+P2KK01	-19W3	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
265	19.5	=M32+P2KK01	-19W4	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	

A1500V-7 iZnO-AZO


  
LEYBOLD OPTICS

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
266	19.7	=M32+P2KK01	-19w5	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
267	19.8	=M32+P2KK01	-19w6	=M32+P2KK01-X32		cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	4	
268	20.2	=B02+ES	-20w1	=B02+B1-20XPE	=B02+L1-20XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
269	20.5	=M39+B9KK01	-20w1	=M39+L1SP01-20S1	=M39+B9KK01-20X2	SACC-M12FS-4Q0-0,75 female jack	PC-1641756 female jack with LiCY4x0,34	4	
270	20.5	=M30+B1KK01	-20w1	=M30+L1SP01-20S1	=M30+B1KK01-20X2	SACC-M12FS-4Q0-0,75 female jack	PC-1641756 female jack with LiCY4x0,34	7	
271	20.2	=D11+l1	-20w1	=D11+B1PC01-20E1	=D11+B1PC01-20M1	.Anschlußleitung (Installation kit) 3 m	102149077	1	
272	20.3	=M32+P2KK01	-20w1	=M32+P2KK01-20X1	=M32+HMI01-20P1	cable JZ-500 5x0,75	HELU-10035	5	
273	20.6	=D11+b2	-20w1	=D11+B1PC02-20E1	=D11+B1PC02-20M1	.Anschlußleitung (Installation kit) 6m	8140003K020	1	
274	20.1	=D13+CCMD03	-20w1	=D13+B2KTH01-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x2,5	HELU-10121	3	
275	20.1	=D11+CCMD01	-20w1	=D11+CCMD01-XM1	=D11+L1-20XS1	cable JZ-500 4x2,5	HELU-10123	4	
276	20.1	=D12+CCMD02	-20w1	=D13+CCMD03-XAS-i	=D12+CCMD02-XAS-i	cable AS1-BUS EPDN yellow 2x1,5	HELU-80824	2	
277	10.1	=C02+KKEK01	-20w1	=C02+P1-20XS1		cable JZ-500 3x2,5 orange	HELU-10747	3	
278	20.5	=M32+P2KK01	-20w2	=M32+P2KK01-20X1	=M32+HMI01-20P2	cable JZ-500 7x0,5	HELU-10009	6	
279	20.3	=D11+CCMD01	-20w2	=D11+CCMD01-X32	=D11+B1PC01-20X1	cable TRONIC (LiYY) 4x0,34	HELU-18059	4	
280	20.6	=M30+B1KK01	-20w2	=M30+B1KK01-17T1	=M30+B1SP01-20S1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756 female jack with LiCY4x0,34	4	
281	20.2	=D13+CCMD03	-20w2	=D13+B2KTH01-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x2,5	HELU-10121	3	
282	20.2	=B02+ES	-20w2	=B02+B2-20XPE		single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
283	20.6	=M39+B9KK01	-20w2	=M39+B9KK01-17T1	=M39+B1SP01-20S1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756 female jack with LiCY4x0,34	4	
284	10.2	=C02+KKEK01	-20w2	=C02+T1-20XS1		cable JZ-500 3x2,5 orange	HELU-10747	2	
285	20.5	=D13+CCMD03	-20w3	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
286	20.8	=M30+B1KK01	-20w3	=M30+B1KK01-17T1	=M30+B2SP01-20S1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756 female jack with LiCY4x0,34	4	
287	10.3	=C02+KKEK01	-20w3	=C02+P2-20XS1		cable JZ-500 3x2,5 orange	HELU-10747	3	
288	20.5	=D11+CCMD01	-20w3	=D11+CCMD01-XM1	=D11+B1-20XS1	cable JZ-500 4x2,5	HELU-10123	4	
289	20.2	=B02+ES	-20w3	=B02+P1-20XPE	=B02+B2-20XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
290	20.8	=M39+B9KK01	-20w3	=M39+B9KK01-17T1	=M39+T9GD01-20B1	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	4	
291	20.3	=M39+B9KK01	-20w4	=M39+B9KK01-20K2	=M39+L9SC15-20B1	SAC-4P-5,0-PUR/M12FR sensor cable, female jack, angulate	PC-1668247+male jack M12 straight	1	
292	20.2	=B02+ES	-20w4	=B02+P2-21XPE	=B02+P1-20XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	2	
293	10.4	=C02+KKEK01	-20w4	=C02+T9-20XS1	=C02+P2-20XS1	cable JZ-500 3x2,5 orange	HELU-10747	2	
294	20.6	=D13+CCMD03	-20w4	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
295	20.7	=D11+CCMD01	-20w4	=D11+CCMD01-X32	=D11+B1PC02-20X1	cable TRONIC (LiYY) 4x0,34	HELU-18059	4	
296	20.3	=M30+B1KK01	-20w4	=M30+B1KK01-20K2	=M30+L1SC15-20B1	SAC-4P-5,0-PUR/M12FR sensor cable, female jack, angulate	PC-1668247+male jack M12 straight	1	
297	20.4	=B02+ES	-20w5	=B02+Geste11 T1-	=B02+L1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
298	10.5	=C02+KKEK01	-20w5	=C02+CCMD02-20XS1		cable JZ-500 3x2,5 orange	HELU-10747	3	
299	20.4	=B02+ES	-20w6	=B02+Geste11 L1-	=B02+L1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
300	20.4	=B02+ES	-20w7	=B02+Kammer L1-	=B02+L1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
301	20.4	=B02+ES	-20w9	=B02+L1-20XPE	=D11+L1PV01-13M1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
302	20.4	=B02+ES	-20w10	=M30+HDL01-17E1	=B02+L1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
303	20.4	=B02+ES	-20w11	=B02+Kabelbahn L1-	=B02+L1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
304	20.4	=B02+ES	-20w12	=D13+L1KTH01-X1	=B02+L1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
305	20.4	=B02+ES	-20w14	=B02+Geste11 B1-	=B02+B1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
306	20.4	=B02+ES	-20w15	=B02+Kammer B1-	=B02+L1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
307	20.4	=B02+ES	-20w16	=E21+CCOS-XPE	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
308	20.4	=B02+ES	-20w18	=D13+L1KTH02-X1	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
309	20.4	=B02+ES	-20w19	=M30+B1KK01-XPE	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
310	20.4	=B02+ES	-20w20	=D13+B1KTH01-X1	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
311	20.4	=B02+ES	-20w21	=D13+B1KTH02-X1	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
312	20.4	=B02+ES	-20w23	=D13+B2KTH02-X1	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
313	20.4	=B02+ES	-20w24	=B02+Kabelbahn B1-	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
314	20.4	=B02+ES	-20w25	=B02+Vakuumrohr L1-	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
315	20.4	=B02+ES	-20w26	=B02+Vakuumrohr L1-	=B02+B1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
316	20.4	=B02+ES	-20w28	=D11+CCMD01-XPE	=B02+B2-20XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
317	20.4	=B02+ES	-20w29	=B02+Geste11 B2-	=B02+B2-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
318	20.4	=B02+ES	-20w30	=B02+Kammer B2-	=B02+B2-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
319	20.4	=B02+ES	-20W31	=B02+Kabelbahn B2-	=B02+B2-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
320	20.4	=B02+ES	-20W33	=D13+B2KTH01-X1	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
321	20.4	=B02+ES	-20W34	=B02+Kammer P1-	=B02+P1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
322	20.4	=B02+ES	-20W35	=B02+Geste1l P1-	=B02+P1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
323	20.4	=B02+ES	-20W36	=B02+P1-20XPE	=D11+V1PV01-14M1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
324	20.4	=B02+ES	-20W37	=M31+P1KK01-XPE	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
325	20.4	=B02+ES	-20W38	=D13+P1KTH01-X1	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
326	20.4	=B02+ES	-20W39	=D13+P1KTH02-X1	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
327	20.4	=B02+ES	-20W40	=D13+P1KTH03-X1	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
328	20.4	=B02+ES	-20W41	=D13+P1KTH04-X1	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
329	20.4	=B02+ES	-20W42	=B02+Kabelbahn P1-	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
330	20.4	=B02+ES	-20W43	=B02+P1AH11-	=B02+P1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
331	20.4	=B02+ES	-20W44	=B02+P1AH21-	=B02+P1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
332	20.4	=B02+ES	-20W45	=B02+P1AH31-	=B02+P1-20XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
333	20.4	=B02+ES	-20W46	=B02+Vakuumrohr P1-	=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
334	20.4	=B02+ES	-20W47		=B02+P1-20XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
335	10.0	=C02+KKEx01	-20WPE1			single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
336	21.2	=M30+81KK01	-21lw1	=M30+T1-21WE1	=M30+T1SC09-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
337	21.2	=B02+ES	-21lw1	=B02+B8-21XPE	=B02+P2-21XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
338	21.3	=M32+P2KK01	-21lw1	=M32+P2-21WE1	=M32+P2VN01-21Q1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
339	21.2	=M39+B9KK01	-21lw1	=M39+B8-21WS1	=M39+B8SC01-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
340	21.3	=M31+P1KK01	-21lw1	=M31+P1-21WE1	=M31+PV1M01-21Q1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
341	21.1	=D12+CCMD02	-21lw1	=C01+CCMS-X31	=D12+CCMD02-X31	SAC-4P-5,0-PUR/M12FS sensor-actuator-cable 5m	PC-1668124 cable with so+p1 M12;0,34	5	
342	21.1	=D13+CCMD03	-21lw1	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
343	21.5	=D12+CCMD02	-21lw2	=C01+CCMS-X31	=D12+CCMD02-X31	cable JZ-500 5x0,5	HELU-10006	5	
344	21.2	=M30+81KK01	-21lw2	=M30+T1-21WE1	=M30+T1SC08-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
345	21.2	=B02+ES	-21lw2	=B02+B8-21XPE	=B02+B8-21XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
346	21.2	=M39+B9KK01	-21lw2	=M39+B8-21WE1	=M39+B8SC01-21B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
347	21.2	=D13+CCMD03	-21lw2	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
348	21.2	=D11+CCMD01	-21lw2	=E01+CCSC-X0	=D11+CCMD01-X11	cable JZ-500 4x6	HELU-10148	4	
349	21.2	=B02+ES	-21lw3	=B02+L9-21XPE	=B02+B9-21XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
350	21.3	=M30+81KK01	-21lw3	=M30+T1-21WE1	=M30+T1SC07-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
351	21.8	=D12+CCMD02	-21lw3	=C01+CCMS-X31	=D12+CCMD02-X31	cable JZ-500 5x0,5	HELU-10006	5	
352	21.4	=D11+CCMD01	-21lw3	=D11+CCMD01-X12	=M30+HDL01-Q1	cable JZ-500 5x2,5	HELU-10125	5	
353	21.4	=D13+CCMD03	-21lw3	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
354	21.2	=M39+B9KK01	-21lw3	=M39+B8-21WS1	=M39+B8SC02-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
355	21.3	=M39+B9KK01	-21lw4	=M39+B8-21WE1	=M39+B8SC02-21B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
356	21.4	=B02+ES	-21lw4	=B02+Geste1l P6-	=B02+P2-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
357	21.5	=D13+CCMD03	-21lw4	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	1	
358	21.6	=D11+CCMD01	-21lw4	=D11+CCMD01-X12	=M39+HDL2-Q1	cable JZ-500 5x2,5	HELU-10125	5	
359	21.3	=M39+B9KK01	-21lw5	=M39+B8-21wS1	=M39+B8SC03-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
360	21.4	=B02+ES	-21lw5	=B02+Kammer P6-	=B02+P2-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
361	21.6	=D13+CCMD03	-21lw5	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
362	21.8	=D13+CCMD03	-21lw6	=D13+B2KTH02-X1	=D13+CCMD03-XB2TH	cable JZ-500 3x1,5	HELU-10091	3	
363	21.4	=M39+B9KK01	-21lw6	=M39+B8-21WE1	=M39+B8SC03-21B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
364	21.4	=B02+ES	-21lw6	=B02+P6AH11-	=B02+P2-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
365	21.4	=B02+ES	-21lw7	=B02+P6AH21-	=B02+P2-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
366	21.4	=B02+ES	-21lw8	=B02+P6AH31-	=B02+P2-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
367	21.6	=M39+B9KK01	-21lw9	=M39+B8-21WE1	=M39+B8SC11-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
368	21.4	=B02+ES	-21lw9	=M32+P2KK01-XPE	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
369	21.4	=B02+ES	-21lw10	=D13+P2KTH02-X1	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
370	21.6	=M39+B9KK01	-21lw10	=M39+B8-21WE1	=M39+B8SC12-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
371	21.0	=D21+CCMC	-21lw11	=E21+CCOS-Xe1	=D21+CCMC-21Xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
372	21.7	=M39+B9KK01	-21w11	=M39+B8-21WE1	=M39+B8SC13-21B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
373	21.4	=B02+ES	-21w11	=D13+P2KTH03-X1	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
374	21.0	=D21+CCMC	-21w12	=E21+CCOS-Xe1	=D21+CCMC-21xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
375	21.4	=B02+ES	-21w12	=B02+kabelbahn P6-	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
376	21.4	=B02+ES	-21w13	=B02+Vakuumrohr P2-	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
377	21.1	=D21+CCMC	-21w13	=E21+CCOS-Xe1	=D21+CCMC-21xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
378	21.4	=B02+ES	-21w14	=B02+Vakuumrohr L1-	=B02+P2-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
379	21.1	=D21+CCMC	-21w14	=E21+CCOS-Xe1	=D21+CCMC-21xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
380	21.1	=D21+CCMC	-21w15	=D21+CCMC-21xe1	=M30+V1MS01-39B1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
381	21.1	=D21+CCMC	-21w16	=D21+CCMC-21xe1	=M39+V1MS01-39B1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
382	21.4	=D21+CCMC	-21w17	=D21+CCMC-26K1	=D21+CCMC-21T2	serial cabled adapter for AS-i gateway BW1575	102121558	1	
383	21.4	=B02+ES	-21w17	=D12+CCMD02-XPE	=B02+88-21XPE	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	1	
384	21.4	=B02+ES	-21w18	=B02+Gestell B8-	=B02+88-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
385	21.4	=D21+CCMC	-21w18	=D21+CCMC-26K3	=D21+CCMC-21T2	serial cable& adapter for AS-i gateway BW1575	102121558	1	
386	21.4	=B02+ES	-21w19	=B02+kammer B8-	=B02+88-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
387	21.4	=B02+ES	-21w20	=B02+kabelbahn B8-	=B02+88-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
388	21.5	=D21+CCMC	-21w20	=D21+CCMC-X	=D21+CCMC-21T2	cable plug/socket 9pin L=10,0m	DD006176	1	
389	21.4	=B02+ES	-21w21	=B02+B8-21XPE	=D11+L9PV01-15M1	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
390	21.4	=B02+ES	-21w25		=B02+B8-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
391	21.4	=B02+ES	-21w26	=B02+Gestell B9-	=B02+B9-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
392	21.4	=B02+ES	-21w27	=B02+kammer B9-	=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
393	21.4	=B02+ES	-21w28	=M39+B9KK01-XPE	=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
394	21.4	=B02+ES	-21w29	=B02+kabelbahn B9-	=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
395	21.4	=B02+ES	-21w30		=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
396	21.3	=D21+CCMC	-21w31	=D21+CCMC-21xe1	=M30+HDL01-S1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
397	21.4	=B02+ES	-21w31		=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
398	21.3	=D21+CCMC	-21w32	=D21+CCMC-21xe1	=M39+HDL2-S1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
399	21.4	=B02+ES	-21w32	=B02+Vakuumrohr L1-	=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
400	21.4	=B02+ES	-21w33	=B02+Vakuumrohr P2-	=B02+B9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
401	21.3	=D21+CCMC	-21w33	=E11+CCPS01-10xe1	=D21+CCMC-21xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
402	21.3	=D21+CCMC	-21w34	=E11+CCPS02-13xe1	=D21+CCMC-21xe1	cable-LAN HELUKAT S-STP 4x2xAWG24	HELU-82501	1	
403	21.4	=B02+ES	-21w35	=B02+Gestell T9-	=B02+L9-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
404	21.4	=B02+ES	-21w36	=B02+Gestell L9-	=B02+L9-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
405	21.4	=B02+ES	-21w37	=B02+kammer L9-	=B02+L9-21XPE	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	1	
406	21.4	=B02+ES	-21w38	=B02+wagen T99-	=B02+L9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
407	21.4	=B02+ES	-21w40	=B02+L9-21XPE	=M39+HDL2-XEP	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
408	21.4	=B02+ES	-21w41	=B02+kabelbahn L9-	=B02+L9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
409	21.4	=B02+ES	-21w42	=M39+L9TH01-40E1	=B02+L9-21XPE	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	1	
410	21.0	=D21+CCMC	-21w41	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
411	21.0	=D21+CCMC	-21w42	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
412	21.1	=D21+CCMC	-21w43	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
413	21.1	=D21+CCMC	-21w44	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
414	21.1	=D21+CCMC	-21w45	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
415	21.1	=D21+CCMC	-21w46	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
416	21.2	=D21+CCMC	-21w47	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
417	21.2	=D21+CCMC	-21w48	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
418	21.3	=D21+CCMC	-21w49	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
419	21.3	=D21+CCMC	-21w50	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
420	21.3	=D21+CCMC	-21w51	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 5m	HELU-80351	1	
421	21.3	=D21+CCMC	-21w52	=D21+CCMC-21xe1	=D21+CCMC-21T1	cable grade cable RJ 45/ 10m	HELU-80352	1	
422	21.4	=D21+CCMC	-21w53	=D13+CCMD03-36K2	=D21+CCMC-21T1	cable grade cable RJ 45/ 2m	HELU-80349	1	
423	21.4	=D21+CCMC	-21w54	=D21+CCMC-21T1	=D21+CCMC-20K4	cable grade cable RJ 45/ 2m	HELU-80349	1	
424	21.3	=D21+CCMC	-21w55	=D21+CCMC-21T1	=D21+CCMC-21T2	cable grade cable RJ 45/ 2m	HELU-80349	1	

			date	12/05	A1500V-7 iZnO-AZO 	list of cables	388-810000	P/005388	+
			devel.	Henker					
			check						
cond.	alter.	date	name	norm					

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
425	22.2	=M39+B9KK01	-22w1	=M39+B9-22ws1	=M39+B9SC01-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
426	22.2	=M32+P2KK01	-22w1	=M32+p2-22WE1	=M32+p2SC11-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
427	22.2	=M31+P1KK01	-22w1	=M31+p1-22WE1	=M31+p1SC11-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
428	22.2	=M30+B1KK01	-22w1	=M30+t1-22WE1	=M30+t1SC11-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
429	22.2	=D11+CCMD01	-22w1	=D11+CCMD01-X12	=M39+L9TH01-40E1	cable JZ-500 5x2,5	HELU-10125	5	
430	22.2	=M31+P1KK01	-22w2	=M31+p1-22WE1	=M31+p1SC12-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
431	22.2	=M32+P2KK01	-22w2	=M32+p2-22WE1	=M32+p2SC12-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
432	22.2	=M39+B9KK01	-22w2	=M39+B9-22WE1	=M39+B9SC01-22B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
433	22.2	=M30+B1KK01	-22w2	=M30+t1-22WE1	=M30+t1SC12-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
434	22.2	=M39+B9KK01	-22w3	=M39+B9-22ws1	=M39+B9SC02-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
435	22.3	=M30+B1KK01	-22w3	=M30+t1-22WE1	=M30+t1SC13-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
436	22.3	=M32+P2KK01	-22w3	=M32+p2-22WE1	=M32+p2SC13-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
437	22.3	=M31+P1KK01	-22w3	=M31+p1-22WE1	=M31+p1SC13-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
438	22.3	=M39+B9KK01	-22w4	=M39+B9-22WE1	=M39+B9SC02-22B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
439	22.3	=M39+B9KK01	-22w5	=M39+B9-22ws1	=M39+B9SC03-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
440	22.6	=M30+B1KK01	-22w5	=M30+l1-22WE1	=M30+l1AL01-22B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
441	22.4	=M39+B9KK01	-22w6	=M39+B9-22WE1	=M39+B9SC03-22B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
442	22.7	=M30+B1KK01	-22w6	=M30+l1-22WE1	=M30+l1AL01-22B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
443	22.8	=M30+B1KK01	-22w7	=M30+l1-22WE1	=M30+l1AL02-22B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
444	22.9	=M30+B1KK01	-22w8	=M30+l1-22WE1	=M30+l1AL02-22B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
445	22.6	=M39+B9KK01	-22w9	=M39+B9-22WE1	=M39+B9SC11-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
446	22.6	=M39+B9KK01	-22w10	=M39+B9-22WE1	=M39+B9SC12-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
447	22.7	=M39+B9KK01	-22w11	=M39+B9-22WE1	=M39+B9SC13-22B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
448	23.2	=M30+B1KK01	-23w1	=M30+l1-23ws1	=M30+l1SC01-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
449	23.2	=M32+P2KK01	-23w1	=M32+p2-23WE1	=M32+p2-23WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
450	23.1	=D13+CCMD03	-23w1	=D13+p1KTH01-X1	=D13+CCMD03-xp1TH	cable JZ-500 3x1,5	HELU-10091	3	
451	23.2	=M31+P1KK01	-23w1	=M31+p1AH11-23B1	=M31+p1-23WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
452	23.2	=M39+B9KK01	-23w1	=M39+l9-23ws1	=M39+l9SC01-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
453	23.2	=M30+B1KK01	-23w2	=M30+l1-23WE1	=M30+l1SC01-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
454	23.2	=D13+CCMD03	-23w2	=D13+p1KTH01-X1	=D13+CCMD03-xp1TH	cable JZ-500 3x1,5	HELU-10091	3	
455	23.2	=M32+P2KK01	-23w2	=M32+p2AH11-23B2	=M32+p2-23WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
456	23.2	=M39+B9KK01	-23w2	=M39+l9-23WE1	=M39+l9SC01-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
457	23.2	=M31+P1KK01	-23w2	=M31+p1AH11-23B2	=M31+p1-23WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
458	23.2	=M39+B9KK01	-23w3	=M39+l9-23ws1	=M39+l9SC02-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
459	23.3	=M32+P2KK01	-23w3	=M32+p2-23WE1	=M32+p2AL11-23B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
460	23.3	=M31+P1KK01	-23w3	=M31+p1-23WE1	=M31+p1AL11-23B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
461	23.2	=M30+B1KK01	-23w3	=M30+l1-23ws1	=M30+l1SC02-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
462	23.4	=M32+P2KK01	-23w4	=M32+p2-23WE1	=M32+p2AL11-23B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
463	23.3	=M39+B9KK01	-23w4	=M39+l9-23WE1	=M39+l9SC02-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
464	23.4	=M31+P1KK01	-23w4	=M31+p1-23WE1	=M31+p1AL11-23B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
465	23.3	=M30+B1KK01	-23w4	=M30+l1-23WE1	=M30+l1SC02-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
466	23.5	=M31+P1KK01	-23w5	=M31+p1KK01-XP	=M31+p1AH11-23B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
467	23.3	=M30+B1KK01	-23w5	=M30+l1-23ws1	=M30+l1SC03-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
468	23.5	=M32+P2KK01	-23w5	=M32+p2KK01-XP	=M32+p2AH11-23B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
469	23.3	=M39+B9KK01	-23w5	=M39+l9-23ws1	=M39+l9SC03-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
470	23.5	=M32+P2KK01	-23w6	=M32+p2KK01-11K2	=M32+p2AH11-23B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
471	23.5	=M31+P1KK01	-23w6	=M31+p1KK01-11K2	=M31+p1AH11-23B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
472	23.4	=M30+B1KK01	-23w6	=M30+l1-23WE1	=M30+l1SC03-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
473	23.4	=M39+B9KK01	-23w6	=M39+l9-23WE1	=M39+l9SC03-23B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
474	23.8	=M31+P1KK01	-23w7	=M31+p1KK01-23XB1	=M31+p1KK01-14K5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
475	23.8	=M32+P2KK01	-23w7	=M32+p2KK01-23XB1	=M32+p2KK01-14K5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
476	23.5	=M30+B1KK01	-23w8	=M30+l1-23WE1	=M30+l1SC11-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
477	23.6	=M30+B1KK01	-23w9	=M30+l1-23WE1	=M30+l1SC12-23B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
478	23 .6	=M39+B9KK01	-23w9	=M39+L9-23WE1	=M39+L9SC11-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
479	23 .6	=M39+B9KK01	-23w10	=M39+L9-23WE1	=M39+L9SC12-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
480	23 .6	=M30+B1KK01	-23w10	=M30+L1-23WE1	=M30+L1SC13-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
481	23 .7	=M39+B9KK01	-23w11	=M39+L9-23WE1	=M39+L9SC13-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
482	23 .7	=M30+B1KK01	-23w11	=M30+L1-23WE1	=M30+L1SC14-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
483	23 .8	=M39+B9KK01	-23w12	=M39+L9-23WE1	=M39+L9SC14-23B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
484	24 .1	=M39+B9KK01	-24w1	=M39+T9-24WE1	=M39+T9SC01-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
485	24 .2	=M31+P1KK01	-24w1	=M31+P1AH21-24B1	=M31+P1-24WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
486	24 .2	=M30+B1KK01	-24w1	=M30+P1-24WS1	=M30+B1SC01-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
487	24 .1	=D11+CCMD01	-24w1	=D11+CCMD01-25Q1	=D11+CCMD01-24T1	cable F-CY-JZ 4x1,5	HELU-16395	10	
488	24 .2	=M32+P2KK01	-24w1	=M32+P2AH21-24B1	=M32+P2-24WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
489	24 .1	=D13+CCMD03	-24w1	=D13+P1KTH02-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
490	24 .2	=D13+CCMD03	-24w2	=D13+P1KTH02-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
491	24 .2	=M39+B9KK01	-24w2	=M39+T9-24WE1	=M39+T9SC02-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
492	24 .2	=M31+P1KK01	-24w2	=M31+P1AH21-24B2	=M31+P1-24WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
493	24 .2	=D11+CCMD01	-24w2	=D11+P1AH11-24XM1	=D11+CCMD01-25Q1	cable F-CY-JZ 4x1,5	HELU-16395	4	
494	24 .2	=M30+B1KK01	-24w2	=M30+B1-24WE1	=M30+B1SC01-24B2	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
495	24 .2	=M32+P2KK01	-24w2	=M32+P2AH21-24B2	=M32+P2-24WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
496	24 .2	=M30+B1KK01	-24w3	=M30+P1-24WS1	=M30+B1SC02-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
497	24 .3	=M32+P2KK01	-24w3	=M32+P2-24WE1	=M32+P2AL21-24B1	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
498	24 .3	=M31+P1KK01	-24w3	=M31+P1-24WE1	=M31+P1AL21-24B1	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
499	24 .3	=M39+B9KK01	-24w3	=M39+T9-24WE1	=M39+T9SC03-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
500	24 .3	=D11+CCMD01	-24w3	=D11+P1AH21-24XM1	=D11+CCMD01-25Q2	cable F-CY-JZ 4x1,5	HELU-16395	4	
501	24 .4	=D11+CCMD01	-24w4	=D11+P1AH31-24XM1	=D11+CCMD01-25Q3	cable F-CY-JZ 4x1,5	HELU-16395	4	
502	24 .4	=M31+P1KK01	-24w4	=M31+P1-24WE1	=M31+P1AL21-24B2	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
503	24 .4	=M32+P2KK01	-24w4	=M32+P2-24WE1	=M32+P2AL21-24B2	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
504	24 .3	=M30+B1KK01	-24w4	=M30+B1-24WE1	=M30+B1SC02-24B2	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
505	24 .6	=M39+B9KK01	-24w5	=M39+L9-24WE1	=M39+L9AL01-24B1	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
506	24 .5	=M32+P2KK01	-24w5	=M32+P2KK01-XP	=M32+P2AH21-24B3	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
507	24 .3	=M30+B1KK01	-24w5	=M30+B1-24WS1	=M30+B1SC03-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
508	24 .5	=M31+P1KK01	-24w5	=M31+P1KK01-XP	=M31+P1AH21-24B3	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
509	24 .6	=D11+CCMD01	-24w5	=D11+P2AH11-24XM1	=D11+CCMD01-25Q4	cable F-CY-JZ 4x1,5	HELU-16395	4	
510	24 .7	=D11+CCMD01	-24w6	=D11+P2AH21-24XM1	=D11+CCMD01-25Q5	cable F-CY-JZ 4x1,5	HELU-16395	4	
511	24 .5	=M32+P2KK01	-24w6	=M32+P2AH21-11K2	=M32+P2AH21-24B3	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
512	24 .5	=M31+P1KK01	-24w6	=M31+P1KK01-11K2	=M31+P1AH21-24B3	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
513	24 .7	=M39+B9KK01	-24w6	=M39+L9-24WE1	=M39+L9AL01-24B2	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
514	24 .4	=M30+B1KK01	-24w6	=M30+B1-24WE1	=M30+B1SC03-24B2	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
515	24 .8	=M31+P1KK01	-24w7	=M31+P1KK01-24XB1	=M31+P1KK01-14K5	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
516	24 .8	=M39+B9KK01	-24w7	=M39+L9-24WE1	=M39+L9AL02-24B1	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
517	24 .8	=M32+P2KK01	-24w7	=M32+P2KK01-24XB1	=M32+P2KK01-14K5	SAC-5P-10,-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
518	24 .8	=D11+CCMD01	-24w7	=D11+P2AH31-24XM1	=D11+CCMD01-25Q6	cable F-CY-JZ 4x1,5	HELU-16395	4	
519	24 .9	=M39+B9KK01	-24w8	=M39+L9-24WE1	=M39+L9AL02-24B2	SAC-3P-5,-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
520	24 .6	=M30+B1KK01	-24w9	=M30+B1-24WE1	=M30+B1SC11-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
521	24 .6	=M30+B1KK01	-24w10	=M30+B1-24WE1	=M30+B1SC12-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
522	24 .7	=M30+B1KK01	-24w11	=M30+B1-24WE1	=M30+B1SC13-24B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
523	25 .2	=M32+P2KK01	-25w1	=M32+P2AH31-25B1	=M32+P2-25WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
524	25 .1	=D13+CCMD03	-25w1	=D13+P1KTH03-X1	=D13+CCMD03-59K2	cable JZ-500 3x1,5	HELU-10091	3	
525	25 .0	=D11+CCMD01	-25w1	=D11+CCMD01-25Q1	=D11+CCMD01-59K2	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	
526	25 .2	=M39+B9KK01	-25w1	=M39+T9-25WE1	=M39+T9SC09-25B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
527	25 .2	=M30+B1KK01	-25w1	=M30+B2-25WS1	=M30+B2SC01-25B1	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
528	25 .2	=M31+P1KK01	-25w1	=M31+P1AH31-25B1	=M31+P1-25WE1	SAC-5P-5,-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
529	25 .2	=D13+CCMD03	-25w2	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
530	25 .2	=M30+B1KK01	-25w2	=M30+B2-25WE1	=M30+B2SC01-25B2	SAC-4P-5,-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
531	25.1	=D11+CCMD01	-25W2	=D11+CCMD01-24T1	=D11+CCMD01-25Q1	cable TRONIC-CY(LiCY) 8x0,34	HELU-20061	8	
532	25.2	=M32+P2KK01	-25W2	=M32+P2AH31-25B2	=M32+P2-25WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
533	25.2	=M31+P1KK01	-25W2	=M31+P1AH31-25B2	=M31+P1-25WE1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848+QCON male jack M12; 0,34	1	
534	25.3	=M39+B9KK01	-25W2	=M39+T9-25WE1	=M39+T9SC08-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
535	25.2	=D11+CCMD01	-25W3	=D11+CCMD01-25Q1	=D11+CCMD01-57K4	cable TRONIC-CY(LiCY) 8x0,34	HELU-20061	8	
536	25.3	=M31+P1KK01	-25W3	=M31+P1-25WE1	=M31+P1AL31-25B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
537	25.4	=D13+CCMD03	-25W3	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
538	25.2	=M30+B1KK01	-25W3	=M30+B2-25WS1	=M30+B2SC02-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
539	25.4	=M39+B9KK01	-25W3	=M39+T9-25WE1	=M39+T9SC07-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
540	25.3	=M32+P2KK01	-25W3	=M32+P2-25WE1	=M32+P2AL31-25B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
541	25.4	=M31+P1KK01	-25W4	=M31+P1-25WE1	=M31+P1AL31-25B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
542	25.4	=M32+P2KK01	-25W4	=M32+P2-25WE1	=M32+P2AL31-25B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
543	25.5	=D13+CCMD03	-25W4	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
544	25.3	=M30+B1KK01	-25W5	=M30+B2-25WS1	=M30+B2SC03-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
545	25.5	=M32+P2KK01	-25W5	=M32+P2-25XP	=M32+P2AH31-25B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
546	25.5	=M31+P1KK01	-25W5	=M31+P1-25XP	=M31+P1AH31-25B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	1	
547	25.6	=D13+CCMD03	-25W5	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
548	25.5	=M32+P2KK01	-25W6	=M32+P2-25K01-11K2	=M32+P2AH31-25B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
549	25.8	=D13+CCMD03	-25W6	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
550	25.5	=M31+P1KK01	-25W6	=M31+P1KK01-11K2	=M31+P1AH31-25B3	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	7	
551	25.8	=M32+P2KK01	-25W7	=M32+P2KK01-25XB1	=M32+P2KK01-14K5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
552	25.8	=M31+P1KK01	-25W7	=M31+P1KK01-25XB1	=M31+P1KK01-14K5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	2	
553	25.6	=M30+B1KK01	-25W9	=M30+B2-25WE1	=M30+B2SC11-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
554	25.6	=M30+B1KK01	-25W10	=M30+B2-25WE1	=M30+B2SC12-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
555	25.7	=M30+B1KK01	-25W11	=M30+B2-25WE1	=M30+B2SC13-25B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
556	26.1	=D13+CCMD03	-26W1	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
557	26.2	=M32+P2KK01	-26W1	=M32+P2-26WE1	=M32+P2SW01-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
558	26.0	=D21+CCMC	-26W1	=D11+CCMD01-XAS	=D21+CCMC-XAS	cable ASi-BUS EPDM yellow 2x1,5	HELU-80824	2	
559	26.2	=M30+B1KK01	-26W1	=M30+B1-26WE1	=M30+B1GD01-26B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
560	26.2	=D11+CCMD01	-26W1	=D11+T9-2601	=D11+CCMD01-26T1	cable F-CY-JZ 4x1,5	HELU-16395	1	
561	26.2	=M31+P1KK01	-26W1	=M31+P1-26WE1	=M31+P1SW01-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
562	26.2	=M39+B9KK01	-26W1	=M39+T9-26WE1	=M39+T9GD01-26B1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
563	26.3	=M32+P2KK01	-26W2	=M32+P2-26WE1	=M32+P2SW02-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
564	26.3	=M39+B9KK01	-26W2	=M39+T9-26WE1	=M39+T9GD01-26B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
565	26.3	=M31+P1KK01	-26W2	=M31+P1-26WE1	=M31+P1SW02-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
566	26.1	=D21+CCMC	-26W2	=D21+CCMC-XAS	=D21+P1-29XAS1	cable ASi-BUS EPDM yellow 2x1,5	HELU-80824	2	
567	26.2	=D13+CCMD03	-26W2	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
568	26.3	=M30+B1KK01	-26W2	=M30+B1-26WE1	=M30+B1GD01-26B2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
569	26.2	=D11+CCMD01	-26W2	=D11+T9-26M	=D11+T9-26Q1	cable F-CY-JZ 4x1,5	HELU-16395	1	
570	26.4	=D13+CCMD03	-26W3	=D13+P1KTH03-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
571	26.4	=M32+P2KK01	-26W3	=M32+P2-26WE1	=M32+P2SW02-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
572	26.1	=D21+CCMC	-26W3	=D21+CCMC-XAS	=D21+P2-29XAS1	cable ASi-BUS EPDM yellow 2x1,5	HELU-80824	2	
573	26.4	=M31+P1KK01	-26W3	=M31+P1-26WE1	=M31+P1SW02-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
574	26.4	=M30+B1KK01	-26W3	=M30+B1-26WE1	=M30+B1GD01-26B3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
575	26.4	=M39+B9KK01	-26W3	=M39+T9-26WE1	=M39+T9GD01-26B3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
576	26.4	=M31+P1KK01	-26W4	=M31+P1-26WE1	=M31+P1SWG11-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
577	26.4	=M32+P2KK01	-26W4	=M32+P2-26WE1	=M32+P2SWG11-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
578	26.5	=M39+B9KK01	-26W4	=M39+T9-26WE1	=M39+T9GD01-26B4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
579	26.7	=D21+CCMC	-26W4	=D21+CCMC-XAS	=D11+P1MAG11-29XAS1	cable ASi-BUS EPDM yellow 2x1,5	HELU-80824	2	
580	26.5	=M30+B1KK01	-26W4	=M30+B1-26WE1	=M30+B1GD01-26B4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
581	26.5	=M32+P2KK01	-26W5	=M32+P2-26WE1	=M32+P2SWG12-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
582	26.6	=M39+B9KK01	-26W5	=M39+T9-26WE1	=M39+T9GD01-26B5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
583	26.6	=M30+B1KK01	-26W5	=M30+B1-26WE1	=M30+B1GD01-26B5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
584	26.6	=M32+P2KK01	-26W6	=M32+P2-26WE1	=M32+P2SWG21-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
585	26.6	=M30+B1KK01	-26W6	=M30+B1-26WE1	=M30+B1GD01-2686	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
586	26.6	=M39+B9KK01	-26W6	=M39+T9-26WE1	=M39+T9GD01-26B6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
587	26.7	=M30+B1KK01	-26W7	=M30+B1-26WE1	=M30+B1GD01-26B7	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
588	26.7	=M39+B9KK01	-26W7	=M39+T9-26WE1	=M39+T9GD01-26B7	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
589	26.7	=M32+P2KK01	-26W7	=M32+P2-26WE1	=M32+P2SWG22-26B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
590	26.8	=M39+B9KK01	-26W8	=M39+T9-26WE1	=M39+T9GD01-26B8	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
591	26.8	=M30+B1KK01	-26W8	=M30+B1-26WE1	=M30+B1GD01-26B8	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
592	27.2	=M31+P1KK01	-27W1	=M31+P1-27WE1	=M31+P1SWU11-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
593	27.1	=M39+B9KK01	-27W1	=M39+B8-27WE1	=M39+B8VS01-27B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
594	27.2	=D11+CCMD01	-27W1	=D11+CCMD01-X12	=D11+B1KK02-27Q1	cable JZ-500 3x1,5	HELU-10095	5	
595	27.1	=D13+CCMD03	-27W1	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
596	27.3	=M30+B1KK01	-27W1	=M30+L1-27WE1	=M30+L1VB01-27Q1	SAC-4P-10,0-PUR/M 8Fs sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
597	27.2	=M32+P2KK01	-27W1	=M32+P2-27WE1	=M32+P2SWU21-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
598	27.2	=D11+CCMD01	-27W2	=D11+L1-27M1	=D11+B1KK02-27Q1	cable JZ-500 3x0,75	HELU-10031	3	
599	27.3	=M32+P2KK01	-27W2	=M32+P2-27WE1	=M32+P2SWU22-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
600	27.4	=M30+B1KK01	-27W2	=M30+L1-27WE1	=M30+L1VB02-27Q1	SAC-4P-10,0-PUR/M 8Fs sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
601	27.3	=M31+P1KK01	-27W2	=M31+P1-27WE1	=M31+P1SWU12-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
602	27.2	=D13+CCMD03	-27W2	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
603	27.2	=M39+B9KK01	-27W2	=M39+B8-27WE1	=M39+B8VS01-27B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
604	27.4	=M31+P1KK01	-27W3	=M31+P1-27WE1	=M31+P2SWU11-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
605	27.3	=D11+CCMD01	-27W3	=D11+B1-27M1	=D11+B1KK02-27Q1	cable JZ-500 3x0,75	HELU-10031	3	
606	27.4	=M32+P2KK01	-27W3	=M32+P2-27WE1	=M32+P2SWU31-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
607	27.4	=D13+CCMD03	-27W3	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
608	27.5	=D13+CCMD03	-27W4	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
609	27.4	=M32+P2KK01	-27W4	=M32+P2-27WE1	=M32+P2SWU32-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
610	27.4	=D11+CCMD01	-27W4	=D11+B2-27M1	=D11+B1KK02-27Q1	cable JZ-500 3x0,75	HELU-10031	3	
611	27.4	=M31+P1KK01	-27W4	=M31+P1-27WE1	=M31+P2SWU12-27B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
612	27.6	=M39+B9KK01	-27W5	=M39+L9-27WE1	=M39+L9AL03-27B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
613	27.6	=D13+CCMD03	-27W5	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
614	27.6	=D11+CCMD01	-27W5	=D11+CCMD01-X12	=D11+P1KK02-27Q1	cable JZ-500 3x1,5	HELU-10095	5	
615	27.6	=D11+CCMD01	-27W6	=D11+P1-27M1	=D11+P1KK02-27Q1	cable JZ-500 3x0,75	HELU-10031	3	
616	27.8	=D13+CCMD03	-27W6	=D13+P1KTH04-X1	=D13+CCMD03-XP1TH	cable JZ-500 3x1,5	HELU-10091	3	
617	27.7	=M39+B9KK01	-27W6	=M39+L9-27WE1	=M39+L9AL03-27B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
618	27.8	=M39+B9KK01	-27W7	=M39+L9-27WE1	=M39+L9AL04-27B1	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
619	27.7	=D11+CCMD01	-27W7	=D11+P1-27M2	=D11+P1KK02-27Q1	cable JZ-500 3x0,75	HELU-10031	3	
620	27.9	=M39+B9KK01	-27W8	=M39+L9-27WE1	=M39+L9AL04-27B2	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
621	28.2	=M31+P1KK01	-28W1	=M31+P1-28WE1	=M31+P1SWT11-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
622	28.2	=D11+CCMD01	-28W1	=D11+CCMD01-X12	=D11+P2KK02-28Q1	cable JZ-500 3x1,5	HELU-10095	5	
623	28.2	=M32+P2KK01	-28W1	=M32+P2-28WE1	=M32+P2SWT21-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
624	28.1	=M30+B1KK01	-28W1	=M30+L1-28WE1	=M30+L1VV01-28Q1	SAC-5P-5M,5,0-PUR sensor actuator cable	PC-1669783	1	
625	28.3	=M39+B9KK01	-28W1	=M39+B9-28WE1	=M39+B9V01-28Q1	SAC-4P-10,0-PUR/M 8Fs sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
626	28.4	=M39+B9KK01	-28W2	=M39+B9-28WE1	=M39+B9V02-28Q1	SAC-4P-10,0-PUR/M 8Fs sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
627	28.2	=D11+CCMD01	-28W2	=D11+P2-28M1	=D11+P2KK02-28Q1	cable JZ-500 3x0,75	HELU-10031	3	
628	28.2	=M30+B1KK01	-28W2	=M30+L1-28WE1	=M30+L1VV02-28Q1	SAC-5P-5M,5,0-PUR sensor actuator cable	PC-1669783	1	
629	28.3	=M32+P2KK01	-28W2	=M32+P2-28WE1	=M32+P2SWT22-28B1	.SAC-5P-5,0-PUR/M12FS sensor actor cable 5m	PC-1669648+QCON male jack M12	1	
630	28.3	=M31+P1KK01	-28W2	=M31+P1-28WE1	=M31+P1SWT12-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
631	28.4	=M32+P2KK01	-28W3	=M32+P2-28WE1	=M32+P2SWT31-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
632	28.4	=M31+P1KK01	-28W3	=M31+P1-28WE1	=M31+P2SWT11-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
633	28.3	=D11+CCMD01	-28W3	=D11+P2-28M2	=D11+P2KK02-28Q1	cable JZ-500 3x0,75	HELU-10031	3	
634	28.4	=M31+P1KK01	-28W4	=M31+P1-28WE1	=M31+P2SWT12-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
635	28.4	=M32+P2KK01	-28W4	=M32+P2-28WE1	=M32+P2SWT32-28B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
636	28.6	=M39+B9KK01	-28W4	=M39+B9-28WE1	=M39+B8VM01-28Q1	SAC-4P-10,0-PUR/M 8Fs sensor cable	PC-1683484-10m+M12 male jack 4pin	1	

				date	12/05	A1500V-7 izno_AZO	 <b>LEYBOLD OPTICS</b>	list of cables	388-810000	P/005388		
				devel.	Henker				+ sheet 12	of 18		
				check					< 11	13 >		
cond.	alter.	date	name	norm								

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
637	28.6	=D11+CCMD01	-28W5	=D11+CCMD01-X12	=D11+B9KK02-28Q1	cable JZ-500 5x1,5	HELU-10095	5	
638	28.6	=D11+CCMD01	-28w6	=D11+B8-28M1	=D11+B9KK02-28Q1	cable JZ-500 3x0,75	HELU-10031	3	
639	28.7	=M30+B1KK01	-28w7	=M30+L1-28WE1	=M30+L1VS01-28B1	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
640	28.7	=D11+CCMD01	-28w7	=D11+B9-28M1	=D11+B9KK02-28Q1	cable JZ-500 3x0,75	HELU-10031	3	
641	28.8	=D11+CCMD01	-28w8	=D11+L9-28M1	=D11+B9KK02-28Q1	cable JZ-500 3x0,75	HELU-10031	3	
642	28.8	=M30+B1KK01	-28w8	=M30+L1-28WE1	=M30+L1VS01-28B2	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
643	29.1	=M31+P1KK01	-29w1	=M31+P1KK01-29X3	=M31+P1GT01-29B1	.device cable	device cable	12	
644	29.3	=M30+B1KK01	-29w1	=M30+B1-29WE1	=M30+B1VB01-29Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
645	29.1	=M32+P2KK01	-29w1	=M32+P2KK01-29X3	=M32+P2GT01-29B1	.device cable	device cable	12	
646	29.1	=D11+CCMD01	-29w1	=D11+CCMD01-X12	=D11+CCMD01-XM1	cable JZ-500 4x2,5	HELU-10123	4	
647	29.3	=M39+B9KK01	-29w1	=M39+B9-29WE1	=M39+B9V01-29Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
648	29.4	=M39+B9KK01	-29w2	=M39+B9-29WE1	=M39+L9VB03-29Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
649	29.4	=M30+B1KK01	-29w2	=M30+B1-29WE1	=M30+B1VB02-29Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
650	29.5	=M39+B9KK01	-29w3	=M39+B9-29WE1	=M39+B9VS01-29B1	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
651	29.6	=M39+B9KK01	-29w4	=M39+B9-29WE1	=M39+B9VS01-29B2	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
652	30.2	=M31+P1KK01	-30w1	=M31+P1KK01-XP	=M31+P1MC01-30B1	cable TRONIC-CY(LiYYCY) 2x0,34	HELU-20056	2	
653	30.2	=M32+P2KK01	-30w1	=M32+P2KK01-XP	=M32+P2MC01-30B1	cable TRONIC-CY(LiYYCY) 2x0,34	HELU-20056	2	
654	30.3	=M39+B9KK01	-30w1	=M39+L9-30WE1	=M39+L9VB01-30Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
655	30.2	=D21+CCMC	-30w1	=D11+CCMD01-X4	=D21+CCMC-X41	cable JZ-500 7x0,5	HELU-10009	6	
656	30.4	=M30+B1KK01	-30w1	=M30+B1KK01-30WX1	=M30+B1VS01-30B1	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
657	30.1	=D11+CCMD01	-30w1	=D11+CCMD01-X12	=D11+CCMD01-XM1	cable JZ-500 4x2,5	HELU-10123	4	
658	30.4	=M39+B9KK01	-30w2	=M39+L9-30WE1	=M39+L9VB02-30Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
659	30.4	=D11+CCMD01	-30w2	=D11+CCMD01-X12	=D11+CCMD01-XM1	cable JZ-500 4x2,5	HELU-10123	4	
660	30.4	=M30+B1KK01	-30w2	=M30+B1KK01-30WX1	=M30+B1VS01-30B2	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON-male jack M12;0,34	1	
661	30.5	=M30+B1KK01	-30w3	=M30+B1-30WE1	=M30+B1VS02-30Q1	SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714+LIYY4x0,34	1	
662	30.7	=D11+CCMD01	-30w3	=D11+CCMD01-X12	=D11+CCMD01-XM1	cable JZ-500 4x2,5	HELU-10123	4	
663	30.6	=M30+B1KK01	-30w4	=M30+B1-30WE1	=M30+B1VS03-30Q1	SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714+LIYY4x0,34	1	
664	30.3	=M30+B1KK01	-30w5	=M30+B1-30WE1	=M30+L1VB03-30Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
665	31.3	=M30+B1KK01	-31w1	=M30+B2-31WE1	=M30+B2VB01-31Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
666	31.3	=M31+P1KK01	-31w1	=M31+P1FKC11-31K1	=M31+P1KK01-31FX1	cable TRONIC-CY(LiYYCY) 2x0,34	HELU-20056	2	
667	31.3	=B02+PB	-31w1	=B02+CCSC-31X1	=B02+CCMC-31X3	cable PROFIBUS 2x0,64	HELU-81448	2	
668	31.3	=M39+B9KK01	-31w1	=M39+L9-31WE1	=M39+L9VB01-31Q1	SAC-5P-M12MS/5,0-PUR sensor actuator cable	PC-1669783	1	
669	31.3	=M32+P2KK01	-31w1	=M32+P2FKC11-31K1	=M32+P2KK01-31FX1	cable TRONIC-CY(LiYYCY) 2x0,34	HELU-20056	2	
670	31.1	=D13+CCMD03	-31w1	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
671	31.3	=B02+PB	-31w2	=B02+CCSC-31X2	=B02+CCSC-31X1	cable PROFIBUS 2x0,64	HELU-81448	2	
672	31.4	=M30+B1KK01	-31w2	=M30+B1-31WE1	=M30+B2VB02-31Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
673	31.7	=M32+P2KK01	-31w2	=M32+P2SWL11-31X1	=M32+P2SWL11-31B1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
674	31.2	=D13+CCMD03	-31w2	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
675	31.4	=M39+B9KK01	-31w2	=M39+L9-31WE1	=M39+L9VB02-31Q1	SAC-5P-M12MS/5,0-PUR sensor actuator cable	PC-1669783	1	
676	31.7	=M31+P1KK01	-31w2	=M31+P1SWL11-31X1	=M31+P1SWL11-31B1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
677	31.3	=B02+PB	-31w3	=B02+CCSC-31X3	=B02+CCSC-31X2	cable PROFIBUS 2x0,64	HELU-81448	2	
678	31.4	=D13+CCMD03	-31w3	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
679	31.5	=M39+B9KK01	-31w3	=M39+L9-31WE1	=M39+L9VS01-31B1	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
680	31.7	=M32+P2KK01	-31w3	=M32+P2SWL12-31X1	=M32+P2SWL12-31B1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
681	31.5	=D13+CCMD03	-31w4	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
682	31.3	=B02+PB	-31w4	=B02+CCSC-31X4	=B02+CCSC-31X3	cable PROFIBUS 2x0,64	HELU-81448	2	
683	31.6	=M30+B1KK01	-31w4	=M30+B2-31WE1	=M30+B2VM01-31Q1	SAC-4P-10,0-PUR/M 8FS sensor cable	PC-1683484-10m+M12 male jack 4pin	1	
684	31.6	=M39+B9KK01	-31w4	=M39+L9-31WE1	=M39+L9VS01-31B2	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
685	31.6	=D13+CCMD03	-31w5	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
686	31.8	=D13+CCMD03	-31w6	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
687	32.2	=M39+B9KK01	-32w1	=M39+B8-32WE1	=M39+B8SW01-32B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
688	32.1	=B02+PB	-32w1	=B02+P1GEN1-32X1	=B02+CCMC-32X7	cable PROFIBUS 2x0,64	HELU-81448	2	
689	32.2	=M30+B1KK01	-32w1	=M30+B2-32WE1	=M30+B2VS01-32B1	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
690	32 .3	=M32+P2KK01	-32w1	=M32+P2MFC21-32K1	=M32+P2KK01-32FX1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
691	32 .1	=D21+CCMC	-32w1	=D21+CCMC-X42	=E11+P1GEN11-10G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
692	32 .1	=D13+CCMD03	-32w1	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
693	32 .2	=D13+CCMD03	-32w2	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
694	32 .3	=D21+CCMC	-32w2	=D21+CCMC-X42	=E11+P2GEN11-13G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
695	32 .7	=M32+P2KK01	-32w2	=M32+P2SWL21-32X1	=M32+P2SWL21-32B1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
696	32 .1	=B02+PB	-32w2	=B02+P2GEN11-32X1	=B02+P1GEN11-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
697	32 .3	=M39+B9KK01	-32w2	=M39+B8-32WE1	=M39+B8SW20-32B1	SAC-5P-5,-0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
698	32 .3	=M30+B1KK01	-32w2	=M30+B2-32WE1	=M30+B2VS01-32B2	SAC-3P-5,-0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
699	32 .4	=M30+B1KK01	-32w3	=M30+B2-32WE1	=M30+B1GD01-32B1	SAC-4P-5,-0-PUR/M8FS sensor-cable, straight	PC-1681868+QCON male jack M12;0,34	1	
700	32 .4	=D13+CCMD03	-32w3	=D13+P2KTH02-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
701	32 .4	=M39+B9KK01	-32w3	=M39+B8-32WE1	=M39+P2SWG31-31B1	SAC-5P-5,-0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
702	32 .7	=M32+P2KK01	-32w3	=M32+P2SWL22-32X1	=M32+P2SWL22-32B1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
703	32 .4	=D21+CCMC	-32w3	=D21+CCMC-X42	=E11+P2GEN12-13G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
704	32 .1	=B02+PB	-32w3	=B02+P2GEN12-32X1	=B02+P2GEN12-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
705	32 .5	=D21+CCMC	-32w4	=D21+CCMC-X42	=E11+P2GEN21-14G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
706	32 .1	=B02+PB	-32w4	=B02+P2GEN21-32X1	=B02+P2GEN21-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
707	32 .4	=M39+B9KK01	-32w4	=M39+B8-32WE1	=M39+P2SWG32-31B1	SAC-5P-5,-0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
708	32 .6	=M30+B1KK01	-32w5	=M30+L1-32WE1	=M30+L1AL03-32B1	SAC-3P-5,-0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
709	32 .6	=D21+CCMC	-32w5	=D21+CCMC-X42	=E11+P2GEN22-15G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
710	32 .4	=B02+PB	-32w6	=B02+P2GEN31-32X1	=B02+P2GEN22-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
711	32 .7	=M30+B1KK01	-32w6	=M30+L1-32WE1	=M30+L1AL03-32B2	SAC-3P-5,-0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
712	32 .7	=D21+CCMC	-32w6	=D21+CCMC-X42	=E11+P2GEN31-16G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
713	32 .4	=B02+PB	-32w7	=B02+P2GEN32-32X1	=B02+P2GEN31-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
714	32 .8	=M30+B1KK01	-32w7	=M30+L1-32WE1	=M30+L1AL04-32B1	SAC-3P-5,-0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
715	32 .7	=D21+CCMC	-32w7	=D21+CCMC-X42	=E11+P2GEN32-16G1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
716	32 .9	=M30+B1KK01	-32w8	=M30+L1-32WE1	=M30+L1AL04-32B2	SAC-3P-5,-0-PUR/M8FS sensor-cable straight	PC-1669628+QCON male jack M12	1	
717	32 .4	=B02+PB	-32w8	=B02+P2CMD01-32X1	=B02+P2GEN32-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
718	32 .4	=B02+PB	-32w9	=B02+CCMD02-32X1	=B02+CCMD01-32X3	cable PROFIBUS 2x0,64	HELU-81448	2	
719	32 .4	=B02+PB	-32w10	=B02+CCMD03-32X1	=B02+CCMD02-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
720	32 .7	=B02+PB	-32w12	=B02+B1KK01-32X1	=B02+CCMC-32X9	cable PROFIBUS 2x0,64	HELU-81448	2	
721	32 .7	=B02+PB	-32w13	=B02+B1KK01-32X1	=B02+B1KK01-32X1	SAC-2P-M12FS profibus cable 5m	PC-1507308	2	
722	32 .7	=B02+PB	-32w14	=B02+IMFC01-32X1	=B02+B1V10I1-18K1	SAC-2P-M12MS profibus cable 10m	PC-1507269	2	
723	32 .7	=B02+PB	-32w15	=B02+B1MK01-32X1	=B02+B1MFC01-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
724	32 .7	=B02+PB	-32w16	=B02+B2PT01-32X1	=B02+B1MK01-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
725	32 .7	=B02+PB	-32w17	=B02+B1MK01-32X1	=B02+B2PT01-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
726	32 .9	=B02+PB	-32w18	=B02+HDL01-X2	=B02+B1LK01-32X2	cable PROFIBUS 2x0,64	HELU-81448	2	
727	32 .9	=B02+PB	-32w19	=B02+B1KK01-32X3	=B02+B2MK01-32X1	cable PROFIBUS 2x0,64	HELU-81448	2	
728	32 .9	=B02+PB	-32w20	=B02+B1KK01-32X4	=B02+B1LK01-32X3	cable PROFIBUS 2x0,64	HELU-81448	2	
729	32 .9	=B02+PB	-32w21	=B02+B1KK01-32X5	=B02+B1KK01-32X4	cable PROFIBUS 2x0,64	HELU-81448	2	
730	33 .6	=D11+CCMD01	-33w1	=D11+CCMD01-X23	=D11+B2PT01-33M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
731	33 .3	=M32+P2KK01	-33w1	=M32+P2MFC31-33K1	=M32+P2KK01-33FX1	cable TRONIC-CY(LiCY) 2x0,34	HELU-20056	2	
732	33 .2	=M39+B9KK01	-33w1	=M39+B9-33WE1	=M39+B9SW01-33B1	SAC-5P-5,-0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
733	33 .1	=D21+CCMC	-33w1	=E01+CCSC-X40	=D21+CCMC-X43	cable JZ-500 3x1,5	HELU-10091	3	
734	33 .2	=M30+B1KK01	-33w1	=M30+B2-33WE1	=M30+L1SW01-33B1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002+QCON-M12 male jack -0,75	1	
735	33 .1	=D13+CCMD03	-33w1	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
736	33 .2	=B02+PB	-33w1	=B02+P1KK01-33X1	=B02+CCMC-33X3	cable PROFIBUS 2x0,64	HELU-81448	2	
737	33 .7	=M32+P2KK01	-33w2	=M32+P2SWL31-33X1	=M32+P2SWL31-33B1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
738	33 .3	=M39+B9KK01	-33w2	=M39+B9-33WE1	=M39+B9SW02-33B1	SAC-5P-5,-0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
739	33 .2	=D13+CCMD03	-33w2	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
740	33 .2	=B02+PB	-33w2	=B02+P1KK01-33X2	=B02+P1KK01-33X2	SAC-2P-M12FS profibus cable 5m	PC-1507308	2	
741	33 .2	=D21+CCMC	-33w2	=E01+CCSC-X40	=D21+CCMC-X43	cable JZ-500 5x0,75	HELU-10035	5	
742	33 .3	=M30+B1KK01	-33w2	=M30+B2-33WE1	=M30+L1Sw20-33B1	SAC-4P-10,-0-PUR/M12FS sensor actuator cable 10m	PC-1683002+QCON-M12 male jack -0,75	1	

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no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
743	33.4	=D13+CCMD03	-33w3	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
744	33.7	=M32+P2KK01	-33w3	=M32+P2SWL32-33X1	=M32+P2SWL32-33B1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	3	
745	33.4	=M39+B9KK01	-33w3	=M39+B9-33WE1	=M39+B9Sw21-33B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
746	33.2	=B02+PB	-33w3	=B02+P1PT01-33X1	=B02+P1VI01-18K1	SAC-2P-M12MS profibus cable 10m	PC-1507269	2	
747	33.2	=B02+PB	-33w4	=B02+P1PT02-33X1	=B02+P1PT01-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
748	33.5	=D13+CCMD03	-33w4	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
749	33.6	=D13+CCMD03	-33w5	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
750	32.4	=B02+PB	-33w5	=B02+P2GEN2-32X1	=B02+P2GEN21-32X1	cable PROFIBUS 2x0,64	HELU-81448	4	
751	33.2	=B02+PB	-33w6	=B02+P1PT04-33X1	=B02+P1PT03-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
752	33.8	=D13+CCMD03	-33w6	=D13+P2KTH03-X1	=D13+CCMD03-XP2TH	cable JZ-500 3x1,5	HELU-10091	3	
753	33.2	=B02+PB	-33w7	=B02+P1PT07-33X1	=B02+P1PT04-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
754	33.4	=B02+PB	-33w8	=B02+P1PT08-33X1	=B02+P1PT07-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
755	33.4	=B02+PB	-33w9	=B02+P1MC01-33X1	=B02+P1PT08-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
756	33.4	=B02+PB	-33w10	=B02+P1MFC11-33X1	=B02+P1MC01-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
757	33.7	=B02+PB	-33w11	=B02+P1PT06-33X1	=B02+P1PT05-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
758	33.7	=B02+PB	-33w12	=B02+P1PT09-33X1	=B02+P1PT06-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
759	33.7	=B02+PB	-33w13	=B02+P1PT10-33X1	=B02+P1PT09-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
760	33.4	=B02+PB	-33w14	=B02+P1MFC12-33X1	=B02+P1MFC11-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
761	33.7	=B02+PB	-33w15	=B02+P1PT05-33X1	=B02+P1MFC14-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
762	33.4	=B02+PB	-33w16	=B02+P1MFC13-33X1	=B02+P1MFC12-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
763	33.4	=B02+PB	-33w17	=B02+P1MFC14-33X1	=B02+P1MFC13-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
764	33.7	=B02+PB	-33w18	=B02+PLKK01-33X1	=B02+PLKK01-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
765	34.2	=M39+B9KK01	-34w1	=M39+B9-34WE1	=M39+L9Sw01-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
766	34.2	=D21+CCMC	-34w1	=D21+CCMC-X44	=D21+L1VS01-34K1	cable JZ-500 3x0,75	HELU-10031	3	
767	34.2	=D11+CCMD01	-34w1	=D11+CCMD01-X23	=D11+P1PT01-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
768	34.2	=B02+PB	-34w1	=B02+P1-35X1	=B02+P1-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
769	34.2	=M30+B1KK01	-34w1	=M30+B2-34WE1	=M30+B1Sw01-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
770	34.3	=D21+CCMC	-34w2	=D21+CCMC-X44	=D21+L1VS01-34K2	cable JZ-500 3x0,75	HELU-10031	3	
771	34.3	=M30+B1KK01	-34w2	=M30+B2-34WE1	=M30+B1Sw02-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
772	34.3	=D11+CCMD01	-34w2	=D11+CCMD01-X23	=D11+P1PT02-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
773	34.2	=B02+PB	-34w2	=B02+P2KK01-34X1	=B02+P1-35X2	cable PROFIBUS 2x0,64	HELU-81448	2	
774	34.3	=M39+B9KK01	-34w2	=M39+B9-34WE1	=M39+L9Sw01-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
775	34.4	=D11+CCMD01	-34w3	=D11+CCMD01-X23	=D11+P1PT03-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
776	34.2	=B02+PB	-34w3	=B02+P2KK01-34X1	=B02+P2KK01-34X1	SAC-2P-M12FS profibus cable 5m	PC-1507308	2	
777	34.4	=M30+B1KK01	-34w3	=M30+B2-34WE1	=M30+B1Sw00-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
778	34.4	=M39+B9KK01	-34w3	=M39+B9-34WE1	=M39+L9Sw21-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
779	34.5	=D21+CCMC	-34w3	=D21+CCMC-X44	=D21+B1VS01-34K1	cable JZ-500 3x0,75	HELU-10031	3	
780	34.4	=M30+B1KK01	-34w4	=M30+B2-34WE1	=M30+B1Sw01-34B1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
781	34.2	=B02+PB	-34w4	=B02+P2PT01-33X1	=B02+P2VI01-18K1	SAC-2P-M12MS profibus cable 10m	PC-1507269	2	
782	34.6	=D21+CCMC	-34w4	=D21+CCMC-X44	=D21+B1VS01-34K2	cable JZ-500 3x0,75	HELU-10031	3	
783	34.6	=D11+CCMD01	-34w4	=D11+CCMD01-X23	=D11+P1PT04-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
784	34.7	=D21+CCMC	-34w5	=D21+CCMC-X44	=D21+B2VS01-34K1	cable JZ-500 3x0,75	HELU-10031	3	
785	34.2	=B02+PB	-34w5	=B02+P2PT02-33X1	=B02+P2PT01-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
786	34.7	=D11+CCMD01	-34w5	=D11+CCMD01-X23	=D11+P1PT05-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
787	34.8	=D21+CCMC	-34w6	=D21+CCMC-X44	=D21+B2VS01-34K2	cable JZ-500 3x0,75	HELU-10031	3	
788	34.7	=D11+CCMD01	-34w6	=D11+CCMD01-X23	=D11+P1PT06-34M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
789	34.2	=B02+PB	-34w6	=B02+P2PT03-33X1	=B02+P2PT02-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
790	34.2	=B02+PB	-34w7	=B02+P2PT04-33X1	=B02+P2PT03-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
791	34.2	=B02+PB	-34w8	=B02+P2PT05-33X1	=B02+P2PT04-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
792	34.4	=B02+PB	-34w9	=B02+P2PT06-33X1	=B02+P2PT05-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
793	34.4	=B02+PB	-34w10	=B02+P2MC01-34X1	=B02+P2PT06-33X1	cable PROFIBUS 2x0,64	HELU-81448	2	
794	34.4	=B02+PB	-34w11	=B02+P2MFC11-34X1	=B02+P2MC01-34X1	cable PROFIBUS 2x0,64	HELU-81448	2	
795	34.4	=B02+PB	-34w12	=B02+P2MFC12-34X1	=B02+P2MFC11-34X1	cable PROFIBUS 2x0,64	HELU-81448	2	

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
796	34 .4	=B02+PB	-34w13	=B02+P2MFC13-34x1	=B02+P2MFC12-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
797	34 .4	=B02+PB	-34w14	=B02+P2MFC14-34x1	=B02+P2MFC13-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
798	34 .4	=B02+PB	-34w15	=B02+P2MFC21-34x1	=B02+P2MFC14-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
799	34 .4	=B02+PB	-34w16	=B02+P2MFC22-34x1	=B02+P2MFC21-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
800	34 .4	=B02+PB	-34w17	=B02+P2MFC23-34x1	=B02+P2MFC22-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
801	34 .6	=B02+PB	-34w18	=B02+P2MFC24-34x1	=B02+P2MFC23-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
802	34 .6	=B02+PB	-34w19	=B02+P2MFC31-34x1	=B02+P2MFC24-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
803	34 .6	=B02+PB	-34w20	=B02+P2MFC32-34x1	=B02+P2MFC31-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
804	34 .6	=B02+PB	-34w21	=B02+P2MFC33-34x1	=B02+P2MFC32-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
805	34 .6	=B02+PB	-34w22	=B02+P2MFC34-34x1	=B02+P2MFC33-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
806	34 .6	=B02+PB	-34w23	=B02+P2KK01-34x2	=B02+P2MFC34-34x1	cable PROFIBUS 2x0,64	HELU-81448	2	
807	35 .2	=B02+PB	-35w1	=B02+P2-35x1	=B02+P2-35x1	cable PROFIBUS 2x0,64	HELU-81448	2	
808	35 .2	=D11+CCMD01	-35w1	=D11+CCMD01-X23	=D11+P1PT07-35M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
809	35 .1	=D13+CCMD03	-35w1	=D13+CCMD03-X3	=D13+CCMD03-35S1	cable JZ-500 3x0,5	HELU-10002	1	
810	35 .2	=M30+B1KK01	-35w1	=M30+B2-35W1	=M30+B2S01-35B1	SAC-SP-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
811	35 .2	=D21+CCMC	-35w1	=D21+CCMC-X44	=D21+B8VS01-35K1	cable JZ-500 3x0,75	HELU-10031	3	
812	35 .1	=D13+CCMD03	-35w2	=D13+CCMD03-X3	=D13+CCMD03-35S1	cable JZ-500 3x0,5	HELU-10002	5	
813	35 .2	=B02+PB	-35w2	=B02+B9KK01-35X1	=B02+P2-35x2	cable PROFIBUS 2x0,64	HELU-81448	2	
814	35 .3	=M30+B1KK01	-35w2	=M30+B2-35W1	=M30+B2S02-35B1	SAC-SP-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669648+QCON male jack M12	1	
815	35 .2	=D21+CCMC	-35w2	=D21+CCMC-X44	=D21+B8VS01-35K2	cable JZ-500 3x0,75	HELU-10031	3	
816	35 .3	=D11+CCMD01	-35w2	=D11+CCMD01-X23	=D11+P1PT08-35M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
817	35 .2	=B02+PB	-35w3	=B02+B9KK01-35X1	=B02+B9KK01-35X1	SAC-2P-M12FS profibus cable 5m	PC-1507308	2	
818	35 .4	=D11+CCMD01	-35w3	=D11+CCMD01-X23	=D11+P1PT09-35M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
819	35 .5	=D13+CCMD03	-35w3	=D13+CCMD03-X3	=D13+CCMD03-35E1	cable JZ-500 5x0,5	HELU-10006	5	
820	35 .3	=D21+CCMC	-35w3	=D21+CCMC-X44	=D21+B8VS01-35K1	cable JZ-500 3x0,75	HELU-10031	3	
821	35 .6	=D11+CCMD01	-35w4	=D11+CCMD01-X23	=D11+P1PT10-35M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
822	35 .4	=D21+CCMC	-35w4	=D21+CCMC-X44	=D21+B8VS01-35K2	cable JZ-500 3x0,75	HELU-10031	3	
823	35 .2	=B02+PB	-35w4	=B02+B9MFC01-35X1	=B02+B9V01-18K1	SAC-2P-ML2MSA profibus cable 10m	PC-1507269	2	
824	35 .2	=B02+PB	-35w5	=B02+B8MK01-35X1	=B02+B9MFC01-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
825	35 .7	=D21+CCMC	-35w5	=D21+CCMC-X44	=D21+L9VS01-35K1	cable JZ-500 3x0,75	HELU-10031	3	
826	35 .8	=D21+CCMC	-35w6	=D21+CCMC-X44	=D21+L9VS01-35K2	cable JZ-500 3x0,75	HELU-10031	3	
827	35 .2	=B02+PB	-35w6	=B02+B8PT01-35X1	=B02+B8MK01-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
828	35 .2	=B02+PB	-35w7	=B02+B9MK01-35X1	=B02+B8PT01-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
829	35 .2	=B02+PB	-35w8	=B02+B9MK01-35X1	=B02+B9MK01-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
830	35 .7	=B02+PB	-35w9	=B02+BHL02-X2	=B02+B9KK01-35X2	cable PROFIBUS 2x0,64	HELU-81448	2	
831	35 .4	=B02+PB	-35w10	=B02+B9KK01-35X3	=B02+B9PT01-35X1	cable PROFIBUS 2x0,64	HELU-81448	2	
832	35 .4	=B02+PB	-35w11	=B02+CCRM-11X1	=B02+B9KK01-35X3	cable PROFIBUS 2x0,64	HELU-81448	2	
833	36 .2	=D11+CCMD01	-36w1	=D11+CCMD01-X23	=D11+P2PT01-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
834	36 .0	=M30+B1KK01	-36w1	=M30+B1KK01-X32	=M30+T1HM01-36S1	cable JZ-500 7x0,5	HELU-10009	7	
835	36 .1	=D21+CCMC	-36w1	=D21+CCMC-X44	=E21+CCOS-11S3	cable JZ-500 7x0,5	HELU-10009	7	
836	36 .0	=M39+B9KK01	-36w1	=M39+B9KK01-X32	=M39+T9HM01-36S1	cable JZ-500 7x0,5	HELU-10009	7	
837	36 .5	=M39+B9KK01	-36w2	=M39+B9KK01-X32	=M39+T9HM01-36S1	cable JZ-500 7x0,5	HELU-10009	7	
838	36 .3	=D11+CCMD01	-36w2	=D11+CCMD01-X23	=D11+P2PT02-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
839	36 .2	=D21+CCMC	-36w2	=D21+CCMC-X44	=D21+P1VB11-36Q1	cable JZ-500 7x0,5	HELU-10009	7	
840	36 .4	=D11+CCMD01	-36w3	=D11+CCMD01-X23	=D11+P2PT03-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
841	36 .6	=D11+CCMD01	-36w4	=D11+CCMD01-X23	=D11+P2PT04-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
842	36 .7	=D11+CCMD01	-36w5	=D11+CCMD01-X23	=D11+P2PT05-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
843	36 .7	=D11+CCMD01	-36w6	=D11+CCMD01-X23	=D11+P2PT06-36M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
844	37 .2	=M39+B9KK01	-37w1	=M39+B9KK01-37X1	=M39+L9MT01-37B1	Kabel Stecker/Buchse HD 15polig L=10m	102124033	1	
845	37 .4	=M30+B1KK01	-37w1	=M30+B1KK01-37X1	=M30+L1MT01-37B1	Kabel Stecker/Buchse HD 15polig L=10m	102124033	1	
846	37 .4	=M39+B9KK01	-37w2	=M39+B9KK01-37X2	=M39+L9MT02-37B1	Kabel Stecker/Buchse HD 15polig L=10m	102124033	1	
847	37 .6	=M30+B1KK01	-37w2	=M30+B1KK01-37X2	=M30+L1MT02-37B1	Kabel Stecker/Buchse HD 15polig L=10m	102124033	1	
848	40 .4	=D11+CCMD01	-37w6	=D13+CCMD03-X22	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	2	

## list of cables

no.	Pfad	locate	cable	initial point	field device	typ of cable	stock number	conduct	description
849	38.2	=M39+B9KK01	-38W1	=M39+B9KK01-XP	=M39+B9MFC01-38K1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	4	
850	38.2	=M30+B1KK01	-38w1	=M30+B1KK01-XP	=M30+B1MFC01-38K1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056+Sub-D 9pol. Buchse, Lötk.	2	
851	38.4	=M30+B1KK01	-38w2	=M30+B1KK01-XP	=M30+B1MK01-38B1	SACC-M8FS-4PCON female jack, straight	PC-1506781+LiYCY 4x0,34	2	
852	38.7	=D11+CCMD01	-38w2	=D11+CCMD01-X23	=D11+B8PT01-38M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
853	38.4	=M39+B9KK01	-38w2	=M39+B9KK01-XP	=M39+B8MK01-38B1	SACC-M8FS-4PCON female jack, straight	PC-1506781+LiYCY 4x0,34	4	
854	38.6	=M30+B1KK01	-38w3	=M30+B1KK01-XP	=M30+B2MK01-38B1	SACC-M8FS-4PCON female jack, straight	PC-1506781+LiYCY 4x0,34	2	
855	38.6	=M39+B9KK01	-38w3	=M39+B9KK01-XP	=M39+B9MK01-38B1	SACC-M8FS-4PCON female jack, straight	PC-1506781+LiYCY 4x0,34	2	
856	38.7	=D11+CCMD01	-38w3	=D11+CCMD01-X23	=D11+B8PT01-38M1	cable JZ-500 3x1,5	HELU-10091 + female jack Quickon	3	
857	39.4	=M39+B9KK01	-39w1	=M39+B9KK01-39X1	=M39+B9KK01-39X1	cable JZ-500 7x0,5	HELU-10009+SUB-D Stecker 15polig	7	
858	39.4	=M30+B1KK01	-39w1	=M30+B1KK01-39X1	=M30+B1KK01-39X1	cable JZ-500 7x0,5	HELU-10009+SUB-D Stecker 15polig	7	
859	39.5	=M39+B9KK01	-39w2	=M39+B8-39X1	=M39+VLMS01-39B1	cable grade cable RJ 45/ 2m	HELU-80349	1	
860	39.5	=M30+B1KK01	-39w2	=M30+B2-39X1	=M30+V1MS01-39B1	cable grade cable RJ 45/ 2m	HELU-80349	1	
861	40.2	=M39+B9KK01	-40w1	=M39+B9KK01-12K5	=M39+L9TH01-40E1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	1	
862	40.0	=D21+CCMC	-40w1	=D21+CCMC-X33	=D21+CCMC-40S1	cable JZ-500 3x0,5	HELU-10002	3	
863	40.1	=D21+CCMC	-40w2	=D21+CCMC-X33	=D21+CCMC-40S2	cable JZ-500 3x0,5	HELU-10002	3	
864	40.4	=M39+B9KK01	-40w2	=M39+B9KK01-12K5	=M39+L9TH01-40B2	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	1	
865	40.3	=D21+CCMC	-40w3	=D21+CCMC-X33	=D21+CCMC-40E1	cable JZ-500 5x0,5	HELU-10006	5	
866	40.6	=D21+CCMC	-40w4	=E01+CSCC-X32	=D21+CCMC-X33	cable JZ-500 5x0,5	HELU-10006	5	
867	40.4	=D11+CCMD01	-40w4	=D13+CCMD03-X22	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	3	
868	40.5	=D11+CCMD01	-40w5	=D21+CCMC-X24	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	3	
869	40.5	=D11+CCMD01	-40w6	=E01+CSCC-X2	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	1	
870	41.2	=M39+B9KK01	-41w1	=M39+B9KK01-41X1	=M39+L9AL01-41K1	cable JZ-500 3x0,75	HELU-10031	3	
871	41.2	=M30+B1KK01	-41w1	=M30+B1KK01-41X1	=M30+L1AL01-41K1	cable JZ-500 3x0,75	HELU-10031	3	
872	41.1	=D21+CCMC	-41w1	=D21+CCMC-X31	=D21+WAB-41M1	cable JZ-500 5x0,5	HELU-10006	5	
873	41.2	=D11+CCMD01	-41w1	=D21+CCMC-X0	=D11+CCMD01-X13	cable JZ-500 5x6	HELU-10149	5	
874	41.3	=M39+B9KK01	-41w2	=M39+B9KK01-41X1	=M39+L9AL01-41K2	cable JZ-500 3x0,75	HELU-10031	3	
875	41.3	=D21+CCMC	-41w2	=D21+CCMC-X31	=D21+WAB-41M1	cable JZ-500 5x0,5	HELU-10006	5	
876	41.4	=D11+CCMD01	-41w2	=C01+CCMS-X2	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	3	
877	41.3	=M30+B1KK01	-41w2	=M30+B1KK01-41X1	=M30+L1AL01-41K2	cable JZ-500 3x0,75	HELU-10031	3	
878	41.5	=M30+B1KK01	-41w3	=M30+B1KK01-41X1	=M30+L1AL02-41K1	cable JZ-500 3x0,75	HELU-10031	3	
879	41.5	=D11+CCMD01	-41w3	=C01+CCMS-X2	=D11+CCMD01-X23	cable JZ-500 3x1,5	HELU-10091	3	
880	41.5	=M39+B9KK01	-41w3	=M39+B9KK01-41X1	=M39+L9AL02-41K1	cable JZ-500 3x0,75	HELU-10031	3	
881	41.6	=M30+B1KK01	-41w4	=M30+B1KK01-41X1	=M30+L1AL02-41K2	cable JZ-500 3x0,75	HELU-10031	3	
882	41.6	=M39+B9KK01	-41w4	=M39+B9KK01-41X1	=M39+L9AL02-41K2	cable JZ-500 3x0,75	HELU-10031	3	
883	42.2	=D13+CCMD03	-42w1	=C01+CCMS-XAS	=D13+CCMD03-XAS	cable ASi-BUS EPDM yellow 2x1,5	HELU-80824	2	
884	42.0	=D11+CCMD01	-42w1	=D11+CCMD01-X33	=D11+CCMD01-42S1	cable JZ-500 3x0,75	HELU-10031	3	
885	42.1	=D11+CCMD01	-42w2	=D11+CCMD01-X33	=D11+CCMD01-42S2	cable JZ-500 3x0,75	HELU-10031	3	
886	42.4	=D11+CCMD01	-42w3	=D11+CCMD01-X33	=D11+CCMD01-42E1	cable JZ-500 5x0,5	HELU-10006	5	
887	42.3	=D11+CCMD01	-42w4	=D11+CCMD01-X24	=D11+CCMD01-42E1	cable JZ-500 3x1,5	HELU-10091	3	
888	44.3	=D11+CCMD01	-44w1	=D11+CCMD01-X23	=D11+L1PV01-47T1	cable JZ-500 3x1,5	HELU-10091	3	
889	44.4	=D11+CCMD01	-44w2	=D11+CCMD01-X23	=D11+L1PV01-49T1	cable JZ-500 3x1,5	HELU-10091	3	
890	44.5	=D11+CCMD01	-44w3	=D11+CCMD01-X23	=D11+L9PV01-48T1	cable JZ-500 3x1,5	HELU-10091	3	
891	45.1	=D21+CCMC	-45w1	=D21+CCMC-45X1	=D21+VLMT01-45B1	kabel Stecker/Buchse HD 15polig L=10m	102124033	1	
892	45.3	=D21+CCMC	-45w2	=D21+CCMC-X32	=D21+VLV01-45Q1	cable JZ-500 5x0,5	HELU-10006	5	
893	45.4	=D21+CCMC	-45w3	=D21+CCMC-X32	=D21+VLV01-45V2	cable TRONIC (LiYY) 4x0,34	HELU-18059	4	
894	46.1	=D21+CCMC	-46w1	=D21+CCMC-X32	=D21+VLSL01-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058+M12-Stecker/Buchse	4	
895	46.2	=D11+CCMD01	-46w1	=D12+CCMD02-X30	=D11+CCMD01-X34	cable JZ-500 5x2,5	HELU-10125	5	
896	46.1	=D21+CCMC	-46w2	=D21+CCMC-X32	=D21+VLSL02-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	
897	46.3	=D11+CCMD01	-46w2	=D13+CCMD03-X30	=D11+CCMD01-X34	cable JZ-500 5x2,5	HELU-10125	5	
898	46.2	=D21+CCMC	-46w3	=D21+CCMC-X32	=D21+WAB_GP01-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	
899	46.3	=D21+CCMC	-46w4	=D21+CCMC-X32	=D21+WAB_GP02-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	
900	46.4	=D21+CCMC	-46w5	=D21+CCMC-X32	=D21+WAB_GP03-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	
901	46.5	=D21+CCMC	-46w6	=D21+CCMC-X32	=D21+WAB_GP04-46B1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	4	



## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	20.1	=B02+P1-20F1	758022 Erdungsstab für Hochspann.-geräte	DD000545	Dehn& Söhne	
2	1	20.2	=B02+ES-20W1	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
3	1	20.2	=B02+ES-20W2	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
4	1	20.2	=B02+ES-20W4	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
5	1	20.2	=B02+ES-20W3	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
6	1	20.4	=B02+ES-20W12	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
7	1	20.4	=B02+ES-20W35	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
8	1	20.4	=B02+ES-20W36	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
9	1	20.4	=B02+ES-20W37	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
10	1	20.4	=B02+ES-20W38	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
11	1	20.4	=B02+ES-20W39	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
12	1	20.4	=B02+ES-20W41	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
13	1	20.4	=B02+ES-20W43	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
14	1	20.4	=B02+ES-20W44	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
15	1	20.4	=B02+ES-20W45	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
16	1	20.4	=B02+ES-20W34	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
17	1	20.4	=B02+ES-W25mm <sup>2</sup>	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
18	1	20.4	=B02+ES-20W40	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
19	1	20.4	=B02+ES-20W21	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
20	1	20.4	=B02+ES-20W25	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
21	1	20.4	=B02+ES-20W26	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
22	1	20.4	=B02+ES-20W33	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
23	1	20.4	=B02+ES-20W47	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
24	1	20.4	=B02+ES-20W46	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
25	1	20.4	=B02+ES-20W7	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
26	1	20.4	=B02+ES-20W5	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
27	1	20.4	=B02+ES-20W42	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
28	1	20.4	=B02+ES-20W6	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
29	1	20.4	=B02+ES-20W31	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
30	1	20.4	=B02+ES-20W4	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
31	1	20.4	=B02+ES-20W9	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
32	1	20.4	=B02+ES-20W10	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
33	1	20.4	=B02+ES-20W11	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
34	1	20.4	=B02+ES-20W14	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
35	1	20.4	=B02+ES-20W15	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
36	1	20.4	=B02+ES-20W29	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
37	1	20.4	=B02+ES-20W18	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
38	1	20.4	=B02+ES-20W19	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
39	1	20.4	=B02+ES-20W20	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
40	1	20.4	=B02+ES-20W16	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
41	1	20.4	=B02+ES-20W23	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
42	1	20.4	=B02+ES-20W24	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
43	1	20.4	=B02+ES-20W28	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
44	1	20.4	=B02+ES-20W30	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
45	1	21.1	=B02+P2-21F1	758022 Erdungsstab für Hochspann.-geräte	DD000545	Dehn& Söhne	
46	1	21.2	=B02+ES-21W1	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
47	1	21.2	=B02+ES-21W3	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
48	1	21.2	=B02+ES-21W2	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
49	1	21.4	=B02+ES-21W40	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
50	1	21.4	=B02+ES-21W31	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
51	1	21.4	=B02+ES-21W35	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
52	1	21.4	=B02+ES-21W29	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
53	1	21.4	=B02+ES-21W36	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	

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			check							
cond.	alter.	date	name	norm						sheet 1 of 87 <=M39/41 2 >

## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
54	1	21.4	=B02+ES-21w37	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
55	1	21.4	=B02+ES-21w38	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
56	1	21.4	=B02+ES-21w41	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
57	1	21.4	=B02+ES-21w42	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
58	1	21.4	=B02+ES-21w13	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
59	1	21.4	=B02+ES-21w14	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
60	1	21.4	=B02+ES-21w33	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
61	1	21.4	=B02+ES-21w28	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
62	1	21.4	=B02+ES-21w27	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
63	1	21.4	=B02+ES-21w32	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
64	1	21.4	=B02+ES-21w7	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
65	1	21.4	=B02+ES-21w11	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
66	1	21.4	=B02+ES-21w10	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
67	1	21.4	=B02+ES-21w26	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
68	1	21.4	=B02+ES-21w8	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
69	1	21.4	=B02+ES-21w6	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
70	1	21.4	=B02+ES-21w5	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
71	1	21.4	=B02+ES-21w4	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
72	1	21.4	=B02+ES-21w25	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
73	1	21.4	=B02+ES-21w18	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
74	1	21.4	=B02+ES-21w19	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
75	1	21.4	=B02+ES-21w20	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
76	1	21.4	=B02+ES-21w12	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
77	1	21.4	=B02+ES-21w21	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
78	1	21.4	=B02+ES-21w30	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
79	1	21.4	=B02+ES-21w17	single wire-H07V-K 50mm <sup>2</sup> gn/ye	HELU-29258	HELUKABEL	
80	1	21.4	=B02+ES-21w9	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
81	1	31.3	=B02+CCMC-31x3	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
82	1	31.3	=B02+PB-31w4	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
83	1	31.3	=B02+PB-31w3	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
84	1	31.3	=B02+PB-31w2	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
85	1	31.3	=B02+PB-31w1	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
86	1	31.3	=B02+CCSC-31x4	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
87	1	31.3	=B02+CCSC-31x3	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
88	1	31.3	=B02+CCSC-31x2	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
89	1	31.3	=B02+CCMC-31x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
90	1	31.3	=B02+CCSC-31x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
91	1	31.3	=B02+CCMC-31x2	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	
92	1	32.1	=B02+P1GEN11-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
93	1	32.1	=B02+CCMC-32x7	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
94	1	32.1	=B02+CCMC-32x5	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
95	1	32.1	=B02+CCMC-32x4	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
96	1	32.1	=B02+CCMC-32x3	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
97	1	32.1	=B02+PB-32w4	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
98	1	32.1	=B02+PB-32w3	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
99	1	32.1	=B02+PB-32w2	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
100	1	32.1	=B02+PB-32w1	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
101	1	32.1	=B02+CCMC-32x2	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
102	1	32.1	=B02+P2GEN21-32x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
103	1	32.1	=B02+P2GEN12-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
104	1	32.1	=B02+P2GEN11-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
105	1	32.1	=B02+CCMC-32x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
106	1	32.1	=B02+CCMC-32x6	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	
107	1	32.3	=B02+CCMD03-32x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
108	1	32.3	=B02+P2GEN32-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
109	1	32.3	=B02+P2GEN31-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
110	1	32.3	=B02+CCMD02-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
111	1	32.3	=B02+CCMD01-32x3	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
112	1	32.3	=B02+P2GEN22-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
113	1	32.3	=B02+CCMD01-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
114	1	32.3	=B02+CCMD01-32x2	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	
115	1	32.4	=B02+PB-32w7	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
116	1	32.4	=B02+PB-32w10	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
117	1	32.4	=B02+PB-32w9	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
118	1	32.4	=B02+PB-32w8	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
119	1	32.4	=B02+PB-32w6	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
120	1	32.4	=B02+PB-33w5	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
121	1	32.6	=B02+CCMC-32x9	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
122	1	32.6	=B02+B2MK01-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
123	1	32.6	=B02+B1MK01-32x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
124	1	32.6	=B02+B1MFC01-32x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
125	1	32.6	=B02+B1KK01-32x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
126	1	32.6	=B02+CCMC-32x8	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	
127	1	32.6	=B02+B2PT01-32x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
128	1	32.7	=B02+PB-32w14	SAC-2P-M12MSB profibus cable 10m	PC-1507269	PHOENIX CONTACT	
129	1	32.7	=B02+PB-32w12	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
130	1	32.7	=B02+PB-32w17	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
131	1	32.7	=B02+PB-32w15	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
132	1	32.7	=B02+PB-32w13	SAC-2P-M12FSB profibus cable 5m	PC-1507308	PHOENIX CONTACT	
133	1	32.7	=B02+PB-32w16	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
134	1	32.8	=B02+B1KK01-32x3	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
135	1	32.8	=B02+B1KK01-32x4	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
136	1	32.8	=B02+B1KK01-32x5	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
137	1	32.8	=B02+B1KK01-32x2	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
138	1	32.9	=B02+PB-32w21	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
139	1	32.9	=B02+PB-32w20	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
140	1	32.9	=B02+PB-32w19	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
141	1	32.9	=B02+PB-32w18	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
142	1	33.2	=B02+CCMC-33x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
143	1	33.2	=B02+PB-33w7	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
144	1	33.2	=B02+PB-33w6	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
145	1	33.2	=B02+PB-33w2	SAC-2P-M12FSB profibus cable 5m	PC-1507308	PHOENIX CONTACT	
146	1	33.2	=B02+PB-33w4	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
147	1	33.2	=B02+PB-33w3	SAC-2P-M12MSB profibus cable 10m	PC-1507269	PHOENIX CONTACT	
148	1	33.2	=B02+P1KK01-33x2	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
149	1	33.2	=B02+P1KK01-33x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
150	1	33.2	=B02+PB-33w1	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
151	1	33.2	=B02+CCMC-33x3	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
152	1	33.2	=B02+CCMC-33x2	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	

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			check							
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no.	pce.	sheet	reference	designation	stock number	manufacturer
153	1	33.2	=B02+P1PT01-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
154	1	33.2	=B02+P1PT02-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
155	1	33.2	=B02+P1PT03-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
156	1	33.2	=B02+P1PT04-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
157	1	33.2	=B02+P1PT07-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
158	1	33.4	=B02+PB-33w14	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
159	1	33.4	=B02+P1MFC11-33x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT
160	1	33.4	=B02+P1MC01-33x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT
161	1	33.4	=B02+PB-33w16	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
162	1	33.4	=B02+PB-33w17	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
163	1	33.4	=B02+P1MFC14-33x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT
164	1	33.4	=B02+P1MFC13-33x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT
165	1	33.4	=B02+P1MFC12-33x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT
166	1	33.4	=B02+PB-33w10	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
167	1	33.4	=B02+PB-33w9	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
168	1	33.4	=B02+PB-33w8	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
169	1	33.4	=B02+P1PT08-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
170	1	33.7	=B02+PB-33w11	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
171	1	33.7	=B02+PB-33w13	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
172	1	33.7	=B02+PB-33w15	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
173	1	33.7	=B02+PB-33w18	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
174	1	33.7	=B02+P1KK01-33x2	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT
175	1	33.7	=B02+PB-33w12	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
176	1	33.7	=B02+P1PT09-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
177	1	33.7	=B02+P1PT06-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
178	1	33.7	=B02+P1PT05-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
179	1	33.7	=B02+P1PT10-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT
180	1	34.2	=B02+PB-34w3	SAC-2P-M2FSB profibus cable 5m	PC-1507308	PHOENIX CONTACT
181	1	34.2	=B02+PB-34w4	SAC-2P-M2MSB profibus cable 10m	PC-1507269	PHOENIX CONTACT
182	1	34.2	=B02+P2KK01-34x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT
183	1	34.2	=B02+P1-35x2	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT
184	1	34.2	=B02+PB-34w1	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL
185	1	34.2	=B02+PB-34w2	cable PROFIBUS 2x0,64	HELU-81448	HELIKABEL

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
186	1	34.2	=B02+P2KK01-34x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
187	1	34.2	=B02+PB-34w8	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
188	1	34.2	=B02+PB-34w7	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
189	1	34.2	=B02+PB-34w6	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
190	1	34.2	=B02+PB-34w5	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
191	1	34.2	=B02+P2PT01-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
192	1	34.2	=B02+P2PT02-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
193	1	34.2	=B02+P2PT03-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
194	1	34.2	=B02+P2PT04-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
195	1	34.2	=B02+P2PT05-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
196	1	34.2	=B02+P1-35x1	Subcon-Plus-Profibus/AX/SC plug	PC-2744380	PHOENIX CONTACT	
	1			gender changer 2x9-pol. Sub-D socket	102065114	REICHELT	
197	1	34.4	=B02+P2MFC21-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
198	1	34.4	=B02+PB-34w12	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
199	1	34.4	=B02+PB-34w17	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
200	1	34.4	=B02+PB-34w11	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
201	1	34.4	=B02+PB-34w13	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
202	1	34.4	=B02+PB-34w16	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
203	1	34.4	=B02+PB-34w15	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
204	1	34.4	=B02+PB-34w14	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
205	1	34.4	=B02+P2MFC13-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
206	1	34.4	=B02+PB-34w10	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
207	1	34.4	=B02+PB-34w9	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
208	1	34.4	=B02+P2MFC11-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
209	1	34.4	=B02+P2MC01-34x1	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	
210	1	34.4	=B02+P2MFC14-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
211	1	34.4	=B02+P2MFC22-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
212	1	34.4	=B02+P2MFC23-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
213	1	34.4	=B02+P2MFC12-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
214	1	34.4	=B02+P2PT06-33x1	P 4723 015 Y-Connector for Profibus	102140572	Pfeiffer Vacuum GmbH	
	1			SACC-M12FRB-5CON-PG 9-SH female jack, angled	PC-1430420	PHOENIX CONTACT	
	1			SACC-M12MRB-5CON-PG 9-SH male, angled	PC-1430417	PHOENIX CONTACT	
215	1	34.6	=B02+PB-34w20	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
216	1	34.6	=B02+PB-34w22	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
217	1	34.6	=B02+PB-34w23	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
218	1	34.6	=B02+PB-34w21	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
219	1	34.6	=B02+P2MFC33-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
220	1	34.6	=B02+PB-34w18	cable PROFIBUS 2x0,64	HELU-81448	HELUKABEL	
221	1	34.6	=B02+P2MFC34-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
222	1	34.6	=B02+P2MFC32-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
223	1	34.6	=B02+P2MFC31-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
224	1	34.6	=B02+P2MFC24-34x1	SUBCON-PLUS-PROFIBUS/SC2 w. spring terminal	PC-2708232	PHOENIX CONTACT	
225	1	34.6	=B02+P2KK01-34x2	Subcon-Plus-Profibus/PG/SC2 plug	PC-2708245	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.1	=C01+CCMS-6U1	TS cabinet 800x2200x600 RAL 7035 w. MPL	RIT-8906500_S.	RITTAL	
2	1	6.1	=C01+CCMS-6U2	TS cabinet 600x2200x600 RAL 7035 w. MPL	RIT-8626500	RITTAL	
3	1	6.1	=C01+CCMS-6U4	TS Topmount module w800xH200xD600mm RAL7035	RIT-8801745	RITTAL	
4	1	6.1	=C01+CCMS-6U5	TS topmount module H200xW600xD600	RIT-8801735	RITTAL	
5	1	6.1	=C01+CCMS-6U3	TS side panel (H2200, D600) RAL7035	RIT-8126235	RITTAL	
	1			TS side panel (H2200, D600) RAL7035	RIT-8126235	RITTAL	
6	1	6.1	=C01+CCMS-6U6	TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
	1			TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
7	1	10.2	=C01+CCMS-X1	power bus bar E-Cu double-T-profile, 1250A, 500mm <sup>2</sup>	01224	wöhner	E123577
	12			busbar support 1-pole, 1600A	01876	wöhner	E123577
	4			spread terminal 95-185qmm	01318	wöhner	E123577
	6			spread terminal 150-300qmm	01760	wöhner	E123577
8	1	10.3	=C01+CCMS-10WSV1	connecting set, 3-pole, for cables 120-300qmm	01537	RITTAL	E123577
	3			power bus bar E-Cu double-T-profile, 1250A, 500mm <sup>2</sup>	01224	wöhner	E123577
	2			base plate UL, 1100 mm wide	01518	wöhner	E123577
	9			profile terminal 55x28 powerClip	01069	wöhner	E123577
	4			busbar support 3-pole, 1600A	01231	wöhner	E123577
	2			end cover	01234	wöhner	E123577
	5			power bus bar Cu siped tread 5x32x1,0	552650	Erico	
9	1	10.4	=C01+CCMS-10WSV2	connecting set, 3-pole, for cables 120-300qmm	01537	RITTAL	E123577
10	10	10.5	=C01+CCMS-X1	spread terminal 150-300qmm	01760	wöhner	E123577
11	1	10.5	=C01+CCMS-10WSV3	connecting set, 3-pole, for cables 120-300qmm	01537	RITTAL	E123577
12	1	11.0	=C01+CCMS-11Q1	power switch VL400 UL, TYP JG UL489	SIE-3VL4140-1GE30-2PB1	SIEMENS	UL E10848
	1			Max-Flex; hand gear; complete; VL400UL; VL400XUL	SIE-3VL9400-3JMO1	SIEMENS	E69455
	1			tilting lever extension	SIE-3VL9400-3HN01	SIEMENS	
	1			wrap-around terminal 3 piece; VL400UL	SIE-3VL9460-4TC31	SIEMENS	
	1			connectriion bars front side VL400	SIE-3VL9400-4EC30	SIEMENS	
	1			cover for connection IP30; VL400UL; VL400X	SIE-3VL9400-8CA31	SIEMENS	
	1			cover for connection IP30; standard; VL400UL; VL400XUL	SIE-3VL9400-8CB31	SIEMENS	
	3			partition wall for phases 2 pc.; VL400UL; VL400XUL; VL400UL	SIE-3VL9400-8CE01	SIEMENS	E69455
13	1	11.1	=C01+CCMS-11W1	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
14	1	11.1	=C01+CCMS-11W4	cable, H07 RN-F 1 x 95	HELU-37011	HELIKABEL	
15	1	11.1	=C01+CCMS-11W3	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
16	1	11.1	=C01+CCMS-11W2	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
17	1	11.2	=C01+CCMS-11W5	cable, H07 RN-F 1 x 95	HELU-37011	HELIKABEL	
18	4	11.2	=C01+CCMS-X1	spread terminal 95-185qmm	01318	wöhner	E123577
19	1	11.2	=C01+CCMS-11W6	cable, H07 RN-F 1 x 95	HELU-37011	HELIKABEL	
20	6	11.4	=C01+CCMS-X2	terminal WKFN_2,5_SL/35	56.703.9055.0	wieland	
21	12	11.4	=C01+CCMS-X2	terminal WKFN_2,5/35_grey	56.703.0055.0	wieland	
22	1	11.4	=C01+CCMS-11F1	fuse holder for CC-fuses 3-Pole	3NW7533-0HG	SIEMENS	
	3			SICH.EINSATZ KLASSE CC 16A	3NW1100-0HG	SIEMENS	
23	1	12.0	=C01+CCMS-12W1	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
24	1	12.0	=C01+CCMS-12Q1	power switch VL400 UL, TYP JG UL489	SIE-3VL4140-1GE30-2PB1	SIEMENS	UL E10848
	1			power switch VL400 UL, TYP JG UL489	SIE-3VL4140-1GE30-2PB1	SIEMENS	UL E10848
	1			motor drive for VL400UL; VL400X	SIE-3VL9600-3MQ01	SIEMENS	
	1			multiple terminal 3 pieces; VL400XUL	SIE-3VL9460-4TY31	SIEMENS	
	1			connectriion bars front side VL400	SIE-3VL9400-4EC30	SIEMENS	
	1			cover for connection IP30; standard; VL400UL; VL400XUL	SIE-3VL9400-8CB31	SIEMENS	
	3			partition wall for phases 2 pc.; VL400UL; VL400XUL; VL400UL	SIE-3VL9400-8CE01	SIEMENS	E69455
25	1	12.1	=C01+CCMS-12W4	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
26	1	12.1	=C01+CCMS-12W5	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
27	1	12.1	=C01+CCMS-12W3	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	
28	1	12.1	=C01+CCMS-12W2	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELIKABEL	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
29	1	12.1	=C01+CCMS-12W6	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELUKABEL	
30	1	12.2	=C01+CCMS-12W7	cable, H07 RN-F 1 x 95	HELU-37011	HELUKABEL	
31	1	12.2	=C01+CCMS-12W8	cable, H07 RN-F 1 x 95	HELU-37011	HELUKABEL	
32	1	12.4	=C01+CCMS-12K1	3RH1122-1B840 Hilfsschütz	3RH1122-1B840	SIEMENS	
33	1	12.5	=C01+CCMS-12Z1	varistor 24VDC	3RT1916-1B800-Z	SIEMENS	
34	1	12.7	=C01+CCMS-12Z2	varistor 24VDC	3RT1916-1B800-Z	SIEMENS	
35	1	12.7	=C01+CCMS-12K2	3RH1122-1B840 Hilfsschütz	3RH1122-1B840	SIEMENS	
36	15	12.7	=C01+CCMS-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	3			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	3			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	6			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
37	1	13.0	=C01+CCMS-13Q1	power switch VL400 UL, TYP JG UL489	SIE-3VL4140-1GE30-2PB1	SIEMENS	UL E10848
	1			power switch VL400 UL, TYP JG UL489	SIE-3VL4140-1GE30-2PB1	SIEMENS	UL E10848
	1			motor drive for VL400UL; VL400X	SIE-3VL9400-3MQ01	SIEMENS	E10848
	1			wrap-around terminal 3 piece; VL400UL	SIE-3VL9460-4TC31	SIEMENS	
	1			connectrion bars front side VL400	SIE-3VL9400-4EC30	SIEMENS	
	1			cover for connection IP30; standard; VL400UL; VL400X	SIE-3VL9400-8CB31	SIEMENS	
	3			partition wall for phases 2 pc.; VL400UL; VL400XUL; VL400XUL	V1200VL600-8CE01	SIEMENS	E69455
38	1	13.1	=C01+CCMS-13W4	cable, H07 RN-F 1 x 95	HELU-37011	HELUKABEL	
39	1	13.1	=C01+CCMS-13W3	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELUKABEL	
40	1	13.1	=C01+CCMS-13W2	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELUKABEL	
41	1	13.1	=C01+CCMS-13W1	cable NYY-0 Power cable 1x185 RM	HELU-32100	HELUKABEL	
42	1	13.2	=C01+CCMS-13W5	cable, H07 RN-F 1 x 95	HELU-37011	HELUKABEL	
43	1	13.2	=C01+CCMS-13W6	cable, H07 RN-F 1 x 95	HELU-37011	HELUKABEL	
44	1	13.4	=C01+CCMS-13K1	3RH1122-1B840 Hilfsschütz	3RH1122-1B840	SIEMENS	
45	1	13.5	=C01+CCMS-12Z1	varistor 24VDC	3RT1916-1B800-Z	SIEMENS	
46	1	13.7	=C01+CCMS-12Z2	varistor 24VDC	3RT1916-1B800-Z	SIEMENS	
47	1	13.7	=C01+CCMS-13K2	3RH1122-1B840 Hilfsschütz	3RH1122-1B840	SIEMENS	
48	2	13.7	=C01+CCMS-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	2			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	2			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
49	1	14.1	=C01+CCMS-14F2	power switch, BAUGR. S0, 3,2A	SIE-3RV1721-1DD10	SIEMENS	UL CSA C22.2 NO.5-02
50	1	14.1	=C01+CCMS-14T1	Sitop Modular 24VDC/5A	6EP1333-3BA00	SIEMENS	
51	1	14.1	=C01+CCMS-14WSV1	connection module 16 mm <sup>2</sup> , 3-pole	01563	Wöhner	E123577
52	1	14.1	=C01+CCMS-14F1	fuse holder for CC-fuses 3-pole	3NW7533-0HG	SIEMENS	
	3			SICH.EINSATZ KLASSE CC 16A	3NW1100-0HG	SIEMENS	
53	1	14.2	=C01+CCMS-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
54	1	14.3	=C01+CCMS-14F3	mininatur circuit breaker C4A	5SY4104-7	SIEMENS	
55	2	15.2	=C01+CCMS-XAS	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/ 3-ST-5,08	PC-1873061	PHOENIX CONTACT	
	1			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
56	1	15.3	=C01+CCMS-15K1	AS-i safety out with relays	102121468	Bühl+Wiedemann	
57	1	15.3	=C01+CCMS-XAS	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/ 3-ST-5,08	PC-1873061	PHOENIX CONTACT	
	1			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
58	1	15.6	=C01+CCMS-15K2	AS-i safety out with relays	102121468	Bühl+Wiedemann	
59	1	16.1	=C01+CCMS-16K1	time relay 3RP1505-1RW30	3RP1505-1RW30	SIEMENS	
60	1	16.1	=C01+CCMS-16S1	key switch_1N/0 contact	3SB3500-4BD01	SIEMENS	
61	1	16.2	=C01+CCMS-16K2	3RH1131-1B840 Hilfsschütz	3RH1131-1B840	SIEMENS	
62	1	16.2	=C01+CCMS-16P1	LED RD 24V	3SB3901-1CA	SIEMENS	
63	1	16.3	=C01+CCMS-16Y2	safety lock	RIT-2418000	RITTAL	
64	1	16.3	=C01+CCMS-16Z1	varistor 24VDC	3RT1916-1B800-Z	SIEMENS	
65	1	16.4	=C01+CCMS-16Q1	no contact			

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## electric parts

## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.0	=D11+CCMD01-6U4	TS intermediate piece for mounting plate H:2200	RIT-4592700	RITTAL	
2	1	6.0	=D11+CCMD01-6U5	TS Topmount module W1200xH200xD600mm RAL7035	RIT-8801765	RITTAL	
3	1	6.0	=D11+CCMD01-6U6	TS Topmount module W1200xH200xD600mm RAL7035	RIT-8801765	RITTAL	
4	1	6.0	=D11+CCMD01-6U1	TS cabinet W1200xH200xD600 RAL 7035	RIT-8226500	RITTAL	E76083
5	1	6.0	=D11+CCMD01-6U2	TS cabinet W1200xH2200xD600 RAL 7035	RIT-8226500	RITTAL	E76083
6	1	6.0	=D11+CCMD01-6U8	PS Support rails, deep 600mm	RIT-4396000	RITTAL	
	1			PS Support rails, deep 600mm	RIT-4396000	RITTAL	
7	1	6.0	=D11+CCMD01-6U7	TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
	1			TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
8	1	6.0	=D11+CCMD01-6U3	TS side panel (H200, D600) RAL7035	RIT-8126235	RITTAL	
	1			TS side panel (H200, D600) RAL7035	RIT-8126235	RITTAL	
9	0.74m	7.2	=D11+CCMD01-	wirering channel 60mm wide	VDK 60mm	Tehalit	
10	1	7.2	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
11	1	7.2	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
12	1	7.3	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
13	1	7.3	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
14	1	7.4	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
15	1	7.5	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
16	1	7.5	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
17	1	7.6	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
18	1	7.6	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
19	1	7.6	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
20	1	7.7	=D11+CCMD01-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
21	3	10.0	=D11+CCMD01-XN	SV line termination clamp -185mm <sup>2</sup> S=10mm	RIT-3459500	RITTAL	E 191125
22	2	10.0	=D11+CCMD01-10U1	SV busbar Support 1-pole N/PE	RIT-9340030	RITTAL	-
	1			SV Cu-bar E-Cu57 30x10x 2400	RIT-3586000	RITTAL	E 191125
	1			351-810001-00 N-Schienenabdeckung 1m	102146440	Leybold Optics Dresden GmbH	
23	1	10.0	=D11+CCMD01-10WSV1	SV connection adapter 800a breadth 129mm RiLine60	RIT-9342290	RITTAL	E 191125
2				SV end cover for RiLine60	RIT-9340070	RITTAL	E 191125
4				SV Cu-bar E-Cu57 30x10x 2400	RIT-3586000	RITTAL	E 191125
2				SV base tray 1100mm RiLine60	RIT-9340130	RITTAL	E 191125
1				SV system cover b100mm/h80mm	RIT-3087000	RITTAL	E 191125
3				SV power busbar connector basic 20x5-30x10	RIT-9320020	RITTAL	E 191125
1				SV base tray infill 100mm für RiLine60	RIT-9340140	RITTAL	E 191125
4				SV support cover for RiLine60	RIT-9340220	RITTAL	E 191125
1				SV top cover profil 700mm RiLine60	RIT-9340200	RITTAL	E 191125
24	2	10.1	=D11+CCMD01-XPE	SV line termination clamp -185mm <sup>2</sup> S=10mm	RIT-3459500	RITTAL	E 191125
25	2	10.1	=D11+CCMD01-10U2	SV busbar Support 1-pole N/PE	RIT-9340030	RITTAL	-
1				SV Cu-bar E-Cu57 30x10x 2400	RIT-3586000	RITTAL	E 191125
26	4	10.2	=D11+CCMD01-XPE	SV line termination clamp 16-50mm <sup>2</sup> S=10mm	RIT-3457500	RITTAL	E 191125
27	1	10.2	=D11+CCMD01-XPE	SV line termination clamp 2,5-16mm <sup>2</sup> S=10mm	RIT-3456500	RITTAL	E 191125
28	1	10.2	=D11+CCMD01-10W1	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
29	1	10.2	=D11+CCMD01-10W2	single wire-H07V-K 25mm <sup>2</sup> gn/ye	HELU-29226	HELUKABEL	
30	1	10.2	=D11+CCMD01-10W3	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
31	2	10.3	=D11+CCMD01-X21.1	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
32	2	10.3	=D11+CCMD01-X21.1	USLKG 5	PC-0441504	PHOENIX CONTACT	
33	2	10.3	=D11+CCMD01-X21.1	UK 5 N	PC-3004362	PHOENIX CONTACT	
34	1	10.4	=D11+CCMD01-10WSV2	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
35	1	10.4	=D11+CCMD01-10T1	autotransformer DTSP10 (480VAC/400VAC)	4010542	Trafo Modern	
36	3	10.4	=D11+CCMD01-10F1	NH-fuse link c00gl-gG - 63 A	UE-02423688	UNIELEKTRO	
37	2	10.5	=D11+CCMD01-X21.2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
38	2	10.5	=D11+CCMD01-X21.2	USLKG 5	PC-0441504	PHOENIX CONTACT	
39	2	10.5	=D11+CCMD01-X21.2	UK 5 N	PC-3004362	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
40	1	10.5	=D11+CCMD01-XN	SV line termination clamp 16-50mm <sup>2</sup> S=10mm	RIT-3457500	RITTAL	E 191125
41	1	11.1	=D11+CCMD01-11WSV1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
42	3	11.1	=D11+CCMD01-11F1	NH-fuse link C00g1-gG - 80 A	UE-02423689	UNIELEKTRO	
43	1	11.3	=D11+CCMD01-11WSV2	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
44	3	11.3	=D11+CCMD01-11F2	NH-fuse link C00g1-gG - 80 A	UE-02423689	UNIELEKTRO	
45	1	11.5	=D11+CCMD01-11WSV3	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
46	3	11.5	=D11+CCMD01-11F3	NH-fuse link C00g1-gG - 80 A	UE-02423689	UNIELEKTRO	
47	1	11.7	=D11+CCMD01-11WSV4	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
48	3	11.7	=D11+CCMD01-11F4	NH-fuse link Gr.C00g1-gG - 50 A	UE-02423687	UNIELEKTRO	
49	1	11.8	=D11+CCMD01-11W1	cable JZ-500 4x10	HELU-10152	HELUKABEL	
50	9	11.8	=D11+CCMD01-X11	UK 10 N	PC-3005073	PHOENIX CONTACT	
51	1	11.8	=D11+CCMD01-11WSV5	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
52	3	11.8	=D11+CCMD01-11F5	NH-fuse link Gr.C00g1-gG - 50 A	UE-02423687	UNIELEKTRO	
53	1	11.9	=D11+CCMD01-X11	USLGK 10 N	PC-3003923	PHOENIX CONTACT	
54	1	13.2	=D11+CCMD01-13W1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
55	1	13.2	=D11+CCMD01-w0,34	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
56	18	13.2	=D11+CCMD01-x31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
9				STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
9				FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
18				ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
57	1	13.3	=D11+CCMD01-13K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
1				PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
58	1	13.4	=D11+L1PV01-13M1	Screwline SP630F 60Hz Guard+GB 117106	102104542	Oerlikon Leybold Vakuum GmbH	
59	18	13.4	=D11+CCMD01-XM2	UK 10 N	PC-3005073	PHOENIX CONTACT	
60	9	13.4	=D11+CCMD01-XM1	UK 10 N	PC-3005073	PHOENIX CONTACT	
61	1	13.4	=D11+CCMD01-13W2	cable JZ-500 4x6	HELU-10148	HELUKABEL	
62	1	13.4	=D11+CCMD01-13Q1	contactor DILM50(RDC24)22kw	MOE-277844	MOELLER	UL
1				auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
2				DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
63	1	13.4	=D11+CCMD01-13F1	motor circuit breaker PKZM 4 - 32	MOE-222353	MOELLER	
1				auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
2				motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
64	3	13.5	=D11+CCMD01-XM1	USLGK 10 N	PC-3003923	PHOENIX CONTACT	
65	1	13.6	=D11+CCMD01-13K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
1				PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
66	1	13.7	=D11+CCMD01-13W3	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
67	18	13.7	=D11+CCMD01-x31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
9				STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
9				FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
68	1	14.2	=D11+CCMD01-14W1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
69	1	14.3	=D11+CCMD01-14K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
1				PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
70	1	14.4	=D11+L1PV01-14M1	Screwline SP630F 60Hz Guard+GB 117106	102104542	Oerlikon Leybold Vakuum GmbH	
71	1	14.4	=D11+CCMD01-14W2	cable JZ-500 4x6	HELU-10148	HELUKABEL	
72	1	14.4	=D11+CCMD01-14Q1	contactor DILM50(RDC24)22kw	MOE-277844	MOELLER	UL
1				auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
2				DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
73	1	14.4	=D11+CCMD01-14F1	motor circuit breaker PKZM 4 - 32	MOE-222353	MOELLER	
1				auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
2				motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
74	1	14.6	=D11+CCMD01-14K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
1				PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
75	1	14.7	=D11+CCMD01-14W3	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	

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## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
76	1	15.2	=D11+CCMD01-15W1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELIKABEL	
77	1	15.3	=D11+CCMD01-15K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
78	1	15.4	=D11+CCMD01-15W2	cable JZ-500 4x6	HELU-10148	HELIKABEL	
79	1	15.4	=D11+L9PV01-15M1	Screwline SP630F 60Hz Guard+GB 117106	102104542	Oerlikon Leybold Vakuum GmbH	
80	1	15.4	=D11+CCMD01-15F1	motor circuit breaker PKZM 4 - 32	MOE-222353	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	2			motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
81	1	15.4	=D11+CCMD01-15Q1	contactor DILM50(RDC24)22kw	MOE-277844	MOELLER	UL
	1			auxiliary contactor DILM50-XHI31	MOE-277949	MOELLER	
	2			DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
82	1	15.6	=D11+CCMD01-15K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
83	1	15.7	=D11+CCMD01-15W3	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
84	1	16.2	=D11+CCMD01-16W1	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
85	1	16.3	=D11+CCMD01-16K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
86	1	16.4	=D11+L1PR01-16M1	Ruvac WSU2001 230/400V50Hz	411853	Oerlikon Leybold Vakuum GmbH	
87	1	16.4	=D11+CCMD01-16W2	cable JZ-500 4x2,5	HELU-10123	HELIKABEL	
88	1	16.4	=D11+CCMD01-16F1	motor circuit breaker PKZM 4 - 16	MOE-222350	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	2			motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
89	1	16.4	=D11+CCMD01-16Q1	contactor DILM25-10(RDC24)11kw	MOE-277146	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
90	32	16.4	=D11+CCMD01-XM1	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	16			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	8			PC 4/5-STF-7,62	PC-1828278	PHOENIX CONTACT	
	8			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
91	1	16.6	=D11+CCMD01-16W3	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
92	1	16.6	=D11+CCMD01-16F2	circuit breaker FAZ-S2/1	MOE-278607	MOELLER	
	1			auxiliary contact FAZ-XHIN11 1ö/1s	MOE-286054	MOELLER	
93	6	16.6	=D11+CCMD01-X22	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	6			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	3			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	3			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
94	1	17.2	=D11+CCMD01-17W1	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
95	1	17.3	=D11+CCMD01-17K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
96	1	17.4	=D11+V1PR01-17M1	Ruvac WSU2001 220/380V50Hz	411753	Oerlikon Leybold Vakuum GmbH	
97	1	17.4	=D11+CCMD01-17W2	cable JZ-500 4x2,5	HELU-10123	HELIKABEL	
98	1	17.4	=D11+CCMD01-17Q1	contactor DILM25-10(RDC24)11kw	MOE-277146	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
99	1	17.4	=D11+CCMD01-17F1	motor circuit breaker PKZM 4 - 16	MOE-222350	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	2			motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
100	1	17.6	=D11+CCMD01-17W3	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
101	1	17.6	=D11+CCMD01-17F2	circuit breaker FAZ-S2/1	MOE-278607	MOELLER	
	1			auxiliary contact FAZ-XHIN11 1ö/1s	MOE-286054	MOELLER	
102	1	18.2	=D11+CCMD01-18W1	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
103	1	18.3	=D11+CCMD01-18K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
104	1	18.4	=D11+CCMD01-18W2	cable JZ-500 4x2,5	HELU-10123	HELIKABEL	
105	1	18.4	=D11+L9PR01-18M1	Ruvac WSU2001 230/400V50Hz	411853	Oerlikon Leybold Vakuum GmbH	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
106	1	18.4	=D11+CCMD01-18Q1	contactor DILM25-10(RDC24)11kw	MOE-277146	MOELLER	UL
	1			auxiliary contactor DILA-XH131	MOE-276427	MOELLER	
107	1	18.4	=D11+CCMD01-18F1	motor circuit breaker PKZM 4 - 16	MOE-222350	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	2			motor circuit breaker PKZM 4 clamp cover	MOE-256581	MOELLER	
108	1	18.6	=D11+CCMD01-18W3	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
109	1	18.6	=D11+CCMD01-18F2	circuit breaker FAZ-S2/1	MOE-278607	MOELLER	
	1			auxiliary contact FAZ-XHIN11 10/1s	MOE-286054	MOELLER	
110	1	19.1	=D11+CCMD01-19Q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
111	1	19.1	=D11+CCMD01-19K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
112	1	19.2	=D11+CCMD01-19W1	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
113	1	19.2	=D11+L1PV02-19M1	SOGEVAC SV 40 B Euro without gas ballast	L960302	Oerlikon Leybold Vakuum GmbH	
114	1	19.2	=D11+CCMD01-19F1	motor circuit breaker PKZM 0 - 4	MOE-072737	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	1			BK25/3-PKZ0 terminal	MOE-032720	MOELLER	UL E36332
	1			B3.0/3-PKZ0 busbar	MOE-2322289	MOELLER	
115	1	19.4	=D11+CCMD01-19Q2	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
116	1	19.4	=D11+CCMD01-19K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
117	1	19.5	=D11+B1PV01-19M1	SCROLLVAC SC30D 3phasig 50Hz 133004	L133004	Oerlikon Leybold Vakuum GmbH	
118	1	19.5	=D11+CCMD01-19W2	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
119	1	19.5	=D11+CCMD01-19F2	motor circuit breaker PKZM 0 - 1,6	MOE-072735	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
120	1	19.7	=D11+CCMD01-19Q3	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
121	1	19.7	=D11+CCMD01-19K3	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
122	1	19.8	=D11+CCMD01-19W3	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
123	1	19.8	=D11+L9PV02-19M1	SOGEVAC SV 40 B Euro without gas ballast	L960302	Oerlikon Leybold Vakuum GmbH	
124	1	19.8	=D11+CCMD01-19F3	motor circuit breaker PKZM 0 - 4	MOE-072737	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
125	1	20.0	=D11+CCMD01-20Q1	contactor DILM25-10(RDC24)11kw	MOE-277146	MOELLER	UL
126	1	20.1	=D11+CCMD01-20W1	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
127	1	20.1	=D11+B1PC01-20E1	cryo pump onboard10 ISO-F 320	102149074	Brooks Automation	
128	1	20.1	=D11+CCMD01-20WSV1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
129	3	20.1	=D11+CCMD01-20F1	NH-fuse link C00gl-gG - 16 A	UE-02423681	UNIELEKTRO	
130	1	20.1	=D11+L1-20xs1	HC-B6-ESTS contact insert; male	PC-1771037	PHOENIX CONTACT	
	2			HC-CST coding pin male	PC-1676857	PHOENIX CONTACT	
	2			HC-CBT coding pin female	PC-1676860	PHOENIX CONTACT	
	1			HC-B6-TFL-72/01STM20S housing	PC-1644928	PHOENIX CONTACT	
131	1	20.1	=D11+L1-20xs1	HC-B6-EBUS contact insert female	PC-1771011	PHOENIX CONTACT	
	1			HC-B6-SMLD-52 housing	PC-1586756	PHOENIX CONTACT	
132	30	20.2	=D11+CCMD01-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	6			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	6			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	12			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
133	1	20.3	=D11+CCMD01-20W2	cable TRONIC (LiYY) 4x0,34	HELU-18059	HELUKABEL	
134	6	20.3	=D11+CCMD01-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	6			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	6			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
135	1	20.5	=D11+CCMD01-20Q2	contactor DILM25-10(RDC24)11kw	MOE-277146	MOELLER	UL
136	1	20.5	=D11+CCMD01-20WSV2	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
137	1	20.5	=D11+CCMD01-20W3	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	

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			check							
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
138	3	20.5	=D11+CCMD01-20F2	NH-fuse link C00g1-gG - 16 A	UE-02423681	UNIELEKTRO	
139	1	20.5	=D11+B1-20xs1	HC-B6-ESTS contact insert; male	PC-1771037	PHOENIX CONTACT	
	2			HC-CST coding pin male	PC-1676857	PHOENIX CONTACT	
	2			HC-CBU coding pin female	PC-1676860	PHOENIX CONTACT	
	1			HC-B6-TFL-72/01STM20S housing	PC-1644928	PHOENIX CONTACT	
140	1	20.5	=D11+B1-20xs1	HC-B6-EBUS contact insert female	PC-1771011	PHOENIX CONTACT	
	1			HC-B6-SMLD-52 housing	PC-1586756	PHOENIX CONTACT	
141	1	20.7	=D11+CCMD01-20W4	cable TRONIC (LiYY) 4x0,34	HELU-18059	HELUKABEL	
142	4	21.1	=D11+CCMD01-XN	SV line termination clamp 2,5-16mm <sup>2</sup> S=10mm	RIT-3456500	RITTAL	E 191125
143	1	21.1	=D11+CCMD01-21wsv1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
144	2	21.1	=D11+CCMD01-X11	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
145	1	21.1	=D11+CCMD01-X11	UK 10 N BU	PC-3005086	PHOENIX CONTACT	
146	3	21.1	=D11+CCMD01-21f1	NH-fuse link C00g1-gG - 35 A	UE-02423685	UNIELEKTRO	
147	1	21.2	=D11+CCMD01-21w2	cable JZ-500 4x6	HELU-10148	HELUKABEL	
148	1	21.2	=D11+CCMD01-21wsv2	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
149	3	21.2	=D11+CCMD01-21f2	NH-fuse link C00g1-gG - 35 A	UE-02423685	UNIELEKTRO	
150	1	21.4	=D11+CCMD01-21w3	cable JZ-500 5x2,5	HELU-10125	HELUKABEL	
151	1	21.4	=D11+CCMD01-21wsv3	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
152	3	21.4	=D11+CCMD01-21f3	NH-fuse link C00g1-gG - 16 A	UE-02423681	UNIELEKTRO	
153	44	21.4	=D11+CCMD01-X12	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	22			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	11			PC 4/5-STF-7,62	PC-1828278	PHOENIX CONTACT	
	11			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
154	1	21.6	=D11+CCMD01-21w4	cable JZ-500 5x2,5	HELU-10125	HELUKABEL	
155	1	21.6	=D11+CCMD01-21wsv4	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
156	3	21.6	=D11+CCMD01-21f4	NH-fuse link C00g1-gG - 16 A	UE-02423681	UNIELEKTRO	
157	1	22.1	=D11+CCMD01-22q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
158	1	22.1	=D11+CCMD01-22k1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
159	1	22.2	=D11+CCMD01-22wsv1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
160	1	22.2	=D11+CCMD01-22w1	cable JZ-500 5x2,5	HELU-10125	HELUKABEL	
161	1	22.2	=D11+CCMD01-22q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
162	3	22.2	=D11+CCMD01-22f2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 3POLE - connector	PC-3048409	PHOENIX CONTACT	
	3			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
163	3	22.2	=D11+CCMD01-22f1	NH-fuse link C00g1-gG - 25 A	UE-02423683	UNIELEKTRO	
164	1	22.3	=D11+CCMD01-22q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
165	1	23.1	=D11+CCMD01-23b1	Pilz phasemonitoring relay S1PN 3x400V	PILZ-890210	PILZ	
166	1	23.1	=D11+CCMD01-23wsv1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
167	3	23.1	=D11+CCMD01-23f1	NH-fuse link C00g1-gG - 35 A	UE-02423685	UNIELEKTRO	
168	1	23.1	=D11+CCMD01-23f2	motor circuit breaker PKZM 0 - 0,16	MOE-072730	MOELLER	
	1			BK25/3-PKZ0 terminal	MOE-032720	MOELLER	UL E36332
	1			B3.0/3-PKZ0 busbar	MOE-232289	MOELLER	
169	1	23.2	=D11+CCMD01-23f3	motor circuit breaker PKZM 0 - 10	MOE-072739	MOELLER	
170	1	23.3	=D11+CCMD01-23f4	motor circuit breaker PKZM 0 - 6,3	MOE-072738	MOELLER	
171	1	24.0	=D11+CCMD01-24q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
172	1	24.0	=D11+CCMD01-24u1	KL terminal box 300x200x80 400x200x120 w/o plate	RIT-1504510	RITTAL	
173	1	24.1	=D11+CCMD01-24k1	A1000-FIV3010-RE main filter	102130131	OMRON	
174	14	24.1	=D11+CCMD01-XPE	USLKG 5	PC-0441504	PHOENIX CONTACT	
175	1	24.1	=D11+CCMD01-24w1	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
176	1	24.1	=D11+CCMD01-24t1	VZA43P0BAA frequency converter 400V; 3,0kw;	102128686	OMRON	
	1			A1000-CAVPC232-EE /FU Programming cable	102112860	OMRON	
177	1	24.2	=D11+PIAH11-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	

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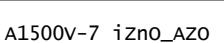
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
178	1	24.2	=D11+CCMD01-24W2	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
179	1	24.2	=D11+P1AH11-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
180	1	24.3	=D11+P1AH21-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	
181	1	24.3	=D11+CCMD01-24W3	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
182	1	24.3	=D11+P1AH21-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
183	1	24.4	=D11+P1AH31-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	
184	1	24.4	=D11+CCMD01-24W4	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
185	1	24.4	=D11+P1AH31-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
186	1	24.6	=D11+CCMD01-24W5	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
187	1	24.6	=D11+P2AH11-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	
188	1	24.6	=D11+P2AH11-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
189	1	24.7	=D11+CCMD01-24W6	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
190	1	24.7	=D11+P2AH21-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	
191	1	24.7	=D11+P2AH21-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
192	1	24.8	=D11+CCMD01-24W7	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
193	1	24.8	=D11+P2AH31-24M1	servo drive MSZ-100-G-SL-TR50x8-H320-..	102112336	Zimm Maschinenelemente GmbH & Co	
194	1	24.8	=D11+P2AH31-24XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
195	5	24.9	=D11+CCMD01-XPE	USLG K 10 N	PC-3003923	PHOENIX CONTACT	
196	1	25.0	=D11+CCMD01-25W1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
197	1	25.2	=D11+CCMD01-25W3	cable TRONIC-CY(LiYCY) 8x0,34	HELU-20061	HELUKABEL	
198	1	25.2	=D11+CCMD01-25W2	cable TRONIC-CY(LiYCY) 8x0,34	HELU-20061	HELUKABEL	
199	1	25.2	=D11+CCMD01-25Q1	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
200	1	25.3	=D11+CCMD01-25Q2	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
201	1	25.4	=D11+CCMD01-25Q3	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
202	1	25.5	=D11+CCMD01-25Q4	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
203	1	25.6	=D11+CCMD01-25Q5	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
204	1	25.7	=D11+CCMD01-25Q6	contactor DILM9-10(24VDC)4kW	MOE-276705	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
205	3	25.8	=D11+CCMD01-41XPE	USLG K 5	PC-0441504	PHOENIX CONTACT	
206	1	26.1	=D11+CCMD01-26Q1	contactor DILM12-10-(24VDC)5,5kw	MOE-276845	MOELLER	UL
207	1	26.1	=D11+CCMD01-26T1	VZA41P5BAA frequency converter 400V; 1,5kw;	102141666	OMRON	
208	1	26.2	=D11+CCMD01-26W2	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
209	1	26.2	=D11+CCMD01-26W1	cable F-CY-JZ 4x1,5	HELU-16395	HELUKABEL	
210	1	26.2	=D11+T9-2601	disconnect switch T0-2-1 15679/I1/SVB-SW; 6kw; 20A	MOE-207150	MOELLER	
211	1	26.2	=D11+CCMD01-26K1	A1000-FIV3010-RE main filter	102130131	OMRON	
212	1	26.2	=D11+T9-26M1	GigaBox radial fan	GBD 500/4/4	Helios	
213	1	27.0	=D11+CCMD01-27K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
214	1	27.1	=D11+CCMD01-27Q1	contactor DILM25-10-(RDC24)11kw	MOE-277146	MOELLER	UL
	1			auxiliary contactor DILA-XHI31	MOE-276427	MOELLER	
215	1	27.2	=D11+CCMD01-27W2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
	1			cable JZ-500 5x1,5	HELU-10095	HELUKABEL	
216	1	27.2	=D11+CCMD01-27W1				

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
217	3	27.2	=D11+B1KK02-X2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
218	3	27.2	=D11+B1KK02-X2	USLKG 5	PC-0441504	PHOENIX CONTACT	
219	1	27.3	=D11+CCMD01-27w3	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
220	1	27.4	=D11+CCMD01-27w4	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
221	3	27.6	=D11+P1KK02-X2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
222	3	27.6	=D11+P1KK02-X2	USLKG 5	PC-0441504	PHOENIX CONTACT	
223	1	27.6	=D11+CCMD01-27w6	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
224	1	27.6	=D11+CCMD01-27w5	cable JZ-500 5x1,5	HELU-10095	HELUKABEL	
225	1	27.7	=D11+CCMD01-27w7	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
226	1	28.2	=D11+CCMD01-28w2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
227	1	28.2	=D11+CCMD01-28w1	cable JZ-500 5x1,5	HELU-10095	HELUKABEL	
228	3	28.3	=D11+P2KK02-X2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
229	3	28.3	=D11+P2KK02-X2	USLKG 5	PC-0441504	PHOENIX CONTACT	
230	1	28.3	=D11+CCMD01-28w3	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
231	1	28.6	=D11+CCMD01-28w6	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
232	1	28.6	=D11+CCMD01-28w5	cable JZ-500 5x1,5	HELU-10095	HELUKABEL	
233	1	28.7	=D11+CCMD01-28w7	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
234	3	28.7	=D11+B9KK02-X2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
235	3	28.7	=D11+B9KK02-X2	USLKG 5	PC-0441504	PHOENIX CONTACT	
236	1	28.8	=D11+CCMD01-28w8	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
237	1	29.0	=D11+CCMD01-29Q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
238	1	29.0	=D11+P1MAG11-29X1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
239	1	29.0	=D11+P1MAG11-29MF1	DC-fan without speed control 24V, 120mm	RIT-3687615	RITTAL	
	1			SK filter fan finger protection 120qmm	RIT-3686655	RITTAL	
	2			SK filter fan shroud 120qmm	RIT-3686329	RITTAL	
	2			SK filter fan shroud 120qmm	RIT-3686329	RITTAL	
240	1	29.1	=D11+CCMD01-29WSV1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
241	1	29.1	=D11+CCMD01-29w1	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
242	1	29.1	=D11+P1MAG11-29M1	MOVIMOT-spur gear motor RF27 M4	102097279	SEW	
243	1	29.1	=D11+P1MAG11-29XAS1	AS-i FK junction M12	102121465	IFM	
244	3	29.1	=D11+CCMD01-29F1	NH-fuse link C00gl-gG - 16 A	UE-02423681	UNIELEKTRO	
245	1	29.1	=D11+CCMD01-XM1	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
246	1	29.2	=D11+CCMD01-XM2	cable socket CA 3 LD	RS-359-4390	RS	
	1			cable plug CA 3 LS	RS-359-4384	RS	
247	1	30.0	=D11+CCMD01-30Q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
248	1	30.0	=D11+P2MAG11-30X1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
249	1	30.0	=D11+P2MAG11-30MF1	DC-fan without speed control 24V, 120mm	RIT-3687615	RITTAL	
	1			SK filter fan finger protection 120qmm	RIT-3686655	RITTAL	
	2			SK filter fan shroud 120qmm	RIT-3686329	RITTAL	
250	1	30.1	=D11+CCMD01-30w1	cable JZ-500 4x2,5	HELU-10123	HELUKABEL	
251	1	30.1	=D11+CCMD01-30WSV1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
252	1	30.1	=D11+CCMD01-30XAS1	AS-i FK junction M12	102121465	IFM	
253	1	30.1	=D11+P2MAG11-30M1	MOVIMOT-spur gear motor RF27 M4	102097279	SEW	
254	3	30.1	=D11+CCMD01-30F1	NH-fuse link C00gl-gG - 16 A	UE-02423681	UNIELEKTRO	
255	1	30.2	=D11+P2MAG12-30M1	MOVIMOT-spur gear motor RF27 M4	102097279	SEW	
256	1	30.2	=D11+CCMD01-30XAS2	AS-i FK junction M12	102121465	IFM	
257	1	30.3	=D11+P2MAG12-30X1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
258	1	30.3	=D11+P2MAG12-30MF1	DC-fan without speed control 24V, 120mm	RIT-3687615	RITTAL	
	1			SK filter fan finger protection 120qmm	RIT-3686655	RITTAL	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
312	1	35.5	=D11+CCMD01-35Q2	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
313	1	35.6	=D11+P1PT10-35M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
314	3	35.6	=D11+CCMD01-35F2	NEOZED fuse link - D01/E14-10 A	UE-01400105	UNIELEKTRO	
	3			NEOZED / set screw for fuse D02-10 A	UE-01400123	UNIELEKTRO	
	3			NEOZED retaining spring for D01 in fuse D02	UE-01400137	UNIELEKTRO	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
315	1	35.6	=D11+CCMD01-35WSV2	SV D02 fuse socket 60mm	RIT-3418000	rittal	
	1			SV cover D 02 60mm	RIT-3419000	rittal	
	1			SV D02 head plate 60mm	RIT-3420000	rittal	
	2			SV D02 side cover 60mm	RIT-3093000	rittal	
316	1	35.6	=D11+CCMD01-35w4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
317	1	36.1	=D11+CCMD01-36Q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
318	1	36.2	=D11+P2PT02-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
319	1	36.2	=D11+P2PT01-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
320	1	36.2	=D11+CCMD01-36w1	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
321	1	36.3	=D11+P2PT03-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
322	3	36.3	=D11+CCMD01-36F1	NEOZED fuse link - D01/E14-10 A	UE-01400105	UNIELEKTRO	
	3			NEOZED / set screw for fuse D02-10 A	UE-01400123	UNIELEKTRO	
	3			NEOZED retaining spring for D01 in fuse D02	UE-01400137	UNIELEKTRO	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
323	1	36.3	=D11+CCMD01-36WSV1	SV D02 fuse socket 60mm	RIT-3418000	rittal	
	1			SV cover D 02 60mm	RIT-3419000	rittal	
	1			SV D02 head plate 60mm	RIT-3420000	rittal	
	2			SV D02 side cover 60mm	RIT-3093000	rittal	
324	1	36.3	=D11+CCMD01-36w2	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
325	1	36.4	=D11+CCMD01-36w3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
326	1	36.5	=D11+CCMD01-36Q2	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
327	1	36.6	=D11+P2PT04-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
328	1	36.6	=D11+P2PT05-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
329	3	36.6	=D11+CCMD01-36F2	NEOZED fuse link - D01/E14-10 A	UE-01400105	UNIELEKTRO	
	3			NEOZED / set screw for fuse D02-10 A	UE-01400123	UNIELEKTRO	
	3			NEOZED retaining spring for D01 in fuse D02	UE-01400137	UNIELEKTRO	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
330	1	36.6	=D11+CCMD01-36WSV2	SV D02 fuse socket 60mm	RIT-3418000	rittal	
	1			SV cover D 02 60mm	RIT-3419000	rittal	
	1			SV D02 head plate 60mm	RIT-3420000	rittal	
	2			SV D02 side cover 60mm	RIT-3093000	rittal	
331	1	36.6	=D11+CCMD01-36w4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
332	1	36.7	=D11+P2PT06-36M1	pump Hipace S-1200 PB DN200 ISO-F	102140569	Pfeiffer Vacuum GmbH	
333	1	36.7	=D11+CCMD01-36w5	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
334	1	36.8	=D11+CCMD01-36w6	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
335	1	38.5	=D11+CCMD01-38Q1	contactor DILM12-10(24VDC)5,5kw	MOE-276845	MOELLER	UL
336	1	38.6	=D11+P8PT01-38M1	turbo pump Hipace S-2300 PB DN250 ISO-F	102140586	Pfeiffer Vacuum GmbH	
337	3	38.6	=D11+CCMD01-38F1	NEOZED fuse link - D01/E14-10 A	UE-01400105	UNIELEKTRO	
	3			NEOZED / set screw for fuse D02-10 A	UE-01400123	UNIELEKTRO	
	3			NEOZED retaining spring for D01 in fuse D02	UE-01400137	UNIELEKTRO	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
338	1	38.6	=D11+CCMD01-38wsV1	SV D02 fuse socket 60mm	RIT-3418000	RITTAL	
	1			SV cover D 02 60mm	RIT-3419000	RITTAL	
	1			SV D02 head plate 60mm	RIT-3420000	RITTAL	
	2			SV D02 side cover 60mm	RIT-3093000	RITTAL	
339	1	38.7	=D11+B9PT01-38M1	turbo pump Hipace S-2300 PB DN250 ISO-F	102140586	Pfeiffer Vacuum GmbH	
340	1	38.7	=D11+CCMD01-38w2	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
341	1	38.8	=D11+CCMD01-38w3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
	1			HC-A3-BUQ1,5-TFL-G-PA female connector Quickon	PC-1641510	PHOENIX CONTACT	
342	1	40.1	=D11+CCMD01-40Q1	contactor DILM50(RDC24)22kw	MOE-277844	MOELLER	UL
343	1	40.1	=D11+CCMD01-40K1	time relay ETR4-11-A	MOE-031882	MOELLER	
344	1	40.2	=D11+CCMD01-40F2	circuit breaker FAZ-B16/1	MOE-278535	MOELLER	
345	3	40.2	=D11+CCMD01-40F1	NEOZED fuse link - D02/E18-35 A	UE-01400109	UNIELEKTRO	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
	3			NEOZED / set screw for fuse D0-E18, black-35 A	UE-01400133	UNIELEKTRO	
346	1	40.2	=D11+CCMD01-40wsV1	SV D02 fuse socket 60mm	RIT-3418000	RITTAL	
	1			SV cover D 02 60mm	RIT-3419000	RITTAL	
	1			SV D02 head plate 60mm	RIT-3420000	RITTAL	
	2			SV D02 side cover 60mm	RIT-3093000	RITTAL	
347	1	40.3	=D11+CCMD01-40F4	circuit breaker FAZ-B16/1	MOE-278535	MOELLER	
348	1	40.3	=D11+CCMD01-40F3	circuit breaker FAZ-B16/1	MOE-278535	MOELLER	
349	1	40.4	=D11+CCMD01-40W4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
350	1	40.4	=D11+CCMD01-40F5	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
351	1	40.4	=D11+CCMD01-37w6	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
352	1	40.5	=D11+CCMD01-40w5	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
353	1	40.5	=D11+CCMD01-40w6	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
354	1	40.5	=D11+CCMD01-40F7	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
355	1	40.5	=D11+CCMD01-40F6	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
356	1	40.6	=D11+CCMD01-40F8	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
357	1	40.7	=D11+CCMD01-40F10	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
358	1	40.7	=D11+CCMD01-40F9	circuit breaker FAZ-B10/1	MOE-278531	MOELLER	
359	1	41.2	=D11+CCMD01-41w1	cable JZ-500 5x6	HELU-10149	HELUKABEL	
360	3	41.2	=D11+CCMD01-X13	UK 10 N	PC-3005073	PHOENIX CONTACT	
361	1	41.2	=D11+CCMD01-X13	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
362	1	41.2	=D11+CCMD01-X13	UK 10 N BU	PC-3005086	PHOENIX CONTACT	
363	1	41.2	=D11+CCMD01-41wsV1	SV D02 fuse socket 60mm	RIT-3418000	RITTAL	
	1			SV cover D 02 60mm	RIT-3419000	RITTAL	
	1			SV D02 head plate 60mm	RIT-3420000	RITTAL	
	2			SV D02 side cover 60mm	RIT-3093000	RITTAL	
364	3	41.2	=D11+CCMD01-41F1	NEOZED fuse link - D02/E18-35 A	UE-01400109	UNIELEKTRO	
	3			NEOZED-D01-fuse screw cap 63A china	UE-01400141	UNIELEKTRO	
	3			NEOZED / set screw for fuse D0-E18, black-35 A	UE-01400133	UNIELEKTRO	
365	1	41.3	=D11+CCMD01-41F2	motor circuit breaker PKZM 0 - 2,5	MOE-072736	MOELLER	
	1			BK25/3-PKZ0 terminal	MOE-032720	MOELLER	UL E36332
366	1	41.4	=D11+CCMD01-41w2	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
367	1	41.4	=D11+CCMD01-41F3	motor circuit breaker PKZM 0 - 2,5	MOE-072736	MOELLER	
	1			BK25/3-PKZ0 terminal	MOE-032720	MOELLER	UL E36332
368	1	41.5	=D11+CCMD01-41w3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
369	1	42.0	=D11+CCMD01-42w1	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
370	1	42.0	=D11+CCMD01-42S1	PS door switch	RIT-4127000	RITTAL	
371	2	42.0	=D11+CCMD01-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	

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			devel.	Henker				
			check					
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
372	1	42.1	=D11+CCMD01-42w2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
373	1	42.1	=D11+CCMD01-42s2	PS door switch	RIT-4127000	RITTAL	
374	2	42.1	=D11+CCMD01-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
375	1	42.2	=D11+CCMD01-42K1	REL-MR-24DC/21-21 Relays	PC-2961192	PHOENIX CONTACT	
	1			PLC-BSC-24DC/21-21 base element (wide)	PC-2967015	PHOENIX CONTACT	
376	1	42.3	=D11+CCMD01-X24	USLKG 5	PC-0441504	PHOENIX CONTACT	
377	1	42.3	=D11+CCMD01-42W4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
378	2	42.3	=D11+CCMD01-X24	UK 5 N	PC-3004362	PHOENIX CONTACT	
379	1	42.3	=D11+CCMD01-42E1	SK basic controller heat exchanger 2500W	RIT-3209100	RITTAL	E117603
	1			SK air duct system for roof system devices	RIT-3286870	RITTAL	
	1			SK direction change 90 degree for air duct system	RIT-3286990	RITTAL	
	3			SK stopper for roof system devices	RIT-3286880	RITTAL	
380	1	42.4	=D11+CCMD01-42w3	cable JZ-500 5x0,5	HELU-10006	HELUKABEL	
381	5	42.4	=D11+CCMD01-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
382	1	42.6	=D11+CCMD01-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
383	1	44.1	=D11+CCMD01-XPE	SV line termination clamp 1-4mm <sup>2</sup> S=10mm	RIT-3455500	RITTAL	E 191125
384	1	44.1	=D11+CCMD01-44T1	controlling transformator STN1,3(400VAC/230VAC)	MOE-221523	MOELLER	
385	1	44.1	=D11+CCMD01-44F1	transformer circuit breaker PKZM 0- 4-T	MOE-088914	MOELLER	
	1			auxiliary switch PKZ 0-NHI-E-11	MOE-082882	MOELLER	
	1			BK25/3-PKZ0 terminal	MOE-032720	MOELLER	UL E36332
386	1	44.2	=D11+CCMD01-44K1	EMG 10-REL/KSR-230/21-LC Relays	PC-2964380	PHOENIX CONTACT	
387	8	44.2	=D11+CCMD01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
388	1	44.2	=D11+CCMD01-44FX1	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
	1			FBS 2-5 jumper 2pin 41A KL-B8,2	PC-3030284	PHOENIX CONTACT	
389	1	44.3	=D11+CCMD01-44W1	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
390	1	44.4	=D11+CCMD01-44W2	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
391	1	44.5	=D11+CCMD01-44W3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
392	1	45.0	=D11+CCMD01-45F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
393	1	45.1	=D11+CCMD01-45F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
394	1	45.1	=D11+CCMD01-45F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
395	1	45.1	=D11+CCMD01-45T1	power supply QUINT-PS/3AC/24DC/20	PC-2866792	PHOENIX CONTACT	R
396	1	45.2	=D11+CCMD01-45FX1	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
397	1	45.2	=D11+CCMD01-45FX2	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
398	1	45.3	=D11+CCMD01-45FX3	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
399	1	45.5	=D11+CCMD01-45FX4	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
400	1	46.0	=D11+CCMD01-46F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
401	1	46.1	=D11+CCMD01-46F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
402	1	46.1	=D11+CCMD01-46F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
403	1	46.1	=D11+CCMD01-46T1	power supply QUINT-PS/3AC/24DC/20	PC-2866792	PHOENIX CONTACT	R

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			devel.	Henker						
			check							
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
404	1	46.2	=D11+CCMD01-46W1	cable JZ-500 5x2,5	HELU-10125	HELUKABEL	
405	1	46.2	=D11+CCMD01-46FX1	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 6 thermal circuit breaker	PC-0712275	PHOENIX CONTACT	
406	1	46.3	=D11+CCMD01-46W2	cable JZ-500 5x2,5	HELU-10125	HELUKABEL	
407	1	46.3	=D11+CCMD01-46FX2	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 6 thermal circuit breaker	PC-0712275	PHOENIX CONTACT	
408	10	46.3	=D11+CCMD01-X34	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	4			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	2			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
	2			PC 4/6-STF-7,62	PC-1828281	PHOENIX CONTACT	
409	1	47.1	=D11+L1PV01-47E1	EB E-BOX 200x200x120 RAL7035 MPL	RIT-1549500	RITTAL	
410	1	47.2	=D11+L1PV01-47T1	Netzteil STEP-PS-1AC/24DC/1,75A	PC-2868648	PHOENIX CONTACT	R
411	1	47.2	=D11+L1PV01-X3	USLKG 5	PC-0441504	PHOENIX CONTACT	
412	5	47.3	=D11+L1PV01-X3	UK 5 N	PC-3004362	PHOENIX CONTACT	
413	1	47.3	=D11+CCMD01-47W1	SP-Guard cable 20m	119044	Leybold Vakuum GmbH Köln	
414	1	47.3	=D11+CCMD01-47W2	SP-Guard cable 20m	119044	Leybold Vakuum GmbH Köln	
415	1	47.3	=D11+L1PV01-47B1	SP-guard	119041	Oerlikon Leybold Vakuum GmbH	
416	1	47.4	=D11+CCMD01-47W2	cable TRONIC-CY(LiYCY) 8x0,34	HELU-20061	HELUKABEL	
417	1	47.4	=D11+L1PV01-47K1	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
418	1	47.5	=D11+L1PV01-47K2	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
419	1	47.6	=D11+L1PV01-47K3	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
420	1	47.7	=D11+L1PV01-47K4	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
421	1	48.1	=D11+L9PV01-48E1	EB E-BOX 200x200x120 RAL7035 MPL	RIT-1549500	RITTAL	
422	1	48.2	=D11+L9PV01-X3	USLKG 5	PC-0441504	PHOENIX CONTACT	
423	1	48.2	=D11+L9PV01-48T1	Netzteil STEP-PS-1AC/24DC/1,75A	PC-2868648	PHOENIX CONTACT	R
424	1	48.3	=D11+CCMD01-48W1	SP-Guard cable 20m	119044	Leybold Vakuum GmbH Köln	
425	1	48.3	=D11+L9PV01-48B1	SP-guard	119041	Oerlikon Leybold Vakuum GmbH	
426	5	48.3	=D11+L9PV01-X3	UK 5 N	PC-3004362	PHOENIX CONTACT	
427	1	48.4	=D11+CCMD01-48W2	cable TRONIC-CY(LiYCY) 8x0,34	HELU-20061	HELUKABEL	
428	1	48.4	=D11+L9PV01-48K1	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
429	1	48.5	=D11+L9PV01-48K2	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
430	1	48.6	=D11+L9PV01-48K3	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
431	1	48.7	=D11+L9PV01-48K4	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
432	1	49.1	=D11+V1PV01-49E1	EB E-BOX 200x200x120 RAL7035 MPL	RIT-1549500	RITTAL	
433	1	49.2	=D11+V1PV01-X3	USLKG 5	PC-0441504	PHOENIX CONTACT	
434	1	49.2	=D11+V1PV01-49T1	Netzteil STEP-PS-1AC/24DC/1,75A	PC-2868648	PHOENIX CONTACT	R
435	5	49.3	=D11+V1PV01-X3	UK 5 N	PC-3004362	PHOENIX CONTACT	
436	1	49.3	=D11+CCMD01-49W1	SP-Guard cable 20m	119044	Leybold Vakuum GmbH Köln	
437	1	49.3	=D11+V1PV01-49B1	SP-guard	119041	Oerlikon Leybold Vakuum GmbH	
438	1	49.4	=D11+CCMD01-49W2	cable TRONIC-CY(LiYCY) 8x0,34	HELU-20061	HELUKABEL	
439	1	49.4	=D11+V1PV01-49K1	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
440	1	49.5	=D11+V1PV01-49K2	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
441	1	49.6	=D11+V1PV01-49K3	OPT-24DC/48DC/100	PC-2966618	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.2	=D12+CCMD02-6U4	TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
2	1	6.2	=D12+CCMD02-6U1	TS cabinet 1000x2200x600 RAL 7035 w. MPL mod.	RIT-XXXXXXX	RITTAL	
3	1	6.2	=D12+CCMD02-6U2	TS side panel (H200, D600) RAL7035	RIT-8126235	RITTAL	
4	1	6.2	=D12+CCMD02-6U3	TS topmount module RAL 7035 B1000xH200xT600	RIT-8801755	RITTAL	
5	1	6.2	=D12+CCMD02-6U5	TS Divider panel (H:2200, T:600)	RIT-8609260	RITTAL	
	1			TS side panel (H200, D600) RAL7035	RIT-8126235	RITTAL	
6	1	7.4	=D12+CCMD02-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
7	1	7.4	=D12+CCMD02-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
8	1	7.5	=D12+CCMD02-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
9	1	7.6	=D12+CCMD02-7U1	SV holder for busbar until 800A, 3polig, RiLine60	RIT-9340000	RITTAL	
10	2	10.0	=D12+CCMD02-XPE	SV line termination clamp -185mm <sup>2</sup> S=10mm	RIT-3459500	RITTAL	E 191125
11	2	10.0	=D12+CCMD02-10U1	SV busbar Support 1-pole N/PE	RIT-9340030	RITTAL	-
	1			SV Cu-bar E-Cu57 30x10x 2400	RIT-3586000	RITTAL	E 191125
12	1	10.0	=D12+CCMD02-10wsv1	SV connection adapter 800A breadth 129mm RiLine60	RIT-9342290	RITTAL	E 191125
	2			SV end cover for RiLine60	RIT-9340070	RITTAL	E 191125
	2			SV Cu-bar E-Cu57 30x10x 2400	RIT-3586000	RITTAL	E 191125
	1			SV Base tray 900mm für RiLine60	RIT-9340120	RITTAL	E 191125
	4			SV support cover for RiLine60	RIT-9340220	RITTAL	E 191125
	1			SV top cover profil 700mm RiLine60	RIT-9340200	RITTAL	E 191125
13	9	10.1	=D12+CCMD02-XPE	SV line termination clamp 16-50mm <sup>2</sup> S=10mm	RIT-3457500	RITTAL	E 191125
14	1	10.1	=D12+CCMD02-X21.1	UK 5 N	PC-3004362	PHOENIX CONTACT	
15	1	10.2	=D12+CCMD02-X21.1	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
16	2	10.2	=D12+CCMD02-X21.2	UK 5 N	PC-3004362	PHOENIX CONTACT	
17	1	10.2	=D12+CCMD02-X21.1	USLKG 5	PC-0441504	PHOENIX CONTACT	
18	2	10.2	=D12+CCMD02-X21.2	UK 5 N BU	PC-3004388	PHOENIX CONTACT	
19	2	10.3	=D12+CCMD02-X21.2	USLKG 5	PC-0441504	PHOENIX CONTACT	
20	1	10.4	=D12+CCMD02-10w1	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	HELIKABEL	
21	1	10.4	=D12+CCMD02-10w3	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	HELIKABEL	
22	1	10.4	=D12+CCMD02-10w2	single wire-H07V-K 35mm <sup>2</sup> gn/ye	HELU-29242	HELIKABEL	
23	5	10.5	=D12+CCMD02-x30	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	2			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	1			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
	1			PC 4/6-STF-7,62	PC-1828281	PHOENIX CONTACT	
24	5	10.7	=D12+CCMD02-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
25	1	10.7	=D12+CCMD02-XPE	SV line termination clamp 2,5-16mm <sup>2</sup> S=10mm	RIT-3456500	RITTAL	E 191125
26	1	11.2	=D12+CCMD02-11k1	REL-MR-24DC/21-21 Relays	PC-2961192	PHOENIX CONTACT	
	1			PLC-BSC-24DC/21-21 base element (wide)	PC-2967015	PHOENIX CONTACT	
27	1	11.2	=D12+CCMD02-11q1	contactor DILM150(RDC24)75kw	MOE-239591	MOELLER	UL
	1			auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
	1			DILM150-XIP2X terminal cover	MOE-106492	MOELLER	
28	1	11.3	=D12+CCMD02-11wsv1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
29	1	11.3	=D12+CCMD02-11w1	cable JZ-500 4x35	HELU-10161	HELIKABEL	
30	24	11.3	=D12+CCMD02-x11	UK 35	PC-3008012	PHOENIX CONTACT	
31	1	11.3	=D12+CCMD02-25mm <sup>2</sup>	single wire-H07V-K 25mm <sup>2</sup> black	HELU-29225	HELIKABEL	
32	3	11.3	=D12+CCMD02-11f1	NH-fuse link C00gl-g - 80 A	UE-02423689	UNIELEKTRO	
33	1	12.2	=D12+CCMD02-12q1	contactor DILM150(RDC24)75kw	MOE-239591	MOELLER	UL
	1			auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
	1			DILM150-XIP2X terminal cover	MOE-106492	MOELLER	
34	1	12.2	=D12+CCMD02-12k1	REL-MR-24DC/21-21 Relays	PC-2961192	PHOENIX CONTACT	
	1			PLC-BSC-24DC/21-21 base element (wide)	PC-2967015	PHOENIX CONTACT	
35	1	12.3	=D12+CCMD02-12w1	cable JZ-500 4x35	HELU-10161	HELIKABEL	
36	1	12.3	=D12+CCMD02-12wsV1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
37	3	12.3	=D12+CCMD02-12F1	NH-fuse link C00gl-g - 80 A	UE-02423689	UNIELEKTRO	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
38	1	11.7	=D13+CCMD03-11wsv3	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
39	3	11.7	=D13+CCMD03-11F5	NH-fuse link C00g1-gG - 63 A	UE-02423688	UNIELEKTRO	
40	1	11.7	=D13+CCMD03-11Q3	contactor DILM65(RDC24)30kw	MOE-277908	MOELLER	UL
	1			auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
	6			DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
41	1	11.8	=D13+CCMD03-11B3	Pilz phasemonitoring relay S1PN 3x400V	PILZ-890210	PILZ	
42	1	11.8	=D13+CCMD03-11F6	motor circuit breaker PKZM 0 - 0,16	MOE-072730	MOELLER	
43	1	12.1	=D13+CCMD03-12wsv1	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
44	3	12.1	=D13+CCMD03-12F1	NH-fuse link C00g1-gG - 63 A	UE-02423688	UNIELEKTRO	
45	1	12.1	=D13+CCMD03-12Q1	contactor DILM65(RDC24)30kw	MOE-277908	MOELLER	UL
	1			auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
	6			DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
46	1	12.1	=D13+CCMD03-12K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
47	1	12.2	=D13+CCMD03-12B1	Pilz phasemonitoring relay S1PN 3x400V	PILZ-890210	PILZ	
48	1	12.2	=D13+CCMD03-12F2	motor circuit breaker PKZM 0 - 0,16	MOE-072730	MOELLER	
49	1	12.3	=D13+CCMD03-12K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
50	1	12.4	=D13+CCMD03-12wsv2	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
51	3	12.4	=D13+CCMD03-12F3	NH-fuse link C00g1-gG - 63 A	UE-02423688	UNIELEKTRO	
52	1	12.4	=D13+CCMD03-12Q2	contactor DILM65(RDC24)30kw	MOE-277908	MOELLER	UL
	1			auxiliary contactor DILM150-XHI31	MOE-277949	MOELLER	
	6			DILM65-XIP2x terminal cover	MOE-106491	MOELLER	
53	1	12.5	=D13+CCMD03-12B2	Pilz phasemonitoring relay S1PN 3x400V	PILZ-890210	PILZ	
54	1	12.5	=D13+CCMD03-12F4	motor circuit breaker PKZM 0 - 0,16	MOE-072730	MOELLER	
55	1	12.8	=D13+CCMD03-12wsv3	SV NH fuse switch disconnector NH size 000	RIT-3431030	RITTAL	
56	1	12.8	=D13+CCMD03-12B3	Pilz phasemonitoring relay S1PN 3x400V	PILZ-890210	PILZ	
57	3	12.8	=D13+CCMD03-12F5	NH-Sicherung Gr.C00g1-gG - 2 A	UE-02423679	UNIELEKTRO	
58	1	14.1	=D13+CCMD03-14Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
59	1	14.1	=D13+L1TH02-14E1	356-460202-00 L1-Frontheizung - Mitte	<a href="#">102149305</a>	ISOHEAT	
60	1	14.1	=D13+CCMD03-14W1	cable JZ-500 3x2,5	HELU-10121	HELUKABEL	
61	4	14.1	=D13+L1KTH01-x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
62	1	14.1	=D13+CCMD03-XNL1	AKG 16 BU	PC-0423014	PHOENIX CONTACT	
63	1	14.1	=D13+L1KTH01-14U1	KL terminal box 150x150x80	RIT-1514510	RITTAL	
64	2	14.1	=D13+CCMD03-14F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 2POLE - connector	PC-3048532	PHOENIX CONTACT	
	2			fuse 10x38; 500VAC; 20A - 31187	102152167	wöhner	
	1			EB56-18/L1-L2-L3 Einlegebrücke 56-pol., 3-phas.	PC-3009367	PHOENIX CONTACT	
65	1	14.2	=D13+CCMD03-14w2	cable JZ-500 3x2,5	HELU-10121	HELUKABEL	
66	1	14.2	=D13+CCMD03-14Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
67	4	14.2	=D13+L1KTH01-x1	USLKG 5	PC-0441504	PHOENIX CONTACT	
68	1	14.2	=D13+L1TH03-14E1	356-460202-00 L1-Frontheizung - Mitte	<a href="#">102149305</a>	ISOHEAT	
69	2	14.2	=D13+CCMD03-14F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 2POLE - connector	PC-3048532	PHOENIX CONTACT	
	2			fuse 10x38; 500VAC; 20A - 31187	102152167	wöhner	
70	20	14.2	=D13+CCMD03-XL1TH	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	20			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	10			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	10			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
71	1	14.5	=D13+L1TH01-14E1	356-460201-00 L1-Frontheizung - Links	<a href="#">102149306</a>	ISOHEAT	
72	16	14.5	=D13+L1KTH02-x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
73	8	14.5	=D13+CCMD03-XNL1	UKN 5 BU neutral wire parted terminal	<a href="#">PC-3032088</a>	PHOENIX CONTACT	

			date	12/05	A1500V-7 iznO_AZO		electric parts	388-810000	P/005388	
			devel.	Henker						
			check							
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
117	1	17.2	=D13+CCMD03-17W2	cable JZ-500 3x2,5	HELU-10121	HELIKABEL	
118	2	17.2	=D13+CCMD03-17F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 2POLE - connector	PC-3048532	PHOENIX CONTACT	
	2			fuse 10x38; 500VAC; 20A - 31187	102152167	wöhner	
119	20	17.2	=D13+CCMD03-XB1TH	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	20			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	10			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	10			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
120	10	17.5	=D13+B1KTH02-X1	USLKG 5	PC-0441504	PHOENIX CONTACT	
121	1	17.5	=D13+CCMD03-17W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
122	8	17.5	=D13+CCMD03-XNB1	UKN 5 BU neutral wire parted terminal	PC-3032088	PHOENIX CONTACT	
123	16	17.5	=D13+B1KTH02-X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
124	1	17.5	=D13+B1TH01-17E1	356-460201-00 L1-Frontheizung - Links	102149306	ISOHEAT	
125	1	17.5	=D13+B1KTH02-17U1	KL terminal box 300x150x80	RIT-1515510	RITTAL	
126	1	17.5	=D13+CCMD03-17Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
127	1	17.5	=D13+CCMD03-17F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
128	1	17.6	=D13+CCMD03-17Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
129	1	17.6	=D13+CCMD03-17W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
130	1	17.6	=D13+B1TH04-17E1	356-460204-00 L1-Frontheizung - Rechts	102149307	ISOHEAT	
131	1	17.6	=D13+CCMD03-17F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
132	1	18.1	=D13+CCMD03-18W1	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
133	1	18.1	=D13+B1TH41-18E1	356-460441-00 B1-Rückheizung - oben	102149315	ISOHEAT	
134	1	18.1	=D13+CCMD03-18Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
135	1	18.1	=D13+CCMD03-18F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
136	1	18.2	=D13+B1TH42-18E1	356-460441-00 B1-Rückheizung - oben	102149315	ISOHEAT	
137	1	18.2	=D13+CCMD03-18W2	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
138	1	18.2	=D13+CCMD03-18Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
139	1	18.2	=D13+CCMD03-18F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
140	1	18.3	=D13+CCMD03-18Q3	relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
141	1	18.4	=D13+B1TH43-18E1	356-460443-00 B1-Rückheizung - Mitte	102149317	ISOHEAT	
142	1	18.4	=D13+CCMD03-18W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
143	1	18.4	=D13+CCMD03-18F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
144	1	18.5	=D13+CCMD03-18Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
145	1	18.5	=D13+CCMD03-18W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
146	1	18.5	=D13+B1TH44-18E1	356-460443-00 B1-Rückheizung - Mitte	102149317	ISOHEAT	
147	1	18.5	=D13+CCMD03-18F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
148	1	18.6	=D13+B1TH45-18E1	356-460445-00 B1-Rückheizung - Unten	102149321	ISOHEAT	
149	1	18.6	=D13+CCMD03-18W5	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
150	1	18.6	=D13+CCMD03-18Q5	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
151	1	18.6	=D13+CCMD03-18F5	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
152	1	18.7	=D13+CCMD03-18Q6	relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
153	1	18.8	=D13+B1TH46-18E1	356-460445-00 B1-Rückheizung - Unten	102149321	ISOHEAT	
154	1	18.8	=D13+CCMD03-18W6	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
155	1	18.8	=D13+CCMD03-18F6	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
156	1	20.1	=D13+B2TH02-20E1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
157	1	20.1	=D13+B2KTH01-20U1	KL terminal box 300x150x80	RIT-1515510	RITTAL	
158	1	20.1	=D13+CCMDO3-20W1	cable JZ-500 3x2,5	HELU-10121	HELUKABEL	
159	4	20.1	=D13+B2KTH01-x1	USLKG 5	PC-0441504	PHOENIX CONTACT	
160	1	20.1	=D13+CCMDO3-20Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
161	1	20.1	=D13+CCMDO3-XNB2	AKG 16 BU	PC-0423014	PHOENIX CONTACT	
162	4	20.1	=D13+B2KTH01-x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
163	2	20.1	=D13+CCMDO3-20F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 2POLE - connector	PC-3048532	PHOENIX CONTACT	
	2			fuse 10x38; 500VAC; 20A - 31187	102152167	wöhner	
164	1	20.2	=D13+B2TH03-20E1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
165	1	20.2	=D13+CCMDO3-20W2	cable JZ-500 3x2,5	HELU-10121	HELUKABEL	
166	1	20.2	=D13+CCMDO3-20Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
167	2	20.2	=D13+CCMDO3-20F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			VS-UK 10,3 HESI N 2POLE - connector	PC-3048532	PHOENIX CONTACT	
	2			fuse 10x38; 500VAC; 20A - 31187	102152167	wöhner	
168	20	20.2	=D13+CCMDO3-XB2TH	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	20			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	10			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	10			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
169	1	20.5	=D13+B2TH01-20E1	356-460201-00 L1-Frontheizung - Links	102149306	ISOHEAT	
170	8	20.5	=D13+CCMDO3-XNB2	UKN 5 BU neutral wire parted terminal	PC-3032088	PHOENIX CONTACT	
171	1	20.5	=D13+CCMDO3-20Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
172	1	20.5	=D13+CCMDO3-20W3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
173	16	20.5	=D13+B2KTH02-x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
174	10	20.5	=D13+B2KTH02-x1	USLKG 5	PC-0441504	PHOENIX CONTACT	
175	1	20.5	=D13+B2KTH02-20U1	KL terminal box 300x150x80	RIT-1515510	RITTAL	
176	1	20.5	=D13+CCMDO3-20F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
177	1	20.6	=D13+B2TH04-20E1	356-460204-00 L1-Frontheizung - Rechts	102149307	ISOHEAT	
178	1	20.6	=D13+CCMDO3-20W4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
179	1	20.6	=D13+CCMDO3-20Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
180	1	20.6	=D13+CCMDO3-20F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
181	1	21.1	=D13+CCMDO3-21Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
182	1	21.1	=D13+B2TH41-21E1	356-460441-00 Bl-Rückheizung - Oben	102149315	ISOHEAT	
183	1	21.1	=D13+CCMDO3-21W1	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
184	1	21.1	=D13+CCMDO3-21F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
185	1	21.2	=D13+CCMDO3-21W2	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
186	1	21.2	=D13+CCMDO3-21Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
187	1	21.2	=D13+B2TH42-21E1	356-460441-00 Bl-Rückheizung - Oben	102149315	ISOHEAT	
188	1	21.2	=D13+CCMDO3-21F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
189	1	21.3	=D13+CCMDO3-21Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
190	1	21.4	=D13+B2TH43-21E1	356-460443-00 Bl-Rückheizung - Mitte	102149317	ISOHEAT	
191	1	21.4	=D13+CCMDO3-21W3	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
192	1	21.4	=D13+CCMDO3-21F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
193	1	21.5	=D13+CCMDO3-21Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
194	1	21.5	=D13+CCMDO3-21W4	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
195	1	21.5	=D13+B2TH44-21E1	356-460443-00 Bl-Rückheizung - Mitte	102149317	ISOHEAT	
196	1	21.5	=D13+CCMDO3-21F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	

			date	12/05				
			devel.	Henker				
			check					
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
283	1	27.4	=D13+CCMD03-27W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
284	1	27.4	=D13+CCMD03-27F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	Wöhner	
285	1	27.5	=D13+CCMD03-27W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
286	1	27.5	=D13+CCMD03-27Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
287	1	27.5	=D13+P1TH53-27E1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
288	1	27.5	=D13+CCMD03-27F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
289	1	27.6	=D13+P1TH54-27E1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
290	1	27.6	=D13+CCMD03-27Q5	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
291	1	27.6	=D13+CCMD03-27W5	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
292	1	27.6	=D13+CCMD03-27F5	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
293	1	27.7	=D13+CCMD03-27Q6	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
294	1	27.8	=D13+CCMD03-27W6	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
295	1	27.8	=D13+P1TH55-27E1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
296	1	27.8	=D13+CCMD03-27F6	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
297	1	31.1	=D13+CCMD03-31W1	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
298	18	31.1	=D13+P2KTH02-x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
299	11	31.1	=D13+P2KTH02-x1	USLGK 5	PC-0441504	PHOENIX CONTACT	
300	1	31.1	=D13+CCMD03-31Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
301	1	31.1	=D13+P2TH41-31E1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	
302	1	31.1	=D13+CCMD03-XNP2	AKG 16 BU	PC-0423014	PHOENIX CONTACT	
303	1	31.1	=D13+P2KTH02-31U1	KL terminal box 300x150x80	RIT-1515510	RITTAL	
304	1	31.1	=D13+CCMD03-31F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
305	30	31.1	=D13+CCMD03-XP2TH	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	30			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	15			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	15			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
306	1	31.2	=D13+CCMD03-31Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
307	1	31.2	=D13+CCMD03-31W2	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
308	1	31.2	=D13+P2TH42-31E1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	
309	1	31.2	=D13+CCMD03-31F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
310	1	31.3	=D13+CCMD03-31Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
311	1	31.4	=D13+P2TH43-31E1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
312	1	31.4	=D13+CCMD03-31W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
313	1	31.4	=D13+CCMD03-31F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
314	1	31.5	=D13+CCMD03-31Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
315	1	31.5	=D13+CCMD03-31W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
316	1	31.5	=D13+P2TH44-31E1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
317	1	31.5	=D13+CCMD03-31F4	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
318	1	31.6	=D13+CCMD03-31Q5	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
319	1	31.6	=D13+CCMD03-31W5	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
320	1	31.6	=D13+P2TH45-31E1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
321	1	31.6	=D13+CCMD03-31F5	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
322	1	31.7	=D13+CCMD03-31Q6	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
323	1	31.8	=D13+P2TH46-31E1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	

			date	12/05	A1500V-7 iZnO-AZO	LEYBOLD OPTICS	electric parts	388-810000	P/005388	
			devel.	Henker						
			check							
cond.	alter.	date	name	norm						sheet 36 of 87 < 35 37 >

## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
324	1	31.8	=D13+CCMD03-31w6	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
325	1	31.8	=D13+CCMD03-31f6	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
326	1	32.1	=D13+CCMD03-32w1	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
327	1	32.1	=D13+CCMD03-32o1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
328	1	32.1	=D13+P2TH47-32E1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	
329	1	32.1	=D13+CCMD03-32F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
330	1	32.2	=D13+P2TH48-32E1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
331	1	32.2	=D13+CCMD03-32Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
332	1	32.2	=D13+CCMD03-32w2	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
333	1	32.2	=D13+CCMD03-32F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
334	1	32.3	=D13+CCMD03-32Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
335	1	32.4	=D13+CCMD03-32W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
336	1	32.4	=D13+P2TH49-32E1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
337	1	32.4	=D13+CCMD03-32F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
338	1	33.1	=D13+CCMD03-33Q1	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
339	1	33.1	=D13+P2KTH03-33U1	KL terminal box 300x150x80	RIT-1515510	RITTAL	
340	1	33.1	=D13+CCMD03-33W1	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
341	12	33.1	=D13+P2KTH03-X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
342	1	33.1	=D13+P2TH50-33E1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
343	1	33.1	=D13+CCMD03-33F1	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
344	1	33.2	=D13+CCMD03-33W2	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
345	8	33.2	=D13+P2KTH03-X1	USLKG 5	PC-0441504	PHOENIX CONTACT	
346	1	33.2	=D13+P2TH51-33E1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	
347	1	33.2	=D13+CCMD03-33Q2	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
348	1	33.2	=D13+CCMD03-33F2	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
349	1	33.3	=D13+CCMD03-33Q3	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
350	1	33.4	=D13+P2TH52-33E1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	
351	1	33.4	=D13+CCMD03-33W3	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
352	1	33.4	=D13+CCMD03-33F3	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
353	1	33.5	=D13+P2TH53-33E1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
354	1	33.5	=D13+CCMD03-33W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
355	1	33.5	=D13+CCMD03-33Q4	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
356	1	33.5	=D13+CCMD03-33F4	UK 10,3 HEST N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
357	1	33.6	=D13+CCMD03-33W5	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
358	1	33.6	=D13+P2TH54-33E1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
359	1	33.6	=D13+CCMD03-33Q5	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
360	1	33.6	=D13+CCMD03-33F5	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 16A - 31186	102152166	wöhner	
361	1	33.7	=D13+CCMD03-33Q6	Relais SUL967460 Ub=3,5-32VDC/29/23A	102149183	ING.-BÜRO HARM	
362	1	33.8	=D13+CCMD03-33W6	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
363	1	33.8	=D13+P2TH55-33E1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
364	1	33.8	=D13+CCMD03-33F6	UK 10,3 HESI N - fuse holder for 10x38	PC-3048386	PHOENIX CONTACT	
	1			fuse 10x38; 500VAC; 10A - 31185	102152163	wöhner	
365	1	35.1	=D13+CCMD03-35W1	cable JZ-500 3x0,5	HELU-10002	HELIKABEL	
366	1	35.1	=D13+CCMD03-35S1	PS door switch	RIT-4127000	RITTAL	



## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.0	=D21+CCMC-6U9	TS Plinth element front/back H200xw1200	RIT-8602200	RITTAL	
2	1	6.0	=D21+CCMC-6U1	TS cabinet w1200xH2200xD600 RAL 7035	RIT-8226500	RITTAL	E76083
3	1	6.0	=D21+CCMC-6U8	TS Plinth element front/back H200xw1200	RIT-8602200	RITTAL	
4	1	6.0	=D21+CCMC-6U4	TS Topmount module w1200xH200xD600mm RAL7035	RIT-8801765	RITTAL	
5	1	6.0	=D21+CCMC-6U5	TS Topmount module w1200xH200xD600mm RAL7035	RIT-8801765	RITTAL	
6	1	6.0	=D21+CCMC-6U6	TS Topmount module side panel H200xD600	RIT-8801775	RITTAL	
7	1	6.0	=D21+CCMC-6U7	TS intermediate piece for mounting plate H:2200	RIT-4592700	RITTAL	
8	1	6.0	=D21+CCMC-6U2	TS cabinet w1200xH2200xD600 RAL 7035	RIT-8226500	RITTAL	E76083
9	1	6.0	=D21+CCMC-6U3	TS side panel (H200, D600) RAL7035	RIT-8126235	RITTAL	
	1			TS side panel (H200, D600)	RIT-8126235	RITTAL	
10	1	6.0	=D21+CCMC-6U10	TS Plinth side trim H200xD600	RIT-8602060	RITTAL	
	3			TS Plinth side trim H200xD600	RIT-8602060	RITTAL	
11	1	10.0	=D21+CCMC-w6mm	single wire-H07V-K 6mm <sup>2</sup> black	HELU-29177	HELIKABEL	
12	1	10.0	=D21+CCMC-w6mm	single wire-H07V-K 6mm <sup>2</sup> blue	HELU-29179	HELIKABEL	
13	1	10.0	=D21+CCMC-X0	UK 10 N BU	PC-3005086	PHOENIX CONTACT	
14	3	10.0	=D21+CCMC-X0	UK 10 N	PC-3005073	PHOENIX CONTACT	
15	1	10.1	=D21+CCMC-X0	USLKG 10 N	PC-3003923	PHOENIX CONTACT	
16	1	10.1	=D21+CCMC-w10mm	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELIKABEL	
17	3	10.1	=D21+CCMC-XPE	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
18	1	10.1	=D21+CCMC-X0	USLKG 35	PC-0444019	PHOENIX CONTACT	
19	1	10.2	=D21+CCMC-X21.1	USLKG 5	PC-0441504	PHOENIX CONTACT	
20	2	10.2	=D21+CCMC-X21.1	UK 5 N	PC-3004362	PHOENIX CONTACT	
21	2	10.3	=D21+CCMC-X21.2	USLKG 5	PC-0441504	PHOENIX CONTACT	
22	4	10.3	=D21+CCMC-X21.2	UK 5 N	PC-3004362	PHOENIX CONTACT	
23	1	11.0	=D21+CCMC-11F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
24	6	11.1	=D21+CCMC-XN	UKN 5 BU neutral wire parted terminal	PC-3032088	PHOENIX CONTACT	
25	3	11.1	=D21+CCMC-XPE	USLKG 5	PC-0441504	PHOENIX CONTACT	
26	1	11.1	=D21+CCMC-11T1	BW 1649 As-i power supply	102121455	Bühl+Wiedemann	
27	1	11.2	=D21+CCMC-11F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
28	1	11.2	=D21+CCMC-11T2	BW 1649 As-i power supply	102121455	Bühl+Wiedemann	
29	1	11.3	=D21+CCMC-11T3	power supply Quint-PS-100-240AC/24DC/5	PC-2938581	PHOENIX CONTACT	R
30	1	11.3	=D21+CCMC-11F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
31	1	11.5	=D21+CCMC-11W1	cable JZ-500 3x2,5	HELU-10121	HELIKABEL	
32	1	11.5	=D21+CCMC-w2,5mm	single wire-H07-K 2,5mm <sup>2</sup> bl	HELU-29147	HELIKABEL	
33	1	11.5	=D21+CCMC-w2,5mm	single wire-H07V-K 2,5mm <sup>2</sup> black	HELU-29145	HELIKABEL	
34	1	11.5	=D21+CCMC-11F4	circuit breaker FAZ-B6/1	MOE-278535	MOELLER	
35	6	11.5	=D21+CCMC-X22	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	6			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	3			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	3			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
36	1	11.6	=D21+CCMC-11F5	circuit breaker FAZ-B6/1	MOE-278535	MOELLER	
37	1	11.6	=D21+CCMC-11W2	cable JZ-500 3x2,5	HELU-10121	HELIKABEL	
38	1	11.7	=D21+CCMC-11F6	circuit breaker FAZ-B6/1	MOE-278535	MOELLER	
39	1	12.0	=D21+CCMC-12F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
40	5	12.1	=D21+CCMC-XP	FBI 10-10	PC-0203276	PHOENIX CONTACT	
41	21	12.1	=D21+CCMC-XP	UK 10 N	PC-3005073	PHOENIX CONTACT	
42	1	12.1	=D21+CCMC-12F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
43	1	12.1	=D21+CCMC-12F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
44	1	12.1	=D21+CCMC-12T1	power supply QUINT-PS/3AC/24DC/20	PC-2866792	PHOENIX CONTACT	R
45	1	12.2	=D21+CCMC-12FX1	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
	1			FBS 3-8 jumper 3in 41A KL-B8,2	PC-3030297	PHOENIX CONTACT	
46	3	12.2	=D21+CCMC-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	

			date	12/05	A1500V-7 iznO_AZO	LEYBOLD OPTICS	electric parts	388-810000	P/005388	
			devel.	Henker						
			check							
cond.	alter.	date	name	norm						sheet 39 of 87 < 38 40 >

## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
	1			FBS 3-5 jumper 3pin 24A KL-B5,2	PC-3030174	PHOENIX CONTACT	
	1			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
47	6	12.2	=D21+CCMC-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	3			FBS 2-5 jumper 2pin 24A KL-B5,2	PC-3030161	PHOENIX CONTACT	
	3			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
48	1	12.3	=D21+CCMC-12FX2	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
	1			FBS 3-8 jumper 3in 41A KL-B8,2	PC-3030297	PHOENIX CONTACT	
49	1	12.4	=D21+CCMC-12FX3	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
50	1	12.5	=D21+CCMC-12FX4	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
51	1	12.6	=D21+CCMC-12FX5	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 4 thermal circuit breaker	PC-0712259	PHOENIX CONTACT	
52	1	13.0	=D21+CCMC-13F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
53	1	13.1	=D21+CCMC-13F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
54	1	13.1	=D21+CCMC-13F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
55	1	13.1	=D21+CCMC-13T1	power supply QUINT-PS/3AC/24DC/20	PC-2866792	PHOENIX CONTACT	R
56	1	13.2	=D21+CCMC-13FX1	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
	1			FBS 2-5 jumper 4pin 41A KL-B5,2	PC-3030307	PHOENIX CONTACT	
57	1	13.3	=D21+CCMC-13W1	cable JZ-500 5x2,5	HELU-10125	HELIKABEL	
58	1	13.3	=D21+CCMC-13FX2	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
	1			FBS 2-5 jumper 4pin 41A KL-B5,2	PC-3030307	PHOENIX CONTACT	
59	1	13.4	=D21+CCMC-13W2	cable JZ-500 5x2,5	HELU-10125	HELIKABEL	
60	1	13.5	=D21+CCMC-13FX3	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
61	1	13.6	=D21+CCMC-13W3	cable JZ-500 5x2,5	HELU-10125	HELIKABEL	
62	1	13.6	=D21+CCMC-13FX4	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
63	1	13.7	=D21+CCMC-13W4	cable JZ-500 5x2,5	HELU-10125	HELIKABEL	
64	1	13.7	=D21+CCMC-13FX5	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
65	40	13.7	=D21+CCMC-13X1	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	16			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	8			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
	8			PC 4/6-STF-7,62	PC-1828281	PHOENIX CONTACT	
66	1	14.0	=D21+CCMC-14F1	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
67	1	14.1	=D21+CCMC-14T1	power supply QUINT-PS/3AC/24DC/20	PC-2866792	PHOENIX CONTACT	R
68	1	14.1	=D21+CCMC-W2,5 <sup>2</sup>	wire H07V-K 2.5mm <sup>2</sup> brown-white	HELU-29384	HELIKABEL	
69	1	14.1	=D21+CCMC-14F3	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
70	1	14.1	=D21+CCMC-14F2	circuit breaker FAZ-B6/1	MOE-278529	MOELLER	
71	1	14.1	=D21+CCMC-W2,5 <sup>2</sup>	wire H07V-K 2.5mm <sup>2</sup> brown-white	HELU-29384	HELIKABEL	
72	2	14.1	=D21+CCMC-XP	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
73	1	14.2	=D21+CCMC-14FX1	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
74	1	14.3	=D21+CCMC-14FX2	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 6 thermal circuit breaker	PC-0712275	PHOENIX CONTACT	
75	1	14.4	=D21+CCMC-14FX3	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 6 thermal circuit breaker	PC-0712275	PHOENIX CONTACT	
76	1	14.5	=D21+CCMC-14FX4	ST 4-FSI/C-LED 24 fuse terminal	PC-3036505	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
109	1	16.5	=D21+CCMC-16W4	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
110	1	16.5	=D21+CCMC-16FX3	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
111	1	16.5	=D21+CCMC-16K4	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
112	1	16.6	=D21+B8-16E1	halogen lamp 24 V 20 W	RS-743-842	RS	
113	1	16.6	=D21+CCMC-16W6	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
114	1	16.6	=D21+CCMC-16W5	cable JZ-500 5x1,5	HELU-10095	HELIKABEL	
115	1	16.6	=D21+CCMC-16FX4	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
116	1	16.6	=D21+CCMC-16K5	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
117	1	16.6	=D21+CCMC-16X1	ZFK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
118	1	16.7	=D21+CCMC-16W7	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
119	1	16.7	=D21+B9-16E1	halogen lamp 24 V 20 W	RS-743-842	RS	
120	1	16.7	=D21+CCMC-16FX5	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
121	1	16.7	=D21+CCMC-16K6	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
122	1	16.8	=D21+CCMC-16W8	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
123	1	16.8	=D21+B9-16E1	halogen lamp 24 V 20 W	RS-743-842	RS	
124	1	16.8	=D21+CCMC-16FX6	ST 4-FSI/C fuse terminal	PC-3036372	PHOENIX CONTACT	
	1			TCP 2 thermal circuit breaker	PC-0712217	PHOENIX CONTACT	
125	1	16.8	=D21+CCMC-16K7	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
126	1	20.1	=D21+CCMC-XPE	Funktionserde			
127	1	20.1	=D21+CCMC-20K1	6EST400-1JA01-0AA0 S7-400 BGT 9 Plätze	102080209	SIEMENS	
128	1	20.1	=D21+CCMC-XPE	AKG 4 GNEY	PC-0421029	PHOENIX CONTACT	
129	1	20.1	=D21+CCMC-20K2	6EST405-0KA02-0AA0 STROMVERS. PS405 10A R, 24V	102150146	SIEMENS	
	1			6EST7971-0BA00 S7-400 Pufferbatterie	102080208	SIEMENS	
130	1	20.2	=D21+CCMC-20K3	6EST7414-3XJ04-0AB0 S7-CPU414-3	102080205	SIEMENS	
	1			6EST7964-2AA04-0AB0 S7-IF964-DP	102080206	SIEMENS	
	1			6EST7952-1AL00-0AA0 S7-RAM-Memory Card	1020802491	SIEMENS	
131	1	20.4	=D21+CCMC-20K4	6GK7443-1EX11-0XE0 S7-CP443-1	102080210	SIEMENS	
132	1	21.0	=D21+CCMC-21w11	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
133	1	21.0	=D21+CCMC-21we2	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
134	1	21.0	=D21+CCMC-21we1	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
135	1	21.0	=D21+CCMC-21w12	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
136	12	21.0	=D21+CCMC-21xe1	J00029K0036 AMJ-Modul K Cat.6-	102119285	Telegärtner	
	12			H06000A0045 top hat rail adapter 90/180	102119289	Telegärtner	
137	1	21.1	=D21+CCMC-21w13	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
138	1	21.1	=D21+CCMC-21w16	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
139	1	21.1	=D21+CCMC-21w15	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
140	1	21.1	=D21+CCMC-21we6	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
141	1	21.1	=D21+CCMC-21we5	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
142	1	21.1	=D21+CCMC-21we3	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
143	1	21.1	=D21+CCMC-21we4	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
144	1	21.1	=D21+CCMC-21w14	cable LAN HELUKAT S-stp 4x2xAWG24 CAT6 green	HELU-82501	HELIKABEL	
145	1	21.2	=D21+CCMC-21we7	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	
146	1	21.2	=D21+CCMC-21t1	FL SWITCH SF 16TX Ethernet Switch	PC-2832849	PHOENIX CONTACT	
147	1	21.2	=D21+CCMC-21we8	cable grade cable RJ 45/ 2m	HELU-80349	HELIKABEL	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
189	1	28.1	=D21+T1SD02-28X1	AS-i FK junktion M12	102121461	IFM	
190	1	28.1	=D21+T1SD01-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
191	1	28.1	=D21+T1SD02-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
192	1	28.1	=D21+P1-XAS2	AS-i FK junktion M12	102121465	IFM	
	7			AS-i FK junktion M12	102121465	IFM	
193	1	28.2	=D21+SNO1-28X1	AS-i FK junktion M12	102121465	IFM	
194	1	28.2	=D21+CCOS-28XAS1	AS-i FK router	102123806	IFM	
195	1	28.2	=D21+SNO1-28S1	ASi EMO-button, illuminated	102123962	IFM	
	1			RMQ-M22-XGPV protective shroud	MOE-231273	MOELLER	
196	1	28.3	=D21+SN05-28X1	AS-i FK junktion M12	102121465	IFM	
197	1	28.3	=D21+P1SDH11-28X1	AS-i FK junktion M12	102121465	IFM	
198	1	28.3	=D21+P1-28XAS1	AS-i FK router	102123806	IFM	
199	1	28.3	=D21+SN05-28S1	RMQ-M22-PVL ES button, ilum.	MOE-216878	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
	1			RMQ-M22-XAK1 emergency stop lable	MOE-216465	MOELLER	
2				RMQ-M22-K01 contact nc front	MOE-216378	MOELLER	
1				AS-i safety in module AC015S	102123964	IFM	
1				RMQ-M22-LED-R 18-30V red LED	MOE-216558	MOELLER	
1				RMQ-M22-XGPV protective shroud	MOE-231273	MOELLER	
200	1	28.3	=D21+P1SDH11-28B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
201	1	28.4	=D21+P1SD21-28X1	AS-i FK junktion M12	102121465	IFM	
202	1	28.4	=D21+P1SD31-28X1	AS-i FK junktion M12	102121461	IFM	
203	1	28.4	=D21+P1SD31-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
204	1	28.5	=D21+P1SD11-28X1	AS-i FK junktion M12	102121465	IFM	
205	1	28.5	=D21+P1SD21-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
206	1	28.5	=D21+P1SD11-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
207	1	28.6	=D21+B2SD01-28X1	AS-i FK junktion M12	102121465	IFM	
208	1	28.6	=D21+B2SD01-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
209	1	28.7	=D21+B1SD01-28X1	AS-i FK junktion M12	102121465	IFM	
210	1	28.7	=D21+L1SD01-28X1	AS-i FK junktion M12	102121465	IFM	
211	1	28.7	=D21+B1SD01-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
212	1	28.8	=D21+L1SD01-2881	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
213	1	29.1	=D21+P2-29XAS1	AS-i FK router	102123806	IFM	
214	1	29.2	=D21+P2SDH11-29X1	AS-i FK junktion M12	102121465	IFM	
215	1	29.2	=D21+SN06-29X1	AS-i FK junktion M12	102121465	IFM	
216	1	29.2	=D21+SN06-29S1	RMQ-M22-PVL ES button, ilum.	MOE-216878	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
	1			RMQ-M22-XAK1 emergency stop lable	MOE-216465	MOELLER	
2				RMQ-M22-K01 contact nc front	MOE-216378	MOELLER	
1				AS-i safety in module AC015S	102123964	IFM	
1				RMQ-M22-LED-R 18-30V red LED	MOE-216558	MOELLER	
1				RMQ-M22-XGPV protective shroud	MOE-231273	MOELLER	
217	1	29.2	=D21+P2SDH11-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
218	1	29.3	=D21+P2SD11-29X1	AS-i FK junktion M12	102121465	IFM	
219	1	29.3	=D21+P2SDH31-29X1	AS-i FK junktion M12	102121465	IFM	
220	1	29.3	=D21+P2SDH21-29X1	AS-i FK junktion M12	102121465	IFM	
221	1	29.3	=D21+P2SD11-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
222	1	29.3	=D21+P2SDH21-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
223	1	29.3	=D21+P2SDH31-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
224	1	29.4	=D21+SN02-29X1	AS-i FK junktion M12	102121465	IFM	
225	1	29.4	=D21+P2SD21-29X1	AS-i FK junktion M12	102121465	IFM	
226	1	29.4	=D21+P2SD21-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
227	1	29.4	=D21+SN02-29S1	ASI EMO-button, illuminated	102123962	IFM	
	1			RMQ-M22-XGPV protective shroud	MOE-231273	MOELLER	
228	1	29.5	=D21+B8SD01-29X1	AS-i FK junktion M12	102121465	IFM	
229	1	29.5	=D21+T9SD01-29X1	AS-i FK junktion M12	102121465	IFM	
230	1	29.5	=D21+P2SD31-29X1	AS-i FK junktion M12	102121461	IFM	
231	1	29.5	=D21+P2SD31-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
232	1	29.5	=D21+B8SD01-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
233	1	29.5	=D21+T9SD01-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
234	1	29.6	=D21+T9SD02-29X1	AS-i FK junktion M12	102121465	IFM	
235	1	29.6	=D21+B9SD01-29X1	AS-i FK junktion M12	102121465	IFM	
236	1	29.6	=D21+SN04-29X1	AS-i FK junktion M12	102121461	IFM	
237	1	29.6	=D21+B9SD01-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
238	1	29.6	=D21+T9SD02-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
239	1	29.7	=D21+L9SD01-29X1	AS-i FK junktion M12	102121461	IFM	
240	1	29.7	=D21+L9SD01-29B1	Schmersal Asi-safety switch BNS 260 STG-AS-L	102122912	Schmersal	
	1			Schmersal field magnet BPS 260-1	102122918	Schmersal	
241	1	29.7	=D21+SN04-29S1	ASI EMO-button, illuminated	102123962	IFM	
	1			RMQ-M22-XGPV protective shroud	MOE-231273	MOELLER	
	1			SAC-4P-5,0-PUR/M12FR sensor cable, female jack, angled	Model 668247	PHOENIX CONTACT	
242	1	30.0	=D21+CCMC-30K1	Pilz EO relay PZE 9 exp. 24VDC	Pilz-774150	PILZ	
243	1	30.0	=D21+CCMC-30K2	Pilz EO relay PZE 9 exp. 24VDC	Pilz-774150	PILZ	
244	1	30.2	=D21+CCMC-30W1	cable JZ-500 7x0,5	HELU-10009	HELIKABEL	
245	5	30.2	=D21+CCMC-X41	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
246	1	30.3	=D21+CCMC-X41	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
247	5	30.5	=D21+CCMC-X49	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
248	1	30.6	=D21+CCMC-X49	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	

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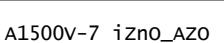
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
249	1	30.8	=D21+CCMC-30K3	AS-i safety in module AC009S	102121460	IFM	
	5			AS-i plug for safety IN module E70232	102122901	IFM	
250	2	30.8	=D21+CCMC-X49	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
251	2	30.8	=D21+CCMC-X49	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	2			ZFK 1,5-MSTBV-5,08-PE/F	<a href="#">PC-1873032</a>	PHOENIX CONTACT	
252	1	32.1	=D21+CCMC-32W1	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
253	1	32.1	=D21+CCMC-32K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
254	1	32.2	=D21+CCMC-32K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
255	8	32.2	=D21+CCMC-X42	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	4			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	4			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
256	1	32.3	=D21+CCMC-32W2	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
257	1	32.3	=D21+CCMC-32K3	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
258	8	32.3	=D21+CCMC-X42	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	4			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	4			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	8			ZFK 1,5-MSTBV-5,08-PE/F	<a href="#">PC-1873032</a>	PHOENIX CONTACT	
259	1	32.4	=D21+CCMC-32W3	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
260	1	32.4	=D21+CCMC-32K4	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
261	1	32.5	=D21+CCMC-32W4	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
262	1	32.5	=D21+CCMC-32K5	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
263	1	32.6	=D21+CCMC-32W5	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
264	1	32.6	=D21+CCMC-32K6	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
265	1	32.7	=D21+CCMC-32W6	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
266	1	32.7	=D21+CCMC-32W7	cable TRONIC-CY(LiYCY) 2x0,34	HELU-20056	HELUKABEL	
267	1	32.7	=D21+CCMC-32K7	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
268	1	33.1	=D21+CCMC-33W1	cable JZ-500 3x1,5	HELU-10091	HELUKABEL	
269	9	33.1	=D21+CCMC-X43	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
	2			ZFK 1,5-MSTBV-5,08-PE/F	<a href="#">PC-1873032</a>	PHOENIX CONTACT	
270	1	33.2	=D21+CCMC-33W2	cable JZ-500 5x0,75	HELU-10035	HELUKABEL	
271	1	33.5	=D21+CCMC-X43	ZFK 1,5-MSTBV-5,08	<a href="#">PC-1873016</a>	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
272	1	34.2	=D21+CCMC-34W1	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
273	1	34.2	=D21+CCMC-34K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	
274	1	34.3	=D21+CCMC-34W2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
275	1	34.3	=D21+CCMC-34K2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	<a href="#">PC-2967219</a>	PHOENIX CONTACT	

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			devel.	Henker					
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
276	12	34.3	=D21+CCMC-X44	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	6			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	6			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
277	1	34.5	=D21+CCMC-34w3	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
278	1	34.5	=D21+CCMC-34k3	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
279	12	34.5	=D21+CCMC-X44	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	6			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	6			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	12			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
280	1	34.6	=D21+CCMC-34w4	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
281	1	34.6	=D21+CCMC-34k4	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
282	1	34.6	=D21+CCMC-34k5	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
283	1	34.7	=D21+CCMC-34w5	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
284	1	34.7	=D21+CCMC-34k6	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
285	1	34.8	=D21+CCMC-34w6	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
286	1	35.1	=D21+CCMC-35k1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
287	1	35.2	=D21+CCMC-35w1	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
288	1	35.2	=D21+CCMC-35w2	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
289	1	35.2	=D21+CCMC-35k2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
290	1	35.3	=D21+CCMC-35w3	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
291	1	35.3	=D21+CCMC-35k3	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
292	1	35.4	=D21+CCMC-35w4	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
293	1	35.4	=D21+CCMC-35k4	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
294	1	35.7	=D21+CCMC-35w5	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
295	1	35.7	=D21+CCMC-35k5	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
296	1	35.8	=D21+CCMC-35w6	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
297	1	35.8	=D21+CCMC-35k6	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
298	1	36.0	=D21+CCMC-36k1	Pilz EO relays PNOZ X2.8p; 24VDC; 3s1o	Pilz-777301	PILZ	
299	1	36.1	=D21+CCMC-36w1	cable JZ-500 7x0,5	HELU-10009	HELIKABEL	
300	9	36.1	=D21+CCMC-X44	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
301	1	36.2	=D21+CCMC-36w2	cable JZ-500 7x0,5	HELU-10009	HELIKABEL	
302	1	36.2	=D21+CCMC-X44	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
303	1	36.4	=D21+CCMC-33WPE1	single wire-H07V-K 4mm² gn/ye	HELU-29162	HELIKABEL	
304	1	40.0	=D21+CCMC-40W1	cable JZ-500 3x0,5	HELU-10002	HELIKABEL	
305	1	40.0	=D21+CCMC-40S1	PS door switch	RIT-4127000	RITTAL	
306	2	40.0	=D21+CCMC-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	

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			devel.	Henker			
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
307	1	40.1	=D21+CCMC-40w2	cable JZ-500 3x0,5	HELU-10002	HELIKABEL	
308	1	40.1	=D21+CCMC-40s2	PS door switch	RIT-4127000	RITTAL	
309	2	40.1	=D21+CCMC-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
310	1	40.2	=D21+CCMC-40K1	REL-MR-24DC/21-21 Relays	PC-2961192	PHOENIX CONTACT	
	1			PLC-BSC-24DC/21-21 base element (wide)	PC-2967015	PHOENIX CONTACT	
311	1	40.3	=D21+CCMC-40w3	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
312	1	40.3	=D21+CCMC-W	cable JZ-500 3x1,5	HELU-10091	HELIKABEL	
313	1	40.3	=D21+CCMC-40E1	SK basic controller heat exchanger 2500W	RIT-3209100	RITTAL	E117603
	1			SK air duct system for roof system devices	RIT-3286870	RITTAL	
	1			SK direction change 90 degree for air duct system	RIT-3286990	RITTAL	
	3			SK stopper for roof system devices	RIT-3286880	RITTAL	
314	2	40.3	=D21+CCMC-X24	PCVK 4-7,62	PC-1849998	PHOENIX CONTACT	R
	2			PCVK 4-7,62-F	PC-1850000	PHOENIX CONTACT	
	1			PC 4/3-STF-7,62	PC-1828252	PHOENIX CONTACT	
	1			PCVK 4-7,62-PE	PC-1876246	PHOENIX CONTACT	
315	5	40.3	=D21+CCMC-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
316	1	40.6	=D21+CCMC-40w4	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
317	1	40.6	=D21+CCMC-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
318	1	41.1	=D21+WAB-41M1	cooling water station		KLH	
319	1	41.1	=D21+CCMC-41W1	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
320	1	41.1	=D21+CCMC-41K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VD base element (small)	PC-2967219	PHOENIX CONTACT	
321	5	41.1	=D21+CCMC-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
322	1	41.3	=D21+CCMC-41w2	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
323	1	41.3	=D21+CCMC-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
324	2	45.0	=D21+CCMC-XP	support for busbar AB-SK	PC-3025341	PHOENIX CONTACT	
	1			NLS-CU 3/10 METER SN Cu-rail	PC-0402174	PHOENIX CONTACT	
325	1	45.1	=D21+CCMC-45X1	D-SUB-Buchse FLMK-HD-15 SUB/B	PC-5528367	PHOENIX CONTACT	
326	1	45.1	=D21+CCMC-45W1	cable 100013623 for 901P RS232 l=10m	102124033	MKS	
327	1	45.3	=D21+CCMC-45W2	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
328	1	45.4	=D21+V1VB01-45Y2	SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
329	1	45.4	=D21+CCMC-45W3	cable TRONIC (Liyy) 4x0,34	HELU-18059	HELIKABEL	
330	2	45.4	=D21+CCMC-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	2			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	2			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
331	10	45.5	=D21+CCMC-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	2			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	2			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	4			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
332	1	46.0	=D21+V1SL01-4681	ISE40A-01-Y Druckschalter	ISE40A-01-Y	SMC	

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			devel.	Henker				
			check					
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## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
37	1	13.2	=E01+CCSC-13W3	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
38	1	13.2	=E01+CCSC-13W2	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
39	1	13.2	=E01+CCSC-13W4	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
40	1	13.4	=E01+CCSC-13W5	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
41	1	13.4	=E01+CCSC-13W6	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
42	1	13.4	=E01+l1AK01-13M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
43	1	13.4	=E01+CCSC-13T2	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
44	1	13.5	=E01+l1AK11-13M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
45	1	13.5	=E01+CCSC-13W8	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
46	1	13.5	=E01+CCSC-13W7	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
47	1	13.6	=E01+CCSC-13W9	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
48	1	13.6	=E01+CCSC-13T3	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
49	1	13.7	=E01+CCSC-13W12	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
50	1	13.7	=E01+B8AK01-13M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
51	1	13.7	=E01+CCSC-13W10	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
52	1	13.7	=E01+CCSC-13W11	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
53	1	13.8	=E01+B8AK11-13M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
54	1	14.1	=E01+CCSC-14W1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
55	1	14.1	=E01+CCSC-14T1	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
56	1	14.2	=E01+B2AK01-14M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
57	1	14.2	=E01+B1AK01-14M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
58	1	14.2	=E01+CCSC-14W2	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
59	1	14.2	=E01+CCSC-14W4	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
60	1	14.2	=E01+CCSC-14W3	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
61	1	14.4	=E01+CCSC-14W5	6FX5002-5CS01-1BA0 LEISTUNGSLEITUNG 10M	102113738	SIEMENS	
62	1	14.4	=E01+p1AK01-14M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
63	1	14.4	=E01+CCSC-14T2	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
64	1	14.4	=E01+CCSC-14W6	6FX5002-2DC10-1BA0 SIGNALLEITUNG 10M	102113742	SIEMENS	
65	1	14.5	=E01+CCSC-14W7	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
66	1	14.5	=E01+p2AK01-14M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
67	1	14.5	=E01+CCSC-14W8	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
68	1	15.1	=E01+CCSC-15W1	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
69	1	15.1	=E01+CCSC-15T1	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
70	1	15.2	=E01+CCSC-15W3	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
71	1	15.2	=E01+B2AK11-15M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
72	1	15.2	=E01+B1AK11-15M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
73	1	15.2	=E01+CCSC-15W2	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
74	1	15.2	=E01+CCSC-15W4	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
75	1	15.4	=E01+CCSC-15T2	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
76	1	15.4	=E01+CCSC-15W5	6FX5002-5CS01-1BA0 LEISTUNGSLEITUNG 10M	102113738	SIEMENS	
77	1	15.4	=E01+p1AK11-15M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
78	1	15.4	=E01+CCSC-15W6	6FX5002-2DC10-1BA0 SIGNALLEITUNG 10M	102113742	SIEMENS	
79	1	15.5	=E01+p2AK11-15M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
80	1	15.5	=E01+CCSC-15W7	6FX5002-5CS01-1BF0 LEISTUNGSLEITUNG 15M	102113741	SIEMENS	
81	1	15.5	=E01+CCSC-15W8	6FX5002-2DC10-1BF0 SIGNALLEITUNG 15M	102113743	SIEMENS	
82	1	16.1	=E01+CCSC-16T1	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	
83	1	16.1	=E01+CCSC-16W1	6FX5002-5CS01-1CA0 LEISTUNGSLEITUNG 20M	102112221	SIEMENS	
84	1	16.2	=E01+CCSC-16W3	6FX5002-5CS01-1CF0 LEISTUNGSLEITUNG 25M	102125805	SIEMENS	
85	1	16.2	=E01+B9AK11-16M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
86	1	16.2	=E01+CCSC-16W4	6FX5002-2DC10-1CF0 SIGNALLEITUNG 25M	102125802	SIEMENS	
87	1	16.2	=E01+CCSC-16W2	6FX5002-2DC10-1CA0 SIGNALLEITUNG 20M	102112224	SIEMENS	
88	1	16.2	=E01+B9AK01-16M1	1FK7032-5AK71-1UG5 SERVO DRIVE CLIQ	102112206	SIEMENS	
89	1	16.4	=E01+CCSC-16T2	SINAMICS S120 DOUBLE MOTOR MODULE	102112215	SIEMENS	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.0	=E11+CCPS03-6U1	TS server rack 600x2000x1000 RAL 7035	RIT-7831438	RITTAL	
2	1	6.0	=E11+CCPS02-6U1	TS server rack 600x2000x1000 RAL 7035	RIT-7831438	RITTAL	
3	1	6.0	=E11+CCPS01-6U1	TS server rack 600x2000x1000 RAL 7035	RIT-7831438	RITTAL	
4	1	6.0	=E11+CCPS01-6U2	TS Server Rack side panel 2000x1000 RAL 7035	RIT-7824200	RITTAL	
5	1	6.0	=E11+CCPS02-6U2	TS Server Rack side panel 2000x1000 RAL 7035	RIT-7824200	RITTAL	
	1			TS Server Rack side panel 2000x1000 RAL 7035	RIT-7824200	RITTAL	
6	1	6.0	=E11+CCPS02-6U4	TS adapter profile 19" 42HU H:2000	RIT-8613000	RITTAL	
	1			TS screen horizontal 19" 1600/2000	RIT-8613040	RITTAL	
	2			TS Adapter für PS-Kompat.(Schrank2000)	RIT-8800300	RITTAL	
7	1	6.0	=E11+CCPS03-6U4	TS adapter profile 19" 42HU H:2000	RIT-8613000	RITTAL	
	1			TS screen horizontal 19" 1600/2000	RIT-8613040	RITTAL	
	2			TS Adapter für PS-Kompat.(Schrank2000)	RIT-8800300	RITTAL	
8	1	6.0	=E11+CCPS03-6U2	TS Server Rack side panel 2000x1000 RAL 7035	RIT-7824200	RITTAL	
	1			TS Server Rack side panel 2000x1000 RAL 7035	RIT-7824200	RITTAL	
9	1	6.0	=E11+CCPS01-6U3	TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
	3			TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
10	1	6.0	=E11+CCPS02-6U3	TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
	3			TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
11	1	6.0	=E11+CCPS03-6U3	TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
	3			TS Server Rack side panel, safety lock	RIT-7824500	RITTAL	
12	1	6.0	=E11+CCPS01-6U4	TS adapter profile 19" 42HU H:2000	RIT-8613000	RITTAL	
	1			TS screen horizontal 19" 1600/2000	RIT-8613040	RITTAL	
	2			TS Adapter für PS-Kompat.(Schrank2000)	RIT-8800300	RITTAL	
13	1	10.0	=E11+CCPS01-10F1	758022 Erdungsstab für Hochspann.-geräte	DD000545	Dehn& Söhne	
14	2	10.0	=E11+CCPS01-XPE	SV line termination clamp 16-50 mm <sup>2</sup> S=5 mm	RIT-3452500	RITTAL	
15	1	10.0	=E11+CCPS01-10U1	##SV Sammelschienenhalter bis 800A, 1polig	RIT-3078000	RITTAL	
16	1	10.1	=E11+CCPS01-10W1	cable grade cable RJ 45/ 2m	HELU-80349	HELUKABEL	
17	1	10.1	=E11+CCPS01-10xe1	J00029K0036 AMJ-Modul K Cat.6+	102119285	Telegärtner	
	1			H06000A0045 top hat rail adapter 90/180	102119289	Telegärtner	
18	1	10.2	=E11+P1GEN11-10G1	Ascent 40kw DC-power supply 460V	102147333	ADVANCED ENERGY	
19	1	10.2	=E11+CCPS01-10W1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	102122064	LEONI	
20	1	10.2	=E11+P1MAG11-10G1	357-620002-00 zylindermagnetron 1 Rohr	102148863	LOD	
	1			cable gland HSK-PA M50x1,5(32-38)	HELU-96972	HELUKABEL	
	1			cable gland nut KMK-PA-M50	HELU-97822	HELUKABEL	
21	1	10.4	=E11+CCPS01-XPE	protection earth			
22	1	11.4	=E11+CCPS01-XPE	protection earth			
23	1	12.4	=E11+CCPS01-XPE	protection earth			
24	4	13.0	=E11+CCPS02-XPE	SV line termination clamp 16-50 mm <sup>2</sup> S=5 mm	RIT-3452500	RITTAL	
25	1	13.0	=E11+CCPS02-13U1	##SV Sammelschienenhalter bis 800A, 1polig	RIT-3078000	RITTAL	
26	1	13.0	=E11+CCPS02-13F1	758022 Erdungsstab für Hochspann.-geräte	DD000545	Dehn& Söhne	
27	1	13.1	=E11+CCPS02-13W1	cable grade cable RJ 45/ 2m	HELU-80349	HELUKABEL	
28	1	13.1	=E11+CCPS02-13xe1	J00029K0036 AMJ-Modul K Cat.6+	102119285	Telegärtner	
	1			H06000A0045 top hat rail adapter 90/180	102119289	Telegärtner	
29	1	13.2	=E11+CCPS02-13W1	sputter cable, shielded, 3x2x16mm <sup>2</sup>	102122064	LEONI	
30	1	13.2	=E11+P2GEN11-13G1	Ascent 40kw DC-power supply 460V	102147333	ADVANCED ENERGY	
31	1	13.2	=E11+P2MAG11-13G1	357-620002-00 zylindermagnetron 1 Rohr	102148863	LOD	
	1			cable gland HSK-PA M50x1,5(32-38)	HELU-96972	HELUKABEL	
	1			cable gland nut KMK-PA-M50	HELU-97822	HELUKABEL	
32	1	13.4	=E11+CCPS02-XPE	protection earth			
33	1	13.6	=E11+P2GEN12-13G1	Ascent 40kw DC-power supply 460V	102147333	ADVANCED ENERGY	
34	1	13.6	=E11+P2MAG12-13G1	357-620002-00 zylindermagnetron 1 Rohr	102148863	LOD	
	1			cable gland HSK-PA M50x1,5(32-38)	HELU-96972	HELUKABEL	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.3	=M30+B1KK01-6U1	AE control cabinet 1000x1000x300	RIT-1110500	RITTAL	
	1			TS module plate for cable feedthrough	RIT-8609170	RITTAL	
2	6	10.0	=M30+B1KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	3			FBS 2-5 jumper 2pin 24A KL-B5,2	PC-3030161	PHOENIX CONTACT	
	3			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
3	15	10.1	=M30+B1KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	3			FBS 5-5 jumper 5pin 24A KL-B5,2	PC-3030190	PHOENIX CONTACT	
	3			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
4	4	10.1	=M30+B1KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	4			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
5	1	10.3	=M30+B1KK01-10T1	SCI RS232<->Profibus Umsetzer		CTI	
6	1	10.5	=M30+B1KK01-10W3	cable JZ-500 2x0,75	HELU-10030	HELUKABEL	
7	2	10.5	=M30+B1KK01-10X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
8	1	10.5	=M30+B1KK01-10T2	SCI RS232<->Profibus Umsetzer		CTI	
9	1	10.5	=M30+B1KK01-10B1	SK temperature display digital 24-60 V DC	RIT-3114200	RITTAL	
	1			drawing 267-700010-01sheet	102083722	Leybold Optics GmbH	
10	1	10.5	=M30+B1KK01-10M1	SK filter fan 116x116x52 20 m³/h / 24VDC	RIT-3321027	RITTAL	UL
	2			SK outlet filter 148mm RAL7035	RIT-3322207	RITTAL	
11	1	10.8	=M30+B1KK01-10RC1	filtermodule RC 24V AC/DC	MURR-20680	MURR	
12	1	11.1	=M30+B1KK01-11K1	IL PB BK DP/V1 bus coupler profibus	PC-2718688	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
13	1	11.2	=M30+B1KK01-11K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
14	1	11.4	=M30+B1KK01-11K3	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
15	1	11.6	=M30+B1KK01-11K4	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
16	1	12.2	=M30+B1KK01-12K1	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
17	1	12.4	=M30+B1KK01-12K2	IB IL AI 2/SF Analog In terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
18	1	12.5	=M30+B1KK01-12K3	IB IL AI 2/SF Analog In terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
19	1	12.6	=M30+B1KK01-12K4	IB IL AI 2/SF Analog In terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
20	1	13.1	=M30+L1TH01-13B1	356-460201-00 L1-Frontheizung - Links	102149306	ISOHEAT	
21	1	13.1	=M30+L1TH02-13B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
22	1	13.1	=M30+B1KK01-13K1	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
23	1	13.2	=M30+L1TH03-13B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
24	1	13.2	=M30+B1KK01-13K2	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
25	1	13.3	=M30+L1TH41-13B1	356-460241-00 L1-Rückheizung - Links	102149271	ISOHEAT	
26	1	13.3	=M30+L1TH04-13B1	356-460204-00 L1-Frontheizung - Rechts	102149307	ISOHEAT	
27	1	13.3	=M30+B1KK01-13K3	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
28	1	13.4	=M30+L1TH43-13B1	356-460241-00 L1-Rückheizung - Links	102149271	ISOHEAT	
29	1	13.4	=M30+L1TH42-13B1	356-460241-00 L1-Rückheizung - Links	102149271	ISOHEAT	
30	1	13.4	=M30+B1KK01-13K4	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
31	1	13.5	=M30+L1TH44-13B1	356-460244-00 L1-Rückheizung - Rechts	102149302	ISOHEAT	
32	1	13.5	=M30+L1TH45-13B1	356-460244-00 L1-Rückheizung - Rechts	102149302	ISOHEAT	
33	1	13.5	=M30+B1KK01-13K5	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
34	1	13.6	=M30+L1TH46-13B1	356-460244-00 L1-Rückheizung - Rechts	102149302	ISOHEAT	
35	1	14.1	=M30+B1TH01-14B1	356-460201-00 L1-Frontheizung - Links	102149306	ISOHEAT	
	1			356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
36	1	14.1	=M30+B1TH02-14B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
37	1	14.1	=M30+B1KK01-14K1	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
38	1	14.2	=M30+B1TH03-14B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
39	1	14.2	=M30+B1KK01-14K2	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
40	1	14.3	=M30+B2TH41-14B1	356-460441-00 BL-Rückheizung - Oben	102149315	ISOHEAT	
41	1	14.3	=M30+B1TH04-14B1	356-460204-00 L1-Frontheizung - Rechts	102149307	ISOHEAT	
42	1	14.3	=M30+B1KK01-14K3	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
43	1	14.4	=M30+B1TH42-14B1	356-460441-00 BL-Rückheizung - Oben	102149315	ISOHEAT	
44	1	14.4	=M30+B1TH43-14B1	356-460443-00 BL-Rückheizung - Mitte	102149317	ISOHEAT	
45	1	14.4	=M30+B1KK01-14K4	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
46	1	14.5	=M30+B1TH44-14B1	356-460443-00 BL-Rückheizung - Mitte	102149317	ISOHEAT	
47	1	14.5	=M30+B1TH45-14B1	356-460445-00 BL-Rückheizung - Unten	102149321	ISOHEAT	
48	1	14.5	=M30+B1KK01-14K5	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
49	1	14.6	=M30+B2TH46-14B1	356-460445-00 BL-Rückheizung - Unten	102149321	ISOHEAT	
50	1	15.1	=M30+B2TH01-15B1	356-460201-00 L1-Frontheizung - Links	102149306	ISOHEAT	
51	1	15.1	=M30+B2TH02-15B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
52	1	15.1	=M30+B1KK01-15K1	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
53	1	15.2	=M30+B2TH03-15B1	356-460202-00 L1-Frontheizung - Mitte	102149305	ISOHEAT	
54	1	15.2	=M30+B1KK01-15K2	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
55	1	15.3	=M30+B2TH41-15B1	356-460441-00 BL-Rückheizung - Oben	102149315	ISOHEAT	
56	1	15.3	=M30+B2TH04-15B1	356-460204-00 L1-Frontheizung - Rechts	102149307	ISOHEAT	
57	1	15.3	=M30+B1KK01-15K3	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
58	1	15.4	=M30+B2TH42-15B1	356-460441-00 BL-Rückheizung - Oben	102149315	ISOHEAT	
59	1	15.4	=M30+B2TH43-15B1	356-460443-00 BL-Rückheizung - Mitte	102149317	ISOHEAT	
60	1	15.4	=M30+B1KK01-15K4	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
61	1	15.5	=M30+B2TH44-15B1	356-460443-00 BL-Rückheizung - Mitte	102149317	ISOHEAT	
62	1	15.5	=M30+B2TH45-15B1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
63	1	15.5	=M30+B1KK01-15K5	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
64	1	15.6	=M30+B2TH46-15B1	356-460445-00 BL-Rückheizung - Unten	102149321	ISOHEAT	
65	1	16.1	=M30+B1KK01-16K1	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
66	1	16.2	=M30+B1KK01-16K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
67	3	16.3	=M30+B1KK01-36x1	USLKG 5	PC-0441504	PHOENIX CONTACT	
68	6	16.4	=M30+B1KK01-36x1	UK 5 N	PC-3004362	PHOENIX CONTACT	
69	1	16.5	=M30+B1KK01-16K3	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
70	1	16.6	=M30+B1KK01-16K4	IB IL 24 DO 32/HD-PAC dig.output terminal	PC-2862822	PHOENIX CONTACT	
71	1	17.2	=M30+HDL01-Q1	356-210001-00 Belademodul SGH6-M1	102147887	Xenon Automatisierungstechnik GmbH	
72	1	17.3	=M30+HDL01-S1	356-210001-00 Belademodul SGH6-M1	102147887	Xenon Automatisierungstechnik GmbH	
73	1	17.4	=M30+B1KK01-17T1	6E57158-0AD01-0XA0 DP/DP-Koppler	102083837	SIEMENS	
74	1	17.5	=M30+B1KK01-17W1	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
75	5	17.5	=M30+B1KK01-x33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5-/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
76	1	17.8	=M30+B1KK01-X33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
77	1	18.2	=M30+B1VI01-18K1	Ventilinsel SY3000 CCMCCMC	102150066	SMC	
78	20	18.2	=M30+B1KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
79	1	18.2	=M30+B1KK01-18w1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	PHOENIX CONTACT	
80	2	18.2	=M30+B1KK01-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
81	2	18.3	=M30+B1KK01-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
82	1	18.5	=M30+B1KK01-XPE	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
83	1	18.5	=M30+B1KK01-18w2	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
84	1	19.3	=M30+T1SD01-19F1	magnetic clamp 838a-----F90	102107029	FEGA	
85	1	19.3	=M30+B1KK01-19w1	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
86	2	19.3	=M30+B1KK01-X4	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
87	1	19.5	=M30+T1SD02-19F1	magnetic clamp 838a-----F90	102107029	FEGA	
88	1	19.5	=M30+B1KK01-19w2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
89	2	19.5	=M30+B1KK01-X4	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
90	1	20.1	=M30+B1KK01-20X1	SUB-D 15 pin male connector, tin, earth contact	RS-447-718	RS	
	1			Case for 15 pin SUB-D metallised	RS-311-9393	RS	
91	1	20.1	=M30+L1GL01-20B1	ZX-LT010 emitter + receiver	102103032	OMRON	
	1			ZX-XC4A extension cable 4m	102103042	OMRON	
92	1	20.2	=M30+B1KK01-20K1	ZX-LDA41-N Advanced Sensor, Controller	102085760	OMRON	
93	1	20.2	=M30+B1KK01-20x2	D-SUB-plug (f) FKLM-D15SUB/B	PC-2281199	PHOENIX CONTACT	
94	1	20.3	=M30+B1KK01-20K2	E4C-UDA41AN amplifier ultrasonic proximity sensor	102155576	OMRON	
95	1	20.3	=M30+L1SC15-20B1	E4C-DS30 ultrasonic proximity sensor 300mm	102155577	OMRON	
96	1	20.3	=M30+B1KK01-20W4	SAC-4P-5,0-PUR/M12FR sensor cable, female jack, angled	HELU-1668247	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
97	2	20.3	=M30+B1KK01-20X3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
98	1	20.4	=M30+L1SP01-20B1	PN2009 combi pressure sensor	102115490	IFM	
99	2	20.4	=M30+B1KK01-20X3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
100	1	20.5	=M30+L1SP01-20S1	SACC-M12FS-4QO-0,34 female jack	PC-1641701	PHOENIX CONTACT	
101	1	20.5	=M30+B1KK01-20W1	SACC-M12FS-4QO-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	HELUKABEL	
102	1	20.6	=M30+B1SP01-20B1	PN2009 combi pressure sensor	102115490	IFM	
103	1	20.6	=M30+B1SP01-20S1	SACC-M12FS-4QO-0,34 female jack	PC-1641701	PHOENIX CONTACT	
104	1	20.6	=M30+B1KK01-20W2	SACC-M12FS-4QO-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			cable TRONIC-CY(LiCY) 4x0,34	HELU-20058	HELUKABEL	
105	1	20.8	=M30+B2SP01-20S1	SACC-M12FS-4QO-0,34 female jack	PC-1641701	PHOENIX CONTACT	

			date	12/05				
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
144	1	23.4	=M30+B1SC03-23B2	OJ5131 light barrier receiver	102082721	IFM	
145	1	23.4	=M30+B1KK01-23w6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
146	1	23.5	=M30+L1SC11-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
147	1	23.5	=M30+B1KK01-23w8	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
148	1	23.6	=M30+L1SC13-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
149	1	23.6	=M30+L1SC12-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
150	1	23.6	=M30+B1KK01-23w9	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
151	1	23.6	=M30+B1KK01-23w10	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
152	1	23.7	=M30+L1SC14-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
153	1	23.7	=M30+B1KK01-23w11	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
154	1	24.1	=M30+B1-24ws1	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
155	1	24.2	=M30+B1SC01-24B1	OJ5130 light barrier emitter	102082720	IFM	
156	1	24.2	=M30+B1SC01-24B2	OJ5131 light barrier receiver	102082721	IFM	
157	1	24.2	=M30+B1SC02-24B1	OJ5130 light barrier emitter	102082720	IFM	
158	1	24.2	=M30+B1-24we1	SACB-8/8-L- 10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
159	1	24.2	=M30+B1KK01-24w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
160	1	24.2	=M30+B1KK01-24w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
161	1	24.2	=M30+B1KK01-24w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
162	1	24.3	=M30+B1SC03-24B1	OJ5130 light barrier emitter	102082720	IFM	
163	1	24.3	=M30+B1SC02-24B2	OJ5131 light barrier receiver	102082721	IFM	
164	1	24.3	=M30+B1KK01-24w5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
165	1	24.3	=M30+B1KK01-24w4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
166	1	24.4	=M30+B1SC03-24B2	OJ5131 light barrier receiver	102082721	IFM	
167	1	24.4	=M30+B1KK01-24w6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
168	1	24.6	=M30+B1SC11-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
169	1	24.6	=M30+B1SC12-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
170	1	24.6	=M30+B1KK01-24w9	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
171	1	24.6	=M30+B1KK01-24w10	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
172	1	24.7	=M30+B1SC13-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
173	1	24.7	=M30+B1KK01-24w11	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
174	1	25.1	=M30+B2-25ws1	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
175	1	25.2	=M30+B2SC01-25B1	OJ5130 light barrier emitter	102082720	IFM	
176	1	25.2	=M30+B2-25we1	SACB-8/8-L- 10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
177	1	25.2	=M30+B2SC02-25B1	OJ5130 light barrier emitter	102082720	IFM	
178	1	25.2	=M30+B2SC01-25B2	OJ5131 light barrier receiver	102082721	IFM	
179	1	25.2	=M30+B1KK01-25w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
180	1	25.2	=M30+B1KK01-25w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	

			date	12/05	A1500V-7 iznO_AZO	 LEYBOLD OPTICS	electric parts	388-810000	P/005388	
			devel.	Henker						
			check							
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## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
256	1	32.6	=M30+L1AL03-32B1	MK5310 magnetic switch for C-Nut	102156398	IFM	
257	1	32.6	=M30+B1KK01-32W5	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
258	1	32.7	=M30+L1AL03-32B2	MK5310 magnetic switch for C-Nut	102156398	IFM	
259	1	32.7	=M30+B1KK01-32W6	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
260	1	32.8	=M30+L1AL04-32B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
261	1	32.8	=M30+B1KK01-32W7	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
262	1	32.9	=M30+L1AL04-32B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
263	1	32.9	=M30+B1KK01-32W8	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
264	1	33.2	=M30+B2-33W61	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
265	1	33.2	=M30+L1SW01-33B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
266	1	33.2	=M30+B1KK01-33W1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
267	1	33.3	=M30+L1SW20-33B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
268	1	33.3	=M30+B1KK01-33W2	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
269	1	34.2	=M30+B2-34W61	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
270	1	34.2	=M30+B1SW01-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
271	1	34.2	=M30+B1KK01-34W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
272	1	34.3	=M30+B1SW20-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
273	1	34.3	=M30+B1KK01-34W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
274	1	34.4	=M30+B1SW80-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
275	1	34.4	=M30+B1SW81-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
276	1	34.4	=M30+B1KK01-34W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
277	1	34.4	=M30+B1KK01-34W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
278	1	35.2	=M30+B2SW01-35B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
279	1	35.2	=M30+B2-35W61	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
280	1	35.2	=M30+B1KK01-35W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
281	1	35.3	=M30+B2SW20-35B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
282	1	35.3	=M30+B1KK01-35W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4QQ-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
283	1	36.0	=M30+T1HMT01-36E1	RMQ-M22-T4 grey box	MOE-216539	MOELLER	
284	1	36.0	=M30+B1KK01-36W1	cable JZ-500 7x0,5	HELU-10009	HELLUKABEL	
285	1	36.0	=M30+T1HMI01-36S1	RMQ-M22-DL-W white illuminated pushbutton	MOE-216922	MOELLER	
	1			RMQ-M22-K10 contact no front	MOE-216376	MOELLER	
286	9	36.0	=M30+B1KK01-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
287	1	36.1	=M30+T1HMI01-36H1	RMQ-M22-LED-W 18-30V white LED	MOE-216557	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
288	1	36.3	=M30+T1HMI01-36H2	RMQ-M22-LED-B 18-30V blue LED	MOE-218057	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
	1			RMQ-M22-L-B signal lamp, blue, flat	MOE-216775	MOELLER	
289	1	36.4	=M30+T1HMI01-36H3	RMQ-M22-AMC buzzer	MOE-229015	MOELLER	



## electric parts





## electric parts

no.	pce.	sheet	reference	designation	stock number	manufacturer	
71	1	22.3	=M31+P1KK01-22w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
72	1	23.1	=M31+P1-23WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
73	1	23.2	=M31+P1AH11-23B1	IF5207 proximity switch	102093156	IFM	
74	1	23.2	=M31+P1AH11-23B2	IF5207 proximity switch	102093156	IFM	
75	1	23.2	=M31+P1KK01-23W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
76	1	23.2	=M31+P1KK01-23W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
77	1	23.3	=M31+P1AL11-23B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
78	1	23.3	=M31+P1KK01-23W3	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
79	1	23.4	=M31+P1AL11-23B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
80	1	23.4	=M31+P1KK01-23W4	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
81	1	23.5	=M31+P1KK01-23W6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
82	1	23.5	=M31+P1AH11-23B3	IF5206 proximity switch	102083102	IFM	
83	1	23.5	=M31+P1KK01-23W5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
84	1	23.6	=M31+P1AH11-23B4	IF5206 proximity switch	102083102	IFM	
85	1	23.8	=M31+P1KK01-23W7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
86	1	23.8	=M31+P1AH11-23P1	##Xenon-Signalleuchte, orange, Blitz, 24vDC,1W	RS-455-3463	RS	
87	1	23.8	=M31+P1KK01-23XS1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
88	1	24.1	=M31+P1-24WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
89	1	24.2	=M31+P1AH21-24B2	IF5207 proximity switch	102093156	IFM	
90	1	24.2	=M31+P1AH21-24B1	IF5207 proximity switch	102093156	IFM	
91	1	24.2	=M31+P1KK01-24W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
92	1	24.2	=M31+P1KK01-24W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
93	1	24.3	=M31+P1AL21-24B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
94	1	24.3	=M31+P1KK01-24W3	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
95	1	24.4	=M31+P1AL21-24B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
96	1	24.4	=M31+P1KK01-24W4	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
97	1	24.5	=M31+P1KK01-24W5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
98	1	24.5	=M31+P1AH21-24B3	IF5207 proximity switch	102083102	IFM	
99	1	24.6	=M31+P1KK01-24W6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
100	1	24.6	=M31+P1AH21-24B4	IF5207 proximity switch	102083102	IFM	
101	1	24.8	=M31+P1AH21-24P1	##Xenon-Signalleuchte, orange, Blitz, 24vDC,1W	RS-455-3463	RS	
102	1	24.8	=M31+P1KK01-24Xb1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
103	1	24.8	=M31+P1KK01-24XS1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
104	1	24.8	=M31+P1KK01-24W7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
105	1	25.1	=M31+P1-25WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
106	1	25.2	=M31+P1AH31-25B1	IF5207 proximity switch	102093156	IFM	
107	1	25.2	=M31+P1AH31-25B2	IF5207 proximity switch	102093156	IFM	
108	1	25.2	=M31+P1KK01-25W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
109	1	25.2	=M31+P1KK01-25W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
110	1	25.3	=M31+P1AL31-25B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
111	1	25.3	=M31+P1KK01-25W3	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
112	1	25.4	=M31+P1AL31-25B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
113	1	25.4	=M31+P1KK01-25W4	SAC-3P-5,0-PUR/M12FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
114	1	25.5	=M31+P1KK01-25W5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
115	1	25.5	=M31+P1AH31-25B3	IFS206 proximity switch	102083102	IFM	
116	1	25.6	=M31+P1KK01-25W6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
117	1	25.6	=M31+P1AH31-25B4	IFS206 proximity switch	102083102	IFM	
118	1	25.8	=M31+P1KK01-25XS1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
119	1	25.8	=M31+P1KK01-25XB1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
120	1	25.8	=M31+P1AH31-25H1	##Xenon-Signalleuchte, orange, Blitz, 24VDC,1W	RS-455-3463	RS	
121	1	25.8	=M31+P1KK01-25W7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
122	1	26.2	=M31+P1SW01-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
123	1	26.2	=M31+P1-26WE1	SACB-8/8-10,0PUR sensor actuator box with cable	PC-1680995	PHOENIX CONTACT	
124	1	26.2	=M31+P1KK01-26W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
125	1	26.3	=M31+P1SW02-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
126	1	26.3	=M31+P1KK01-26W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
127	1	26.4	=M31+P1SWG11-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
128	1	26.4	=M31+P1SW20-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
129	1	26.4	=M31+P1KK01-26W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
130	1	26.4	=M31+P1KK01-26W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
131	1	27.2	=M31+P1-27WE1	SACB-8/8-10,0PUR sensor actuator box with cable	PC-1680995	PHOENIX CONTACT	
132	1	27.2	=M31+P1SWU11-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
133	1	27.2	=M31+P1KK01-27W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
134	1	27.3	=M31+P1SWU12-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
135	1	27.3	=M31+P1KK01-27W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
136	1	27.4	=M31+P2SWU11-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
137	1	27.4	=M31+P2SWU12-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
138	1	27.4	=M31+P1KK01-27W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
139	1	27.4	=M31+P1KK01-27W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
140	1	28.2	=M31+P1SWT11-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
141	1	28.2	=M31+P1-28WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
142	1	28.2	=M31+P1KK01-28W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
143	1	28.3	=M31+P1SWT12-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
144	1	28.3	=M31+P1KK01-28W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
145	1	28.4	=M31+P2SWT12-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
146	1	28.4	=M31+P2SWT11-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
147	1	28.4	=M31+P1KK01-28W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
148	1	28.4	=M31+P1KK01-28W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
149	1	29.1	=M31+P1GT01-29B1	infrared pyrometer KT15II CaF 90°	102114623	HEITRONICS	
150	5	29.1	=M31+P1KK01-29X3	ZFK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.3	=M32+P2KK01-6U1	AE control cabinet 1000x1000x300	RIT-1110500	RIITAL	
	1			TS module plate for cable feedthrough	RIT-8609170	RIITAL	
2	1	10.0	=M32+P2KK01-XPE	USLKG 10 N	PC-3003923	PHOENIX CONTACT	
3	8	10.1	=M32+P2KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	4			FBS 2-5 jumper 2pin 24A KL-B5,2	PC-3030161	PHOENIX CONTACT	
	4			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
4	8	10.1	=M32+P2KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	2			FBS 2-5 jumper 4pin 24A KL-B5,2	PC-3030187	PHOENIX CONTACT	
	2			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
5	2	10.2	=M32+P2KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	2			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
6	5	10.2	=M32+P2KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	1			FBS 5-5 jumper 5pin 24A KL-B5,2	PC-3030190	PHOENIX CONTACT	
	1			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
7	1	10.3	=M32+P2KK01-10T1	PSI-REP-PROFIBUS/12MB repeater	PC-2708863	PHOENIX CONTACT	
8	2	10.6	=M32+P2KK01-10X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
9	1	10.6	=M32+P2KK01-10W1	cable JZ-500 2x0,75	HELU-10030	HELUKABEL	
10	1	10.6	=M32+P2KK01-10B1	SK temperature display digital 24-60 V DC	RIT-3114200	RIITAL	
	1			drawing 267-700010-01sheet	102083722	Leybold optics GmbH	
11	1	10.6	=M32+P2KK01-10M1	SK filter fan 116x116x52 20 m³/h / 24VDC	RIT-3321027	RIITAL	UL
	2			SK outlet filter 148mm RAL7035	RIT-3322207	RIITAL	
12	1	10.8	=M32+P2KK01-10RC1	filtermodule RC 24V AC/DC	MURR-20680	MURR	
13	1	11.1	=M32+P2KK01-11K1	IL PB BK DP/V1 bus coupler profibus	PC-2718688	PHOENIX CONTACT	
	1			IB IL SNC-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
14	1	11.2	=M32+P2KK01-11K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
15	1	11.4	=M32+P2KK01-11K3	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
16	1	11.6	=M32+P2KK01-11K4	IB IL AI 2/SF Analog IN terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
17	1	12.1	=M32+P2TH41-12B1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	
18	1	12.1	=M32+P2TH42-12B1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	
19	1	12.1	=M32+P2KK01-12K1	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
20	1	12.2	=M32+P2TH43-12B1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
21	1	12.2	=M32+P2KK01-12K2	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
22	1	12.3	=M32+P2TH44-12B1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
23	1	12.3	=M32+P2TH45-12B1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
24	1	12.3	=M32+P2KK01-12K3	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
25	1	12.4	=M32+P2TH47-12B1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	
26	1	12.4	=M32+P2TH46-12B1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	
27	1	12.4	=M32+P2KK01-12K4	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
28	1	12.5	=M32+P2TH48-12B1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
29	1	13.1	=M32+P2TH50-13B1	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
30	1	13.1	=M32+P2TH49-13B1	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
31	1	13.1	=M32+P2KK01-13K1	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
32	1	13.2	=M32+P2TH51-13B1	356-460641-00 Px-Rückheizung - vertikal	102150873	ISOHEAT	
33	1	13.2	=M32+P2KK01-13K2	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SNC-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
34	1	13.3	=M32+P2TH53-13B1	356-460643-00 Px-Rückheizung-Mitte/Links	102150875	ISOHEAT	
35	1	13.3	=M32+P2TH52-13B1	356-460642-00 Px-Rückheizung - Oben	102150874	ISOHEAT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
36	1	13.3	=M32+P2KK01-13K3	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
37	1	13.4	=M32+P2TH54-1381	356-460644-00 Px-Rückheizung-Mitte/Rechts	102150876	ISOHEAT	
38	1	13.4	=M32+P2TH55-1381	356-460645-00 Px-Rückheizung - Unten	102150877	ISOHEAT	
39	1	13.4	=M32+P2KK01-13K4	IB IL TEMP 2 UTH input 2x TC	PC-2727763	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
40	1	14.1	=M32+P2KK01-14K1	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
41	1	14.2	=M32+P2KK01-14K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
42	1	14.4	=M32+P2KK01-14K3	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
43	1	14.7	=M32+P2KK01-14K5	IB IL 24 DI 32/HD-PAC dig.output terminal	PC-2862822	PHOENIX CONTACT	
44	1	14.7	=M32+P2KK01-14K4	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
45	1	18.1	=M32+P2VI01-18K1	Ventilinsel SY3000 11CM4C	102150068	SMC	
46	1	18.1	=M32+P2KK01-18W1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	PHOENIX CONTACT	
47	34	18.1	=M32+P2KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
48	2	18.1	=M32+P2KK01-x31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
49	1	18.3	=M32+P2KK01-18W2	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
50	1	18.3	=M32+P2KK01-XPE	USLGK 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
51	2	18.6	=M32+P2KK01-x31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873223	PHOENIX CONTACT	
52	1	19.0	=M32+P2KK01-19B1	DD0116 rotation speed monitor D100	102084534	IFM	
53	15	19.0	=M32+P2KK01-x32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	3			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	3			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	6			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
54	1	19.1	=M32+P2KK01-19W1	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
55	1	19.1	=M32+P2MAG11-19B1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
56	1	19.2	=M32+P2KK01-19W2	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
57	1	19.2	=M32+P2KK01-19B2	DD0116 rotation speed monitor D100	102084534	IFM	
58	1	19.2	=M32+P2MAG12-19B1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
59	3	19.2	=M32+P2KK01-x32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	3			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	3			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
60	1	19.4	=M32+P2KK01-19B3	DD0116 rotation speed monitor D100	102084534	IFM	
61	1	19.4	=M32+P2KK01-19W3	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
62	1	19.4	=M32+P2MAG21-19B1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
63	1	19.5	=M32+P2KK01-19B4	DD0116 rotation speed monitor D100	102084534	IFM	
64	1	19.5	=M32+P2KK01-19W4	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
65	1	19.5	=M32+P2MAG22-19B1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
66	1	19.7	=M32+P2KK01-19B5	DD0116 rotation speed monitor D100	102084534	IFM	
67	1	19.7	=M32+P2KK01-19W5	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
68	1	19.7	=M32+P2MAG31-19B1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
69	1	19.8	=M32+P2KK01-19B6	DD0116 rotation speed monitor D100	102084534	IFM	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
70	1	19.8	=M32+P2KK01-19w6	cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELIKABEL	
71	1	19.8	=M32+P2MAG32-19b1	OH5009 reflex light sensor DC PNP	102084533	IFM	
	1			SACC-M8FS-4PCON female jack, straight	PC-1506781	PHOENIX CONTACT	
72	1	20.1	=M32+P2KK01-20k1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
73	1	20.2	=M32+P2KK01-20k2	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	
74	1	20.3	=M32+P2KK01-20w1	cable JZ-500 5x0,75	HELU-10035	HELIKABEL	
75	1	20.3	=M32+HMI01-20p1	signal generator, acoust. 24VDC, 108dB	RS-192-9457	RS	
76	5	20.3	=M32+P2KK01-20x1	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
77	1	20.5	=M32+P2KK01-20w2	cable JZ-500 7x0,5	HELU-10009	HELIKABEL	
78	1	20.5	=M32+HMI01-20p2	SL-B basis module signal pillar	MOE-205311	MOELLER	
	1			SL-FW mounting part	MOE-205347	MOELLER	
	1			SL-L-W continuous light module white	MOE-205312	MOELLER	
	1			SL-L-R permanent light module red	MOE-205313	MOELLER	
	1			SL-L-G permanent light module green	MOE-205314	MOELLER	
	1			SL-L-Y permanent light module yellow	MOE-205315	MOELLER	
	1			SL-L-B permanent light module blue	MOE-205316	MOELLER	
	1			SL-LED-W multi LED white	MOE-215278	MOELLER	
	1			SL-LED-R multi LED red	MOE-215279	MOELLER	
	1			SL-LED-G multi LED green	MOE-215280	MOELLER	
	1			SL-LED-Y multi LED yellow	MOE-215281	MOELLER	
	1			SL-LED-B multi LED blue	MOE-215282	MOELLER	
79	1	20.5	=M32+P2KK01-20x1	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
80	1	21.3	=M32+P2VM01-21q1	26424-KA21-BMH1 VAT Eckv. DN16 m.LMo.SV	102097277	VAT Deutschland GmbH	
81	1	21.3	=M32+P2-21WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
82	1	21.3	=M32+P2KK01-21w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
83	1	22.1	=M32+P2-22WE1	SACB-4/4-L-10,0PUR sensor/ actuator box with cable	PC-1695058	PHOENIX CONTACT	
84	1	22.2	=M32+P2SC12-22b1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
85	1	22.2	=M32+P2SC11-22b1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
86	1	22.2	=M32+P2KK01-22w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
87	1	22.2	=M32+P2KK01-22w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
88	1	22.3	=M32+P2SC13-22b1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
89	1	22.3	=M32+P2KK01-22w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
90	1	23.1	=M32+P2-23WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
91	1	23.2	=M32+P2AH11-23b2	IF5207 proximity switch	102093156	IFM	
92	1	23.2	=M32+P2AH11-23b1	IF5207 proximity switch	102093156	IFM	
93	1	23.2	=M32+P2KK01-23w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
94	1	23.2	=M32+P2KK01-23w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
95	1	23.3	=M32+P2AL11-23b1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
96	1	23.3	=M32+P2KK01-23w3	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
97	1	23.4	=M32+P2AL11-23B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
98	1	23.4	=M32+P2KK01-23W4	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
99	1	23.5	=M32+P2AH11-23B3	IFS206 proximity switch	102083102	IFM	
100	1	23.5	=M32+P2KK01-23w5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
101	1	23.5	=M32+P2KK01-23w6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
102	1	23.6	=M32+P2AH11-23B4	IFS206 proximity switch	102083102	IFM	
103	1	23.8	=M32+P2AH11-23P1	##Xenon-Signalleuchte, orange, Blitz, 24VDC,1W	RS-455-3463	RS	
104	1	23.8	=M32+P2KK01-23xs1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
105	1	23.8	=M32+P2KK01-23w7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
106	1	24.1	=M32+P2-24WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
107	1	24.2	=M32+P2AH21-24B2	IFS207 proximity switch	102093156	IFM	
108	1	24.2	=M32+P2AH21-24B1	IFS207 proximity switch	102093156	IFM	
109	1	24.2	=M32+P2KK01-24w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
110	1	24.2	=M32+P2KK01-24w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
111	1	24.3	=M32+P2AL21-24B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
112	1	24.3	=M32+P2KK01-24w3	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
113	1	24.4	=M32+P2AL21-24B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
114	1	24.4	=M32+P2KK01-24w4	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
115	1	24.5	=M32+P2KK01-24w5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
116	1	24.5	=M32+P2AH21-24B3	IFS206 proximity switch	102083102	IFM	
117	1	24.6	=M32+P2KK01-24w6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
118	1	24.6	=M32+P2AH21-24B4	IFS206 proximity switch	102083102	IFM	
119	1	24.8	=M32+P2KK01-24w7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
120	1	24.8	=M32+P2KK01-24xs1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
121	1	24.8	=M32+P2AH21-24P1	##Xenon-Signalleuchte, orange, Blitz, 24VDC,1W	RS-455-3463	RS	
122	1	24.8	=M32+P2KK01-24xb1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
123	1	25.1	=M32+P2-25WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
124	1	25.2	=M32+P2AH31-25B2	IFS207 proximity switch	102093156	IFM	
125	1	25.2	=M32+P2AH31-25B1	IFS207 proximity switch	102093156	IFM	
126	1	25.2	=M32+P2KK01-25w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
127	1	25.2	=M32+P2KK01-25w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
128	1	25.3	=M32+P2AL31-25B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
129	1	25.3	=M32+P2KK01-25w3	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
130	1	25.4	=M32+P2AL31-25B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
131	1	25.4	=M32+P2KK01-25w4	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
132	1	25.5	=M32+P2KK01-25w5	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
133	1	25.5	=M32+P2AH31-25B3	IFS206 proximity switch	102083102	IFM	
134	1	25.6	=M32+P2KK01-25w6	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
135	1	25.6	=M32+P2AH31-25B4	IFS206 proximity switch	102083102	IFM	
136	1	25.8	=M32+P2AH31-25H1	##Xenon-Signalleuchte, orange, Blitz, 24VDC,1W	RS-455-3463	RS	
137	1	25.8	=M32+P2KK01-25xs1	SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
138	1	25.8	=M32+P2KK01-25xb1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
139	1	25.8	=M32+P2KK01-25w7	SAC-5P-10,0-PUR/M12FS sensor actuator cable, straight	PC-1683374	PHOENIX CONTACT	
140	1	26.2	=M32+P2SW01-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	

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141	1	26.2	=M32+P2-26WE1	SACB-8/10,0PUR sensor actuator box with cable	PC-1680995	PHOENIX CONTACT	
142	1	26.2	=M32+P2KK01-26W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
143	1	26.3	=M32+P2Sw02-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
144	1	26.3	=M32+P2KK01-26W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
145	1	26.4	=M32+P2Sw20-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
146	1	26.4	=M32+P2SWG11-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
147	1	26.4	=M32+P2KK01-26W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
148	1	26.4	=M32+P2KK01-26W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
149	1	26.5	=M32+P2SWG12-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
150	1	26.5	=M32+P2KK01-26W5	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
151	1	26.6	=M32+P2SWG21-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
152	1	26.6	=M32+P2KK01-26W6	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
153	1	26.7	=M32+P2SWG22-26B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
154	1	26.7	=M32+P2KK01-26W7	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
155	1	27.2	=M32+P2SwU21-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
156	1	27.2	=M32+P2-27WE1	SACB-8/10,0PUR sensor actuator box with cable	PC-1680995	PHOENIX CONTACT	
157	1	27.2	=M32+P2KK01-27W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
158	1	27.3	=M32+P2SwU22-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
159	1	27.3	=M32+P2KK01-27W2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
160	1	27.4	=M32+P2SwU32-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
161	1	27.4	=M32+P2SwU31-27B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
162	1	27.4	=M32+P2KK01-27W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
163	1	27.4	=M32+P2KK01-27W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
164	1	28.2	=M32+P2SwT21-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
165	1	28.2	=M32+P2-28WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
166	1	28.2	=M32+P2KK01-28W1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
167	1	28.3	=M32+P2SwT22-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
168	1	28.4	=M32+P2SwT31-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
169	1	28.4	=M32+P2SwT32-28B1	IFM compact-flow control device SI 1007	DD004588	IFM	
170	1	28.4	=M32+P2KK01-28W3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
171	1	28.4	=M32+P2KK01-28W4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
172	1	29.1	=M32+P2GT01-29B1	infrared pyrometer KT15II CaF 90°	102114623	HEITRONICS	
173	5	29.1	=M32+P2KK01-29X3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
174	1	29.3	=M32+P2KK01-29X1	D-SUB-plug (f) FKLM-D 9SUB/B	PC-2281186	PHOENIX CONTACT	
175	1	29.4	=M32+P2KK01-29X3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	

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			devel.	Henker			
			check				
cond.	alter.	date	name	norm			

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
1	1	6.3	=M39+B9KK01-6U1	AE control cabinet 1000x1000x300	RIT-1110500	RITTAL	
	1			TS module plate for cable feedthrough	RIT-8609170	RITTAL	
2	6	10.1	=M39+B9KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	3			FBS 2-5 jumper 2pin 24A KL-B5,2	PC-3030161	PHOENIX CONTACT	
	3			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
3	15	10.1	=M39+B9KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	3			FBS 5-5 jumper 5pin 24A KL-B5,2	PC-3030190	PHOENIX CONTACT	
	3			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
4	4	10.1	=M39+B9KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
	4			D-ZPV 1,5/2,5(8/1) baffle potential distribution	PC-3031050	PHOENIX CONTACT	
5	1	10.5	=M39+B9KK01-10W1	cable JZ-500 2x0,75	HELU-10030	HELIKABEL	
6	2	10.5	=M39+B9KK01-10X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
7	1	10.5	=M39+B9KK01-10B1	SK temperature display digital 24-60 V DC	RIT-3114200	RITTAL	
	1			drawing 267-700010-01sheet	102083722	Leybold Optics GmbH	
8	1	10.5	=M39+B9KK01-10M1	SK filter fan 116x116x52 20 m³/h / 24VDC	RIT-3321027	RITTAL	UL
	2			SK outlet filter 148mm RAL7035	RIT-3322207	RITTAL	
9	1	10.8	=M39+B9KK01-10RC1	filtermodule RC 24V AC/DC	MURR-20680	MURR	
10	1	11.0	=M39+B9KK01-11K1	IL PB BK DP/V1 bus coupler profibus	PC-2718668	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
11	1	11.1	=M39+B9KK01-11K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
12	1	11.3	=M39+B9KK01-11K3	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
13	1	11.5	=M39+B9KK01-11K4	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
14	1	12.1	=M39+B9KK01-12K1	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
15	1	12.2	=M39+B9KK01-12K2	IB IL AI 2/SF Analog IN terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
16	1	12.3	=M39+B9KK01-12K3	IB IL AI 2/SF Analog IN terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
17	1	12.4	=M39+B9KK01-12K4	IB IL AI 2/SF Analog IN terminal	PC-2726285	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
18	1	12.4	=M39+B9KK01-12K5	IB IL TEMP 2RTD input 2x R-Therm	PC-2726308	PHOENIX CONTACT	
	1			IB IL SCN-8 plug for digital components	PC-2726337	PHOENIX CONTACT	
19	1	13.1	=M39+B9KK01-13K1	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
20	1	13.2	=M39+B9KK01-13K2	IB IL 24 DI 32/HD-PAC dig.input terminal	PC-2862835	PHOENIX CONTACT	
21	1	13.6	=M39+B9KK01-13K4	IB IL 24 DO 32/HD-PAC dig.output terminal	PC-2862822	PHOENIX CONTACT	
22	1	13.6	=M39+B9KK01-13K3	IB IL 24 PWR IN power in terminal 24VDC	PC-2726311	PHOENIX CONTACT	
	1			IB IL SCN-PWR IN-CP power in plug	PC-2727637	PHOENIX CONTACT	
23	3	16.7	=M39+B9KK01-36X1	USLKG 5	PC-0441504	PHOENIX CONTACT	
24	6	16.9	=M39+B9KK01-36X1	UK 5 N	PC-3004362	PHOENIX CONTACT	
25	1	17.2	=M39+B9KK01-17WPE1	single wire-H07V-K 10mm² gn/ye	HELU-29194	HELIKABEL	
26	1	17.2	=M39+HDL2-Q1	356-230001-00 Entlademodul SGH6-M2	102147888	Xenon Automatisierungstechnik GmbH	
27	1	17.3	=M39+HDL2-S1	356-230001-00 Entlademodul SGH6-M2	102147888	Xenon Automatisierungstechnik GmbH	
28	1	17.4	=M39+B9KK01-17T1	6EST158-OAD01-0XA0 DP/DP-Koppler	102083837	SIEMENS	
29	1	17.5	=M39+B9KK01-17W1	cable JZ-500 5x0,5	HELU-10006	HELIKABEL	
30	5	17.5	=M39+B9KK01-X33	ZFK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	2			ZFK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
31	1	17.8	=M39+B9KK01-17w2	cable JZ-500 3x0,75	HELU-10031	HELIKABEL	
32	1	17.8	=M39+T9AK01-17Q1	electromagnetic coupler 4/540.100/24/20	102071552	Mayr Chr. GmbH+Co KG	
33	1	17.8	=M39+B9KK01-17K1	REL-MR-24DC/21 Relays	PC-2961105	PHOENIX CONTACT	
	1			PLC-BSP 24VDC base element (small)	PC-2967219	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
34	1	17.8	=M39+T9AK01-17wx1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
35	1	17.8	=M39+B9KK01-x33	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/6-STF-5,08	PC-1873249	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
36	15	18.1	=M39+B9KK01-XP	ZPV 1,5/2,5 (8/1) equipotential bonding terminal	PC-3031047	PHOENIX CONTACT	
37	1	18.1	=M39+B9KK01-18w1	SAC-4P-10,0-PUR/M12FS sensor actuator cable 10m	PC-1683002	PHOENIX CONTACT	
38	1	18.1	=M39+B9VI01-18K1	valve cluster SY3000 8C, 4mm	102150069	SMC	
39	2	18.1	=M39+B9KK01-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
40	2	18.2	=M39+B9KK01-X31	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
41	1	18.4	=M39+B9KK01-18w2	single wire-H07V-K 10mm <sup>2</sup> gn/ye	HELU-29194	HELUKABEL	
42	1	18.4	=M39+B9KK01-XPE	USLKG 16 N for DIN rail 35x7,5	PC-0443023	PHOENIX CONTACT	
43	1	19.3	=M39+B9KK01-19w1	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
44	1	19.3	=M39+T9SD01-19F1	magnetic clamp 838A-----F90	102107029	FEGA	
45	2	19.3	=M39+B9KK01-X4	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
46	1	19.5	=M39+B9KK01-19w2	cable JZ-500 3x0,75	HELU-10031	HELUKABEL	
47	1	19.5	=M39+T9SD02-19F1	magnetic clamp 838A-----F90	102107029	FEGA	
48	2	19.5	=M39+B9KK01-X4	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
49	1	20.1	=M39+L9GL01-20B1	ZX-LT010 emitter + receiver	102103032	OMRON	
	1			ZX-XC4A extension cable 4m	102103042	OMRON	
50	1	20.1	=M39+B9KK01-20x1	SUB-D 15 pin male connector, tin, earth contact	RS-447-718	RS	
	1			Case for 15 pin SUB-D metallised	RS-311-9393	RS	
51	1	20.2	=M39+B9KK01-20K1	ZX-LDA41-N Advanced Sensor, Controller	102085760	OMRON	
52	1	20.2	=M39+B9KK01-20X2	D-SUB-plug (f) FKLM-D15SUB/B	PC-2281199	PHOENIX CONTACT	
53	1	20.3	=M39+B9KK01-20K2	E4C-UDA41AN amplifier ultrasonic proximity sensor	102155576	OMRON	
54	1	20.3	=M39+L9SC15-20B1	E4C-DS30 ultrasonic proximity sensor 300mm	102155577	OMRON	
55	1	20.3	=M39+B9KK01-20W4	SAC-4P-5,0-PUR/M12FR sensor cable, female jack, angled	PC-1668247	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
56	2	20.3	=M39+B9KK01-20X3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
57	2	20.4	=M39+B9KK01-20x3	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			STZ 4-FKC-5,08 strain relief	PC-1876877	PHOENIX CONTACT	
	1			FKC2,5/4-STF-5,08	PC-1873232	PHOENIX CONTACT	
58	1	20.5	=M39+L9SP01-20B1	PN2009 combi pressure sensor	102115490	IFM	
59	1	20.5	=M39+L1SP01-20S1	SACC-M12FS-4Q0-0,34 female jack	PC-1641701	PHOENIX CONTACT	
60	1	20.5	=M39+B9KK01-20W1	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	
61	1	20.6	=M39+B9SP01-20B1	PN2009 combi pressure sensor	102115490	IFM	
62	1	20.6	=M39+B1SP01-20S1	SACC-M12FS-4Q0-0,34 female jack	PC-1641701	PHOENIX CONTACT	
63	1	20.6	=M39+B9KK01-20W2	SACC-M12FS-4Q0-0,75 female jack	PC-1641756	PHOENIX CONTACT	
	1			cable TRONIC-CY(LiYCY) 4x0,34	HELU-20058	HELUKABEL	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
64	1	20.8	=M39+B9KK01-20w3	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
65	1	20.8	=M39+T9GD01-20B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
66	1	21.1	=M39+B8-21wS1	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
67	1	21.2	=M39+B8SC02-21B1	OJ5130 light barrier emitter	102082720	IFM	
68	1	21.2	=M39+B8SC01-21B1	OJ5130 light barrier emitter	102082720	IFM	
69	1	21.2	=M39+B8SC01-21B2	OJ5131 light barrier receiver	102082721	IFM	
70	1	21.2	=M39+B8-21wE1	SACB-8/8-L- 10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
71	1	21.2	=M39+B9KK01-21w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
72	1	21.2	=M39+B9KK01-21w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
73	1	21.2	=M39+B9KK01-21w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
74	1	21.3	=M39+B8SC02-21B2	OJ5131 light barrier receiver	102082721	IFM	
75	1	21.3	=M39+B8SC03-21B1	OJ5130 light barrier emitter	102082720	IFM	
76	1	21.3	=M39+B9KK01-21w5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
77	1	21.3	=M39+B9KK01-21w4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
78	1	21.4	=M39+B8SC03-21B2	OJ5131 light barrier receiver	102082721	IFM	
79	1	21.4	=M39+B9KK01-21w6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
80	1	21.6	=M39+B8SC12-21B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
81	1	21.6	=M39+B8SC11-21B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
82	1	21.6	=M39+B9KK01-21w10	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
83	1	21.6	=M39+B9KK01-21w9	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
84	1	21.7	=M39+B8SC13-21B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
85	1	21.7	=M39+B9KK01-21w11	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
86	1	22.1	=M39+B9-22wS1	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
87	1	22.2	=M39+B9SC01-22B1	OJ5130 light barrier emitter	102082720	IFM	
88	1	22.2	=M39+B9SC01-22B2	OJ5131 light barrier receiver	102082721	IFM	
89	1	22.2	=M39+B9SC02-22B1	OJ5130 light barrier emitter	102082720	IFM	
90	1	22.2	=M39+B9-22wE1	SACB-8/8-L- 10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
91	1	22.2	=M39+B9KK01-22w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
92	1	22.2	=M39+B9KK01-22w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
93	1	22.2	=M39+B9KK01-22w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
94	1	22.3	=M39+B9SC03-22B1	OJ5130 light barrier emitter	102082720	IFM	
95	1	22.3	=M39+B9SC02-22B2	OJ5131 light barrier receiver	102082721	IFM	
96	1	22.3	=M39+B9KK01-22w4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
97	1	22.3	=M39+B9KK01-22w5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
98	1	22.4	=M39+B9SC03-22B2	OJ5131 light barrier receiver	102082721	IFM	
99	1	22.4	=M39+B9KK01-22w6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
100	1	22.6	=M39+B9SC12-22B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
101	1	22.6	=M39+B9SC11-22B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
102	1	22.6	=M39+B9KK01-22w9	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
103	1	22.6	=M39+B9KK01-22w10	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
104	1	22.7	=M39+B9SC13-22B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
105	1	22.7	=M39+B9KK01-22W11	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
106	1	23.1	=M39+L9-23w51	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
107	1	23.2	=M39+L9-23wE1	SACB-8/8-L-10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
108	1	23.2	=M39+L9SC02-23B1	OJ5130 light barrier emitter	102082720	IFM	
109	1	23.2	=M39+L9SC01-23B2	OJ5131 light barrier receiver	102082721	IFM	
110	1	23.2	=M39+L9SC01-23B1	OJ5130 light barrier emitter	102082720	IFM	
111	1	23.2	=M39+B9KK01-23w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
112	1	23.2	=M39+B9KK01-23w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
113	1	23.2	=M39+B9KK01-23w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
114	1	23.3	=M39+L9SC02-23B2	OJ5131 light barrier receiver	102082721	IFM	
115	1	23.3	=M39+L9SC03-23B1	OJ5130 light barrier emitter	102082720	IFM	
116	1	23.3	=M39+B9KK01-23w5	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
117	1	23.3	=M39+B9KK01-23w4	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
118	1	23.4	=M39+L9SC03-23B2	OJ5131 light barrier receiver	102082721	IFM	
119	1	23.4	=M39+B9KK01-23w6	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
120	1	23.6	=M39+L9SC11-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
121	1	23.6	=M39+L9SC12-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
122	1	23.6	=M39+B9KK01-23w10	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
123	1	23.6	=M39+B9KK01-23w9	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
124	1	23.7	=M39+L9SC13-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
125	1	23.7	=M39+B9KK01-23w11	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
126	1	23.8	=M39+L9SC14-23B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
127	1	23.8	=M39+B9KK01-23w12	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
128	1	24.1	=M39+T9SC01-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
129	1	24.1	=M39+T9-24wE1	SACB-4/4-L-10,0PUR sensor/ actuator box with cable	PC-1695058	PHOENIX CONTACT	
130	1	24.1	=M39+B9KK01-24w1	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
131	1	24.2	=M39+T9SC02-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
132	1	24.2	=M39+B9KK01-24w2	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
133	1	24.3	=M39+T9SC03-24B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
134	1	24.3	=M39+B9KK01-24w3	SAC-4P-5,0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
135	1	24.5	=M39+L9-24wE1	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
136	1	24.6	=M39+L9AL01-24B1	MK5310 magnetic switch for C-Nut	102156398	IFM	
137	1	24.6	=M39+B9KK01-24w5	SAC-3P-5,0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
138	1	24.7	=M39+L9AL01-24B2	MK5310 magnetic switch for C-Nut	102156398	IFM	
139	1	24.7	=M39+B9KK01-24w6	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
140	1	24.8	=M39+L9AL02-24B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
141	1	24.8	=M39+B9KK01-24w7	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
142	1	24.9	=M39+L9AL02-24B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
143	1	24.9	=M39+B9KK01-24w8	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
144	1	25.1	=M39+T9-25WE1	SACB-4/4-C-sensor actuator box	PC-1692857	PHOENIX CONTACT	
145	1	25.2	=M39+T9SC09-25B1	IFS206 proximity switch	102083102	IFM	
146	1	25.2	=M39+B9KK01-25w1	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
147	1	25.3	=M39+T9SC08-25B1	IFS206 proximity switch	102083102	IFM	
148	1	25.3	=M39+B9KK01-25w2	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
149	1	25.4	=M39+T9SC07-25B1	IFS206 proximity switch	102083102	IFM	
150	1	25.4	=M39+B9KK01-25w3	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
151	1	26.2	=M39+T9GD01-26B1	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
152	1	26.2	=M39+T9-26WE1	SACB-8/8-L- 10,0PUR sensor actuator box+cable	PC-1695171	PHOENIX CONTACT	
153	1	26.2	=M39+B9KK01-26w1	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
154	1	26.3	=M39+T9GD01-26B2	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
155	1	26.3	=M39+B9KK01-26w2	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
156	1	26.4	=M39+T9GD01-26B3	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
157	1	26.4	=M39+B9KK01-26w3	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
158	1	26.5	=M39+T9GD01-26B4	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
159	1	26.5	=M39+B9KK01-26w4	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
160	1	26.6	=M39+T9GD01-26B6	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
161	1	26.6	=M39+T9GD01-26B5	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
162	1	26.6	=M39+B9KK01-26w5	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
163	1	26.6	=M39+B9KK01-26w6	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
164	1	26.7	=M39+T9GD01-26B7	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
165	1	26.7	=M39+B9KK01-26w7	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
166	1	26.8	=M39+T9GD01-26B8	OJ5148 reflexion light scanner DC PNP	102083751	IFM	
167	1	26.8	=M39+B9KK01-26w8	SAC-4P-5.0-PUR/M8FS sensor-cable, straight	PC-1681868	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
168	1	27.1	=M39+B8VS01-27B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
169	1	27.1	=M39+B8-27WE1	SACB-4/4-L-10,0PUR sensor/ actuator box with cable	PC-1695058	PHOENIX CONTACT	
170	1	27.1	=M39+B9KK01-27w1	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
171	1	27.2	=M39+B8VS01-27B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
172	1	27.2	=M39+B9KK01-27w2	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
173	1	27.5	=M39+L9-27WE1	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
174	1	27.6	=M39+L9AL03-27B1	MK5310 magnetic switch for C-Nut	102156398	IFM	

			date	12/05				
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no.	pce.	sheet	reference	designation	stock number	manufacturer	
175	1	27.6	=M39+B9KK01-27w5	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
176	1	27.7	=M39+L9AL03-27B2	MK5310 magnetic switch for C-Nut	102156398	IFM	
177	1	27.7	=M39+B9KK01-27w6	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
178	1	27.8	=M39+L9AL04-27B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
179	1	27.8	=M39+B9KK01-27w7	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
180	1	27.9	=M39+L9AL04-27B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
181	1	27.9	=M39+B9KK01-27w8	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
182	1	28.3	=M39+B9VB01-28Q1	26428-KA21-BMH1 VAT Eckv. DN25 m.LMo.SV	102097280	VAT Deutschland GmbH	
183	1	28.3	=M39+B9-28WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
184	1	28.3	=M39+B9KK01-28w1	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
185	1	28.4	=M39+B9VB02-28Q1	26432-KA21-BMH1 VAT Eckv. DN40 m.LMo.SV	102097281	VAT Deutschland GmbH	
186	1	28.4	=M39+B9KK01-28w2	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
187	1	28.6	=M39+B8VM01-28Q1	26432-KA21-BMH1 VAT Eckv. DN40 m.LMo.SV	102097281	VAT Deutschland GmbH	
188	1	28.6	=M39+B9KK01-28w4	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
189	1	29.3	=M39+B9VV01-29Q1	26432-KA21-BMH1 VAT Eckv. DN40 m.LMo.SV	102097281	VAT Deutschland GmbH	
190	1	29.3	=M39+B9-29WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
191	1	29.3	=M39+B9KK01-29w1	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
192	1	29.4	=M39+L9VB03-29Q1	26428-KA21-BMH1 VAT Eckv. DN25 m.LMo.SV	102097280	VAT Deutschland GmbH	
193	1	29.4	=M39+B9KK01-29w2	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
194	1	29.5	=M39+B9VS01-29B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
195	1	29.5	=M39+B9KK01-29w3	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
196	1	29.6	=M39+B9VS01-29B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
197	1	29.6	=M39+B9KK01-29w4	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
198	1	30.3	=M39+L9-30WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
199	1	30.3	=M39+L9VB01-30Q1	26428-KA21-BMH1 VAT Eckv. DN25 m.LMo.SV	102097280	VAT Deutschland GmbH	
200	1	30.3	=M39+B9KK01-30w1	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
201	1	30.4	=M39+L9VB02-30Q1	26432-KA21-BMH1 VAT Eckv. DN40 m.LMo.SV	102097281	VAT Deutschland GmbH	
202	1	30.4	=M39+B9KK01-30w2	SAC-4P-10,0-PUR/M8MS sensor cable, straight	PC-1683484	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
203	1	31.3	=M39+L9VV01-31Q1	24344-QA21-BMK1 VAT Eckv. DN160 m.LMo.SV	102097285	VAT Deutschland GmbH	
204	1	31.3	=M39+L9-31WE1	SACB-4/8-L-10,0PUR sensor actuator box+cable	PC-1695087	PHOENIX CONTACT	
205	1	31.3	=M39+B9KK01-31w1	SAC-5P-M12MS/5,0-PUR sensor actuator cable	PC-1669783	PHOENIX CONTACT	
206	1	31.4	=M39+L9VV02-31Q1	24344-QA21-BMK1 VAT Eckv. DN160 m.LMo.SV	102097285	VAT Deutschland GmbH	
207	1	31.4	=M39+B9KK01-31w2	SAC-5P-M12MS/5,0-PUR sensor actuator cable	PC-1669783	PHOENIX CONTACT	
208	1	31.5	=M39+L9VS01-31B1	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
209	1	31.5	=M39+B9KK01-31w3	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
210	1	31.6	=M39+L9VS01-31B2	MK5101 cylinder sensor T-Nut DC,PNP closer	102098821	IFM	
211	1	31.6	=M39+B9KK01-31w4	SAC-3P-5.0-PUR/M8FS sensor-cable straight	PC-1669628	PHOENIX CONTACT	
	1			SACC-M12MS-4QO-0,34 male jack, straight	PC-1641714	PHOENIX CONTACT	
212	1	32.2	=M39+B8-32WE1	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	

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			devel.	Henker						
			check							
cond.	alter.	date	name	norm						sheet 84 of 87 < 83 85 >

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no.	pce.	sheet	reference	designation	stock number	manufacturer	
213	1	32.2	=M39+B8SW01-32B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
214	1	32.2	=M39+B9KK01-32w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
215	1	32.3	=M39+B8SW20-32B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
216	1	32.3	=M39+B9KK01-32w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
217	1	32.4	=M39+P2SWG31-31B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
218	1	32.4	=M39+P2SWG32-31B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
219	1	32.4	=M39+B9KK01-32w3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
220	1	32.4	=M39+B9KK01-32w4	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
221	1	33.2	=M39+B9SW01-33B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
222	1	33.2	=M39+B9-33w1	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
223	1	33.2	=M39+B9KK01-33w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
224	1	33.3	=M39+B9SW20-33B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
225	1	33.3	=M39+B9KK01-33w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
226	1	33.4	=M39+B9SW21-33B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
227	1	33.4	=M39+B9KK01-33w3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
228	1	34.2	=M39+L9SW01-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
229	1	34.2	=M39+B9-34w1	SACB-4/4-10,0PUR sensor actuator box+cable	PC-1680953	PHOENIX CONTACT	
230	1	34.2	=M39+B9KK01-34w1	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
231	1	34.3	=M39+L9SW20-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
232	1	34.3	=M39+B9KK01-34w2	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
233	1	34.4	=M39+L9SW21-34B1	IFM compact-fluid controller SI 1000	DD004587	IFM	
234	1	34.4	=M39+B9KK01-34w3	SAC-5P-5,0-PUR/M12FS sensor actuator cable, straight	PC-1669848	PHOENIX CONTACT	
	1			SACC-M12MS-4Q0-0,75 male jack, straight	PC-1641769	PHOENIX CONTACT	
235	1	36.0	=M39+B9KK01-36w1	cable JZ-500 7x0,5	HELU-10009	HELUKABEL	
236	1	36.0	=M39+T9HM01-36e1	RMQ-M22-I4 grey box	MOE-216539	MOELLER	
237	1	36.0	=M39+T9HM01-36s1	RMQ-M22-DL-W white illuminated pushbutton	MOE-216922	MOELLER	
	1			RMQ-M22-K10 contact no front	MOE-216376	MOELLER	
238	9	36.0	=M39+B9KK01-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	
	1			STZ 8-FKC-5,08 strain relief	PC-1876880	PHOENIX CONTACT	
	2			ZFKK 1,5-MSTBV-5,08-PE/F	PC-1873032	PHOENIX CONTACT	
239	1	36.1	=M39+T9HM01-36h1	RMQ-M22-LED-18-30V white LED	MOE-216557	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
240	1	36.2	=M39+T9HM01-36h2	RMQ-M22-LED-18-30V blue LED	MOE-218057	MOELLER	
	1			RMQ-adapter M22-A	MOE-216374	MOELLER	
	1			RMQ-M22-L-B signal lamp, blue, flat	MOE-216775	MOELLER	
241	1	36.3	=M39+T9HM01-36h3	RMQ-M22-AMC buzzer	MOE-229015	MOELLER	
	1			RMQ-M22-XAM continuous tone	MOE-229025	MOELLER	
242	1	36.5	=M39+B9KK01-36w2	cable JZ-500 7x0,5	HELU-10009	HELUKABEL	
243	1	36.5	=M39+T9HM02-36e1	RMQ-M22-I4 grey box	MOE-216539	MOELLER	
244	1	36.5	=M39+T9HM02-36s1	RMQ-M22-DL-W white illuminated pushbutton	MOE-216922	MOELLER	
	1			RMQ-M22-K10 contact no front	MOE-216376	MOELLER	
245	1	36.5	=M39+B9KK01-X32	ZFKK 1,5-MSTBV-5,08	PC-1873016	PHOENIX CONTACT	
	1			FKC 2,5/10-STF-5,08	PC-1873281	PHOENIX CONTACT	



