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<http://www.multivac.de>

machine number: 278972

				date	15.07.2019				128835			Tandem Diabetes Care Inc		
				processor	E. Mohr									
				checked										
status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:				R145	278972	sheet Inh_1 < Inh_2 >

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A	Annex / Location	sheet	page designation			date		name	
	Ind_1	History				15.07.2019	E. Mohr		
	1	project			1 Basic machine	15.07.2019	E. Mohr		
	2	cover page	information		1 Basic machine	15.07.2019	E. Mohr		
	3	cover page	information		1 Basic machine	15.07.2019	E. Mohr		
	5	description	programmable controller		1 Basic machine	15.07.2019	E. Mohr		
B	7	description	programmable controller		1 Basic machine	15.07.2019	E. Mohr		
	9	description	terminal strip		1 Basic machine	15.07.2019	E. Mohr		
	10	description	terminal strip		1 Basic machine	15.07.2019	E. Mohr		
	12	heaters 220V	wiring plan		1 Basic machine	15.07.2019	E. Mohr		
	13	heaters 220V	wiring plan		1 Basic machine	15.07.2019	E. Mohr		
	14	heaters 220V	wiring plan		1 Basic machine	15.07.2019	E. Mohr		
C	15	Plug heating 220V	wiring plan		1 Basic machine	15.07.2019	E. Mohr		
	20	description MSA	safety circuit		1 Basic machine	15.07.2019	E. Mohr		
	23	description	photoelectric beam / sensors		1 Basic machine	15.07.2019	E. Mohr		
	27	valve block	Valve cluster		1 Basic machine	15.07.2019	E. Mohr		
	28	description	torque		1 Basic machine	15.07.2019	E. Mohr		
	30	location diagram			1 Basic machine	15.07.2019	E. Mohr		
D	32	location diagram			1 Basic machine	15.07.2019	E. Mohr		
	34	location diagram			1 Basic machine	15.07.2019	E. Mohr		
	50	bus line	EtherCat		1 Basic machine	15.07.2019	E. Mohr		
	100	location diagram Sealing			5 Sealing	15.07.2019	E. Mohr		
	103	Feed machine			5 Sealing	15.07.2019	E. Mohr		
	104	voltage before Main switch			5 Sealing	15.07.2019	E. Mohr		
E	106	Feed Sealing			5 Sealing	15.07.2019	E. Mohr		
	107	Feed Sealing			5 Sealing	15.07.2019	E. Mohr		
	108	service socket USA			5 Sealing	15.07.2019	E. Mohr		
	109	control cabinet	cooling system 2kW		5 Sealing	15.07.2019	E. Mohr		
F	110	EMERGENCY STOP			5 Sealing	15.07.2019	E. Mohr		
				date	15.07.2019				
				processor	E. Mohr				
				checked					
				status	change	date	name	standard	
				Origin:	17000857614		version:	0	
				replaced by:					
				page index			R145	278972	
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	111	EMERGENCY STOP			5 Sealing	15.07.2019	E. Mohr									
	112	EMERGENCY STOP			5 Sealing	15.07.2019	E. Mohr									
	113	EMERGENCY STOP			5 Sealing	15.07.2019	E. Mohr									
	116	start-up conditions			5 Sealing	15.07.2019	E. Mohr									
B	117	start-up conditions			5 Sealing	15.07.2019	E. Mohr			B						
	122	Safety light barrier	Machine infeed		5 Sealing	15.07.2019	E. Mohr									
	124	Safety light barrier	Sealing		5 Sealing	15.07.2019	E. Mohr									
	130	safety circuit			5 Sealing	15.07.2019	E. Mohr									
	131	safety circuit Machine infeed	station		5 Sealing	15.07.2019	E. Mohr									
	132	safety circuit Sealing	station		5 Sealing	15.07.2019	E. Mohr									
C	133	safety circuit machine outfeed	station		5 Sealing	15.07.2019	E. Mohr			C						
	134	safety circuit			5 Sealing	15.07.2019	E. Mohr									
	135	safety circuit			5 Sealing	15.07.2019	E. Mohr									
	136	safety circuit			5 Sealing	15.07.2019	E. Mohr									
	137	safety circuit	side cladding		5 Sealing	15.07.2019	E. Mohr									
	138	safety circuit	side cladding		5 Sealing	15.07.2019	E. Mohr									
D	139	safety circuit	safety relay		5 Sealing	15.07.2019	E. Mohr			D						
	140	safety circuit	EDM		5 Sealing	15.07.2019	E. Mohr									
	150	control terminal			5 Sealing	15.07.2019	E. Mohr									
	151	control terminal	colour		5 Sealing	15.07.2019	E. Mohr									
	160	vacuum pump			5 Sealing	15.07.2019	E. Mohr									
	161	vacuum pump			5 Sealing	15.07.2019	E. Mohr									
E	162	vacuum pump			5 Sealing	15.07.2019	E. Mohr			E						
	180	film unwind	upper web 1		5 Sealing	15.07.2019	E. Mohr									
	181	control web roll	lack end warning		5 Sealing	15.07.2019	E. Mohr									
	182	splice monitoring			5 Sealing	15.07.2019	E. Mohr									
	183	signal tower	Sealing		5 Sealing	15.07.2019	E. Mohr									
F	199	current sensor	output measuring terminal		5 Sealing	15.07.2019	E. Mohr			F						
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					checked											
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		200	heating on			5 Sealing		15.07.2019	E. Mohr							
		201	heating zone 1		preheating from below 1	5 Sealing		15.07.2019	E. Mohr							
		203	heating zone 3		cooling water 1	5 Sealing		15.07.2019	E. Mohr							
		204	heating zone 4		Sealing 1	5 Sealing		15.07.2019	E. Mohr							
B		210	die lifting			5 Sealing		15.07.2019	E. Mohr	B						
		211	die lifting			5 Sealing		15.07.2019	E. Mohr							
		212	die lifting		forming	5 Sealing		15.07.2019	E. Mohr							
		213	die lifting		Sealing	5 Sealing		15.07.2019	E. Mohr							
		214	die lifting		Sealing	5 Sealing		15.07.2019	E. Mohr							
		220	forming			5 Sealing		15.07.2019	E. Mohr							
C		221	forming			5 Sealing		15.07.2019	E. Mohr	C						
		225	vacuum/sealing			5 Sealing		15.07.2019	E. Mohr							
		226	vacuum/sealing			5 Sealing		15.07.2019	E. Mohr							
		227	vacuum/sealing			5 Sealing		15.07.2019	E. Mohr							
		232	Pressure transducer			5 Sealing		15.07.2019	E. Mohr							
		234	Advance /		film brake	5 Sealing		15.07.2019	E. Mohr							
D		235	Advance		rotary shaft encoder	5 Sealing		15.07.2019	E. Mohr	D						
		236	Advance		lower web	5 Sealing		15.07.2019	E. Mohr							
		237	Advance		lower web	5 Sealing		15.07.2019	E. Mohr							
		250	Cross cutter			5 Sealing		15.07.2019	E. Mohr							
		251	Cross cutter 1			5 Sealing		15.07.2019	E. Mohr							
		252	Cross cutter 1			5 Sealing		15.07.2019	E. Mohr							
E		253	Longitudinal cutter		squeezing knife	5 Sealing		15.07.2019	E. Mohr	E						
		254	Cross cutter			5 Sealing		15.07.2019	E. Mohr							
		260	suction unit			5 Sealing		15.07.2019	E. Mohr							
		265	edge trim winder		right	5 Sealing		15.07.2019	E. Mohr							
		266	edge trim winder		right	5 Sealing		15.07.2019	E. Mohr							
F		267	edge trim winder		left	5 Sealing		15.07.2019	E. Mohr	F						
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268		edge trim winder		left		5 Sealing		15.07.2019		E. Mohr													
269		edge trim winder		monitoring		5 Sealing		15.07.2019		E. Mohr													
270		discharge conveyor 1				5 Sealing		15.07.2019		E. Mohr													
271		discharge conveyor 1				5 Sealing		15.07.2019		E. Mohr													
280		monitoring product				5 Sealing		15.07.2019		E. Mohr													
281		measurement Sealing time				5 Sealing		15.07.2019		E. Mohr													
289		synchronisation		synchronisation 1 channel 1		5 Sealing		15.07.2019		E. Mohr													
291		synchronisation		unit version channel 2		5 Sealing		15.07.2019		E. Mohr													
305		Ethernet switch				5 Sealing		15.07.2019		E. Mohr													
560		BELLMARK EasyPrint				5 Sealing		15.07.2019		E. Mohr													
561		BELLMARK EasyPrint				5 Sealing		15.07.2019		E. Mohr													
562		BELLMARK EasyPrint				5 Sealing		15.07.2019		E. Mohr													
563		BELLMARK EasyPrint				5 Sealing		15.07.2019		E. Mohr													
570		Vision System		interface		5 Sealing		15.07.2019		E. Mohr													
601		location diagram		BECKHOFF		5 Sealing		15.07.2019		E. Mohr													
602		location diagram		machine control		5 Sealing		15.07.2019		E. Mohr													
603		location diagram		rotary shaft encoder terminal		5 Sealing		15.07.2019		E. Mohr													
605		location diagram		potential feed terminal		5 Sealing		15.07.2019		E. Mohr													
606		location diagram		potential distributor terminal		5 Sealing		15.07.2019		E. Mohr													
607		location diagram		input terminal		5 Sealing		15.07.2019		E. Mohr													
608		location diagram		potential distributor terminal		5 Sealing		15.07.2019		E. Mohr													
609		location diagram		input terminal		5 Sealing		15.07.2019		E. Mohr													
610		location diagram		potential distributor terminal		5 Sealing		15.07.2019		E. Mohr													
611		location diagram		input terminal		5 Sealing		15.07.2019		E. Mohr													
613		location diagram		input terminal		5 Sealing		15.07.2019		E. Mohr													
614		location diagram		analog		5 Sealing		15.07.2019		E. Mohr													
616		location diagram		analog		5 Sealing		15.07.2019		E. Mohr													
617		location diagram		input terminal		5 Sealing		15.07.2019		E. Mohr													
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A	Annex / Location	sheet	page designation			date	name	
	618	location diagram	Sealing	BECKHOFF	5 Sealing	15.07.2019	E. Mohr	
	620	location diagram		potential feed terminal	5 Sealing	15.07.2019	E. Mohr	
	621	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
	622	location diagram		potential distributor terminal	5 Sealing	15.07.2019	E. Mohr	
B	625	location diagram		potential feed terminal	5 Sealing	15.07.2019	E. Mohr	
	626	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
	627	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
	628	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
	629	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
C	630	location diagram		output terminal	5 Sealing	15.07.2019	E. Mohr	
	631	location diagram	Sealing	Bridge MU6692	5 Sealing	15.07.2019	E. Mohr	
	633	location diagram		terminating clamp	5 Sealing	15.07.2019	E. Mohr	
	670	A potential	Sealing	29 X01	5 Sealing	15.07.2019	E. Mohr	
	671	B potential	Sealing	29 X01	5 Sealing	15.07.2019	E. Mohr	
	672	A_2A potential	Sealing	29 X01	5 Sealing	15.07.2019	E. Mohr	
	673	+ potential	Sealing		5 Sealing	15.07.2019	E. Mohr	
D	674	M potential	Sealing	29X01	5 Sealing	15.07.2019	E. Mohr	
	675	potential	Sealing	29 X01	5 Sealing	15.07.2019	E. Mohr	
	678	potential	Sealing	29 X02	5 Sealing	15.07.2019	E. Mohr	
	=29 881	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
	=29 881.1	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
	=29 881.2	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
E	=29 881.3	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
	=29 881.4	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
	=29 881.5	terminal strip		=29-X01	5 Sealing	15.07.2019	E. Mohr	
	=29 882	terminal strip		=29-X02	5 Sealing	15.07.2019	E. Mohr	
	=29 882.1	terminal strip		=29-X02	5 Sealing	15.07.2019	E. Mohr	
F	=29 882.2	terminal strip		=29-X02	5 Sealing	15.07.2019	E. Mohr	
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				processor	E. Mohr			
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	=29 883	terminal strip		=29-X03	5 Sealing	15.07.2019	E. Mohr		
	=29 884	terminal strip		=29-X04	5 Sealing	15.07.2019	E. Mohr		
	=29 886	terminal strip		=29-X10	5 Sealing	15.07.2019	E. Mohr		
	=06 990	terminal strip		=06-X40	5 Sealing	15.07.2019	E. Mohr		
B	=06 991	terminal strip		=06-X50	5 Sealing	15.07.2019	E. Mohr		
	=Z KE_1	Cable list		=01-W01	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_2	Cable list		=10-W03	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_3	Cable list		=12-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_4	Cable list		=12-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_5	Cable list		=20-W03	6 Cable list	15.07.2019	E. Mohr		
C	=Z KE_6	Cable list		=22-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_7	Cable list		=22-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_8	Cable list		=42-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_9	Cable list		=42-W100	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_10	Cable list		=72-W03	6 Cable list	15.07.2019	E. Mohr		
	=Z KE_11	Cable list		=96-W9601	6 Cable list	15.07.2019	E. Mohr		
D	=Z SE_1	list of parts			7 Bill of material	15.07.2019	E. Mohr		
	=Z SE_2	list of parts			7 Bill of material	15.07.2019	E. Mohr		
	=Z SE_3	list of parts			7 Bill of material	15.07.2019	E. Mohr		
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	=Z SE_5	list of parts			7 Bill of material	15.07.2019	E. Mohr		
E	=Z SE_6	list of parts			7 Bill of material	15.07.2019	E. Mohr		
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	=Z SE_9	list of parts			7 Bill of material	15.07.2019	E. Mohr		
	=Z SE_10	list of parts			7 Bill of material	15.07.2019	E. Mohr		
	=Z SE_11	list of parts			7 Bill of material	15.07.2019	E. Mohr		
F	=Z SE_12	list of parts			7 Bill of material	15.07.2019	E. Mohr		
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A	Annex / Location	sheet	page designation			date	name	
	=Z	SE_13	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_14	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_15	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_16	list of parts		7 Bill of material	15.07.2019	E. Mohr	
B	=Z	SE_17	list of parts		7 Bill of material	15.07.2019	E. Mohr	B
	=Z	SE_18	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_19	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_20	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_21	list of parts		7 Bill of material	15.07.2019	E. Mohr	
	=Z	SE_22	list of parts		7 Bill of material	15.07.2019	E. Mohr	
C		9000				12.07.2019	T. Wiest	C
		9001	Basic machine			12.07.2019	T. Wiest	
		9002	Basic machine			12.07.2019	T. Wiest	
		9003	Basic machine			12.07.2019	T. Wiest	
		9004	Basic machine			12.07.2019	T. Wiest	
		9005	forming station			12.07.2019	T. Wiest	
D		9006	sealing station			12.07.2019	T. Wiest	D
		9007	sealing station			12.07.2019	T. Wiest	
		9008	printer			12.07.2019	T. Wiest	
		9009	Slicing			12.07.2019	T. Wiest	
		9009	pack			12.07.2019	T. Wiest	
		9010	Slicing			12.07.2019	T. Wiest	
E		9011	location diagram			12.07.2019	T. Wiest	E
		9012	location diagram			12.07.2019	T. Wiest	
		9013	location diagram	forming		12.07.2019	T. Wiest	
		9014	location diagram			12.07.2019	T. Wiest	
		9015	location diagram			12.07.2019	T. Wiest	
F		9016	location diagram	Sealing		12.07.2019	T. Wiest	F
				date	15.07.2019			
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9016		location diagram			pack			12.07.2019		T. Wiest					
9017		location diagram			sealing die			12.07.2019		T. Wiest					
9018		description			valves			12.07.2019		T. Wiest					
SP_1		list of parts						Bill of material		12.07.2019		T. Wiest			
SP_2		list of parts						Bill of material		12.07.2019		T. Wiest			
SP_3		list of parts						Bill of material		12.07.2019		T. Wiest			
SP_4		list of parts						Bill of material		12.07.2019		T. Wiest			


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	version	Commission number			name	revision date			version	Commission number			name	revision date			
A	A								U								
	B								V								
	C								W								
	D								X								
B	E								Y								
	F								Z								
	G																
	H																
C	I																
	J																
	K																
	L																
D	M																
	N																
	O																
	P																
E	Q																
	R																
	S																
F	T																
					date	15.07.2019		 MULTIVAC	128835		History						
					processor	E. Mohr											
					checked												
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<http://www.multivac.de>

customer:	Tandem Diabetes Care Inc
machine number:	278972

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				date	15.07.2019		128835	project	Tandem Diabetes Care Inc							
				processor	E. Mohr											
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Only use copper wires

type

R145

power supply

220 /127

V

60

Hz

phases

3/PE AC

power consumption

8

kW

max. rated current

55

A

max. Mains fuse

63

A

max. short circuit current

5

kA

machine control

IPC06 2G

conductor cross section

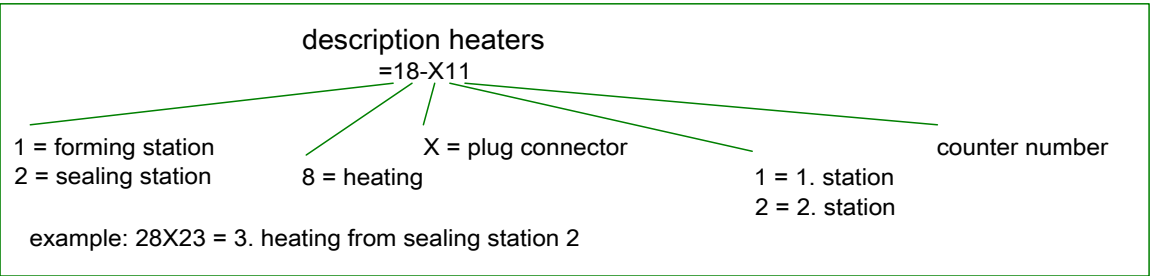
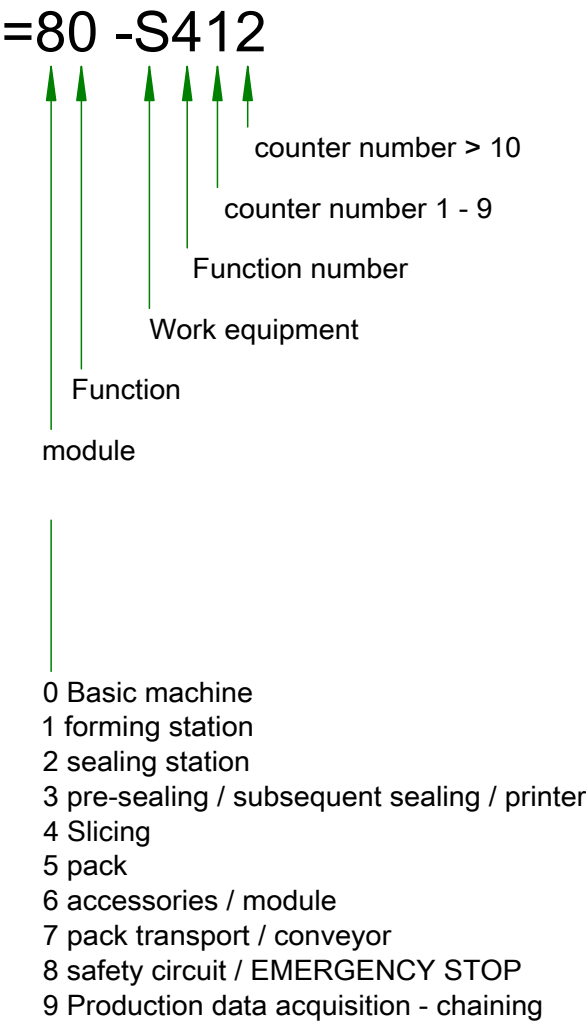
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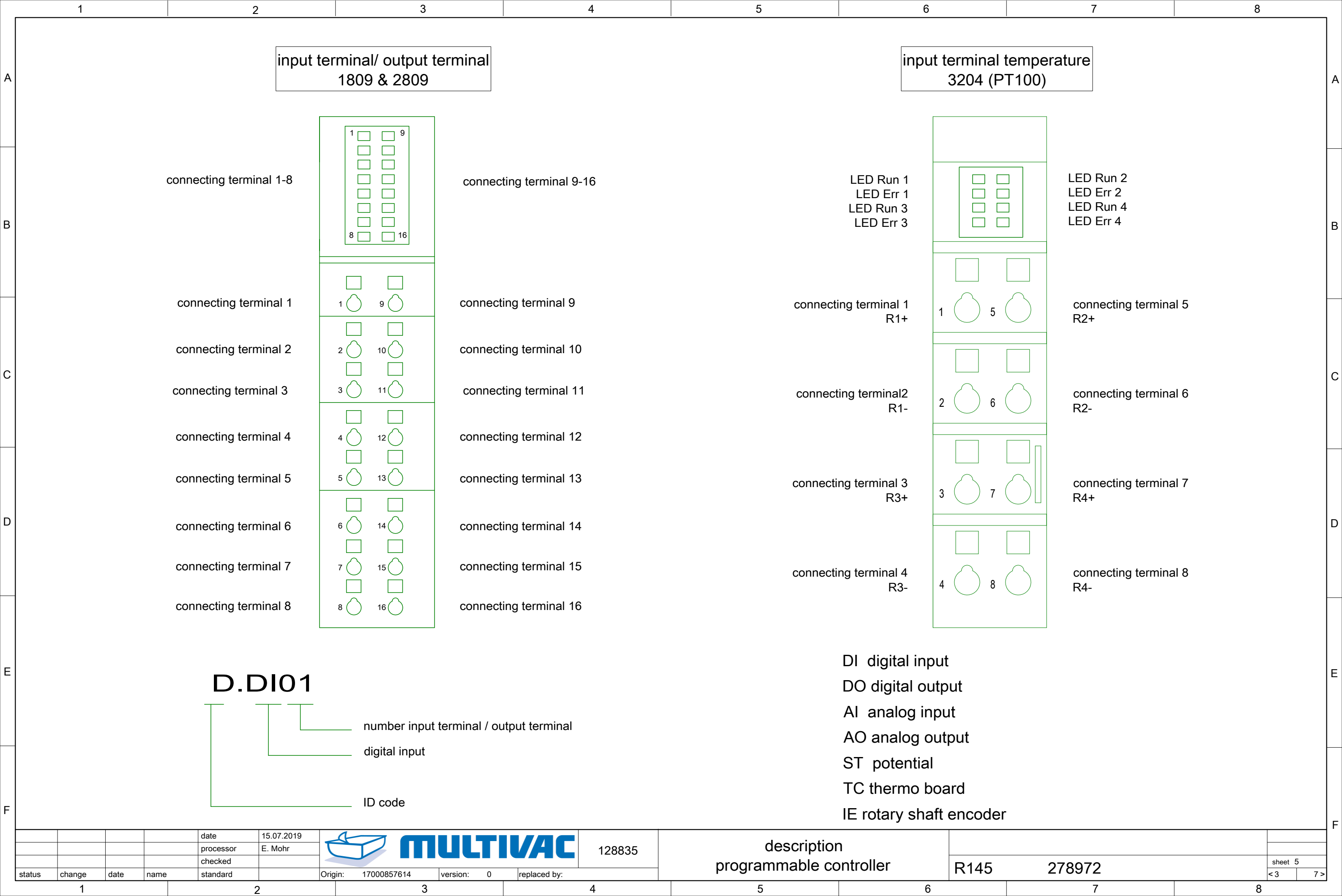
mm²

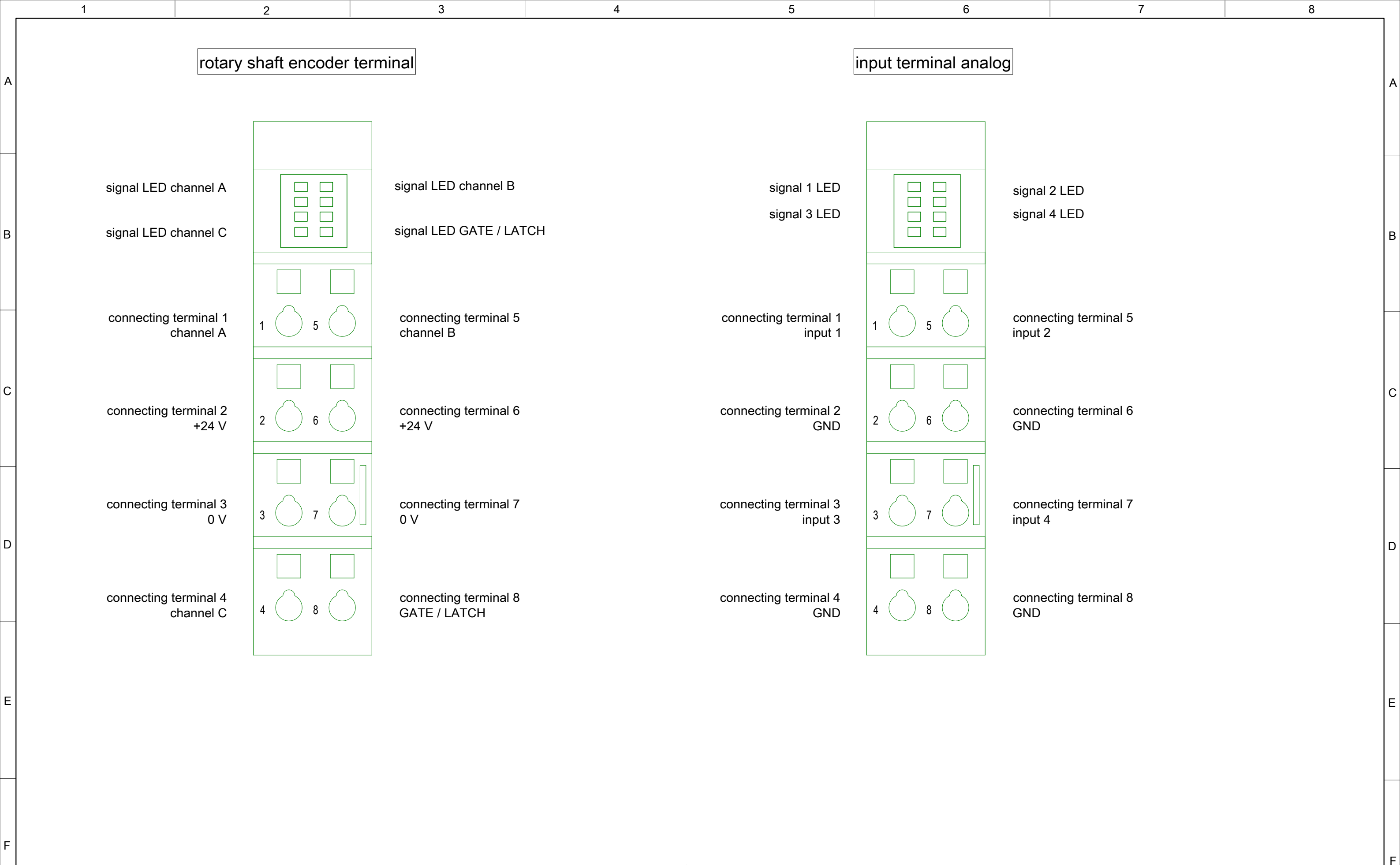
Main switch

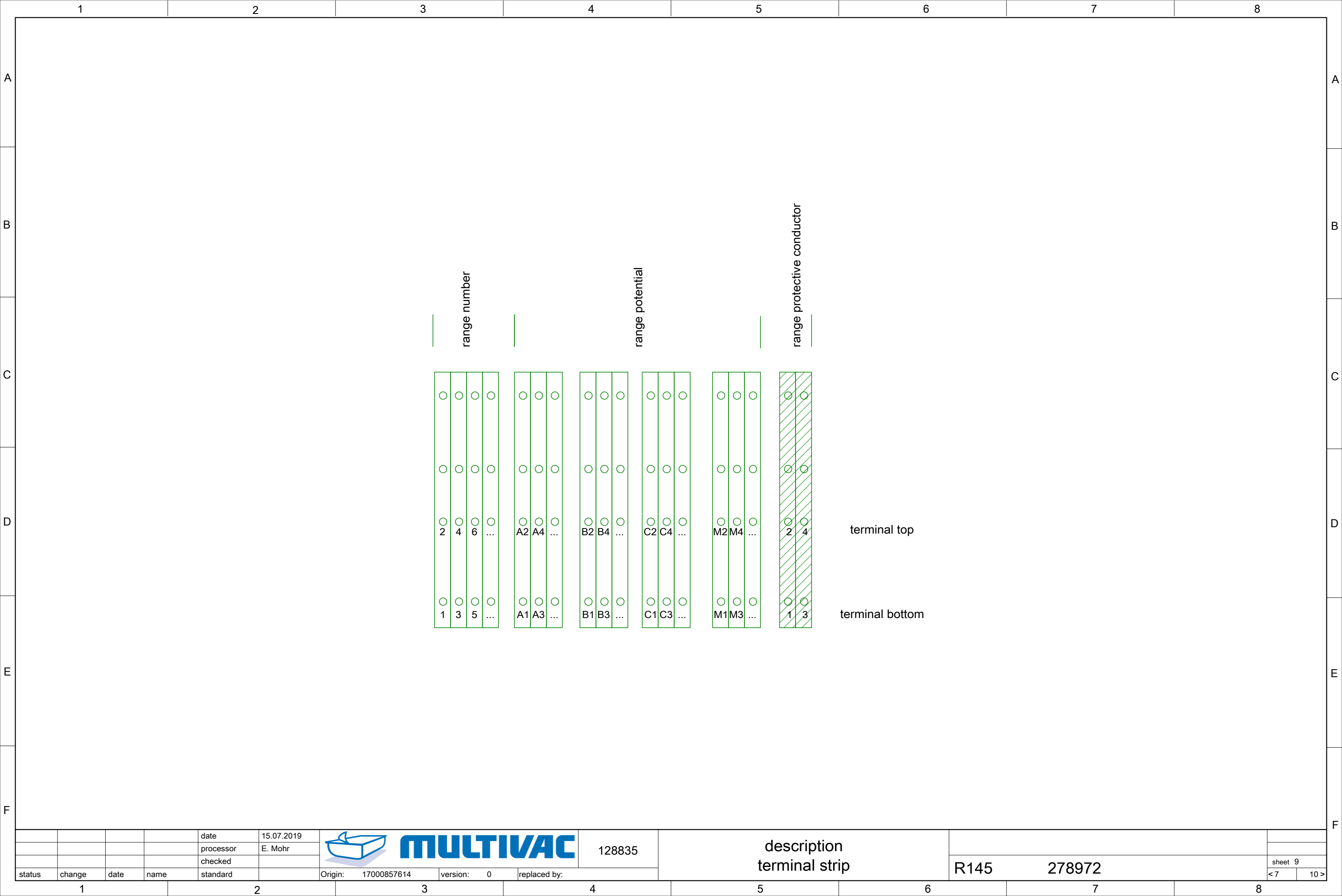
power supply sheet
main control cabinet: 5 Sealing
page designation: Feed machine

description ID code

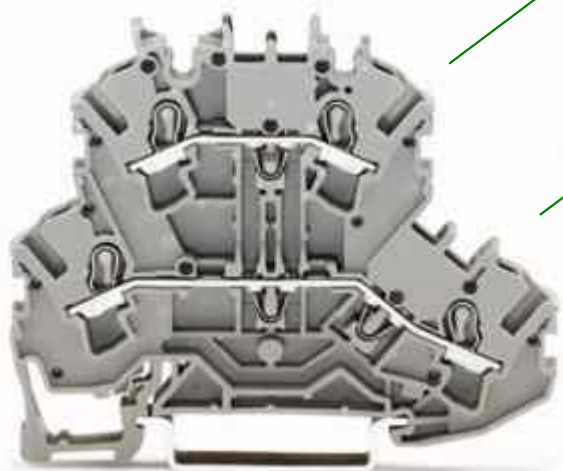
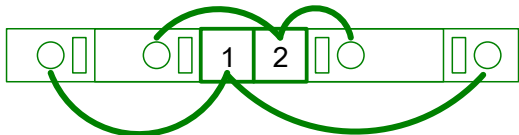






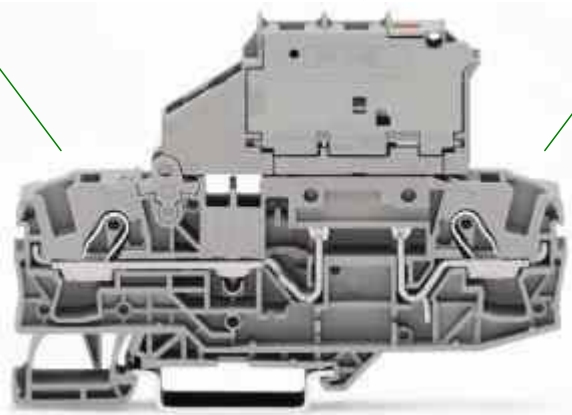
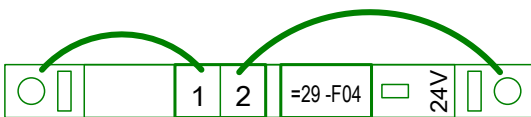


description Inscription terminal blocks



2,4,6...16,18

1,3,5...15,17

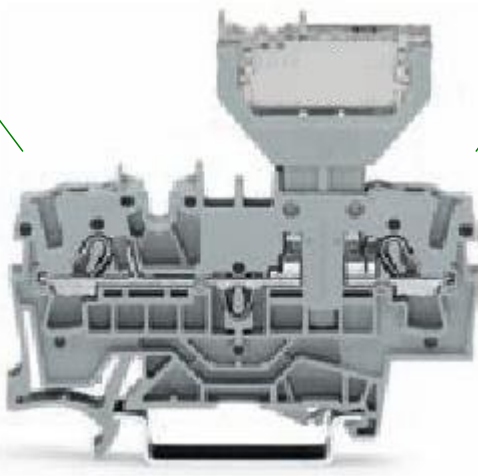


2
1 etc.

=29 -F04, etc.

1,3,5,...

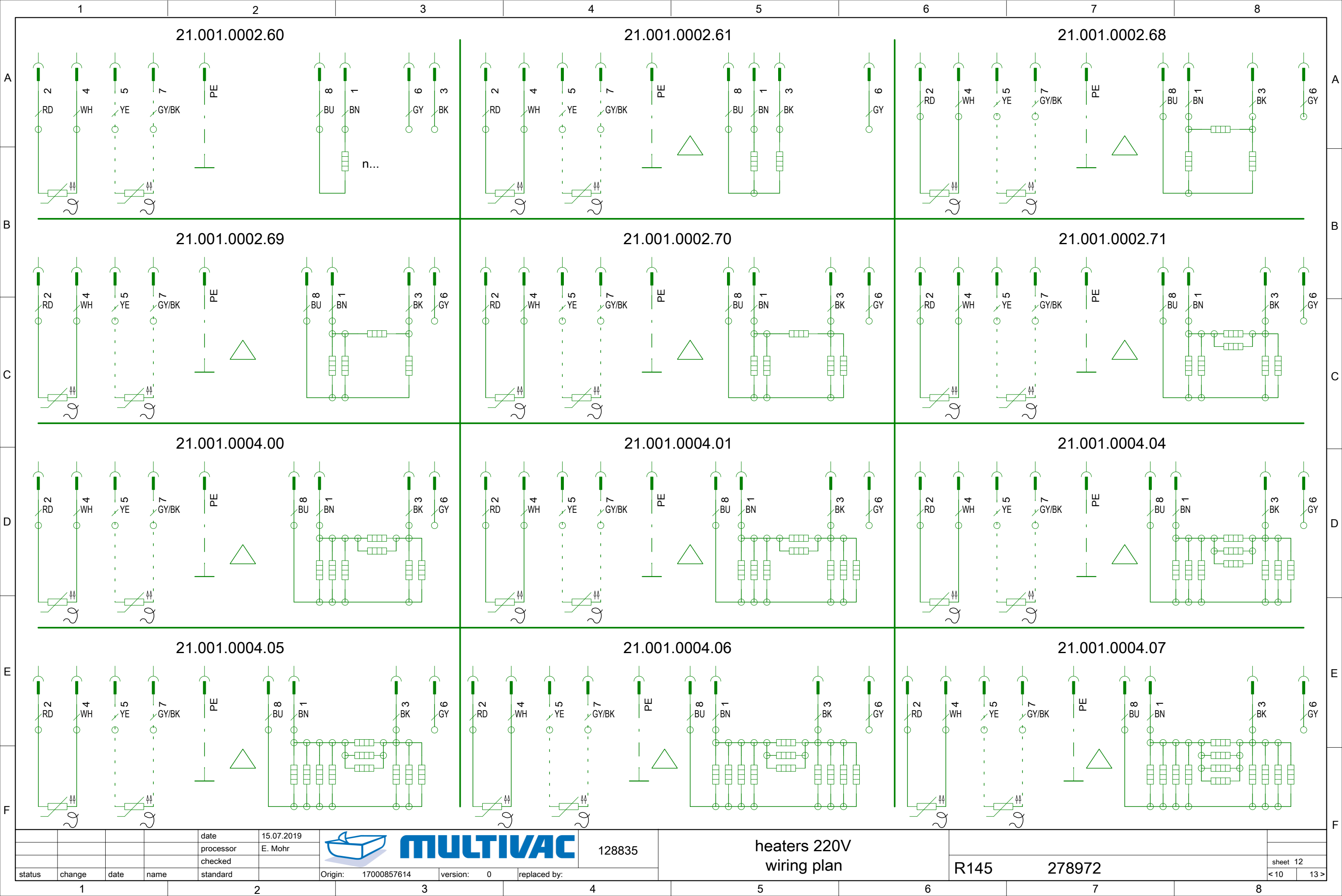
2,4,6,...

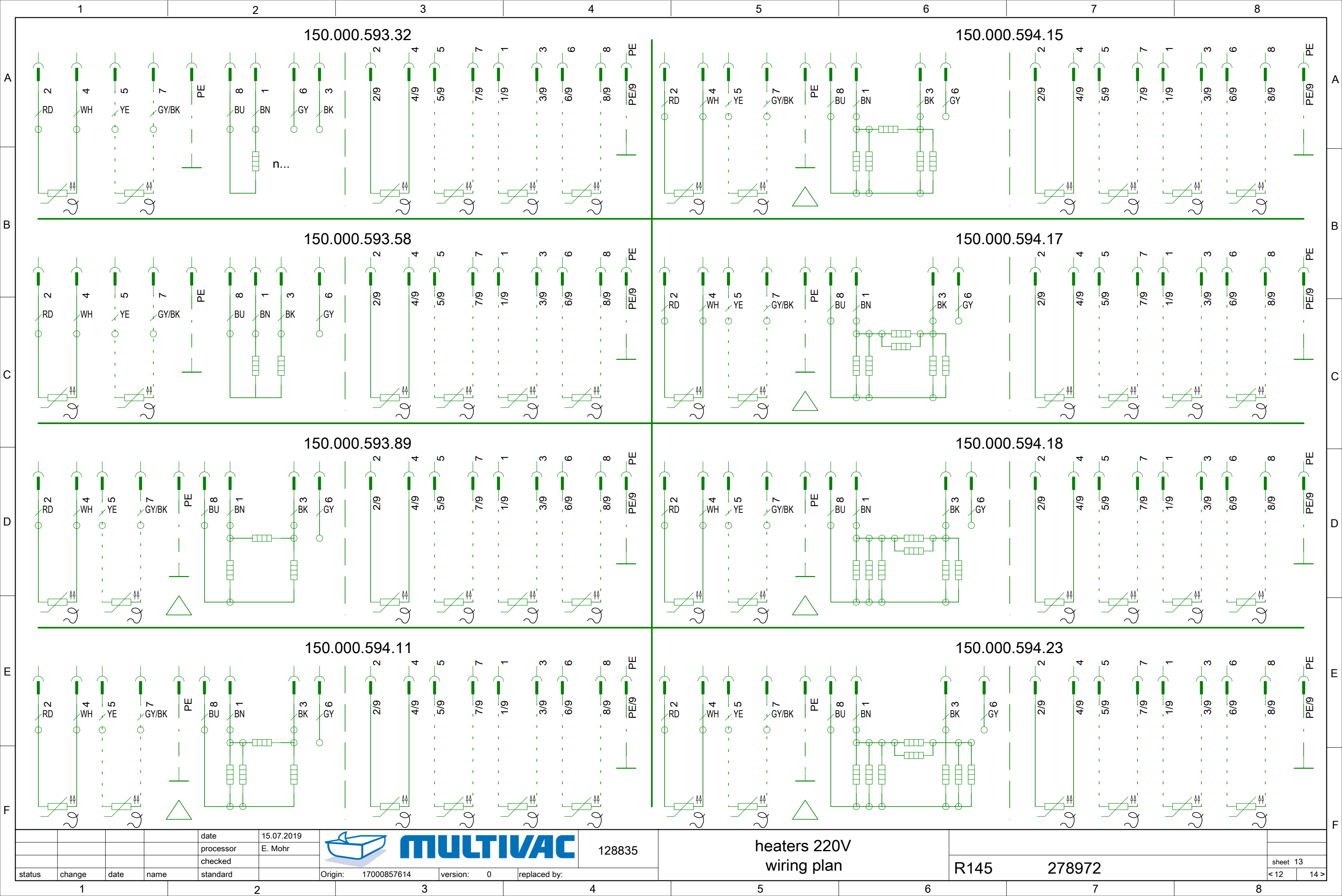


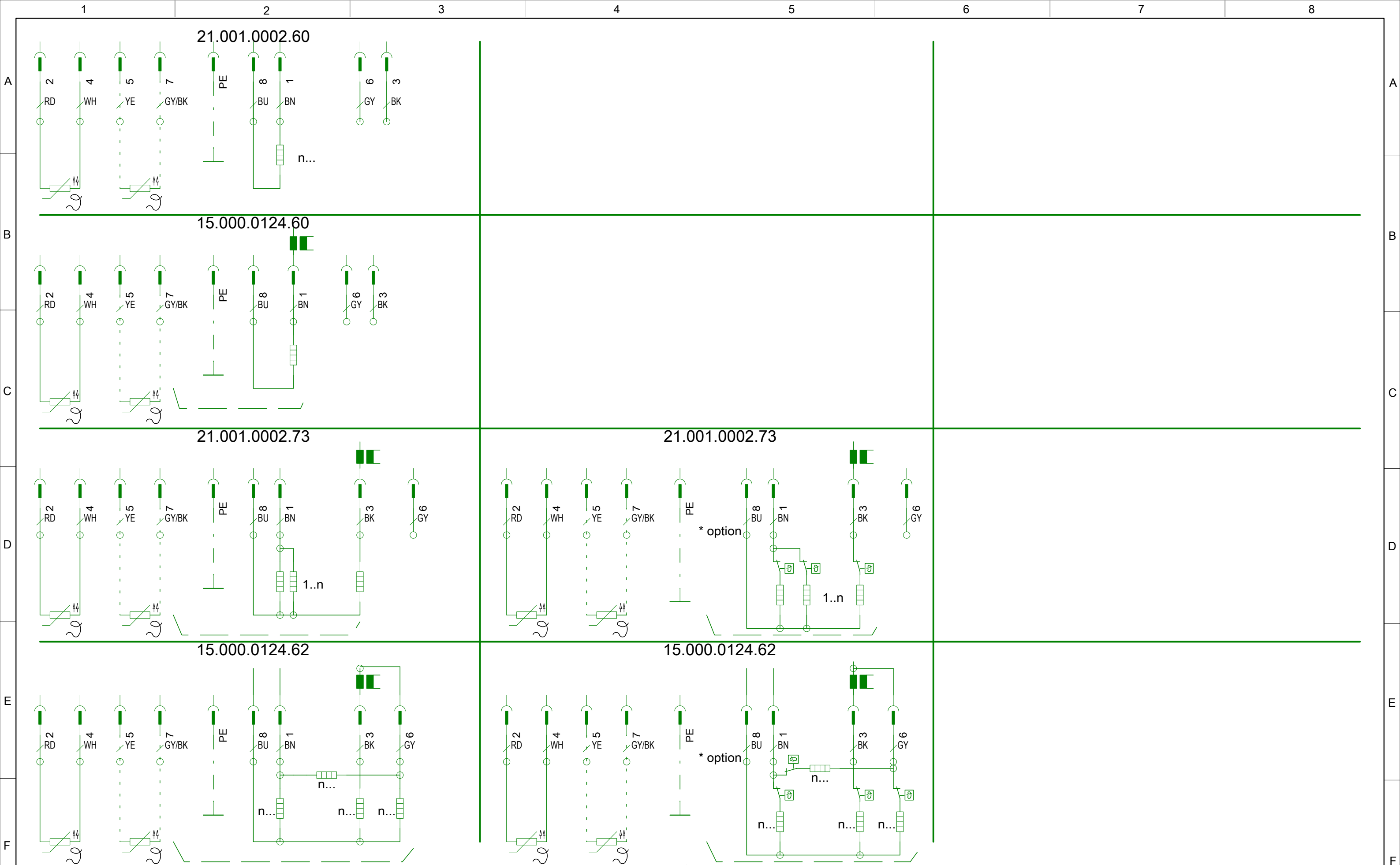
=80 -X01, etc.

1,3,5,...

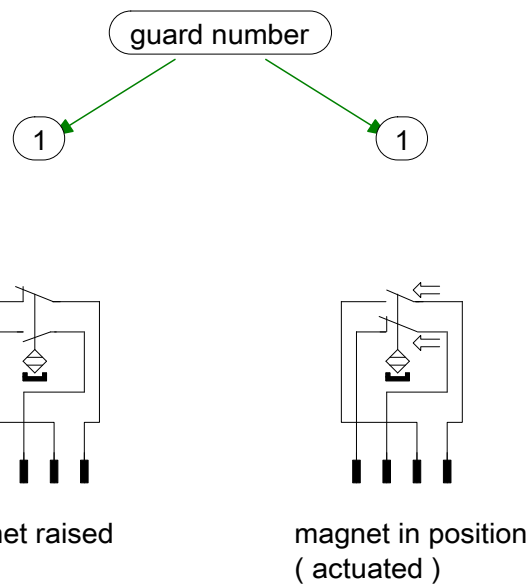
2,4,6,...







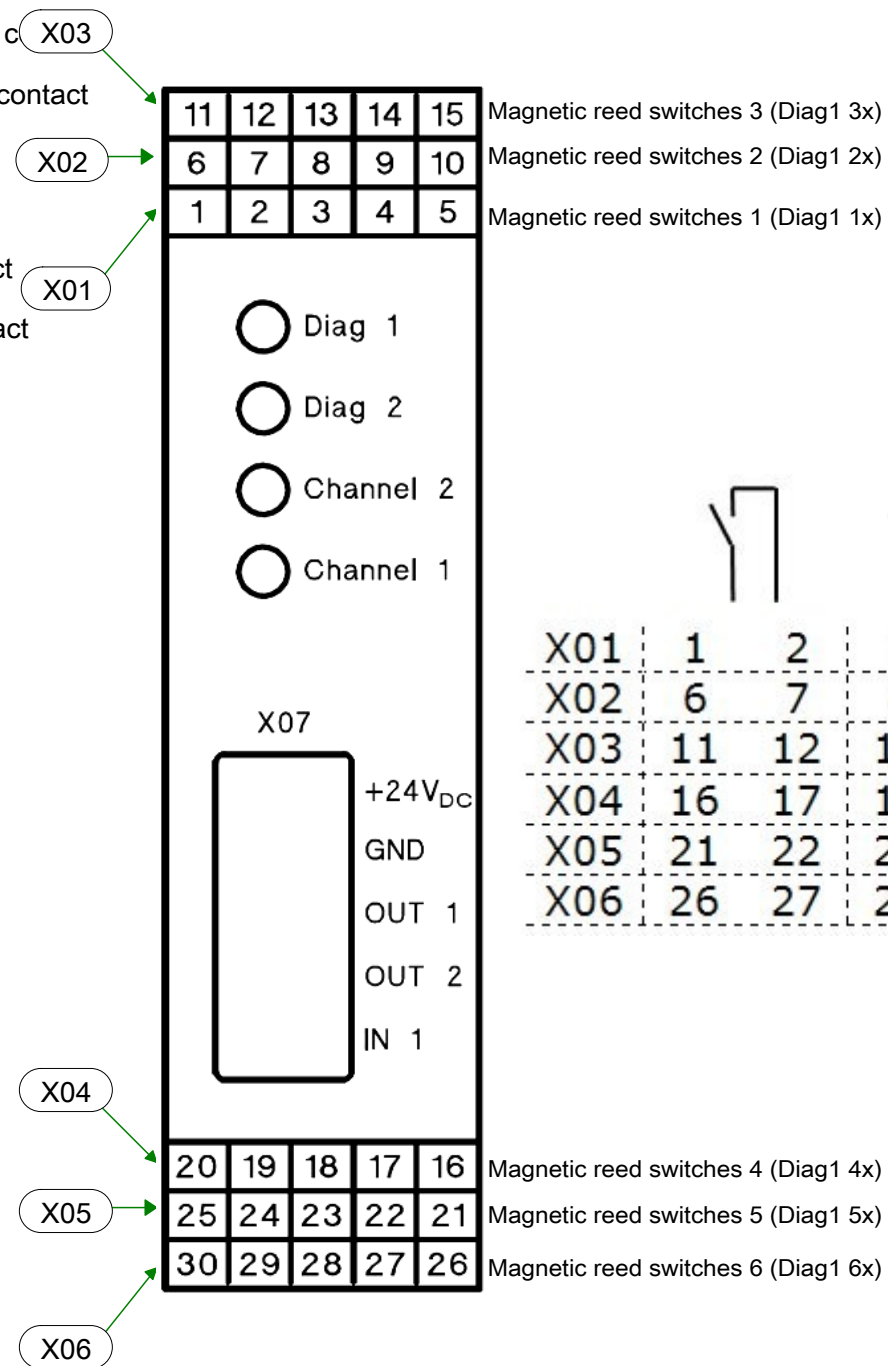
material number	description
105778984	Magnetic reed switches 0,14m (M8-plug) Normally open contact / Normally closed c
105933977	Magnetic reed switches 0,25m (M8-plug) Normally open contact / Normally closed contact
107918453	Extension cable 6m (M8 socket)
107918457	Extension cable 12m (M8 socket)
105284214	Magnetic reed switches 5m (cable) Normally open contact / Normally closed contact
105519939	Magnetic reed switches 12m (cable) Normally open contact / Normally closed contact
106903717	safety module MSA01

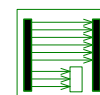
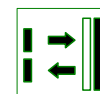
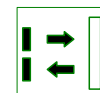
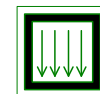
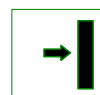
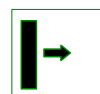
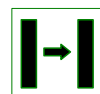
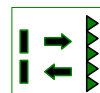
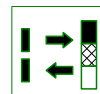



safety circuit:

R145_278972_MSA01_Rev_0.csv



safety module







				date	15.07.2019	 MULTIVAC 128835			description photoelectric beam / sensors			
				processor	E. Mohr							
				checked								
status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:		R145	278972	sheet 23 < 20 27 >

"M" plug connector:	"M" plug connector: blue IP69K
M8: 0,4Nm	M8: 0,6Nm
M12: 0,6Nm	M12: 0,8Nm

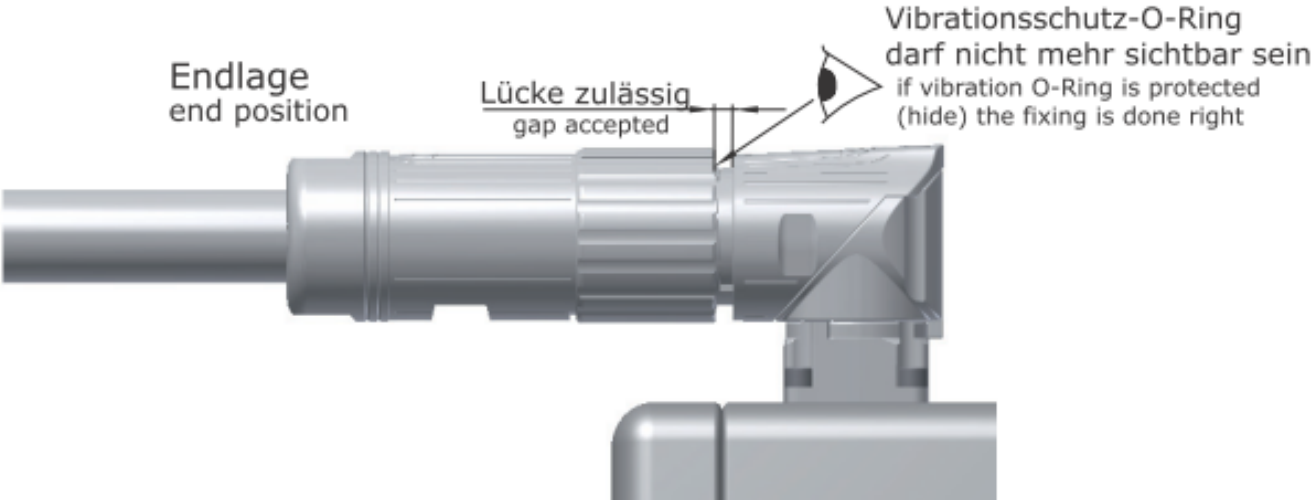
Valve cluster:	
end plate: (4x) 1,0 - 1,2 Nm	
valve unit (800 l) (3x) 1,0 - 1,2 Nm	
valve unit (1000 l) (3x) 0,8 Nm	

SIEMENS:
main contact S00 + auxiliary contact: 0,8 - 1,2 Nm
main contact S0: 2 - 2,5 Nm
miscellaneous: 0,8 - 1,2 Nm

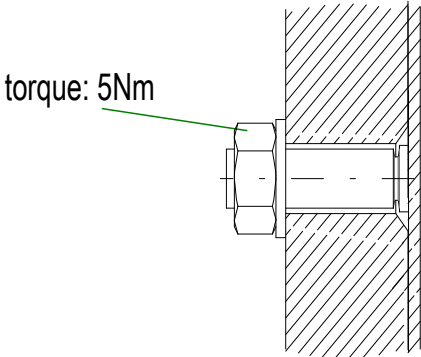
miscellaneous:
Main switch: 2,5 - 3 Nm
 screw terminal: 0,5 - 0,6 Nm

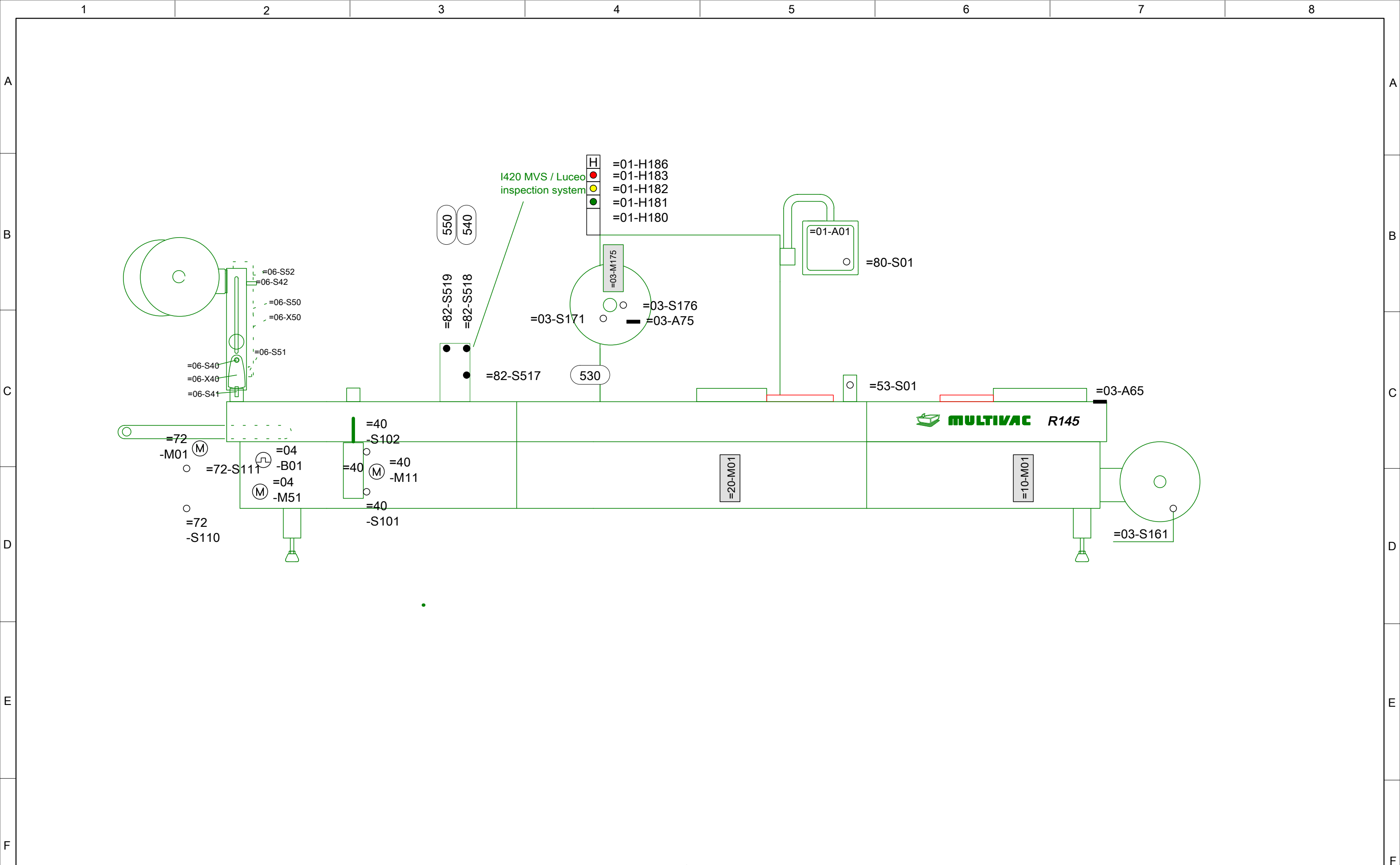
	Phoenix SACB:
	M8: 0,2Nm
	M12: 0,4Nm

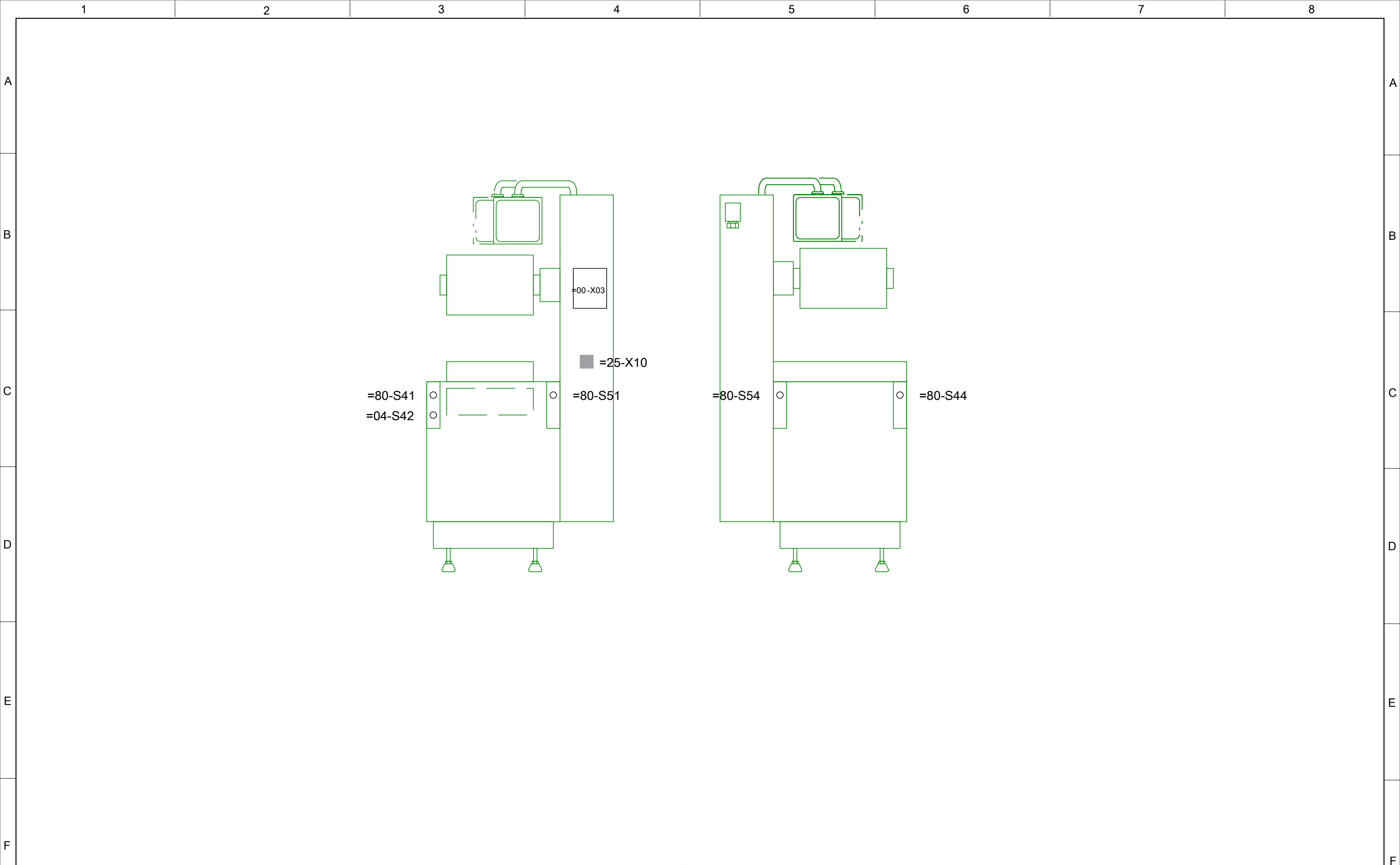
Kollmorgen:		
Typ		torque
623	M23x1 rotary shaft encoder	0,8Nm
923	M23x1 motor	1,8Nm

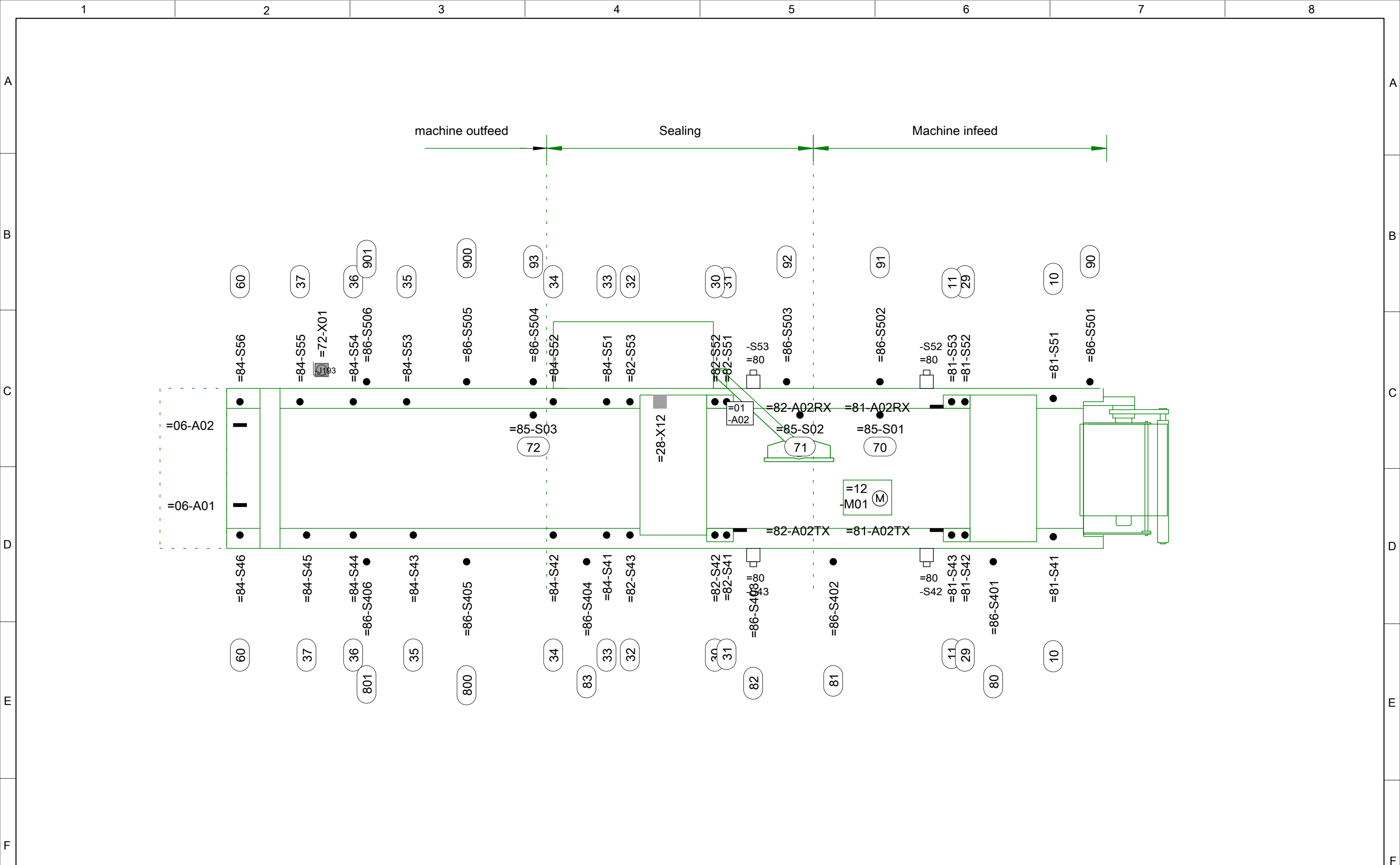


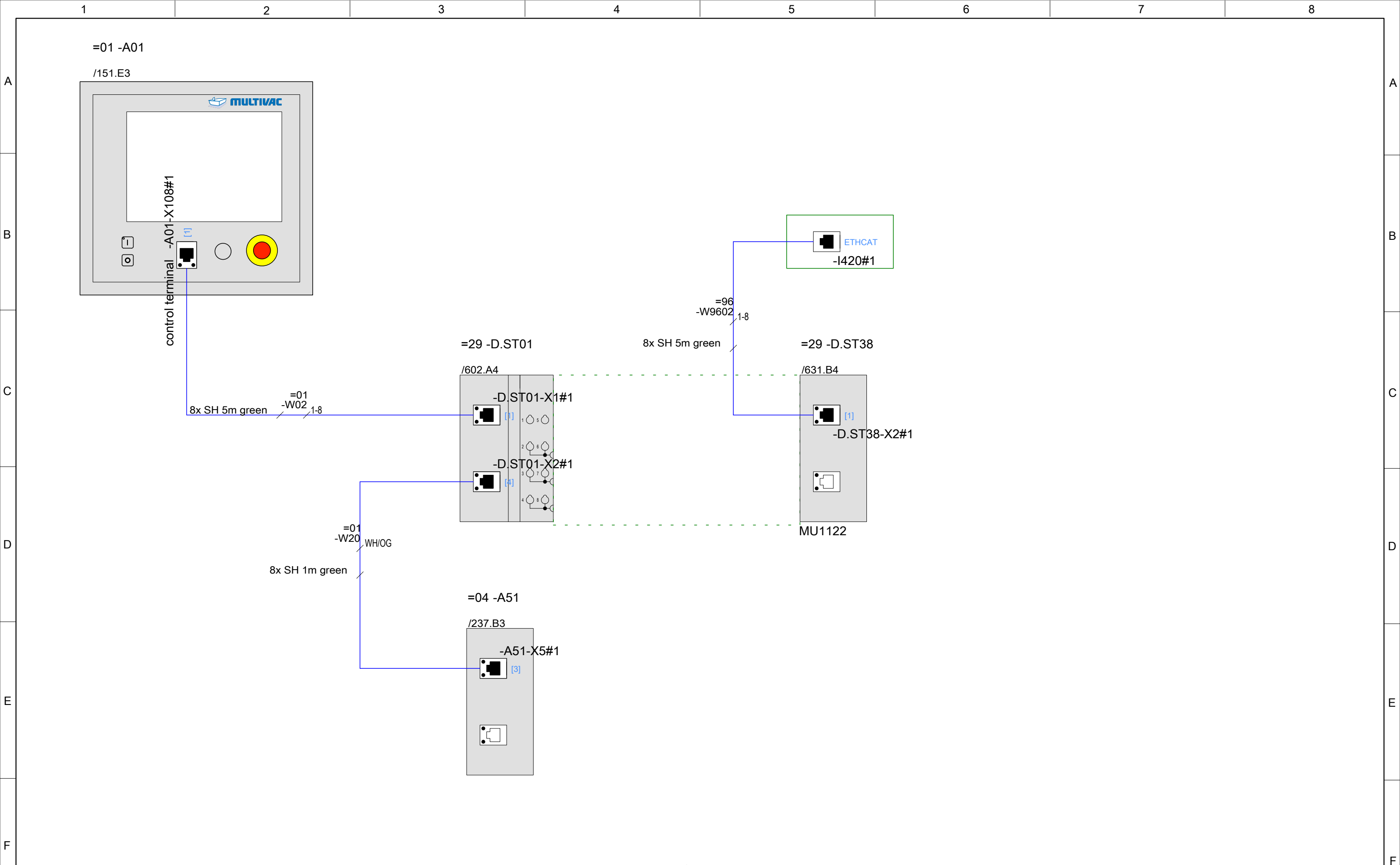
Beckhoff servo motor:
torque: 3Nm

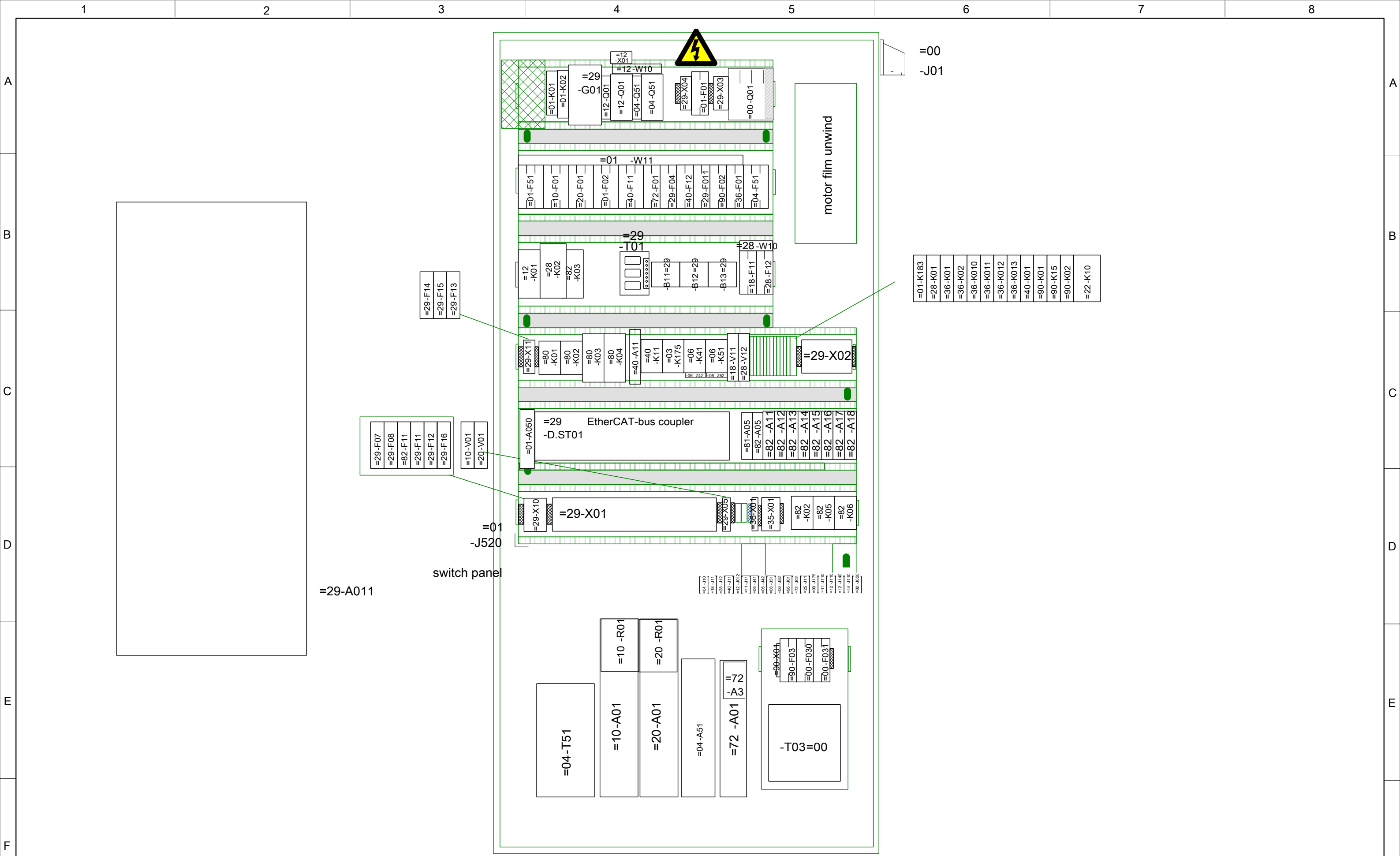
control cabinet Bolts


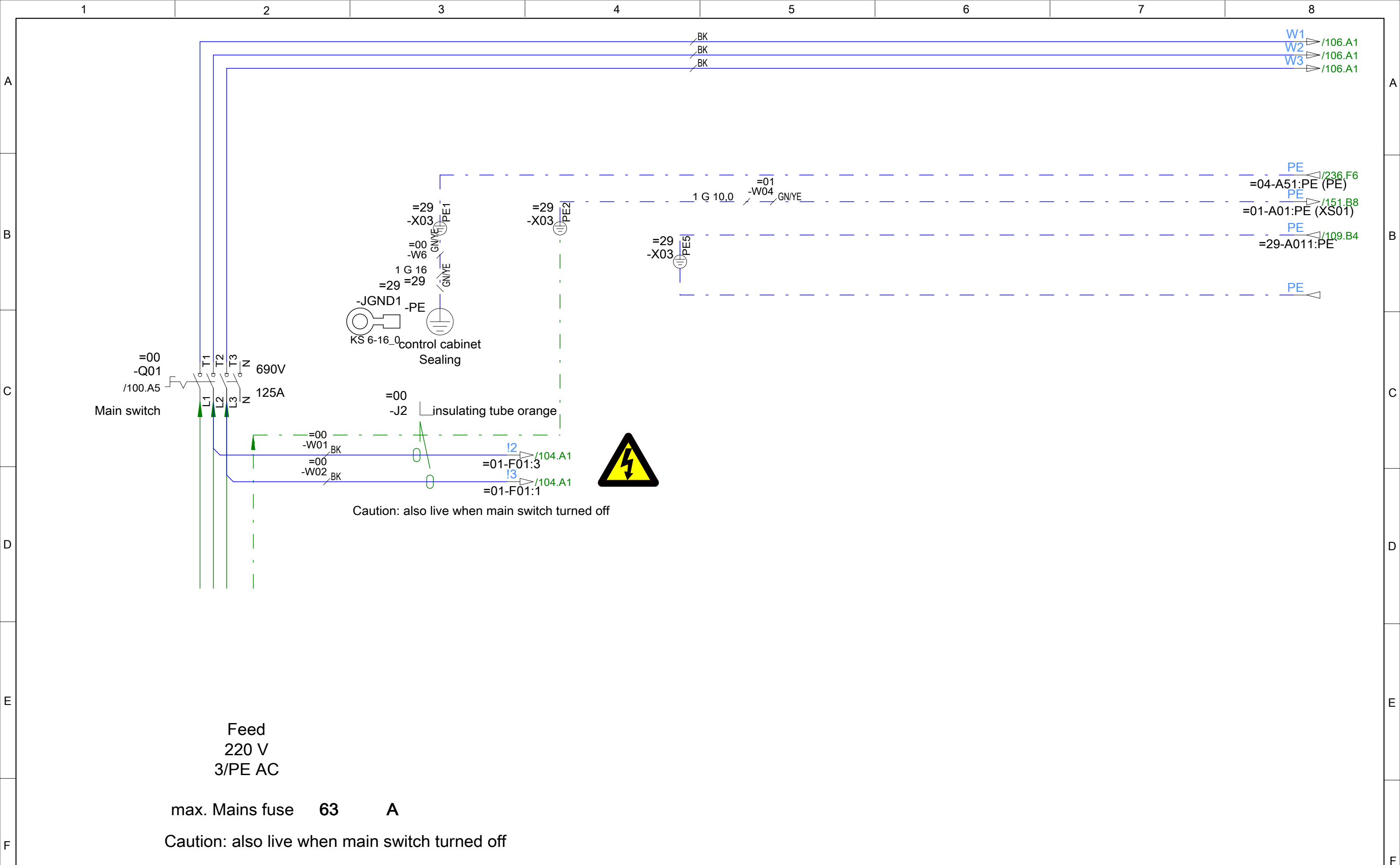











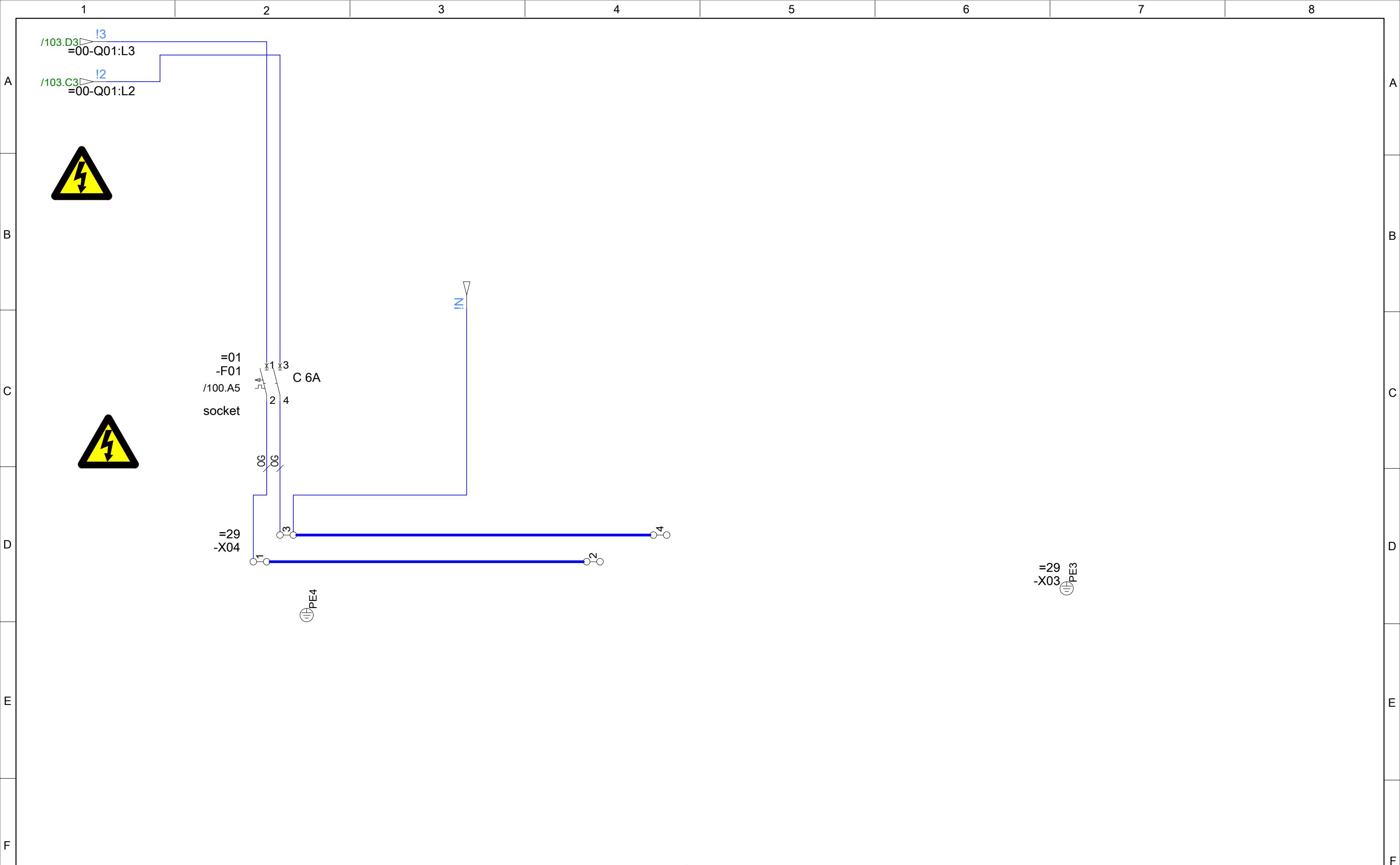



Feed
220 V
3/PE AC

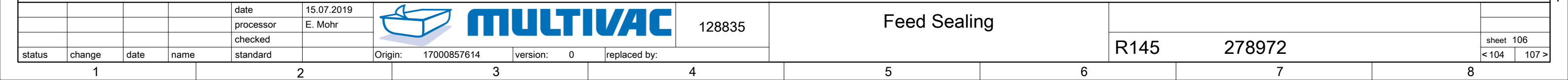
max. Mains fuse **63** **A**

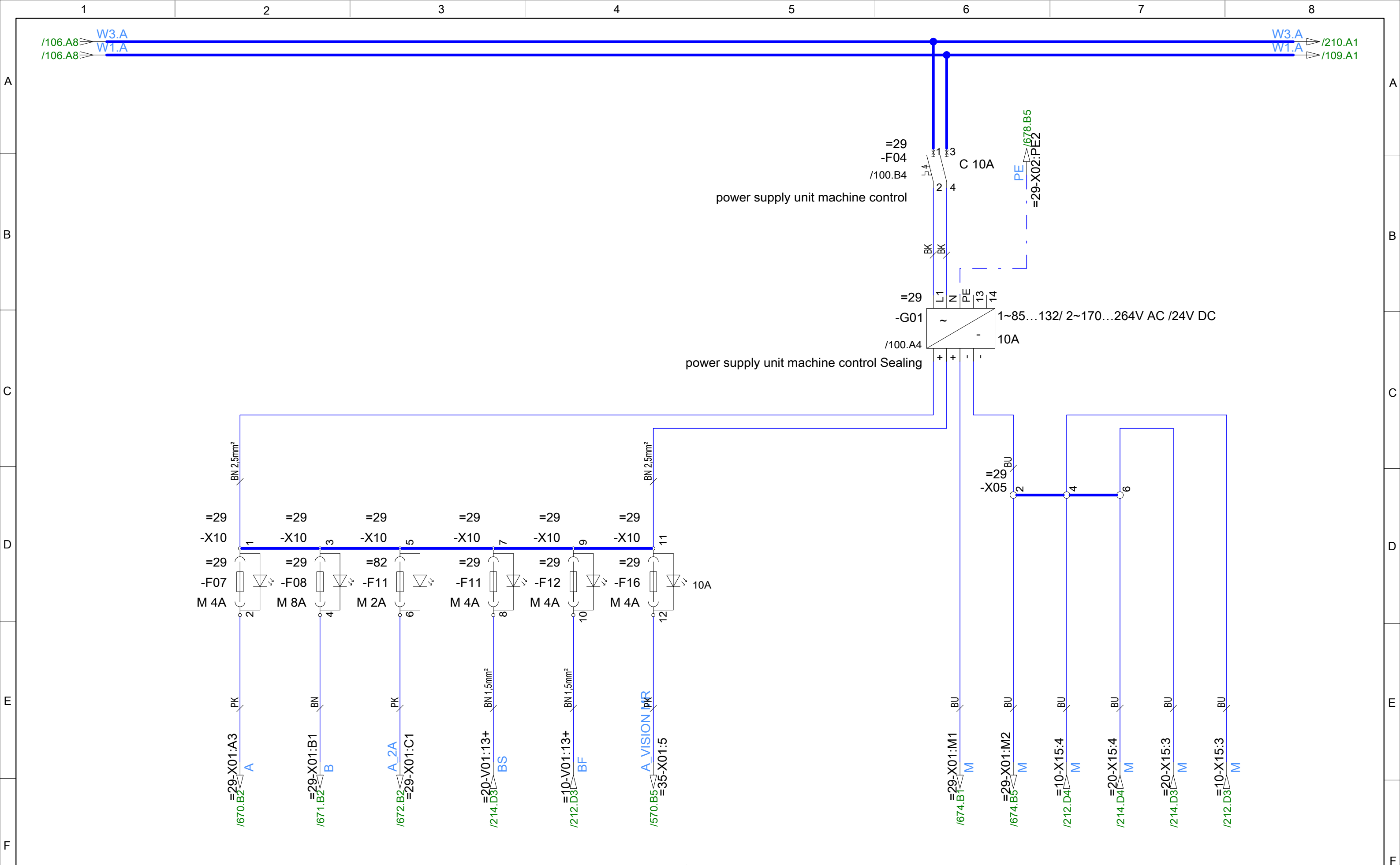
Caution: also live when main switch turned off

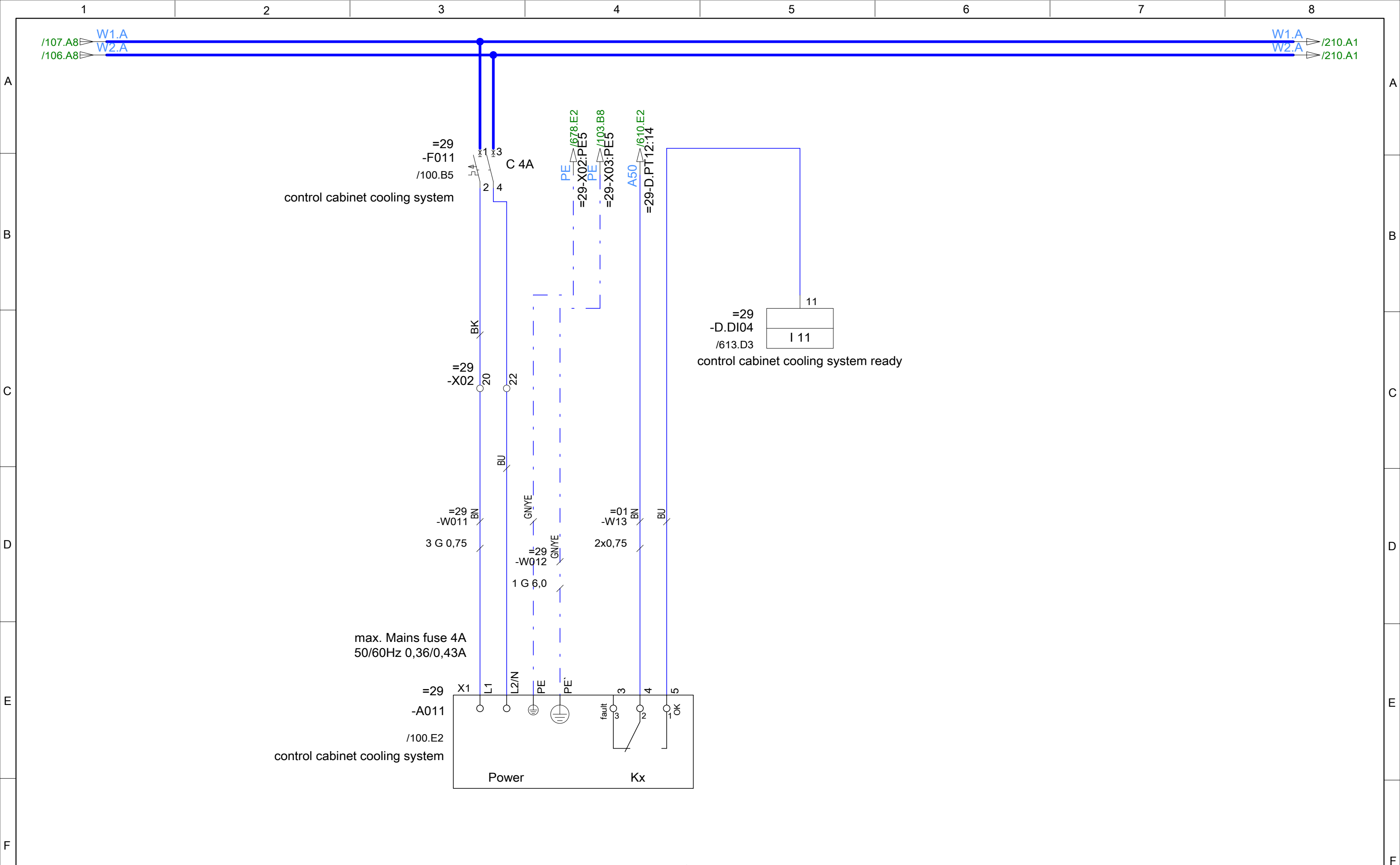
				date	15.07.2019	 MULTIVAC			128835	Feed machine					
				processor	E. Mohr										
				checked											
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 103	
														< 100	104 >

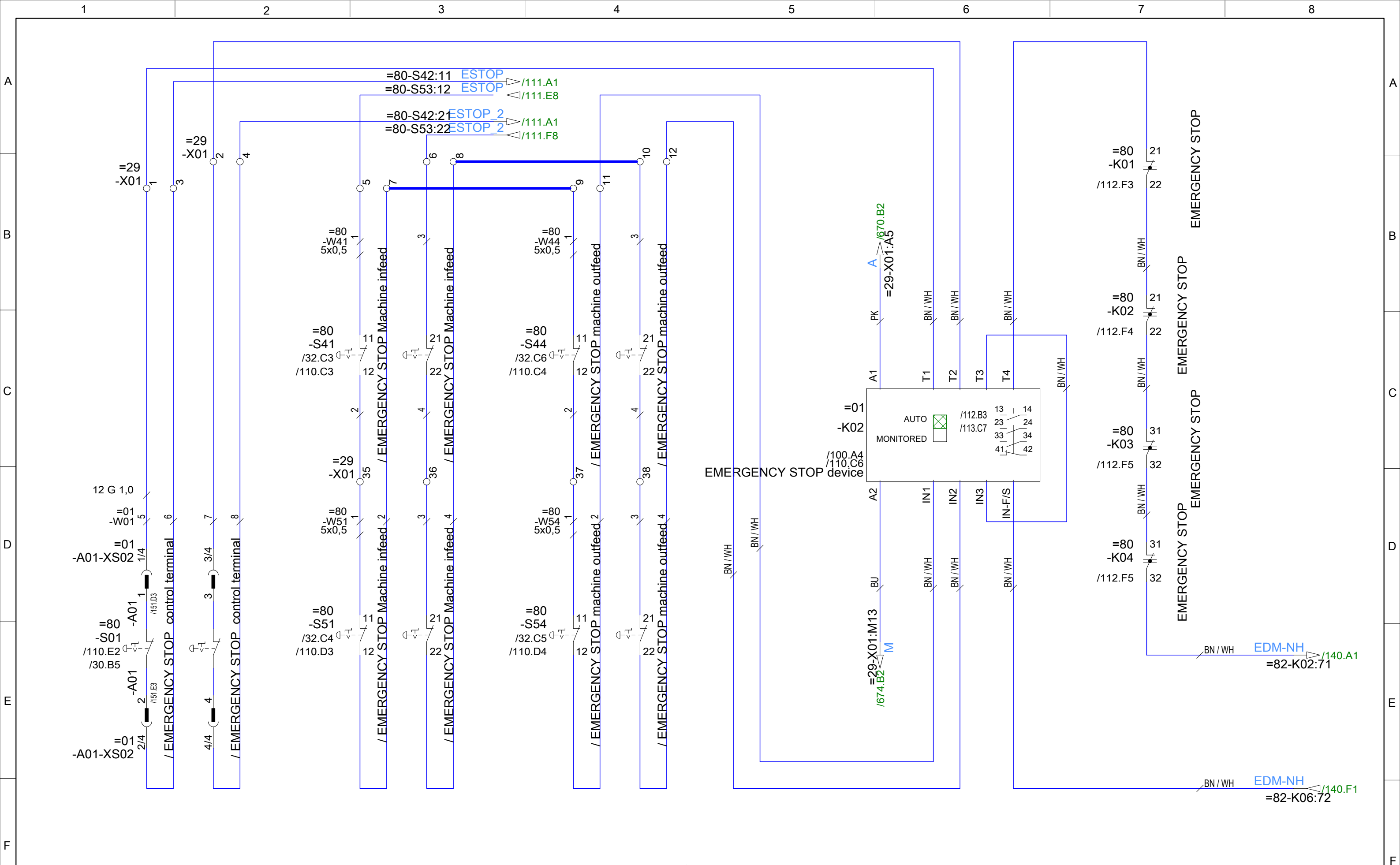


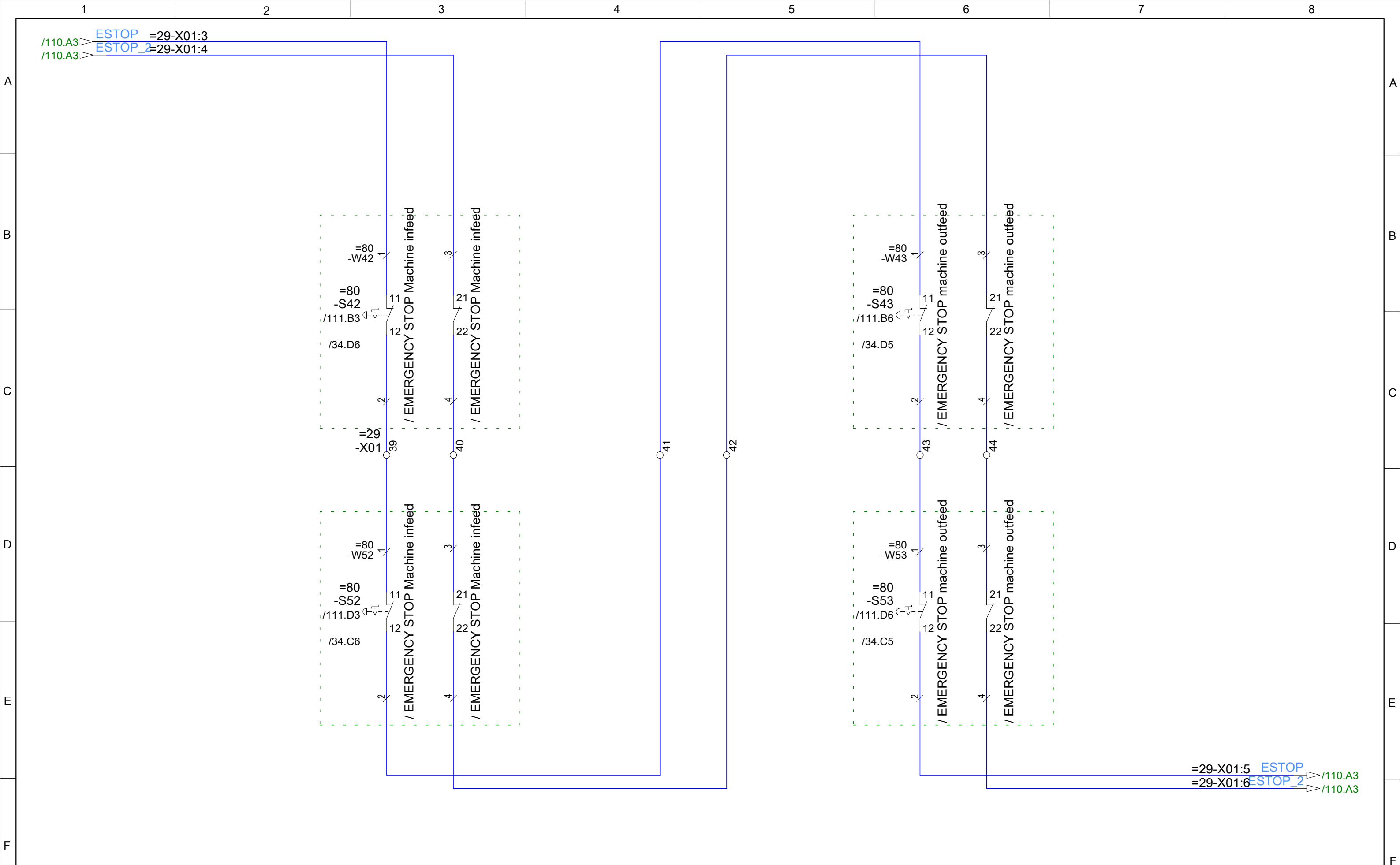
				date	15.07.2019				128835	voltage before Main switch				
				processor	E. Mohr									
				checked										
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 104
											< 103	106 >		






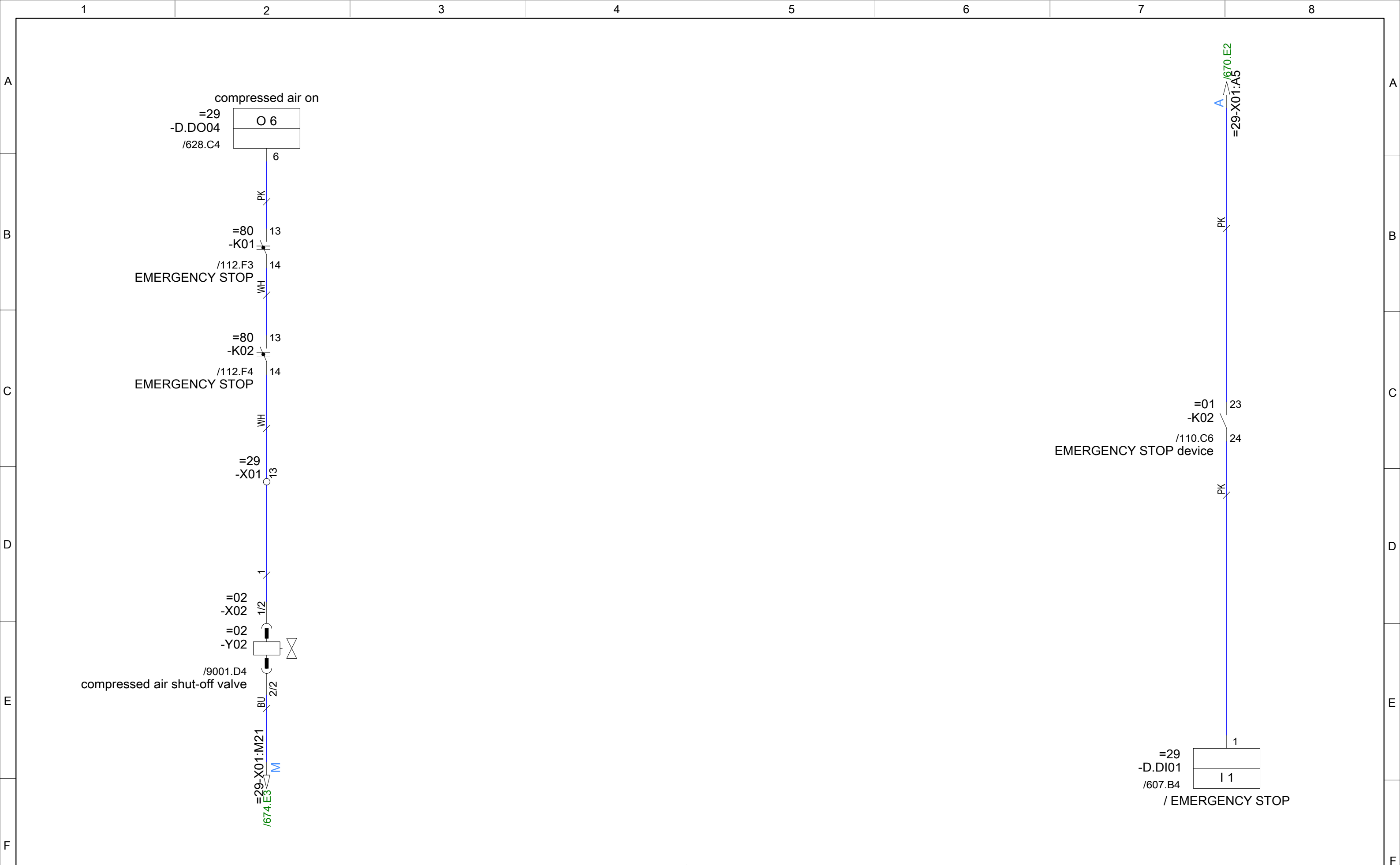





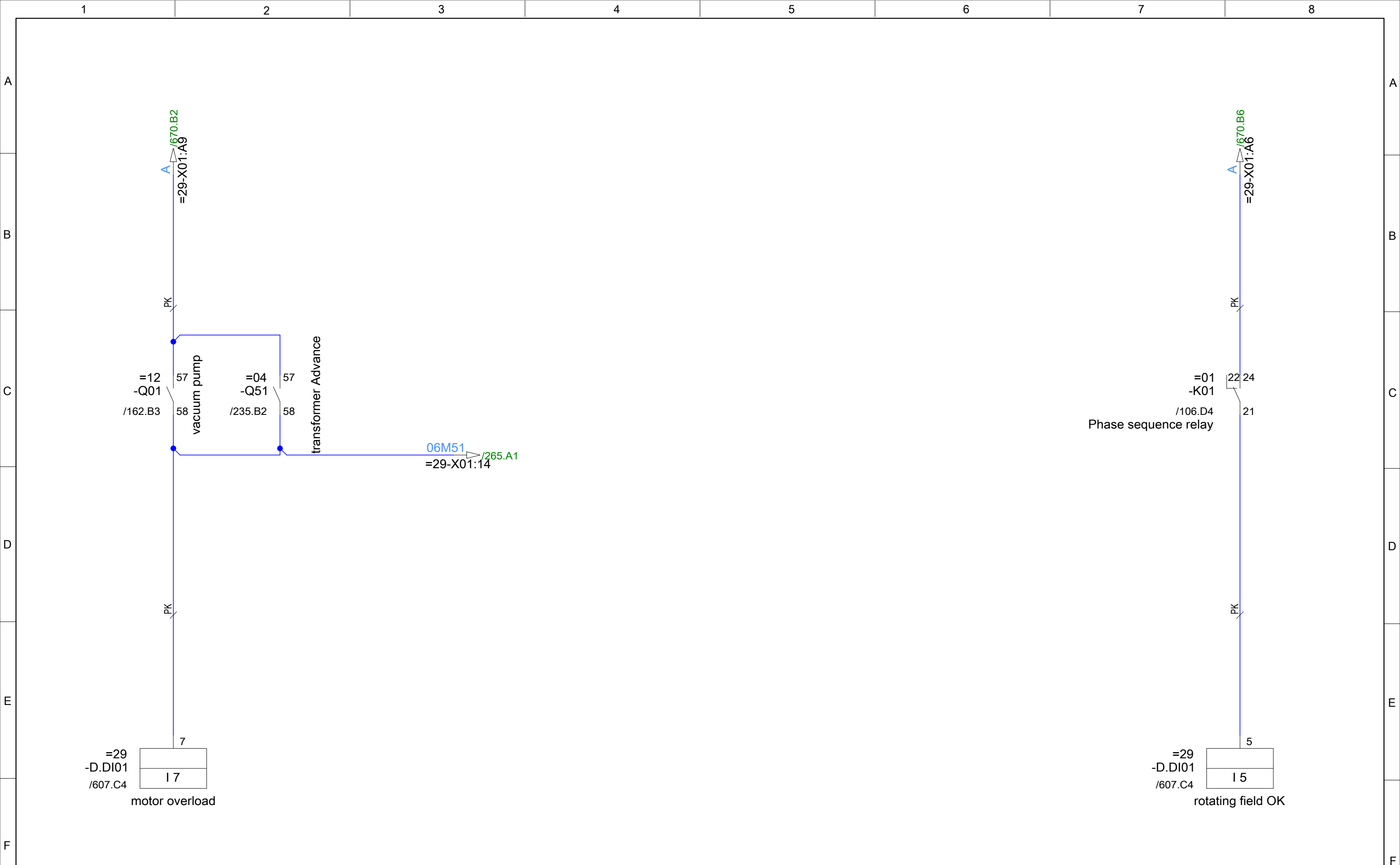



				date	15.07.2019			128835		EMERGENCY STOP		R145		278972		sheet 111	
				processor	E. Mohr												
				checked													
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:						< 110	112 >

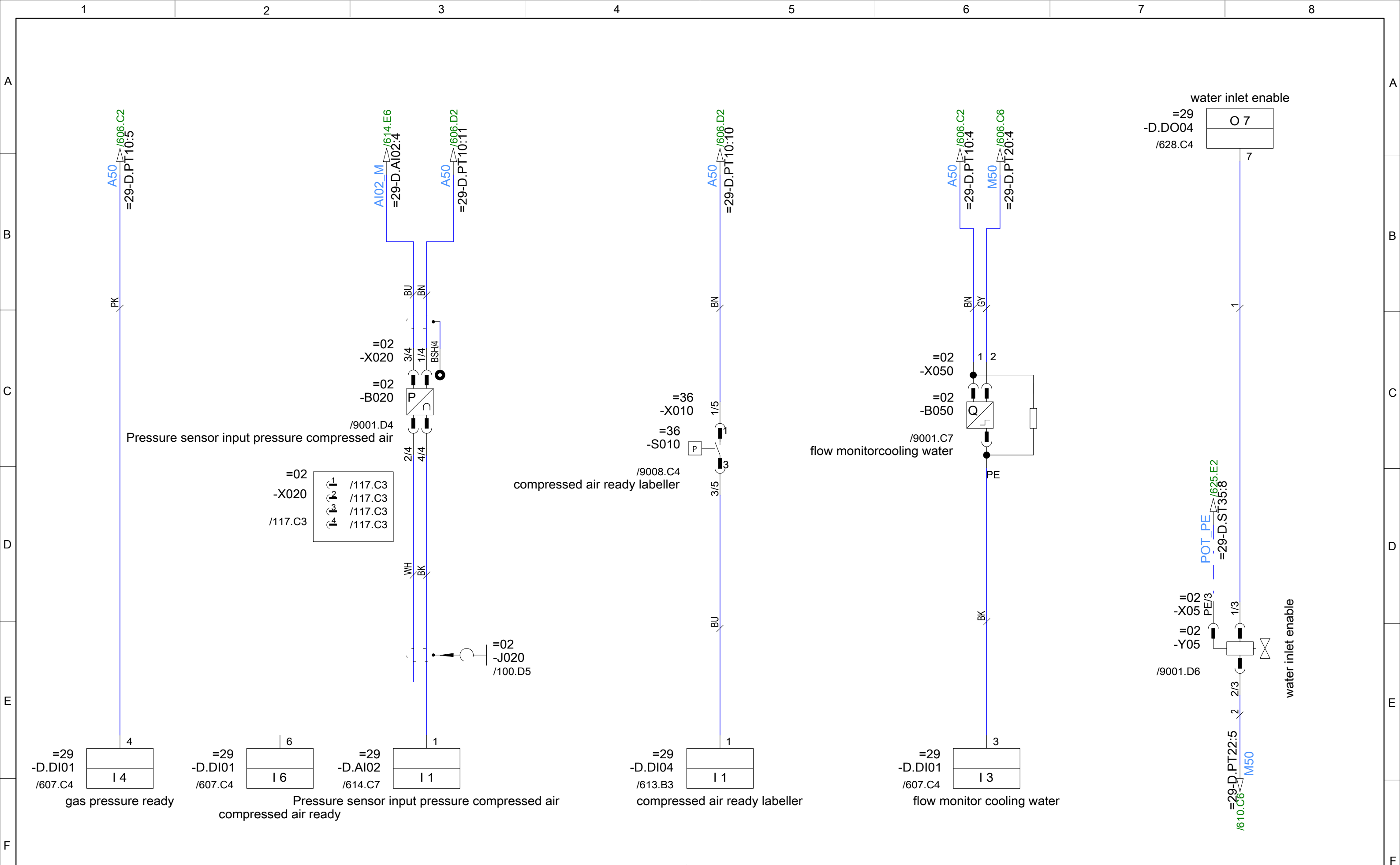


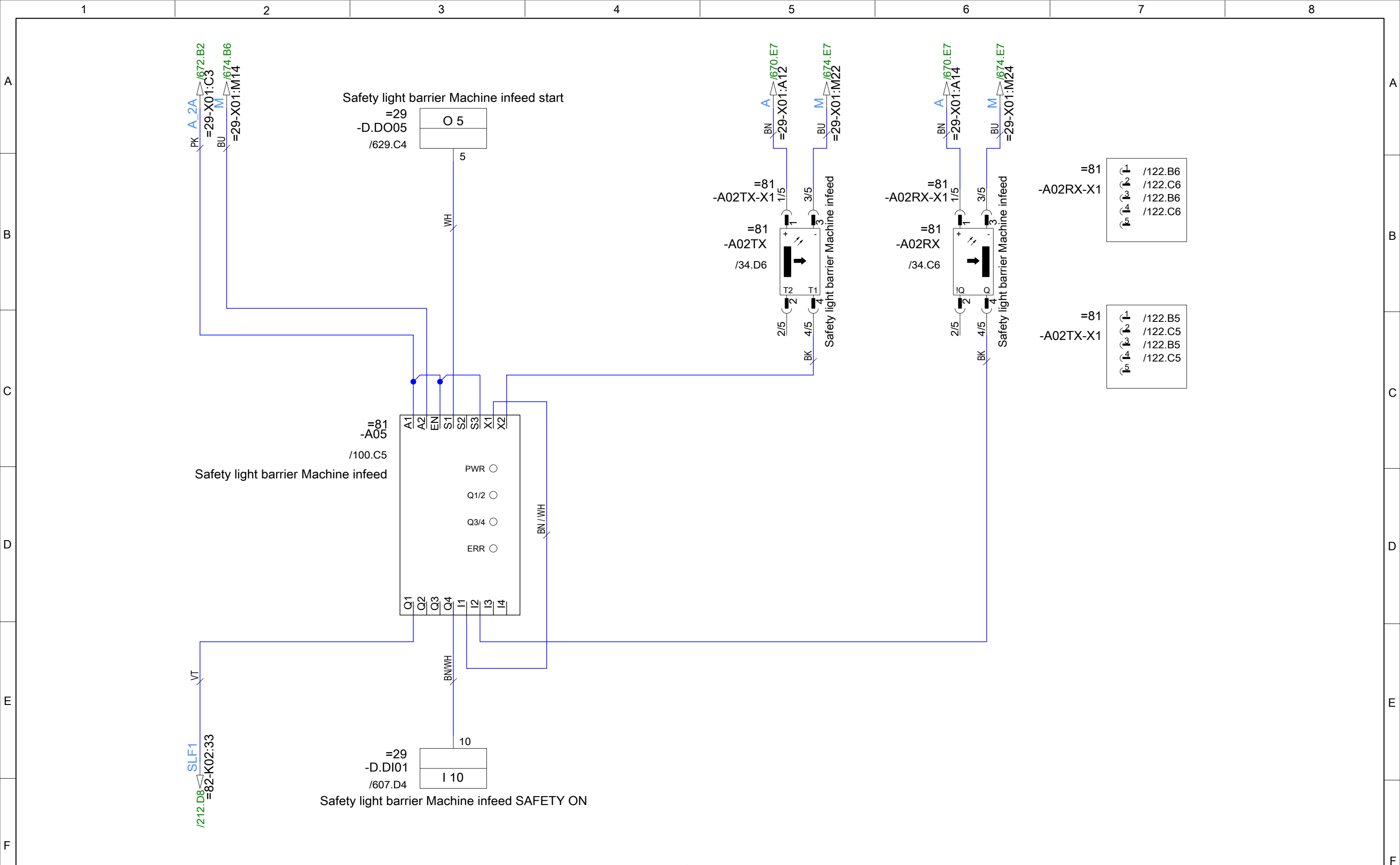


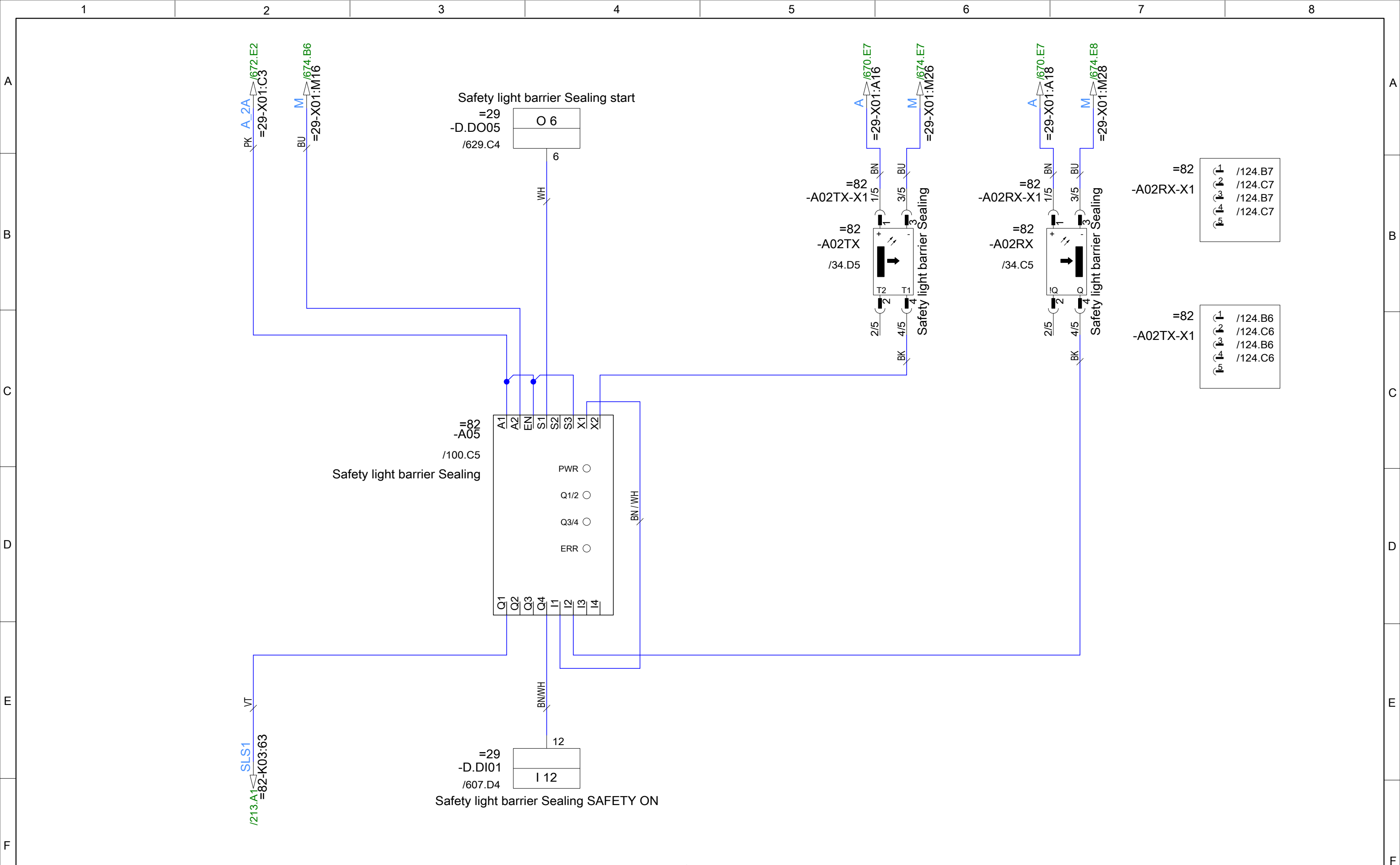
				date	15.07.2019		128835	EMERGENCY STOP		R145 278972		sheet 113	
				processor	E. Mohr								
				checked									
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		< 112	116 >

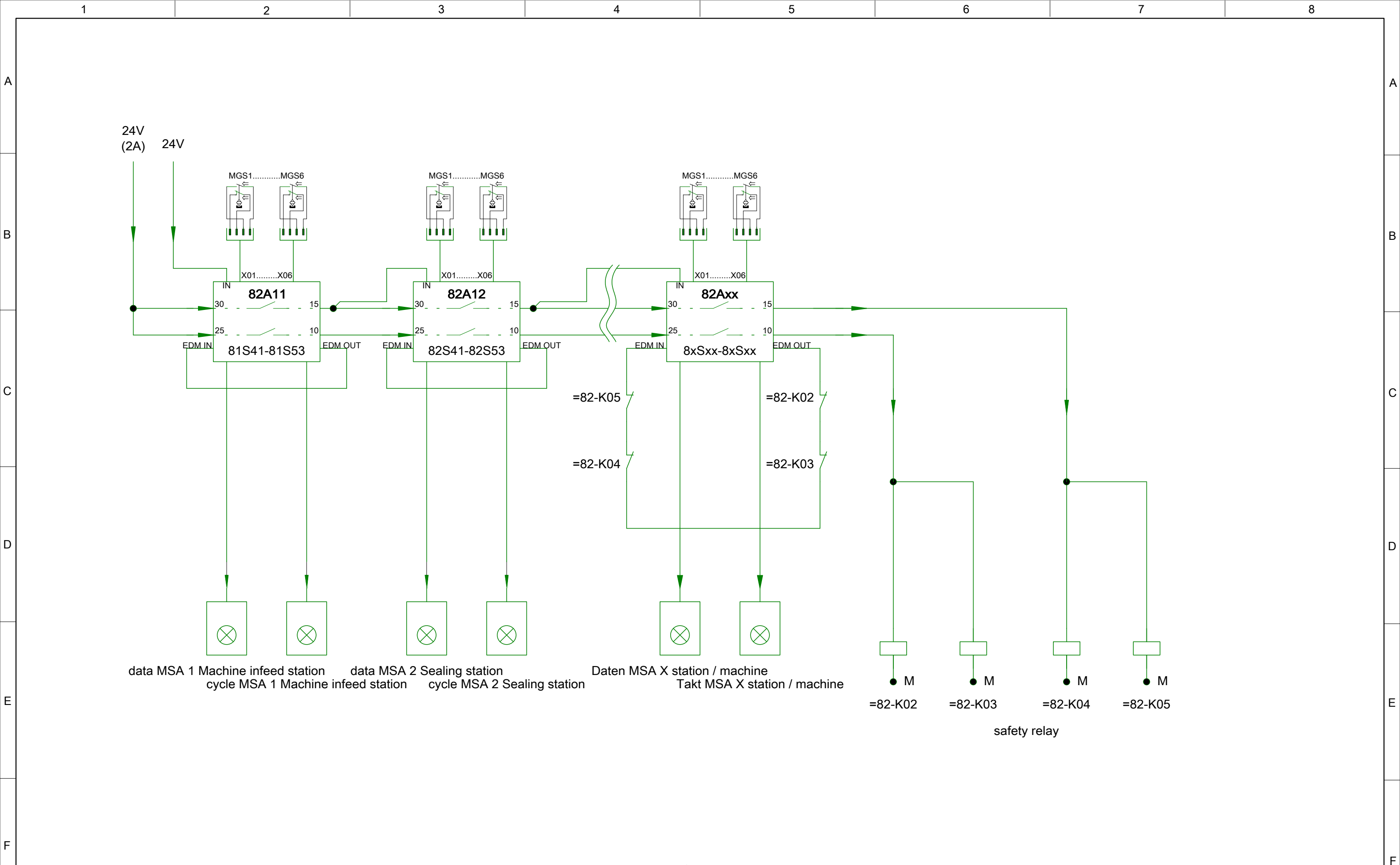


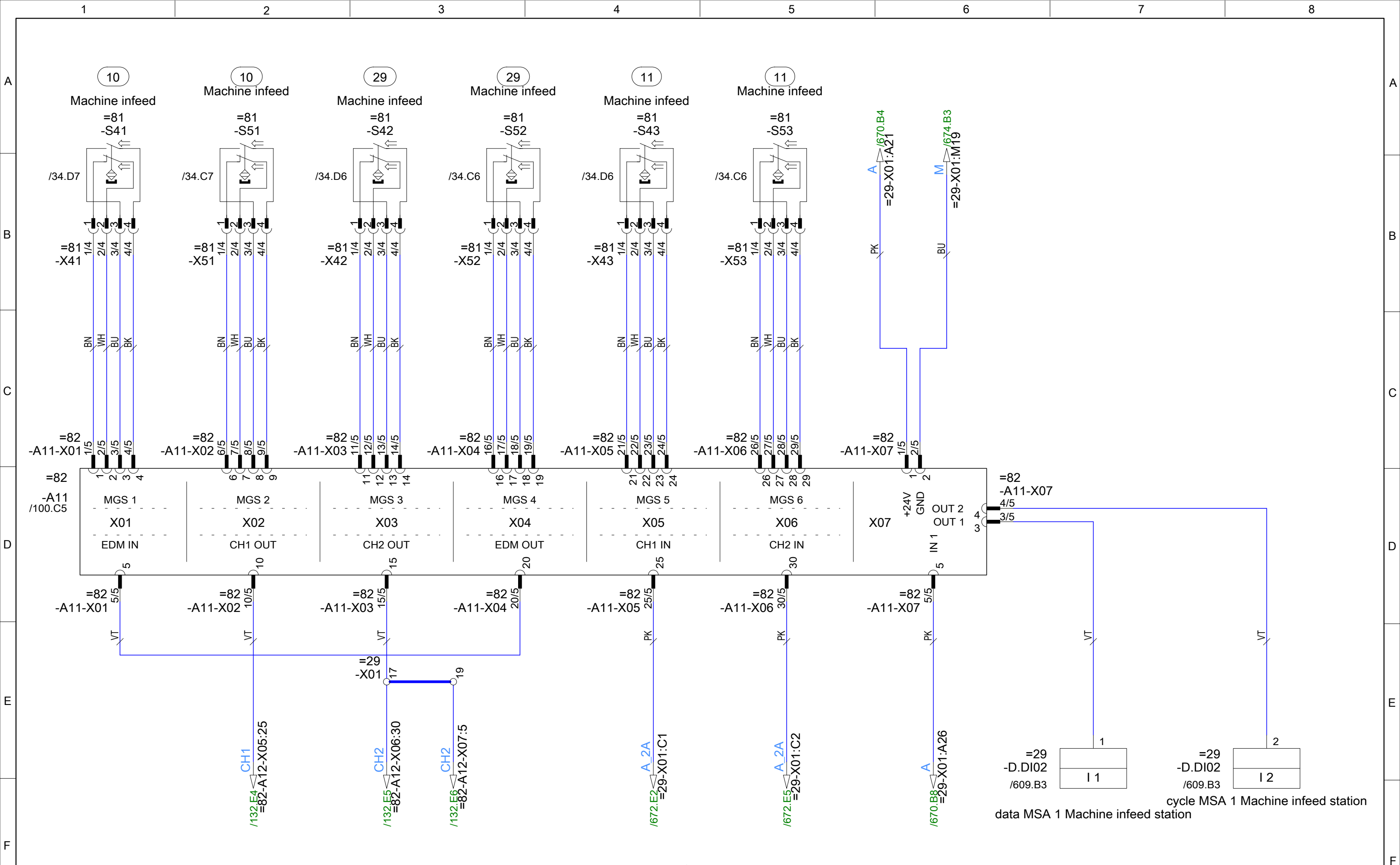
				date	15.07.2019		128835	start-up conditions		R145 278972		sheet 116	
				processor	E. Mohr								
				checked									
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		< 113	117 >

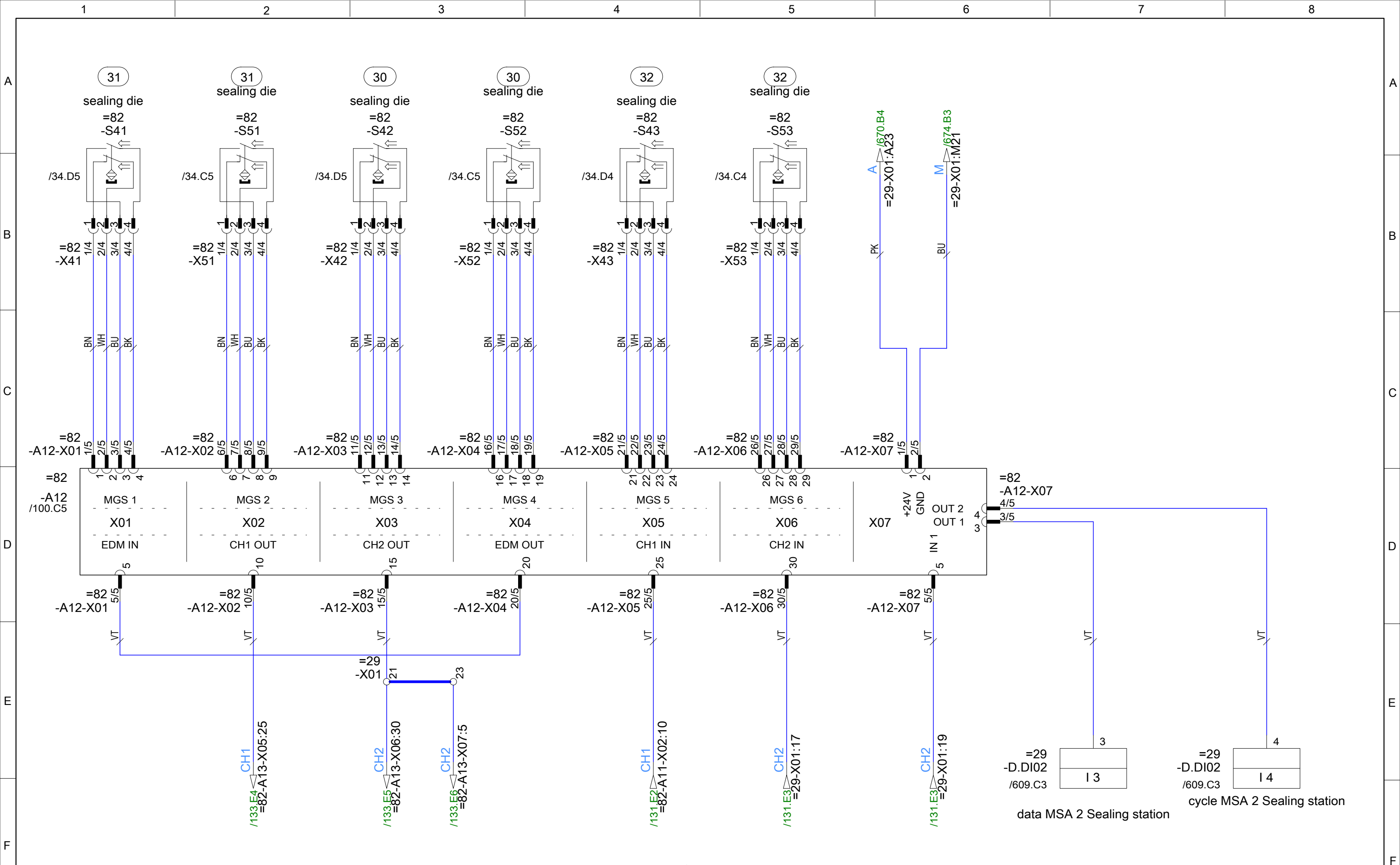


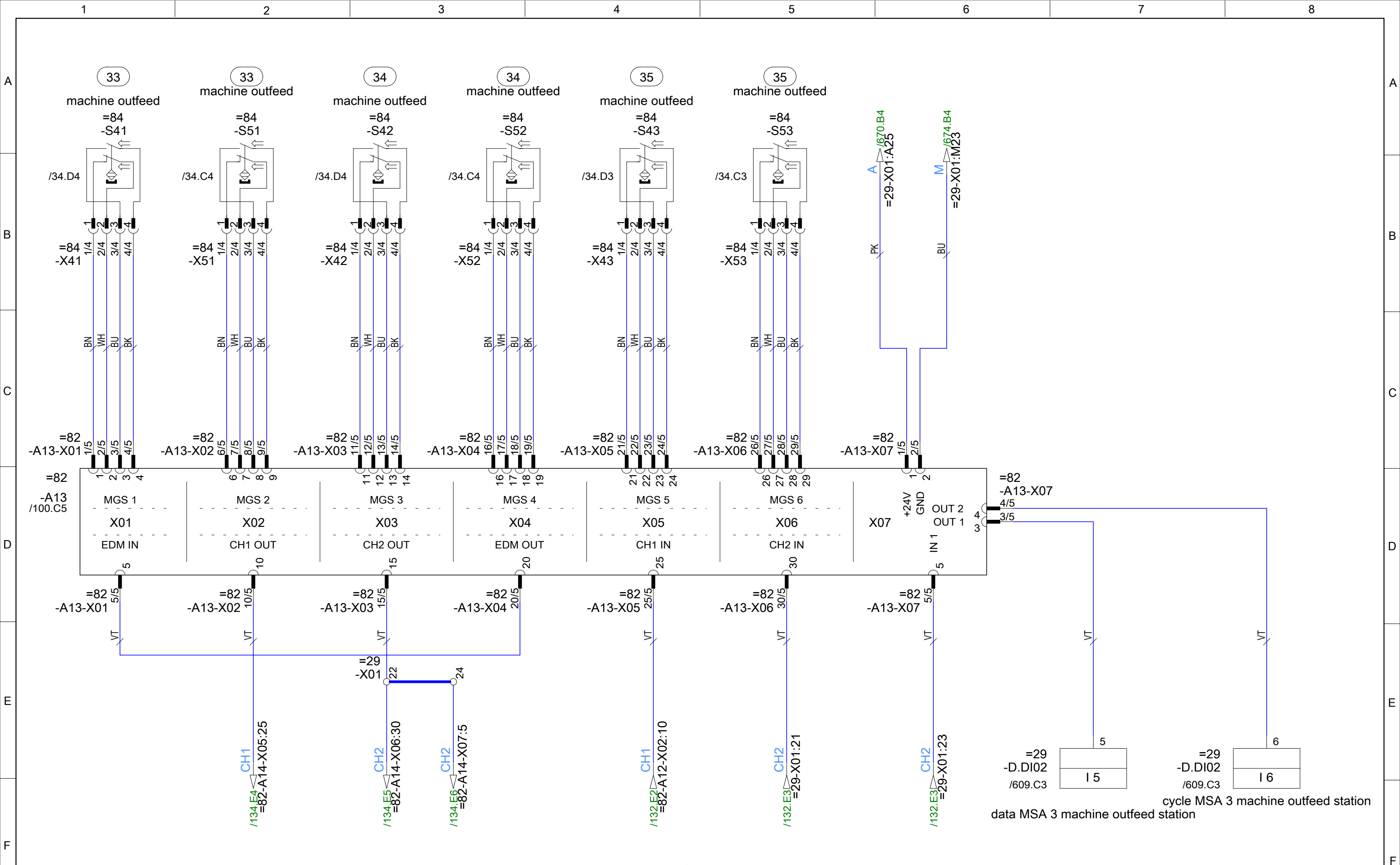





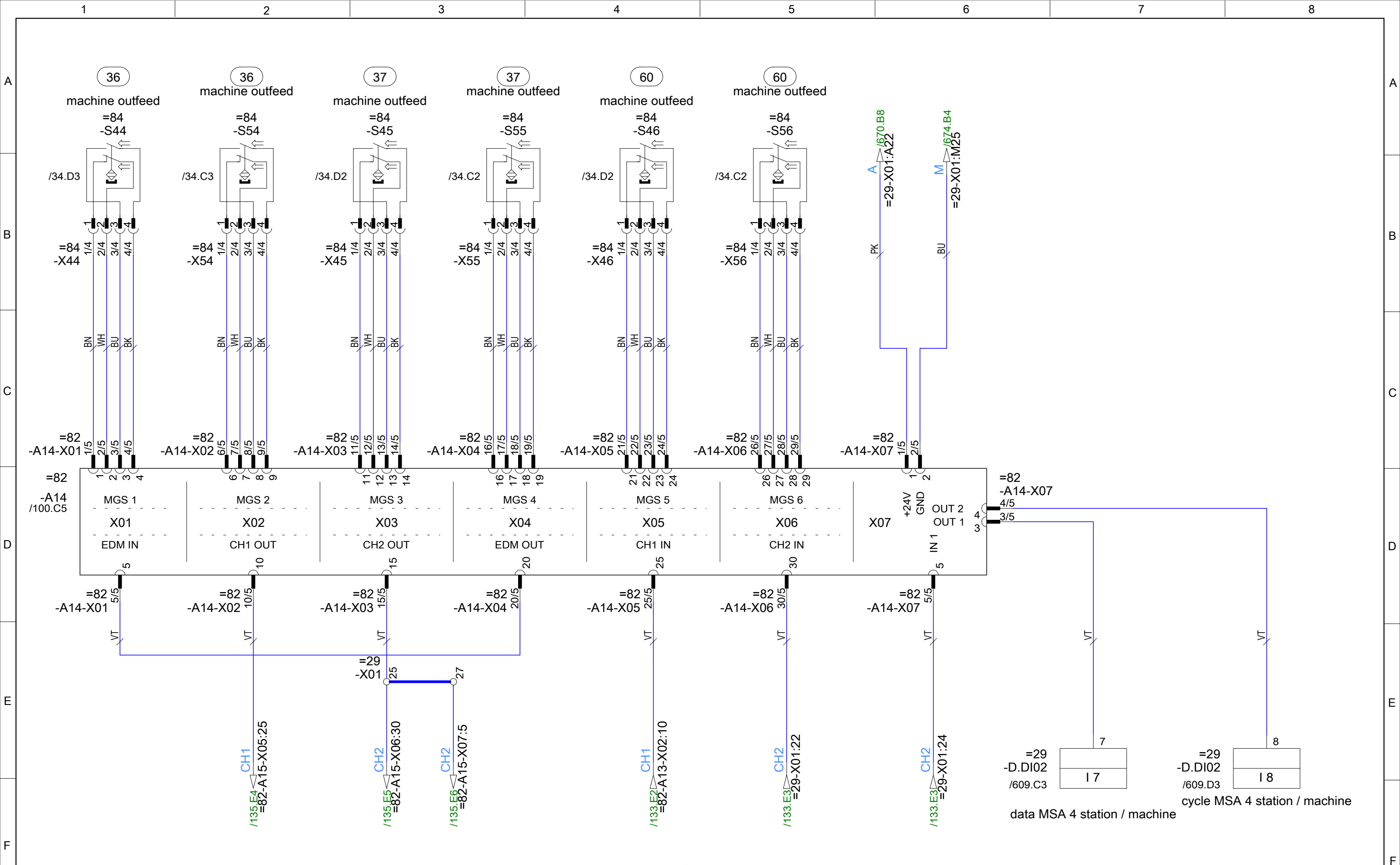


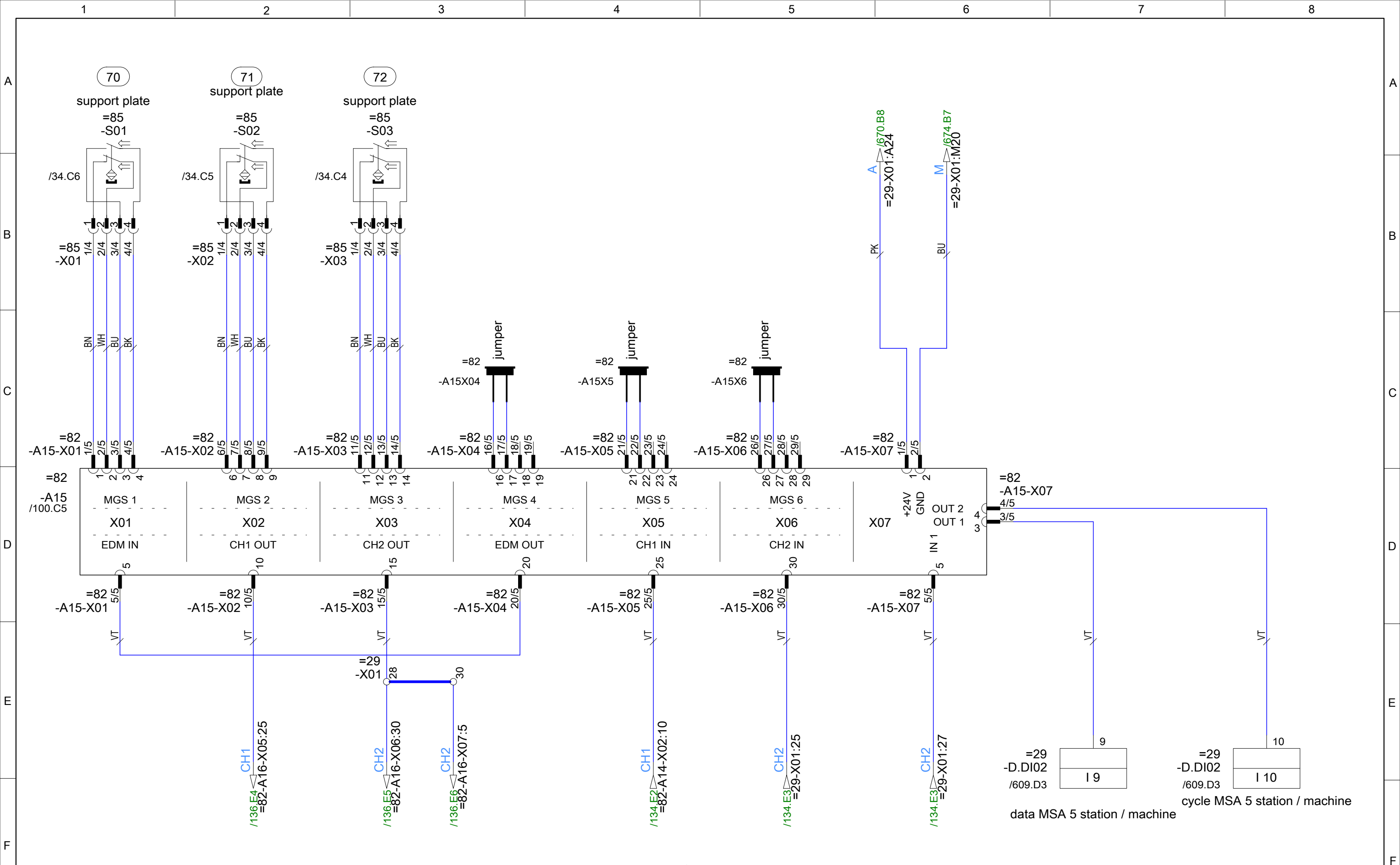


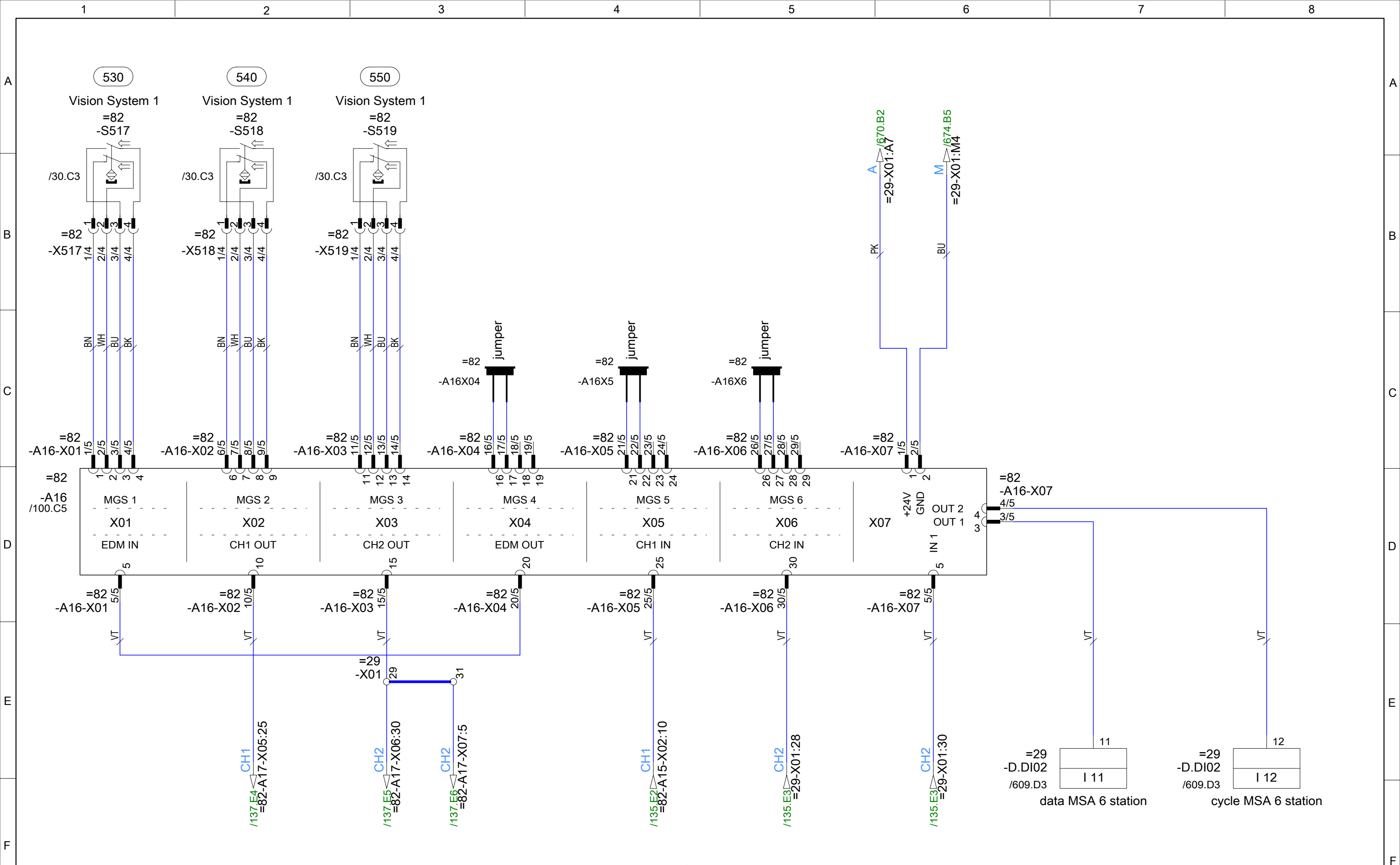


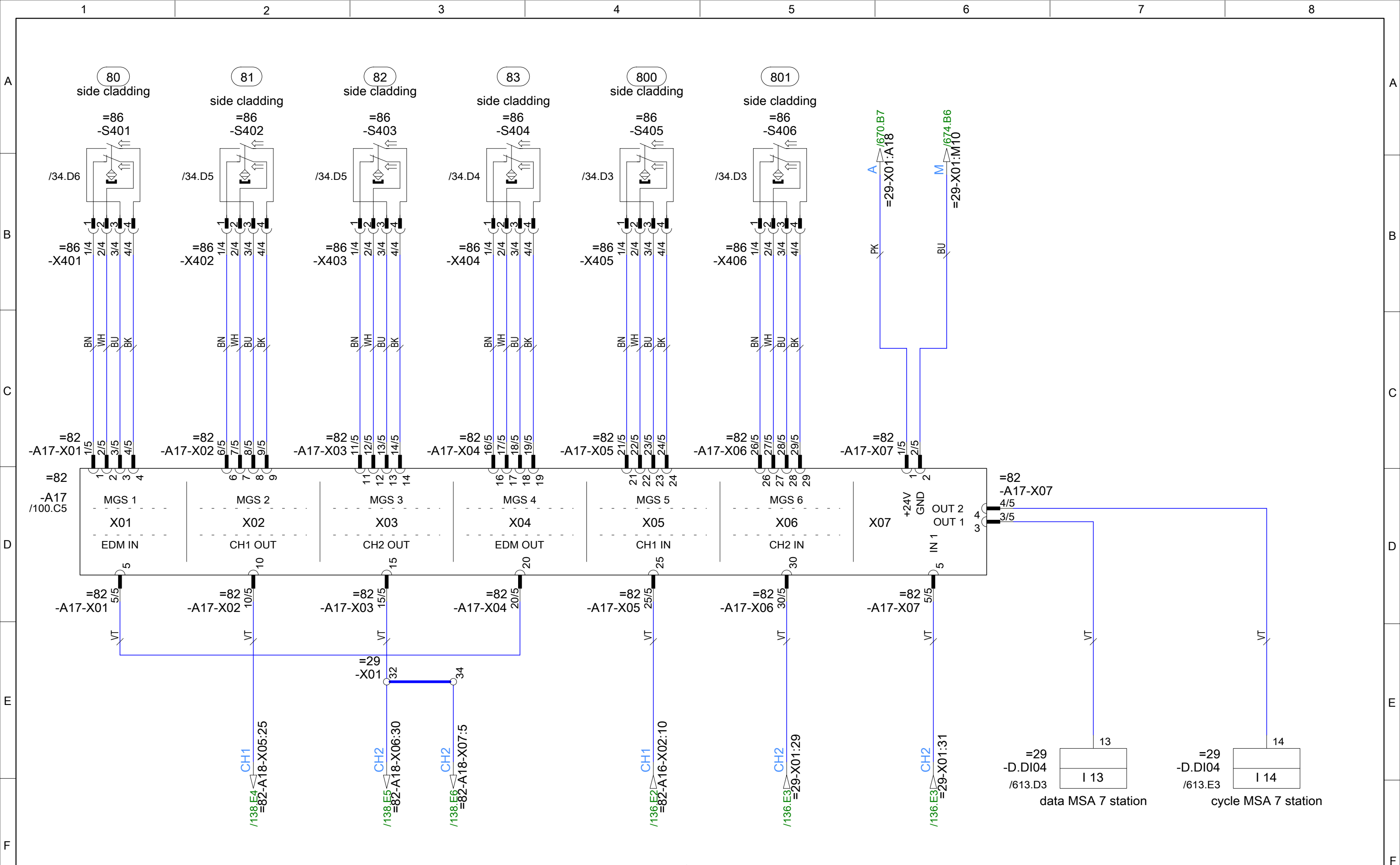


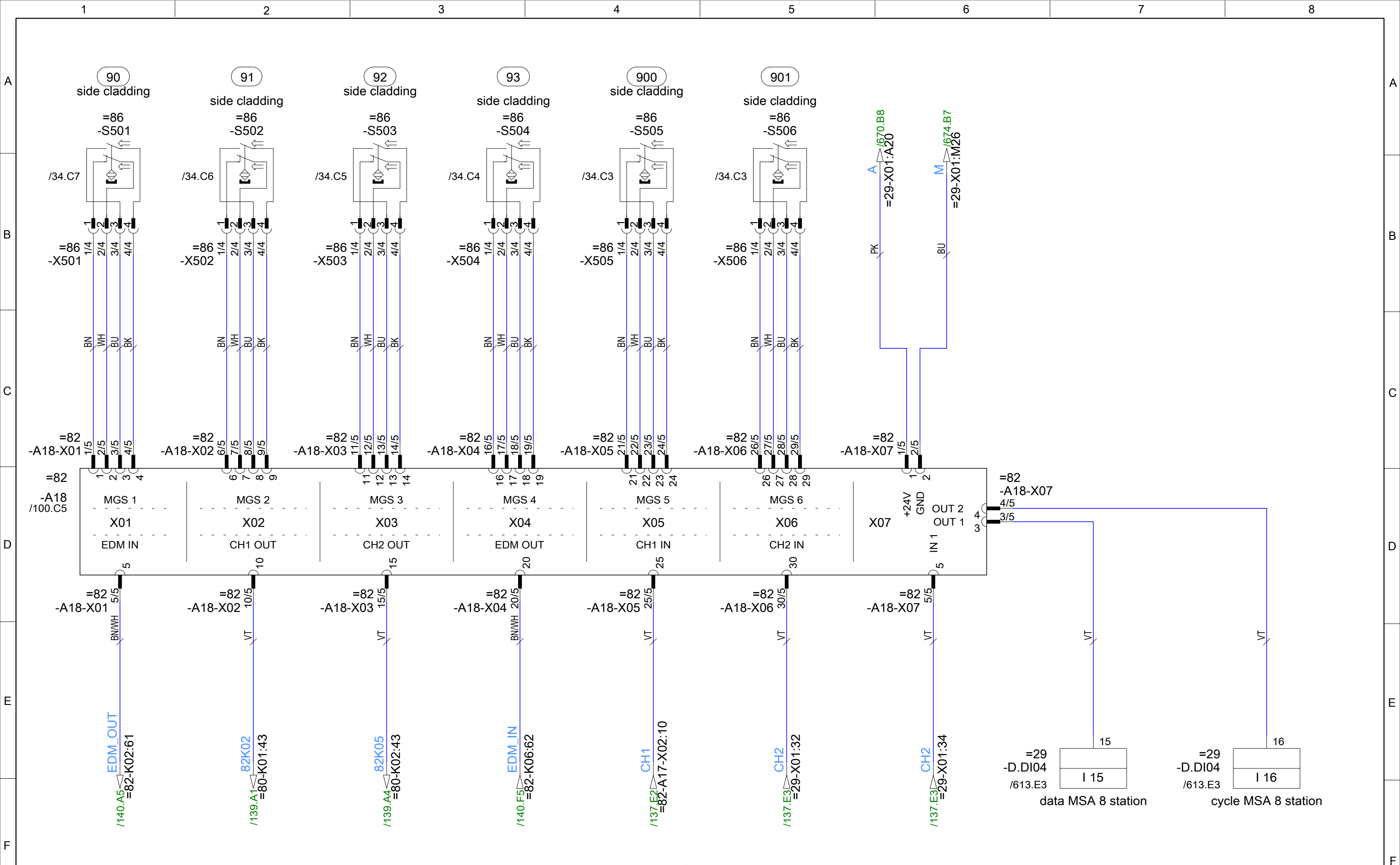
				date	15.07.2019		128835	safety circuit machine outfeed station					
				processor	E. Mohr								
				checked									
status	change	date	name	standard	Origin:	17000857614	version:	0	replaced by:	R145	278972	sheet 133	
											< 132		134 >

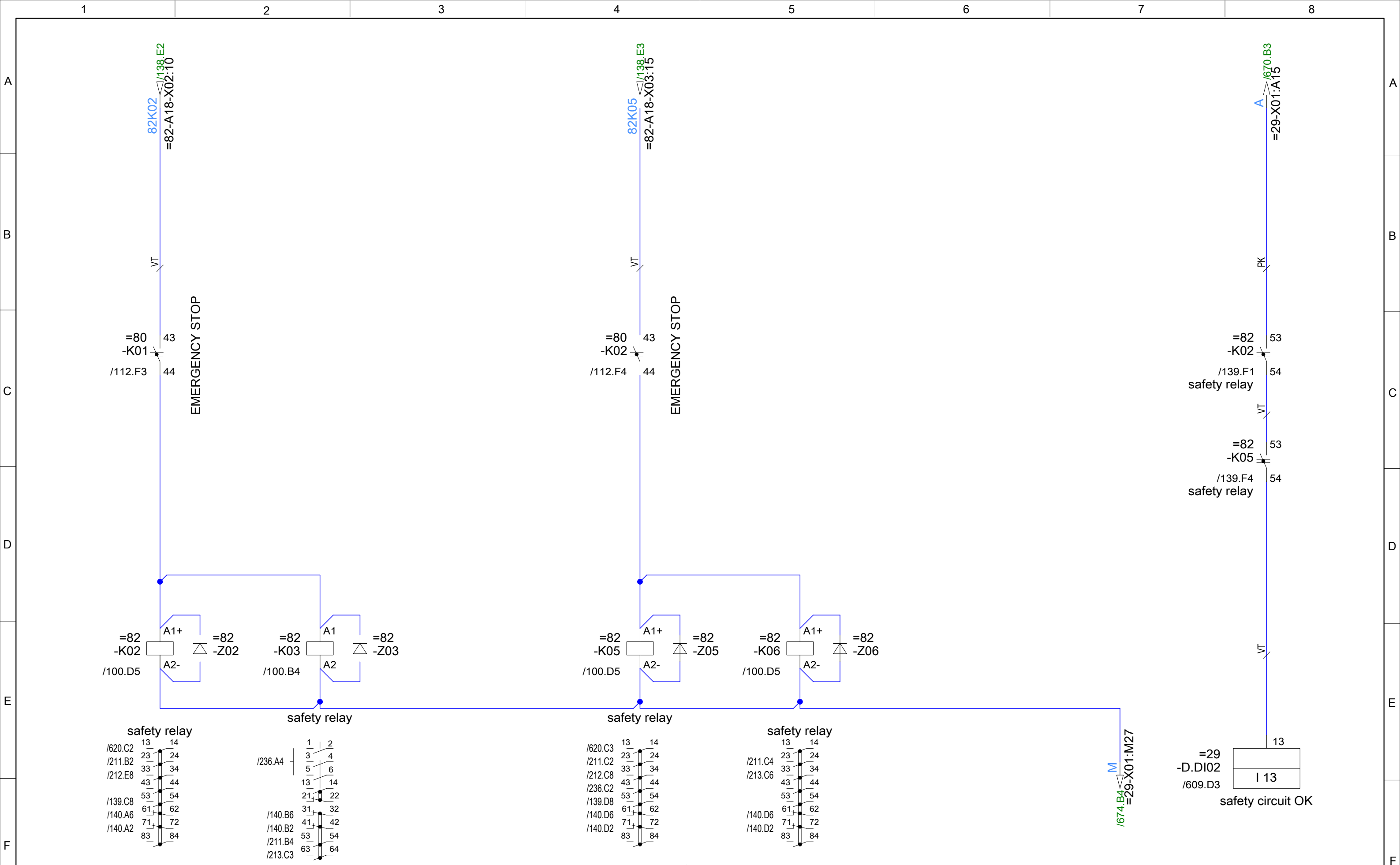


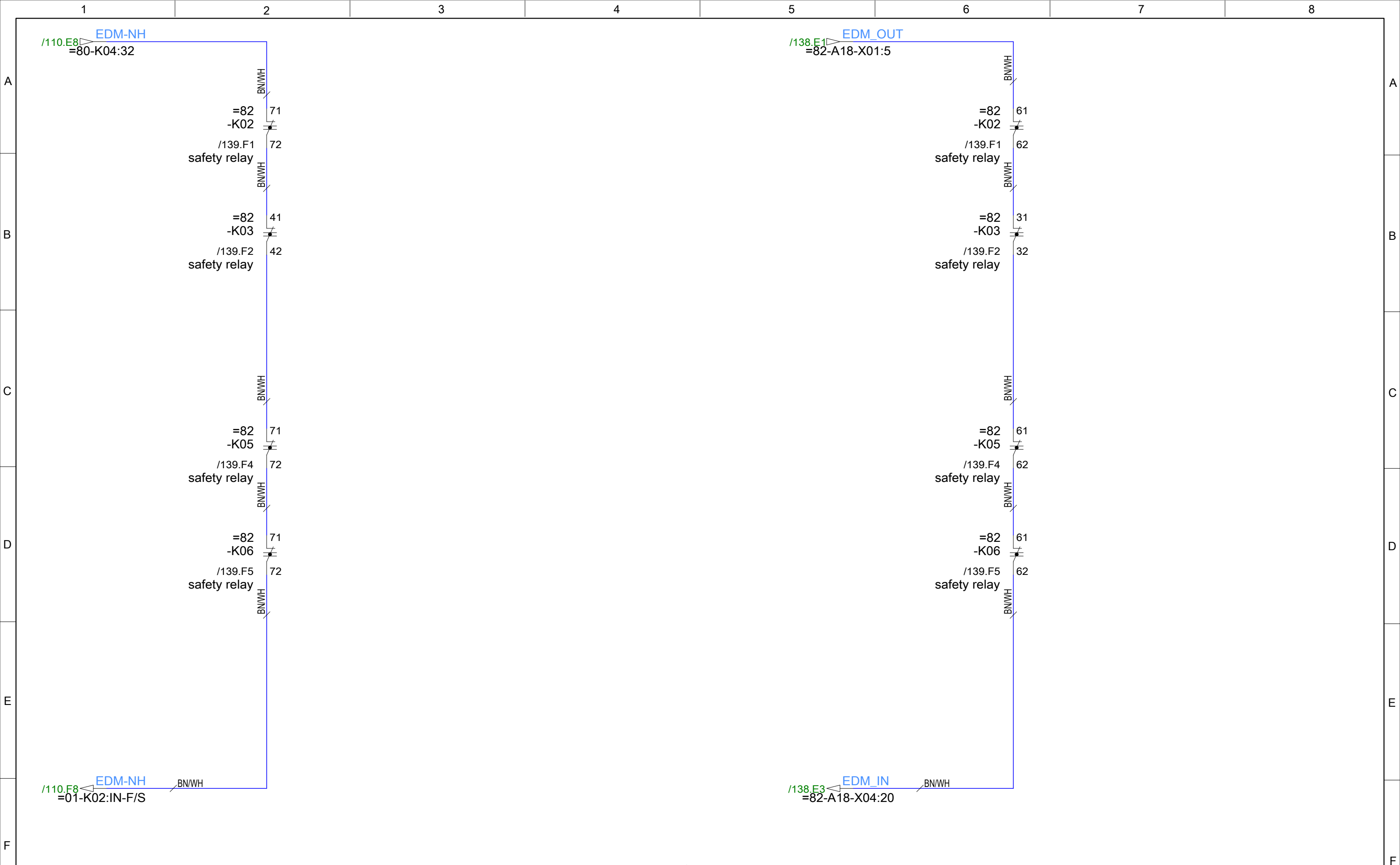





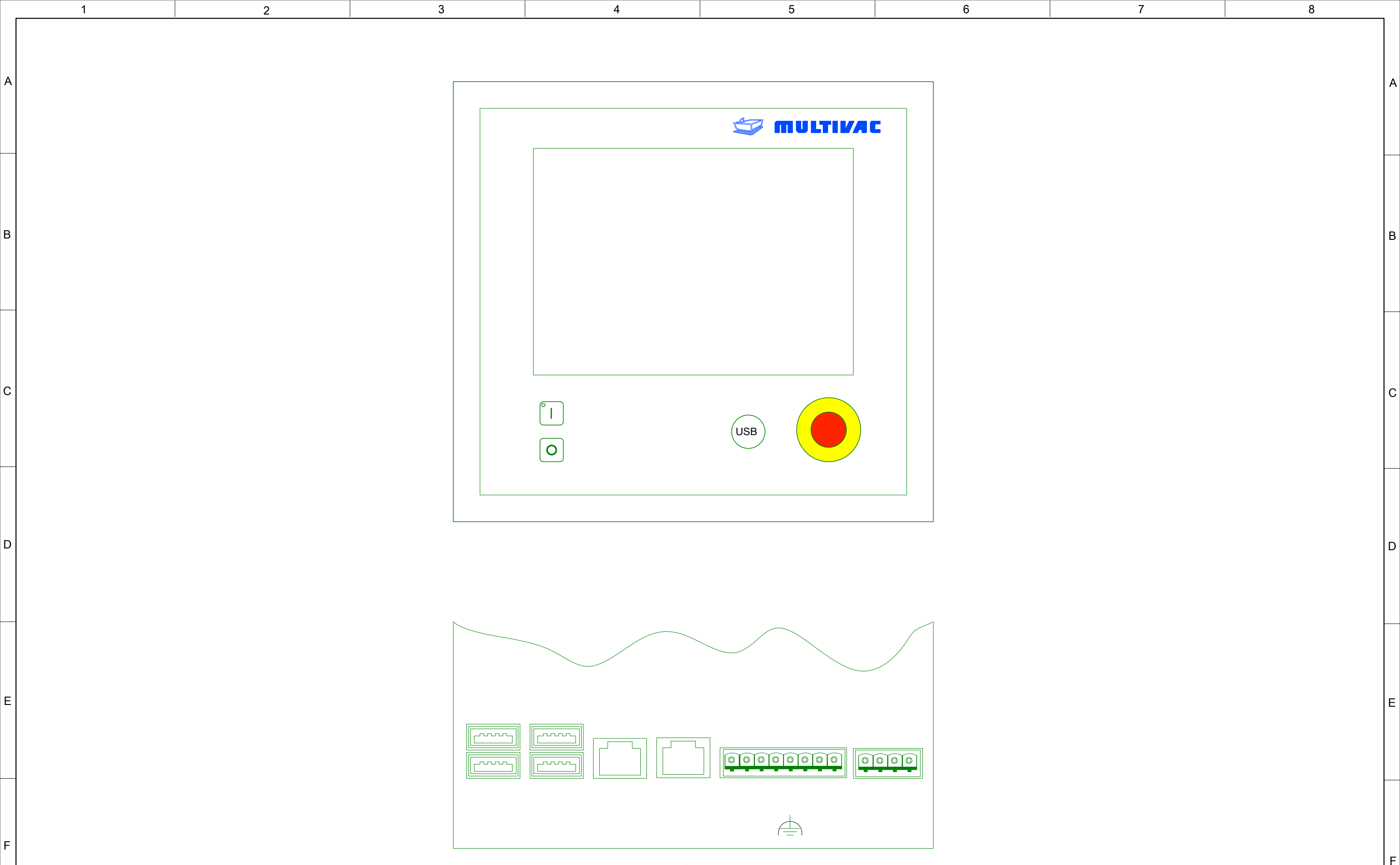





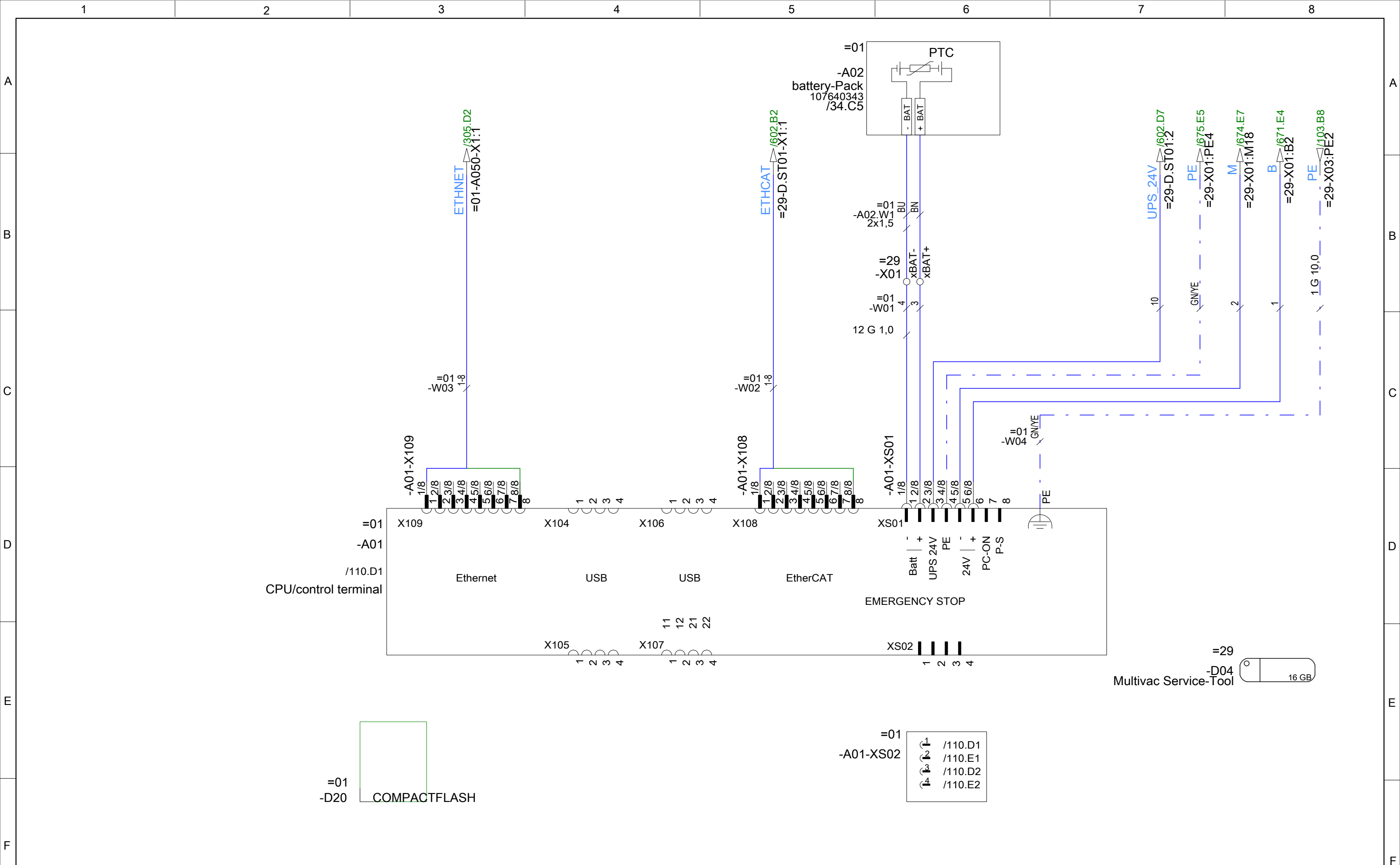


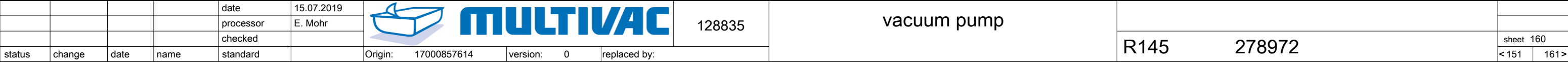


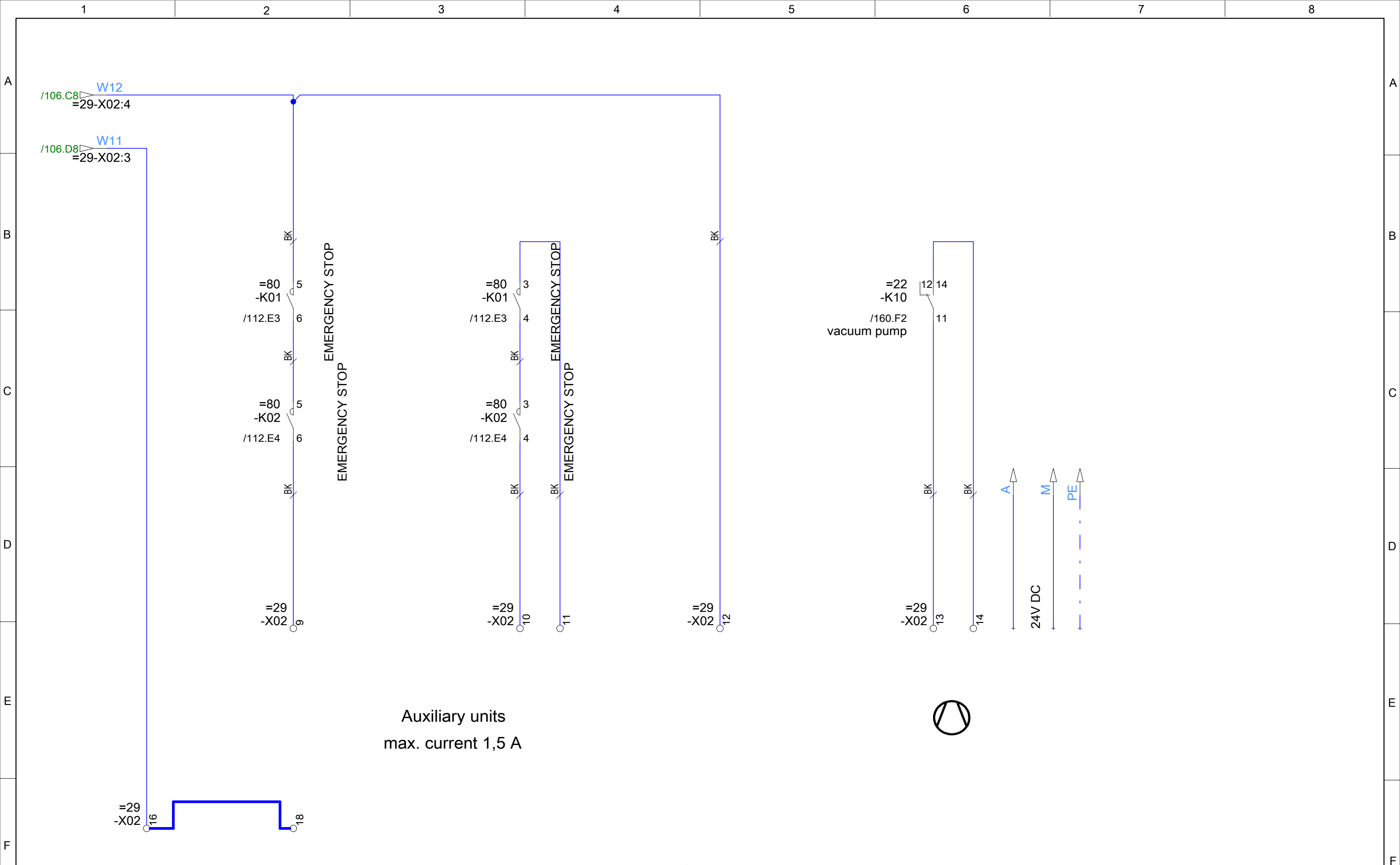
				date	15.07.2019			128835	safety circuit EDM		R145		278972		sheet 140	
				processor	E. Mohr											
				checked												
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:					< 139	150 >




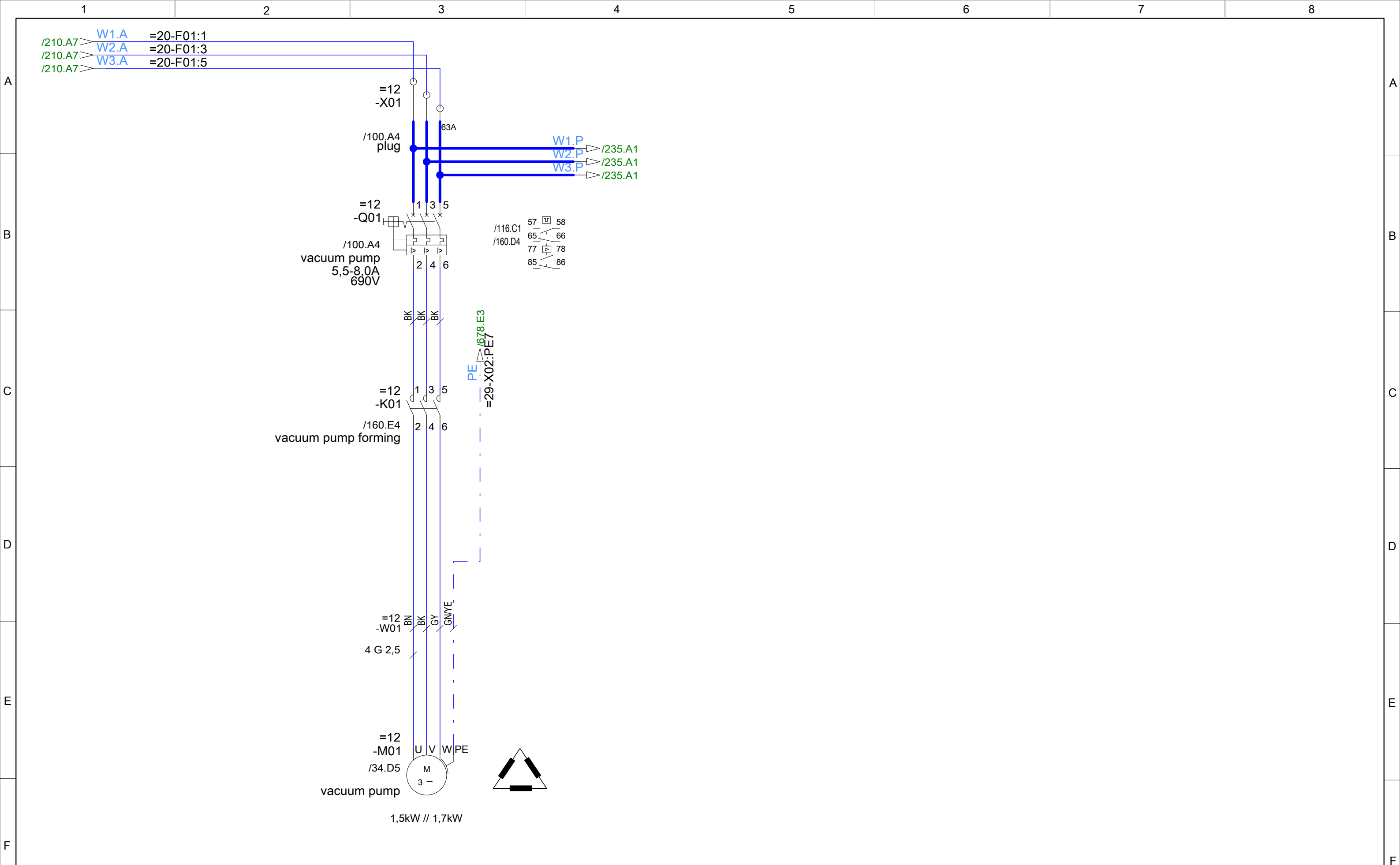
				date	15.07.2019		128835	control terminal			
				processor	E. Mohr						
				checked							
status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:	R145	278972	sheet 150
									< 140	151 >	




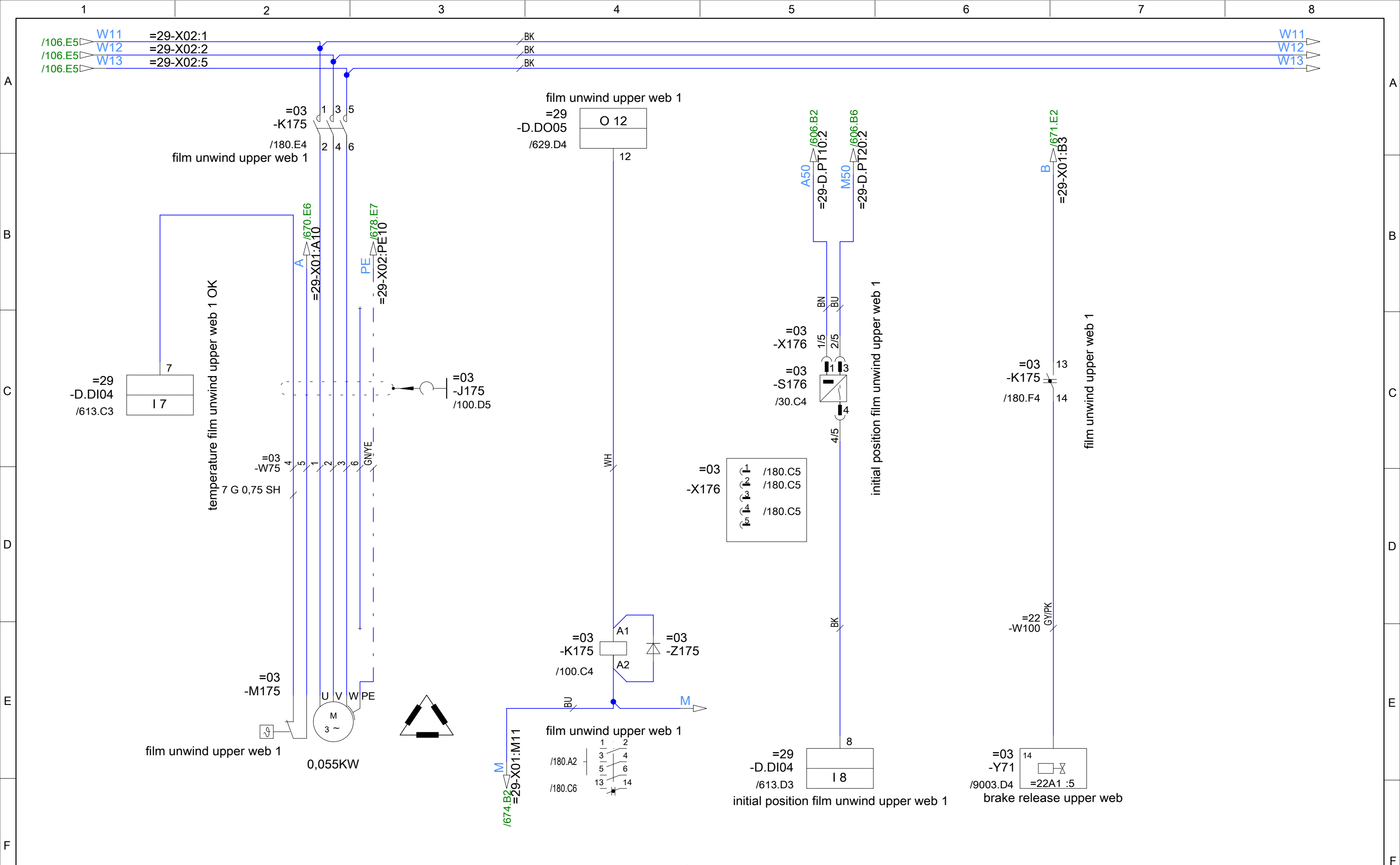


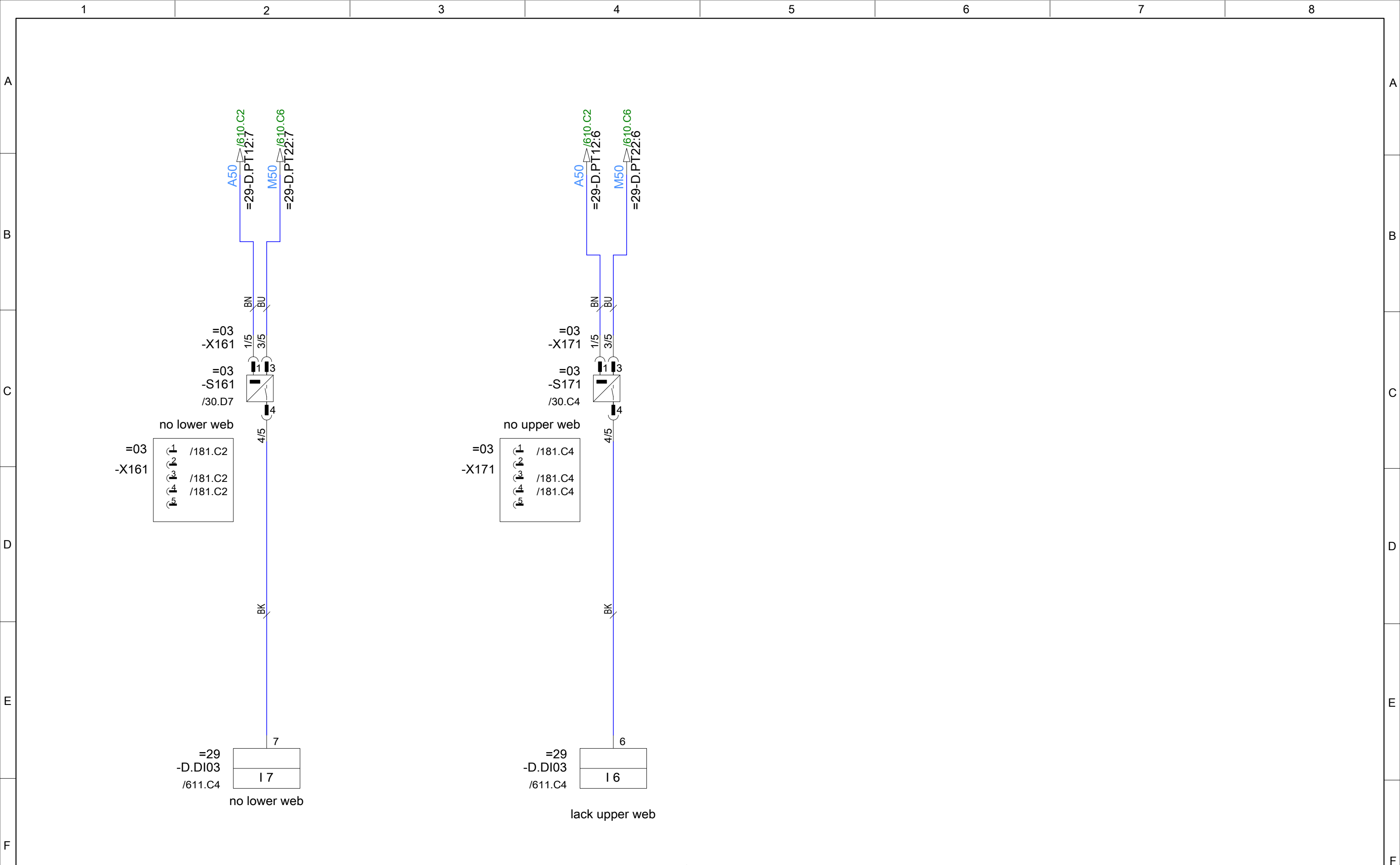


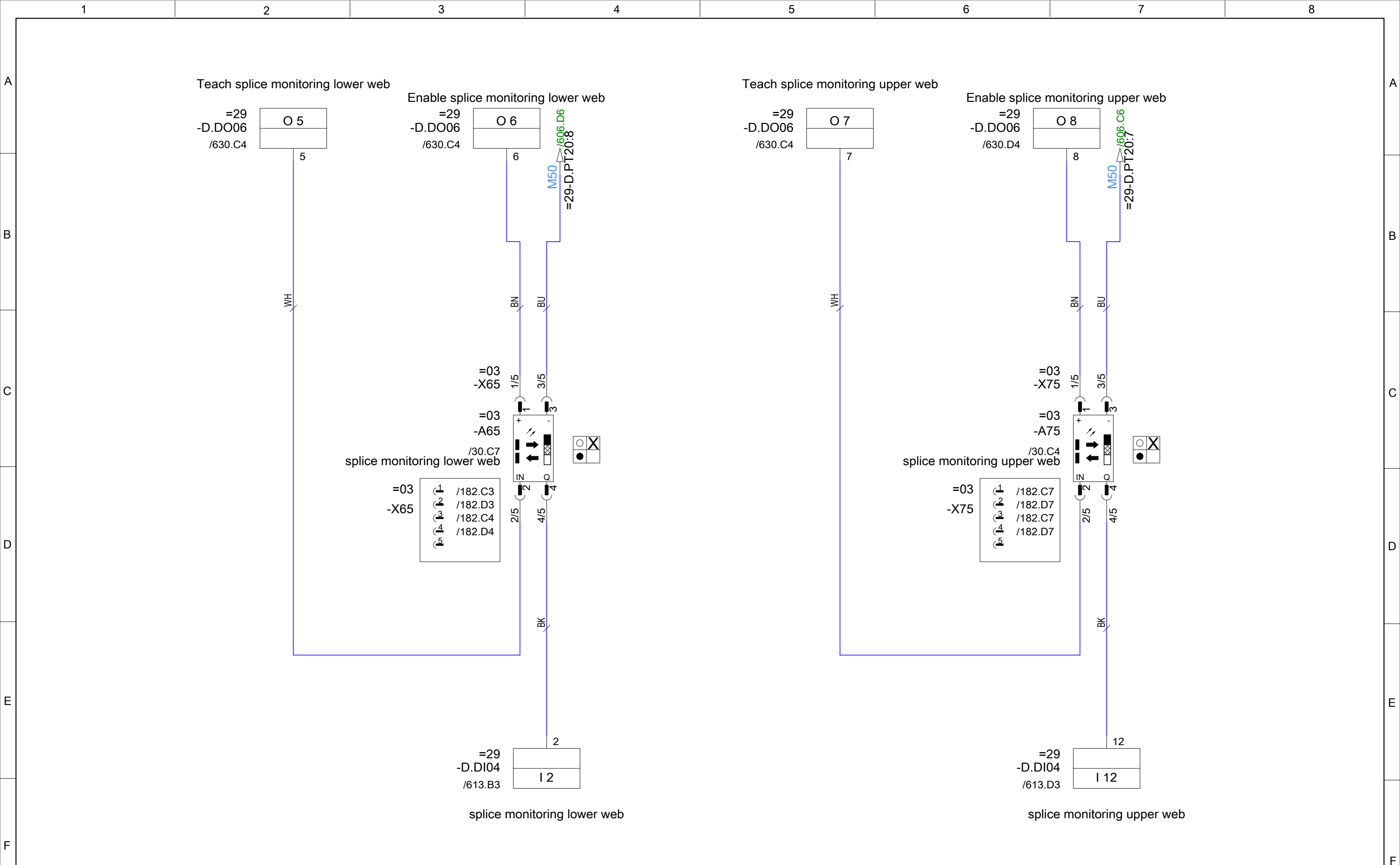
				date	15.07.2019		128835	vacuum pump									
				processor	E. Mohr												
				checked													
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 161			
												< 160	162 >				
1			2			3		4		5		6		7		8	

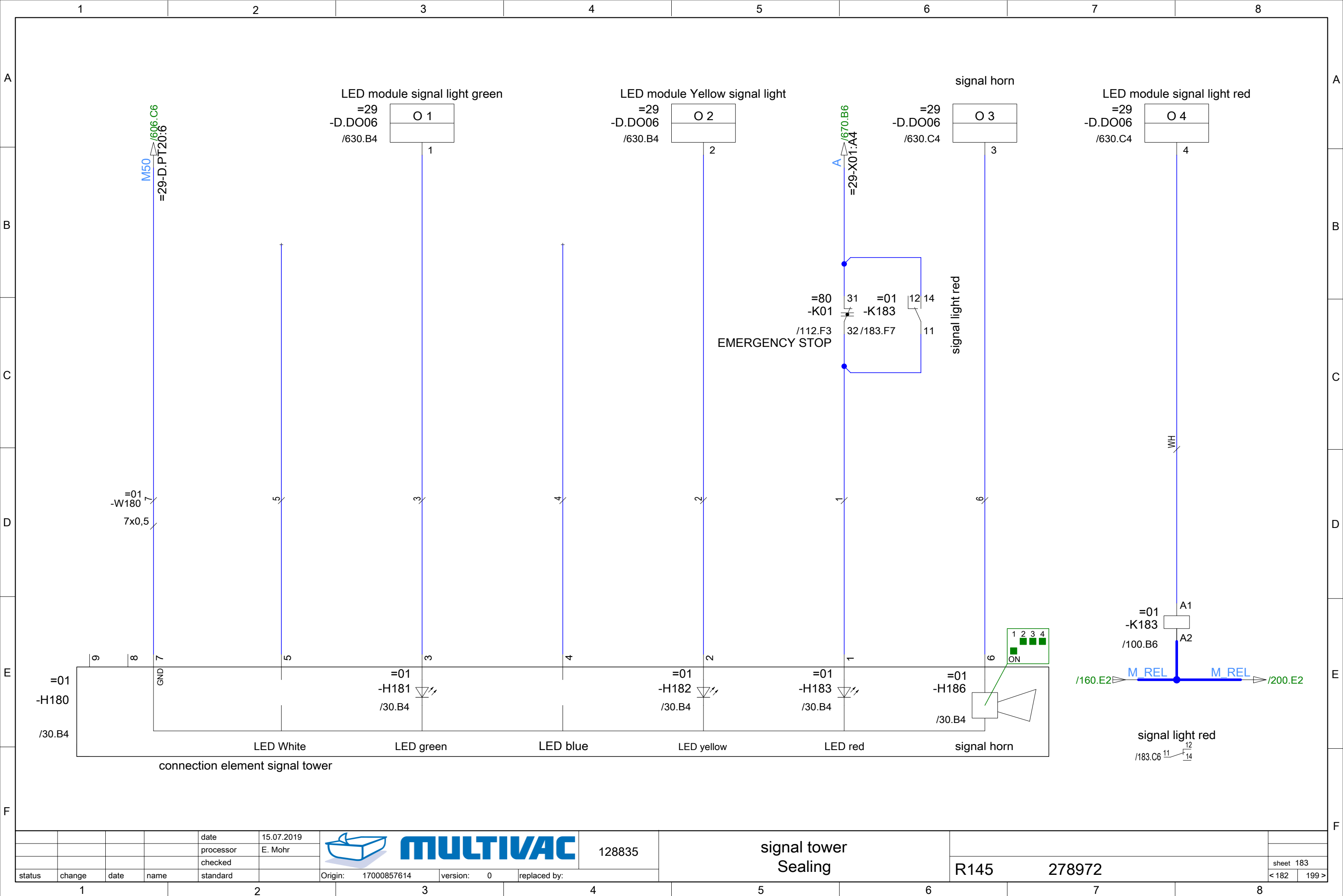


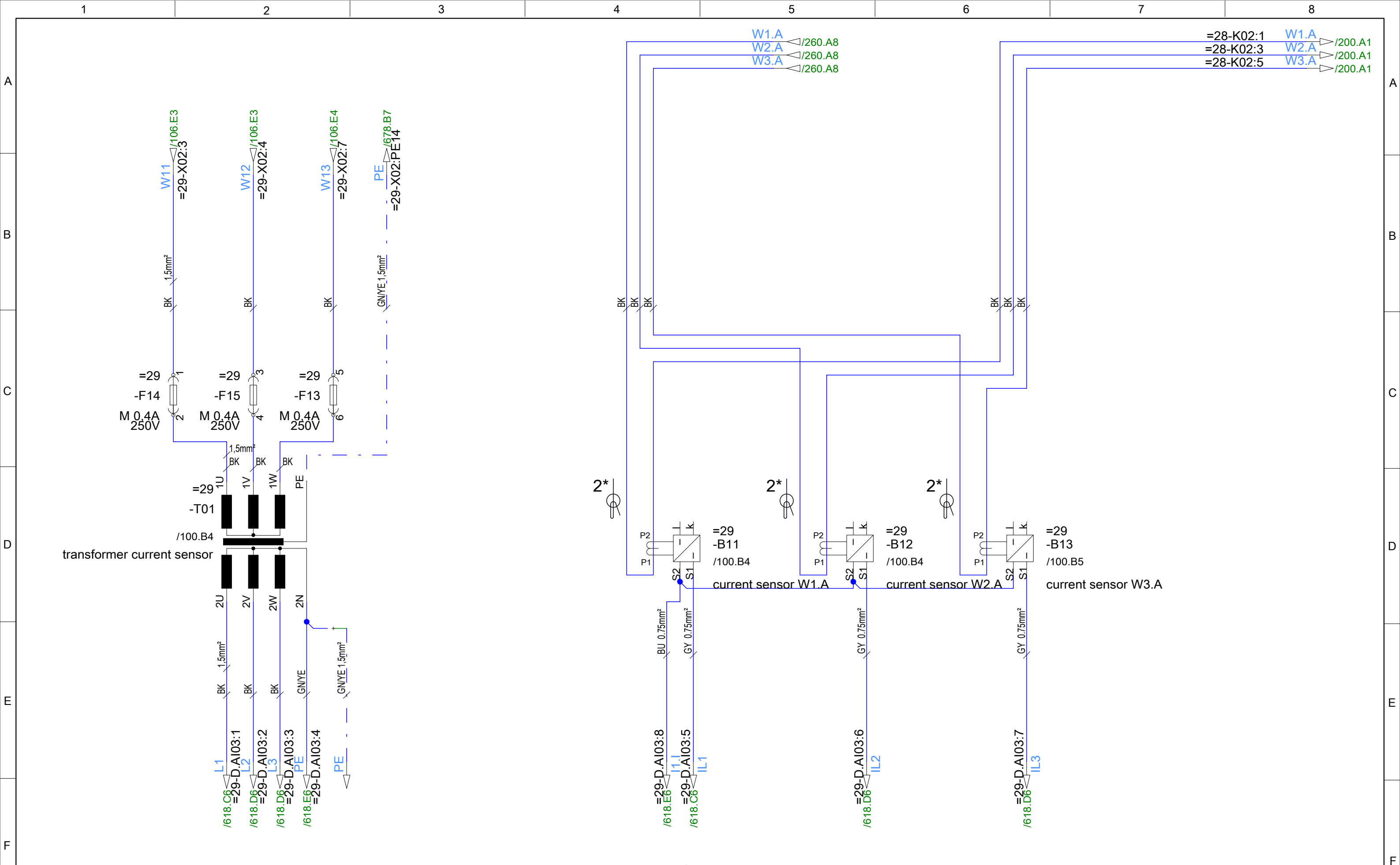
				date	15.07.2019	 MULTIVAC			128835	vacuum pump				
				processor	E. Mohr									
				checked										
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 162
												< 161	180 >	




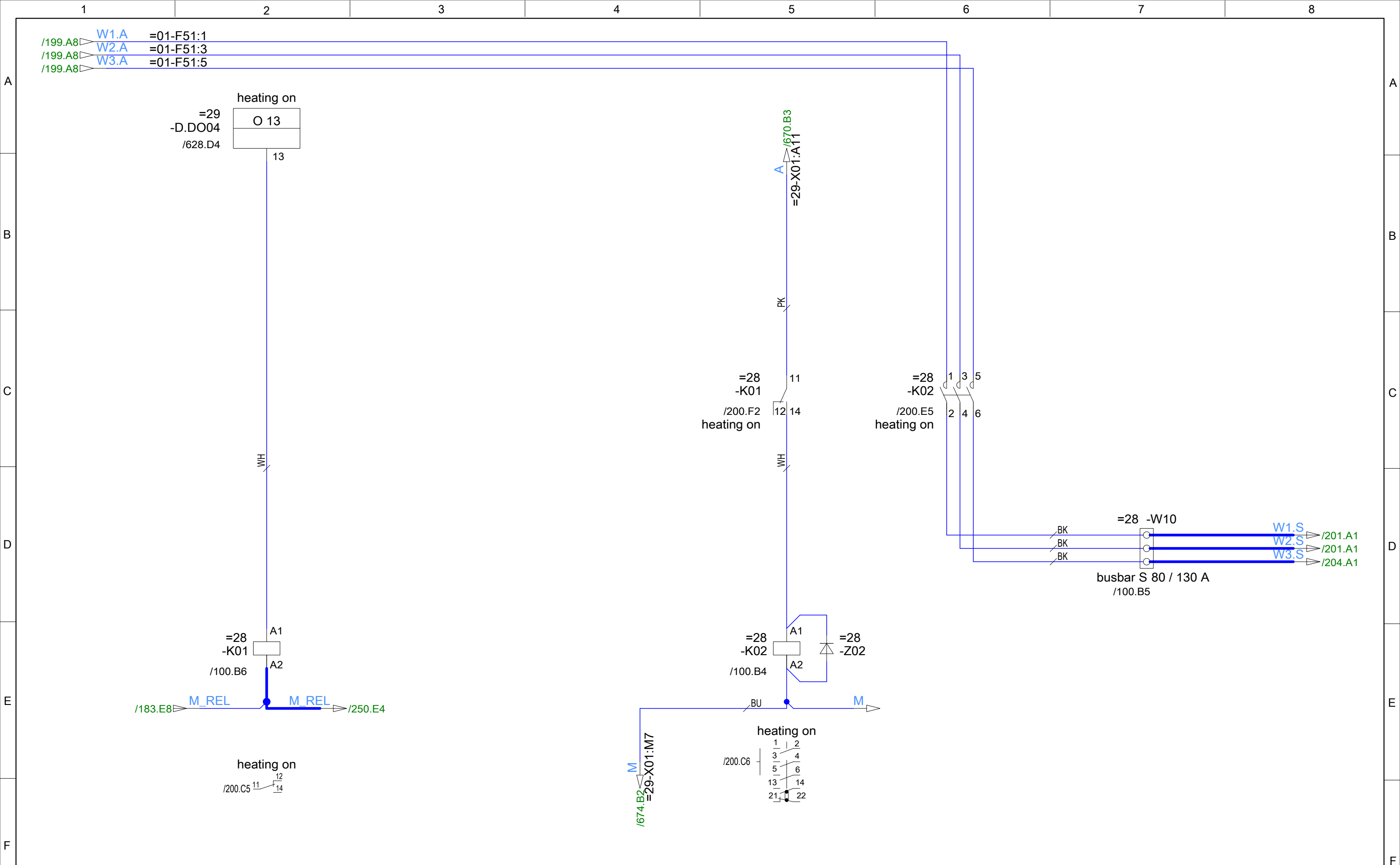





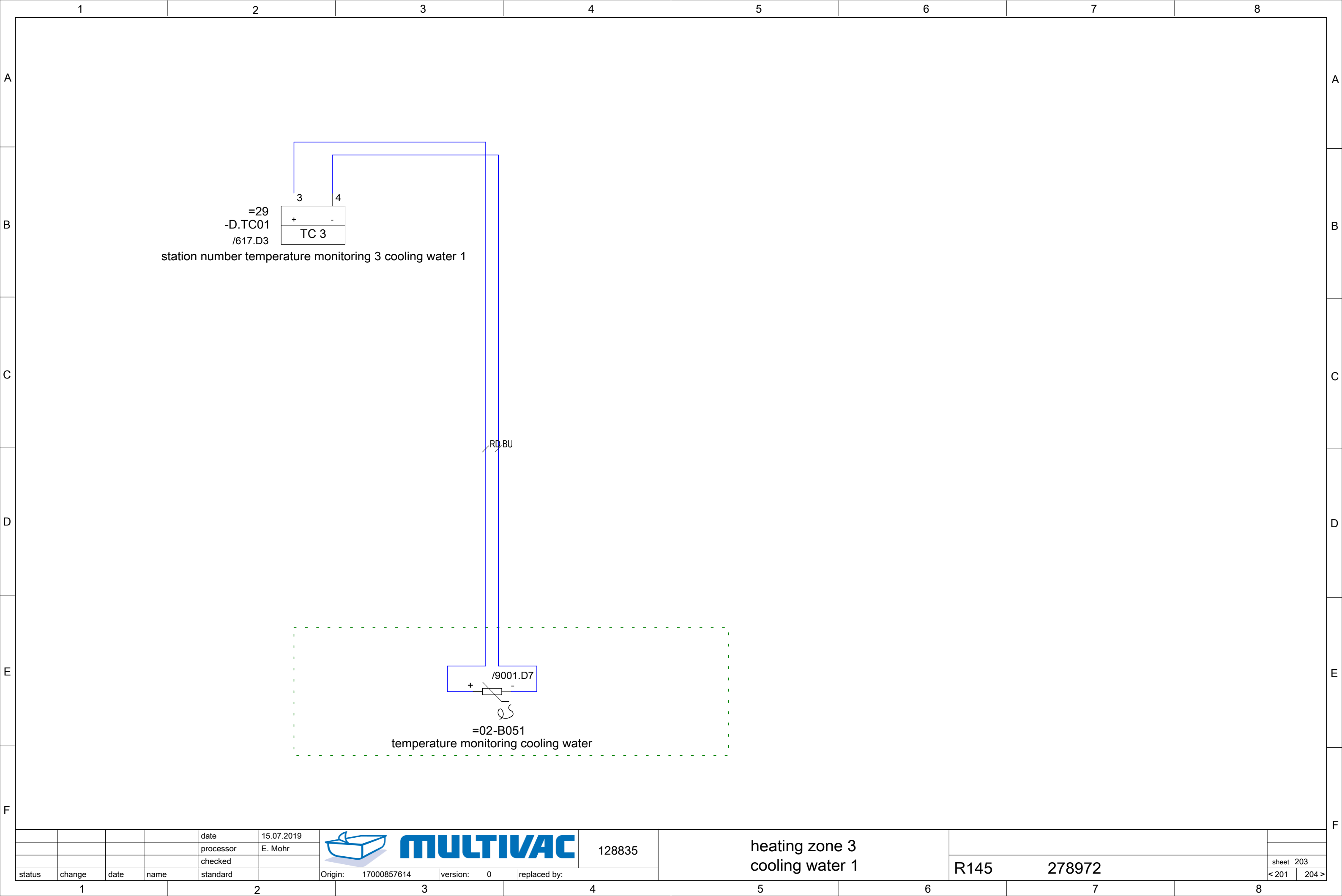


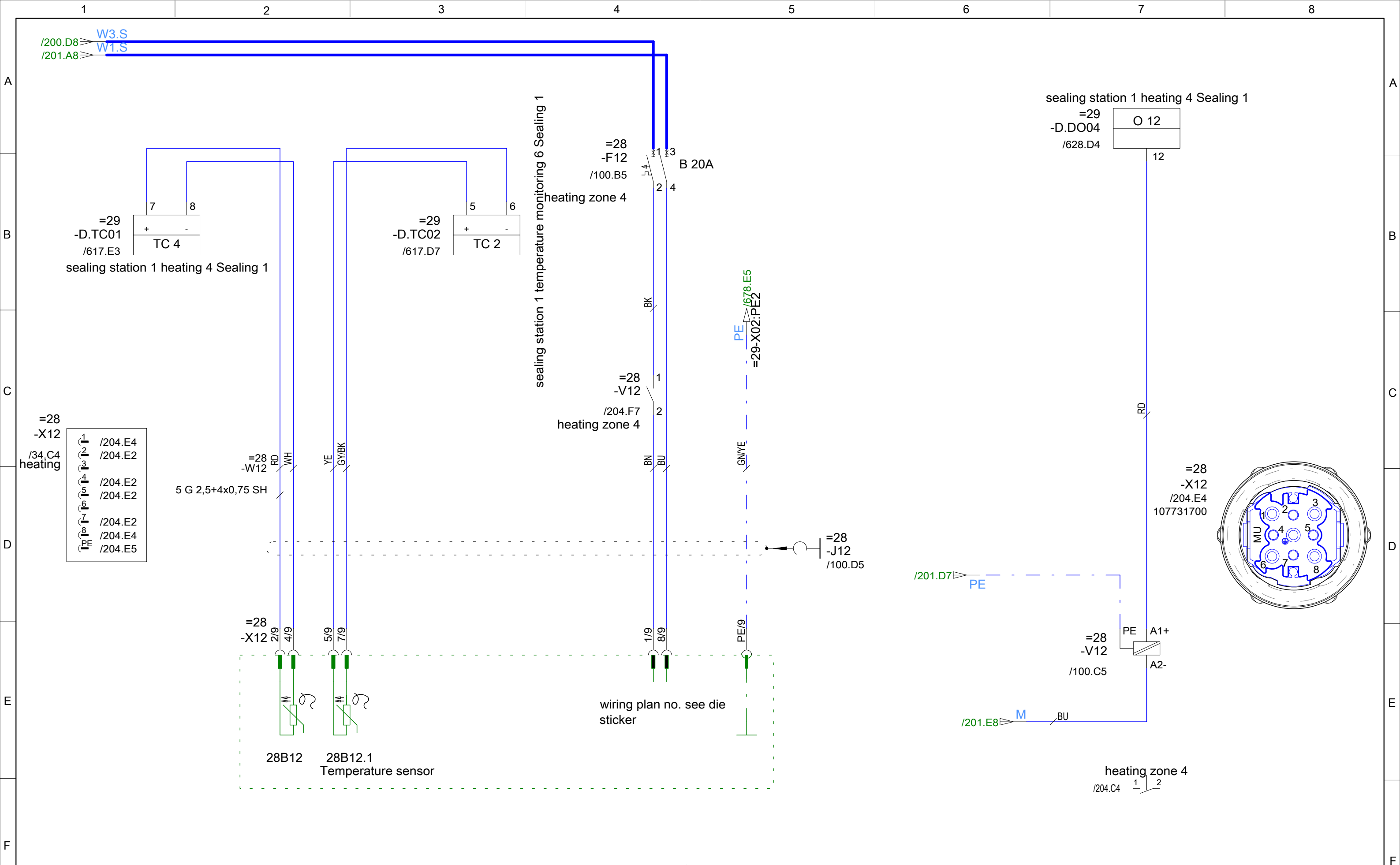


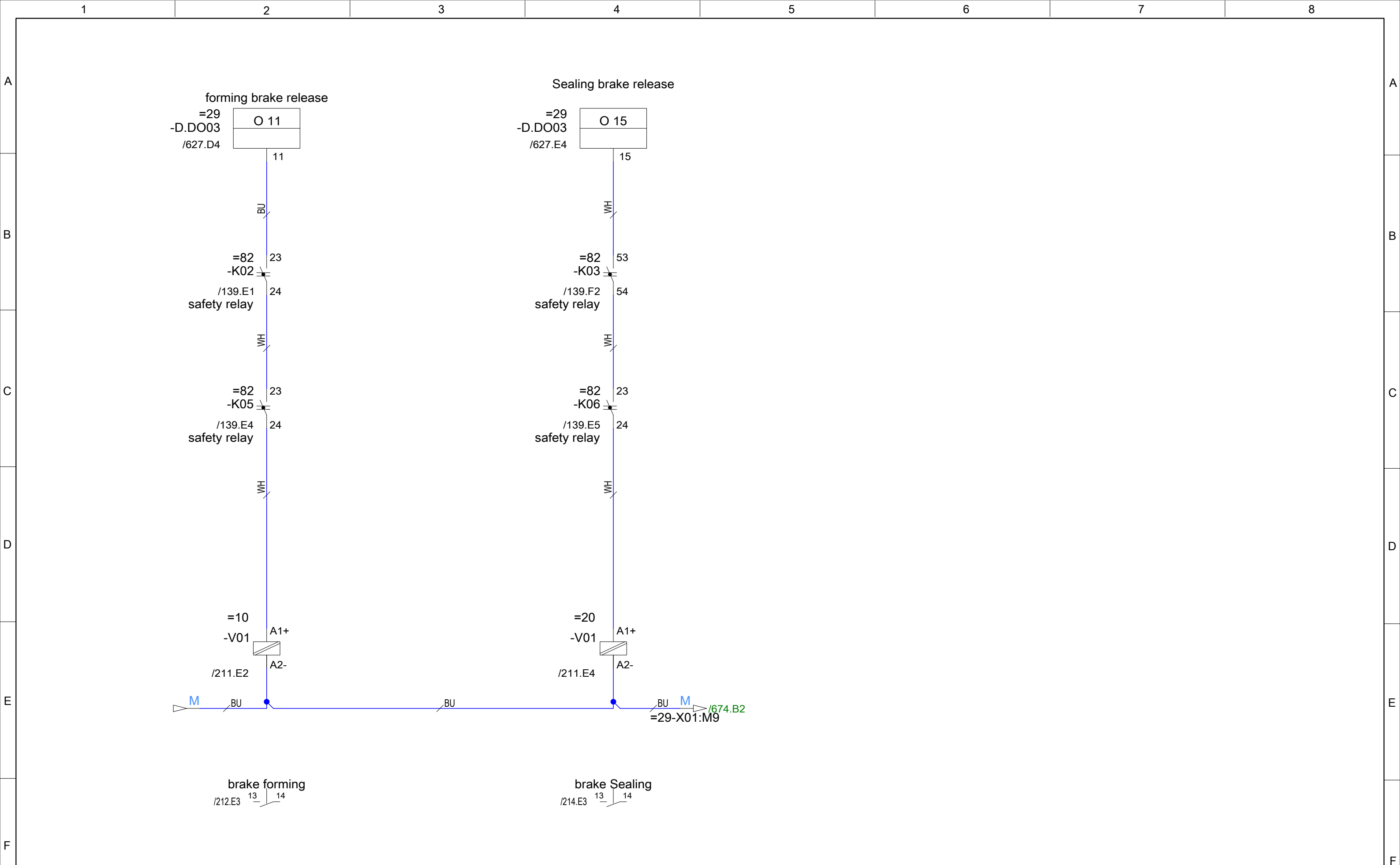
				date	15.07.2019		128835	current sensor output measuring terminal					
				processor	E. Mohr								
				checked									
status	change	date	name	standard	Origin:	17000857614	version:	0	replaced by:	R145		278972	
												sheet 199	
												< 183	200 >

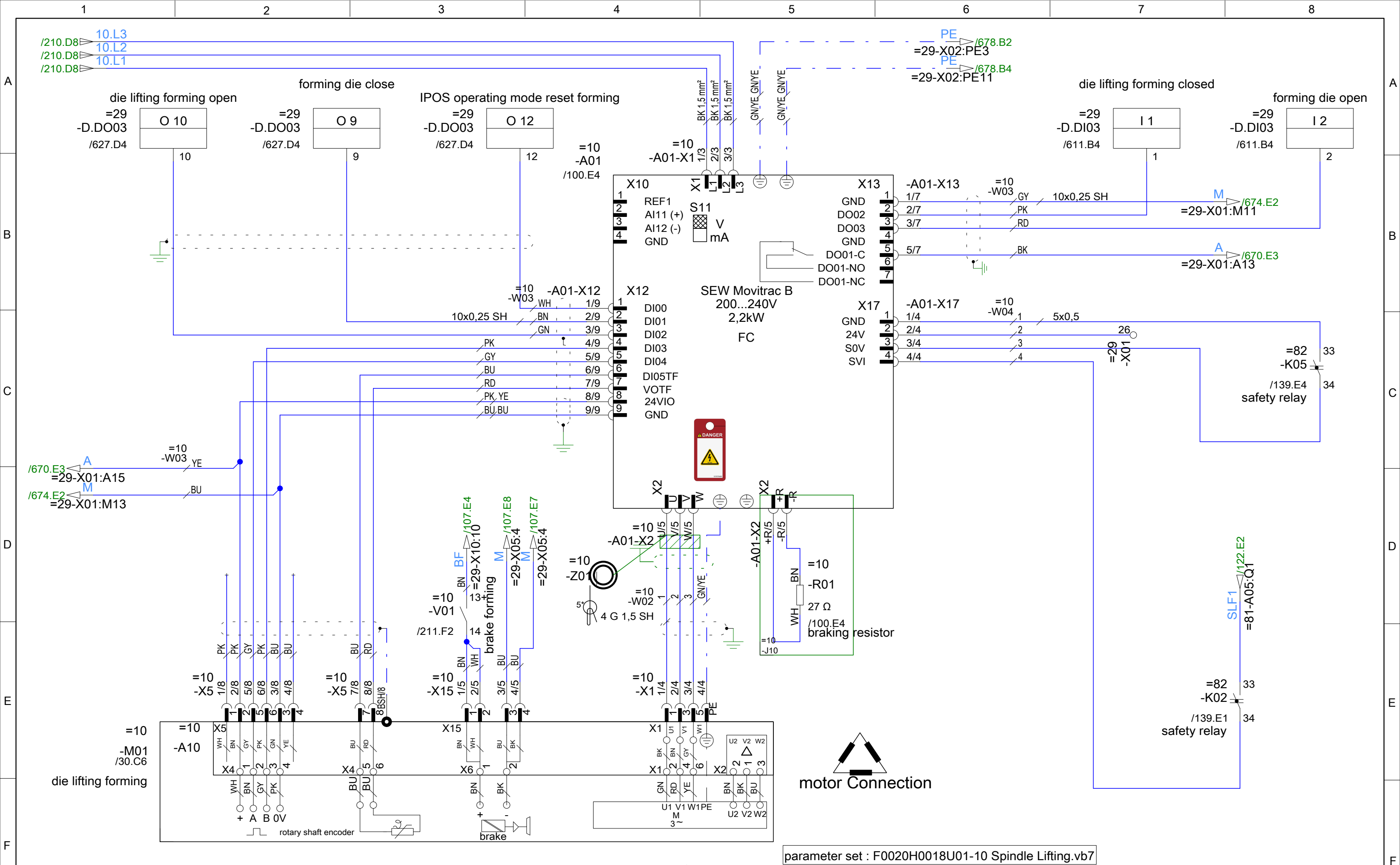


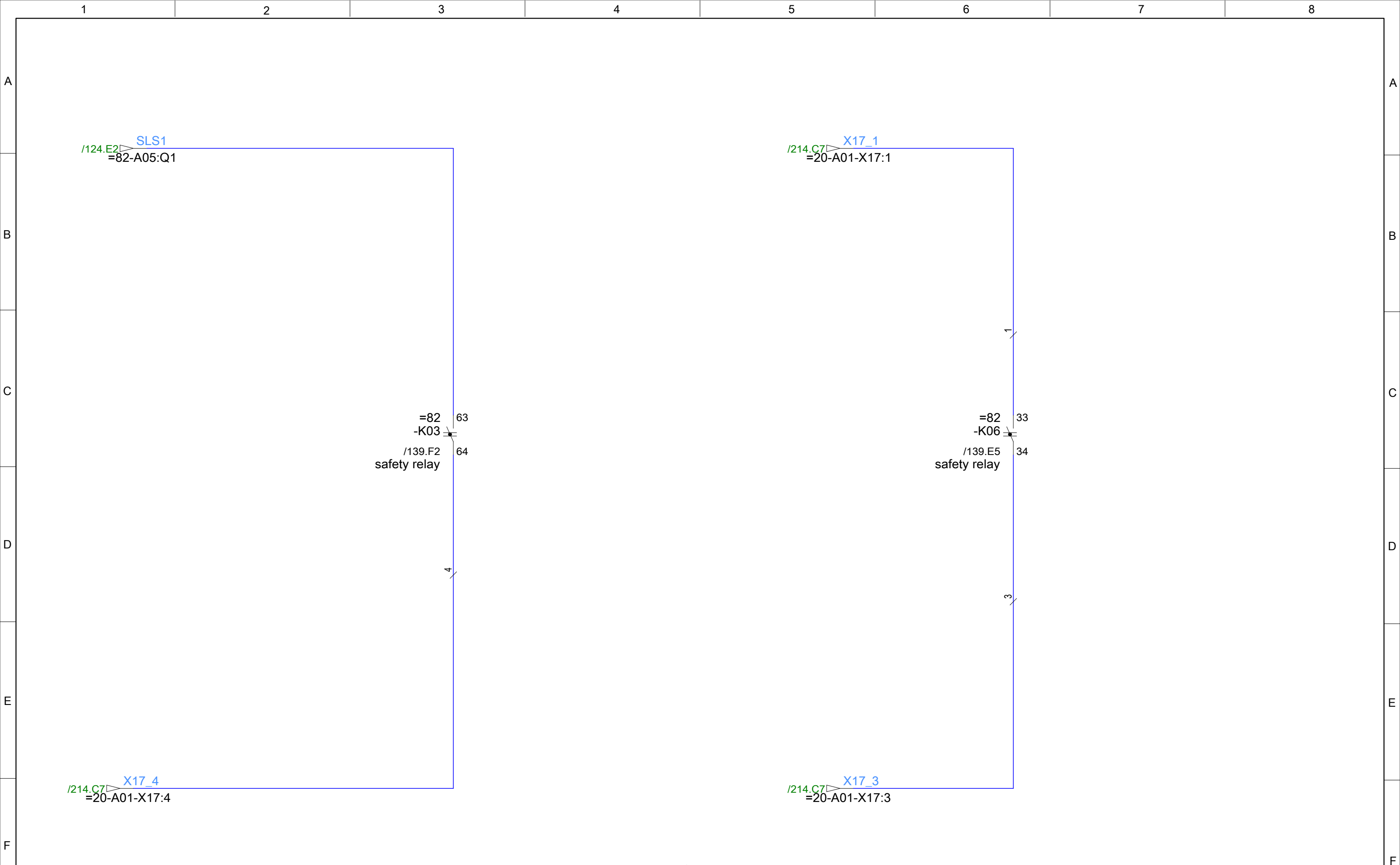
				date	15.07.2019	 MULTIVAC			128835	heating on				
				processor	E. Mohr									
				checked										
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 200
											< 199	201 >		




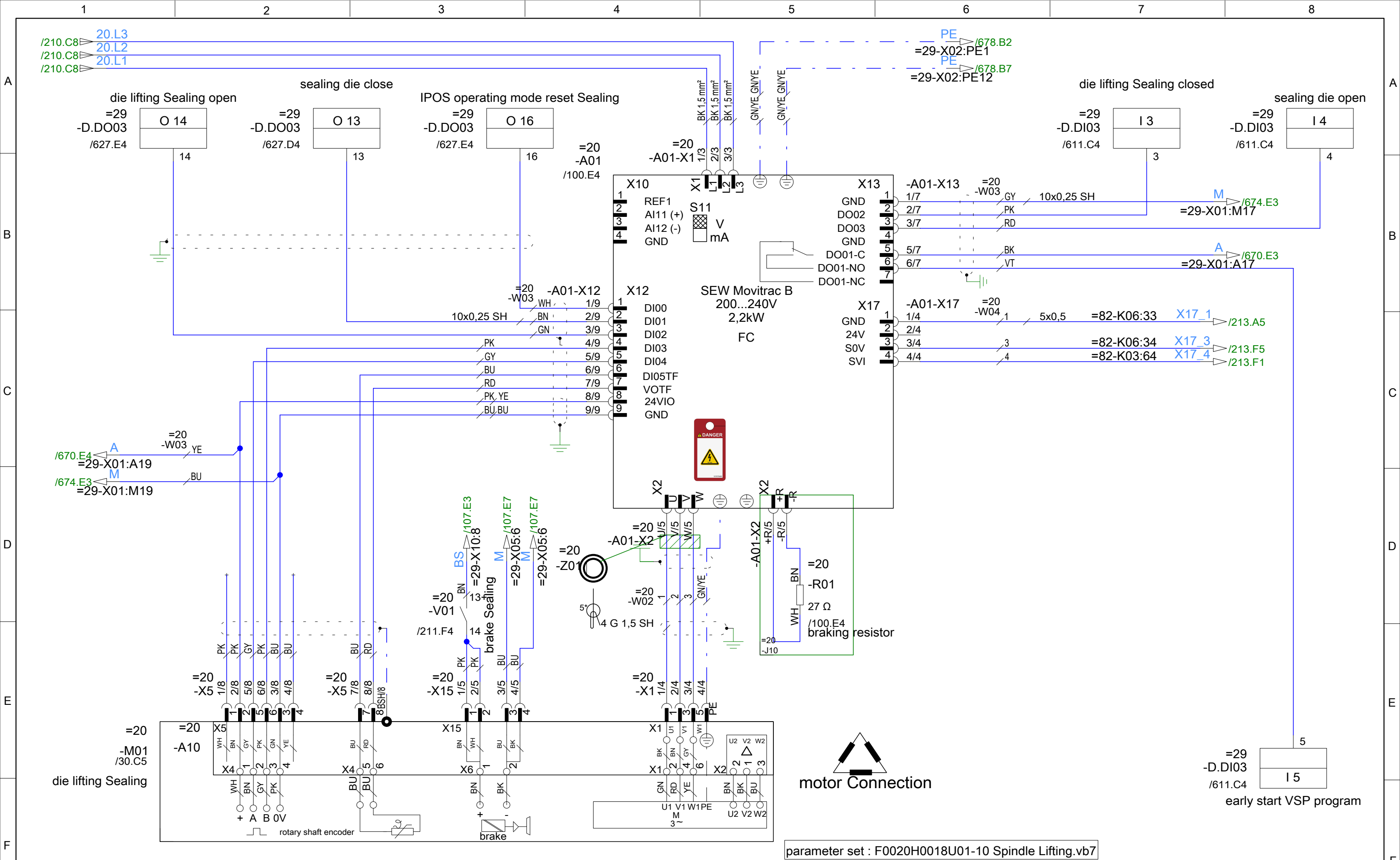





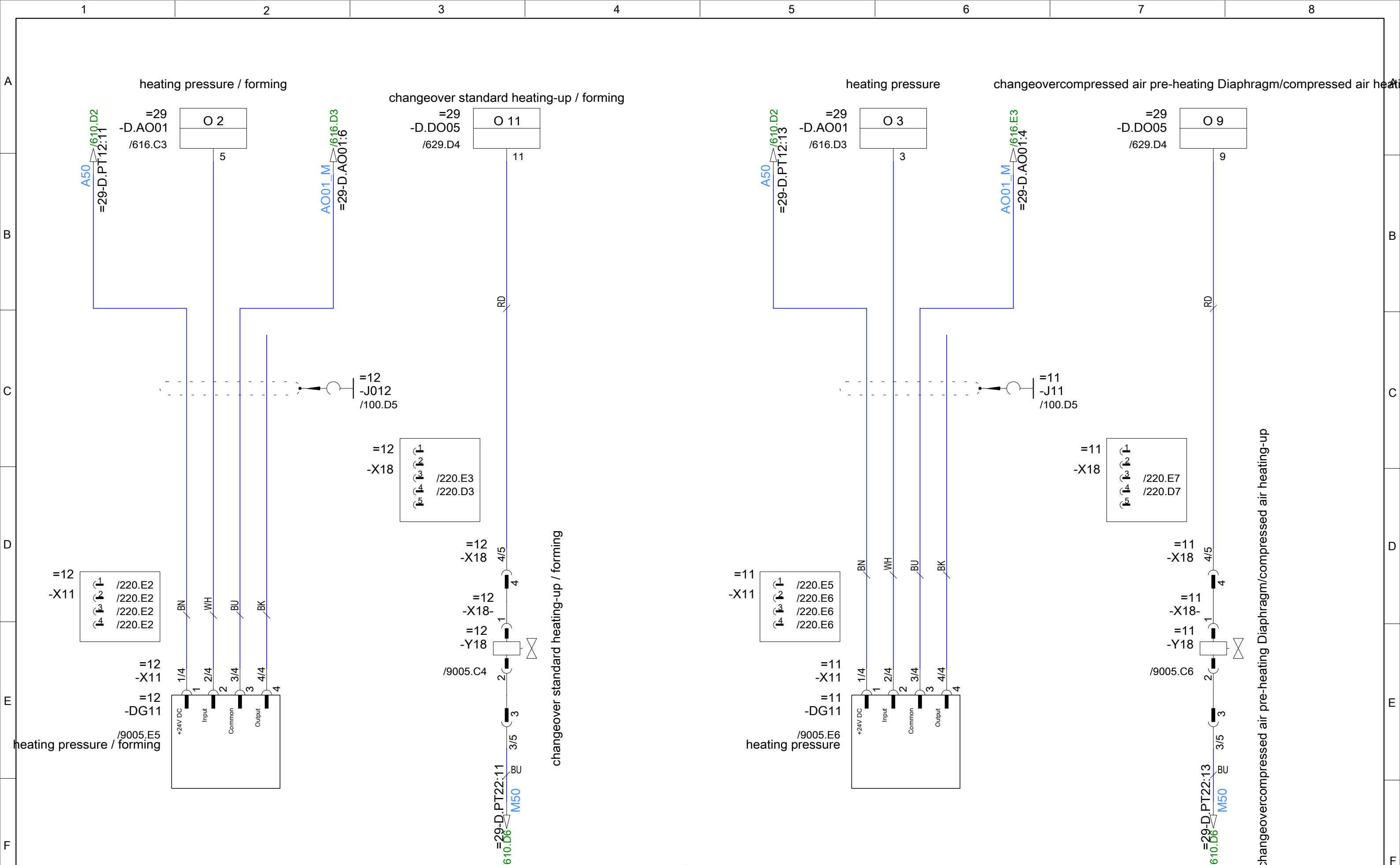





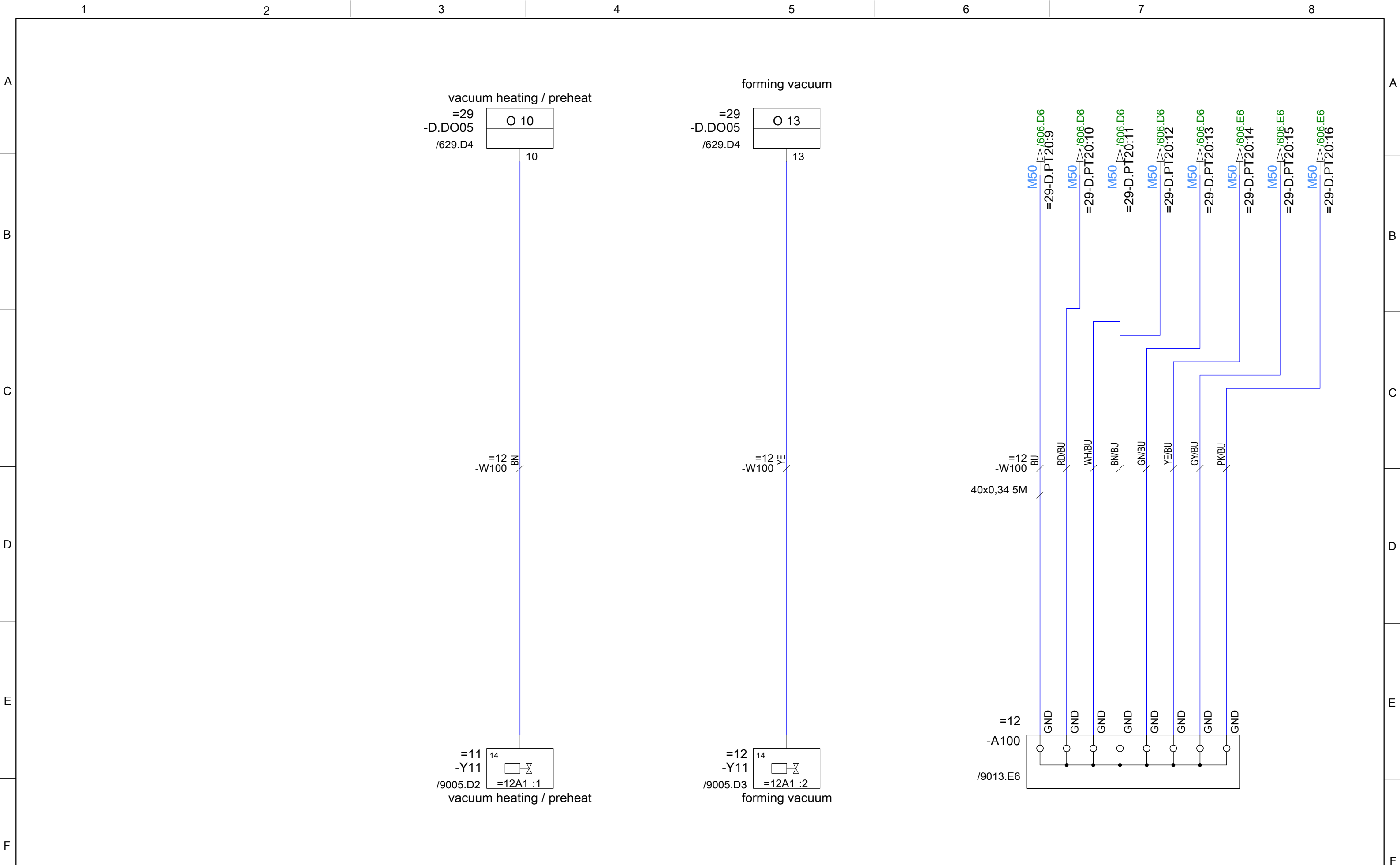
				date	15.07.2019				128835	die lifting Sealing				
				processor	E. Mohr									
				checked										
status	change	date	name	standard		Origin:	17000857614	version:	0	replaced by:		R145	278972	sheet 213
											< 212	214 >		

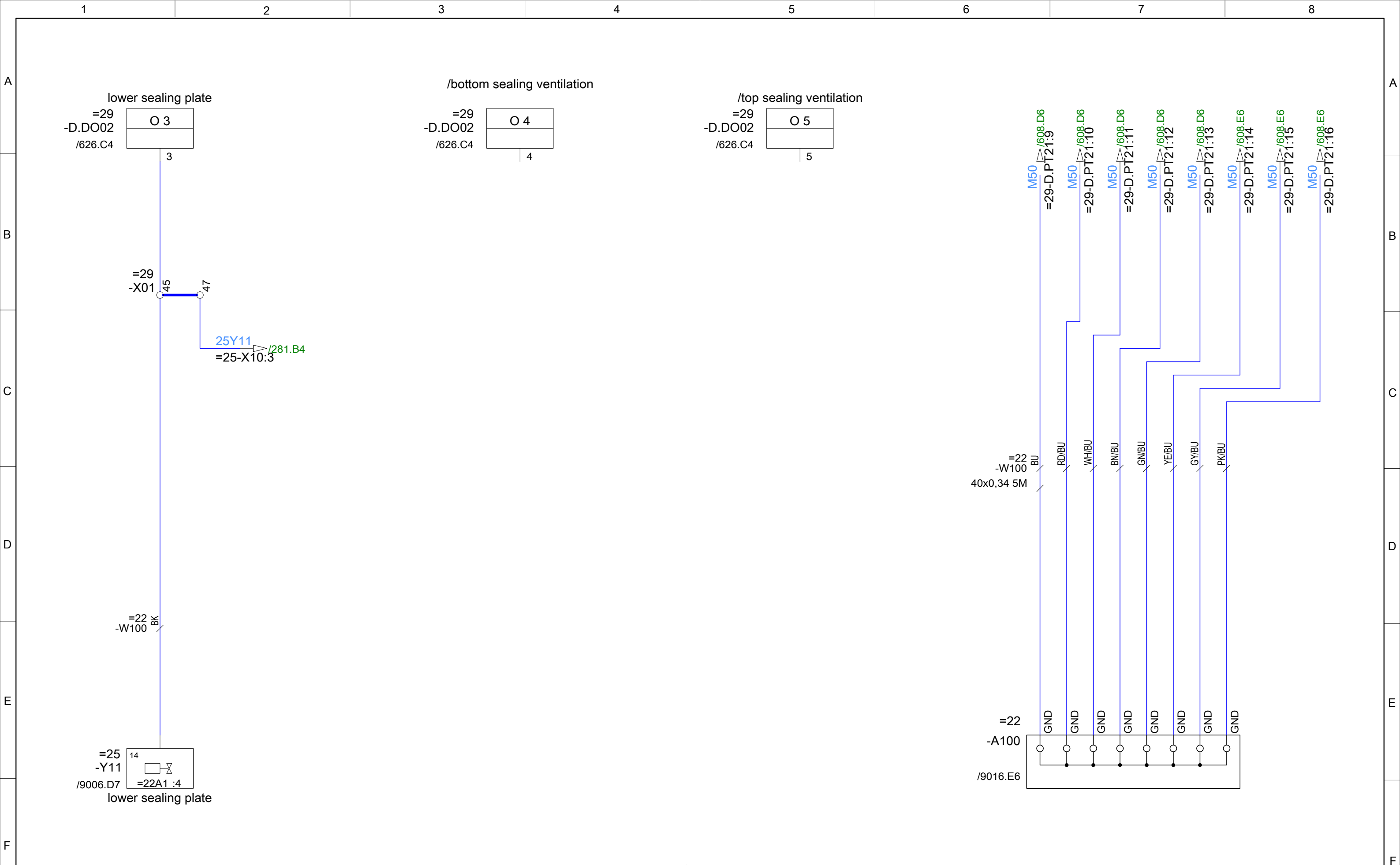


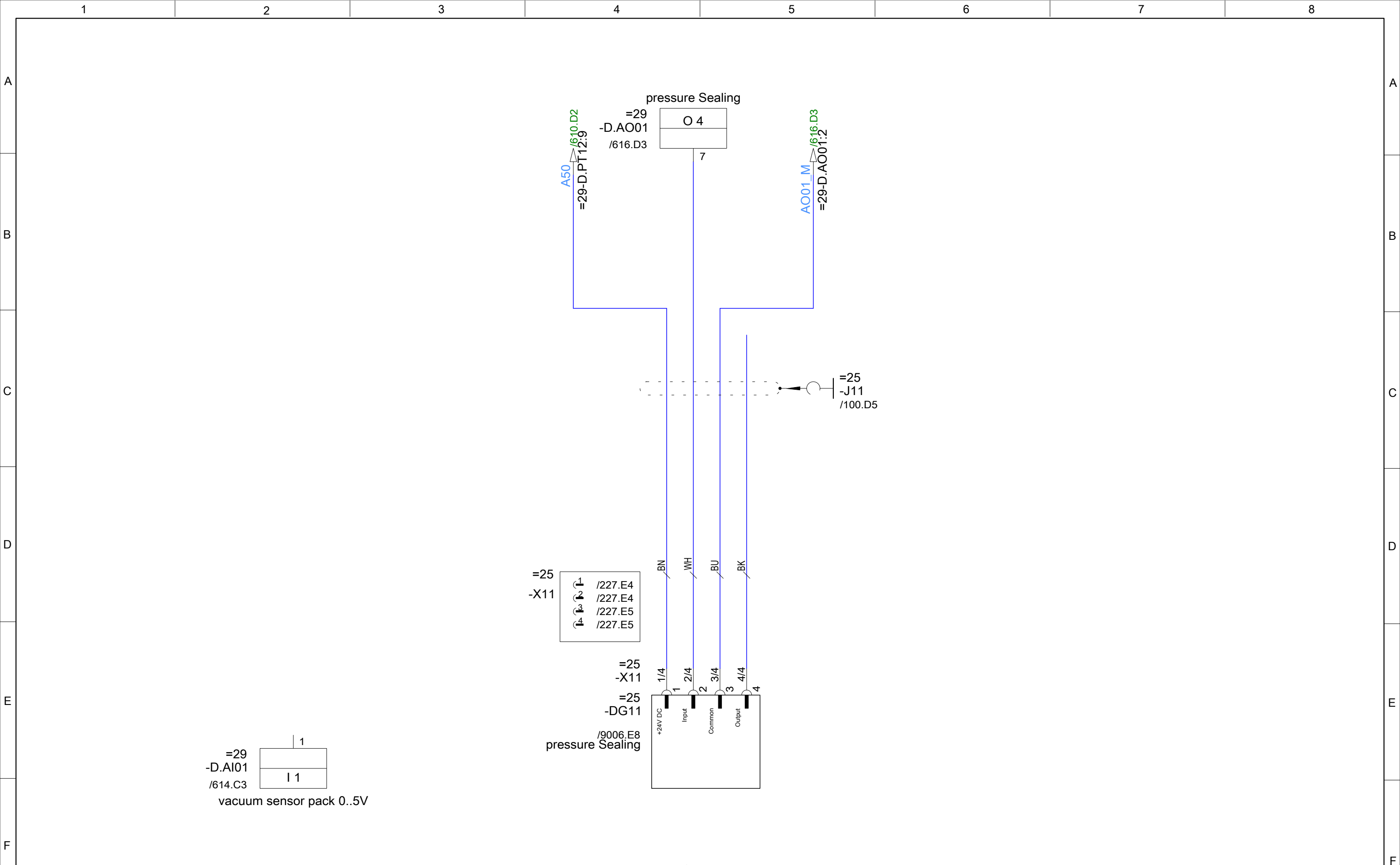
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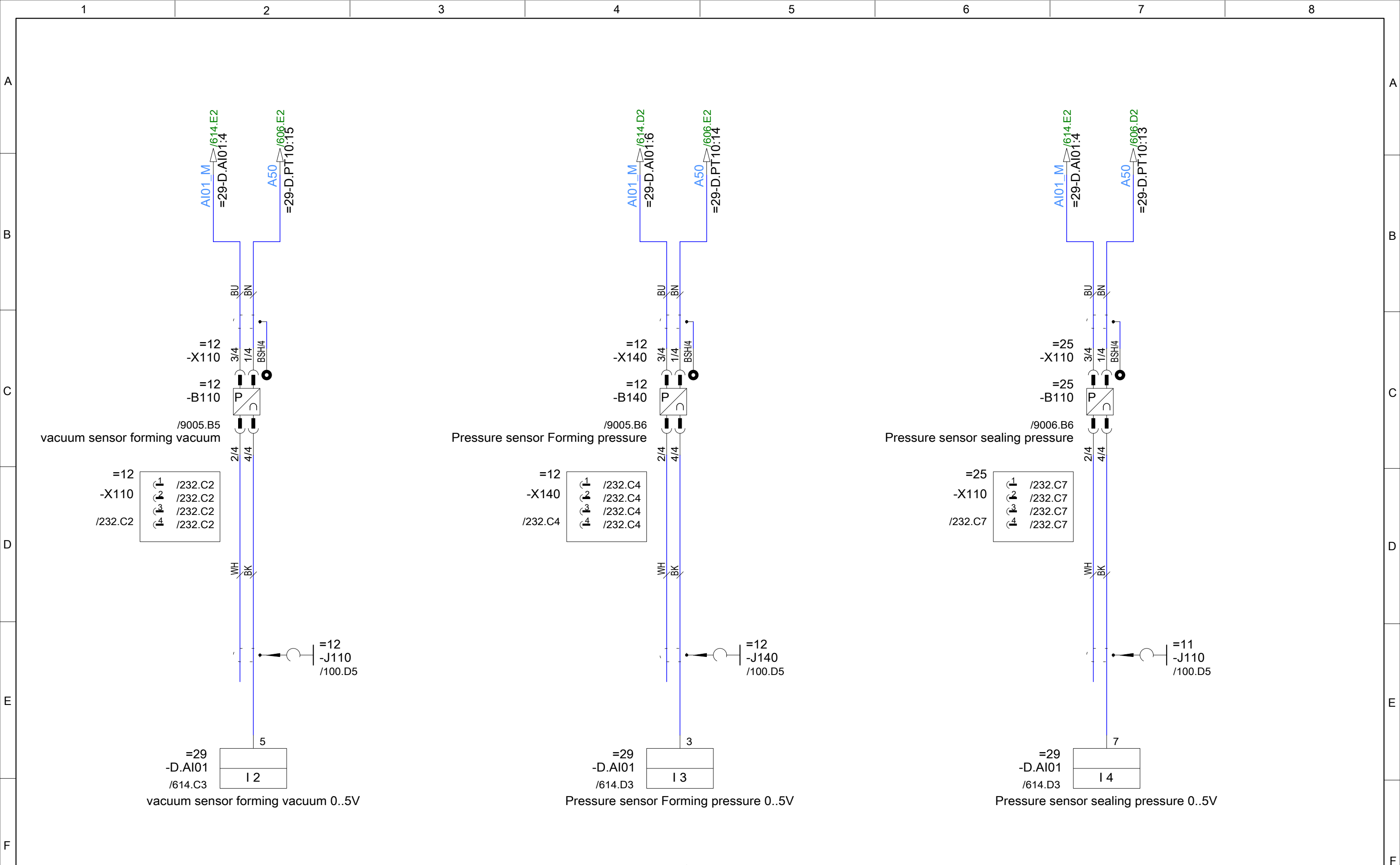


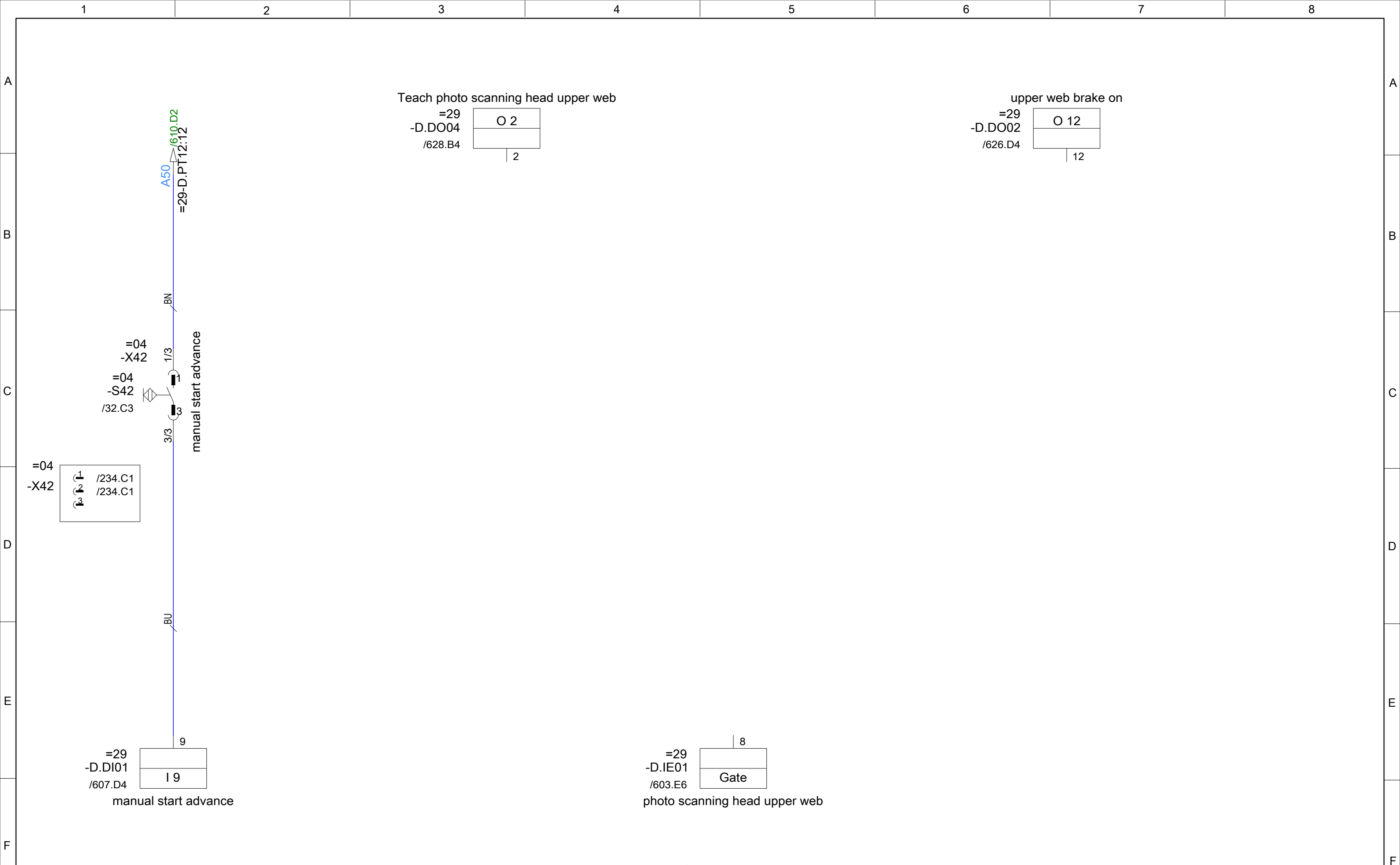
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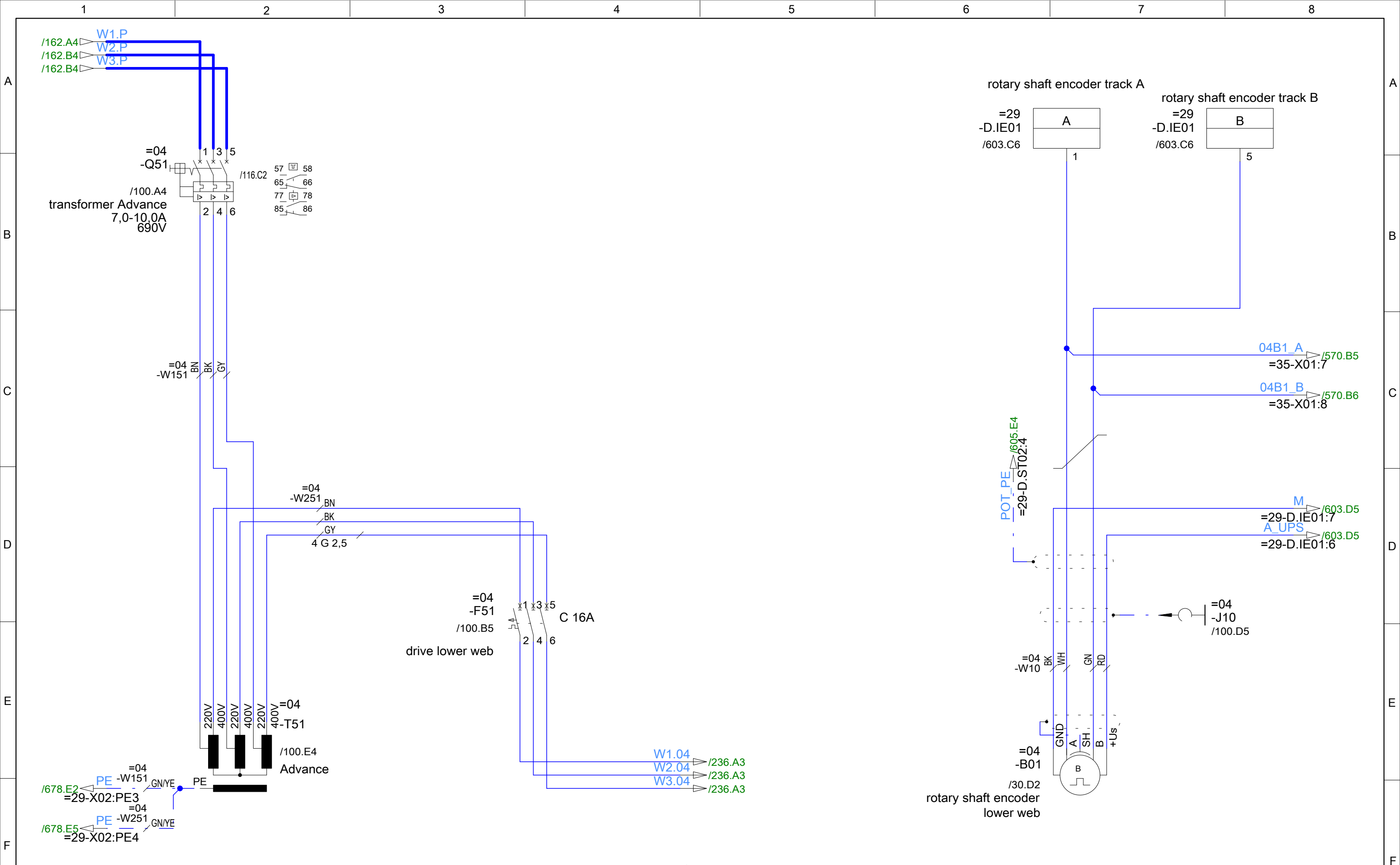





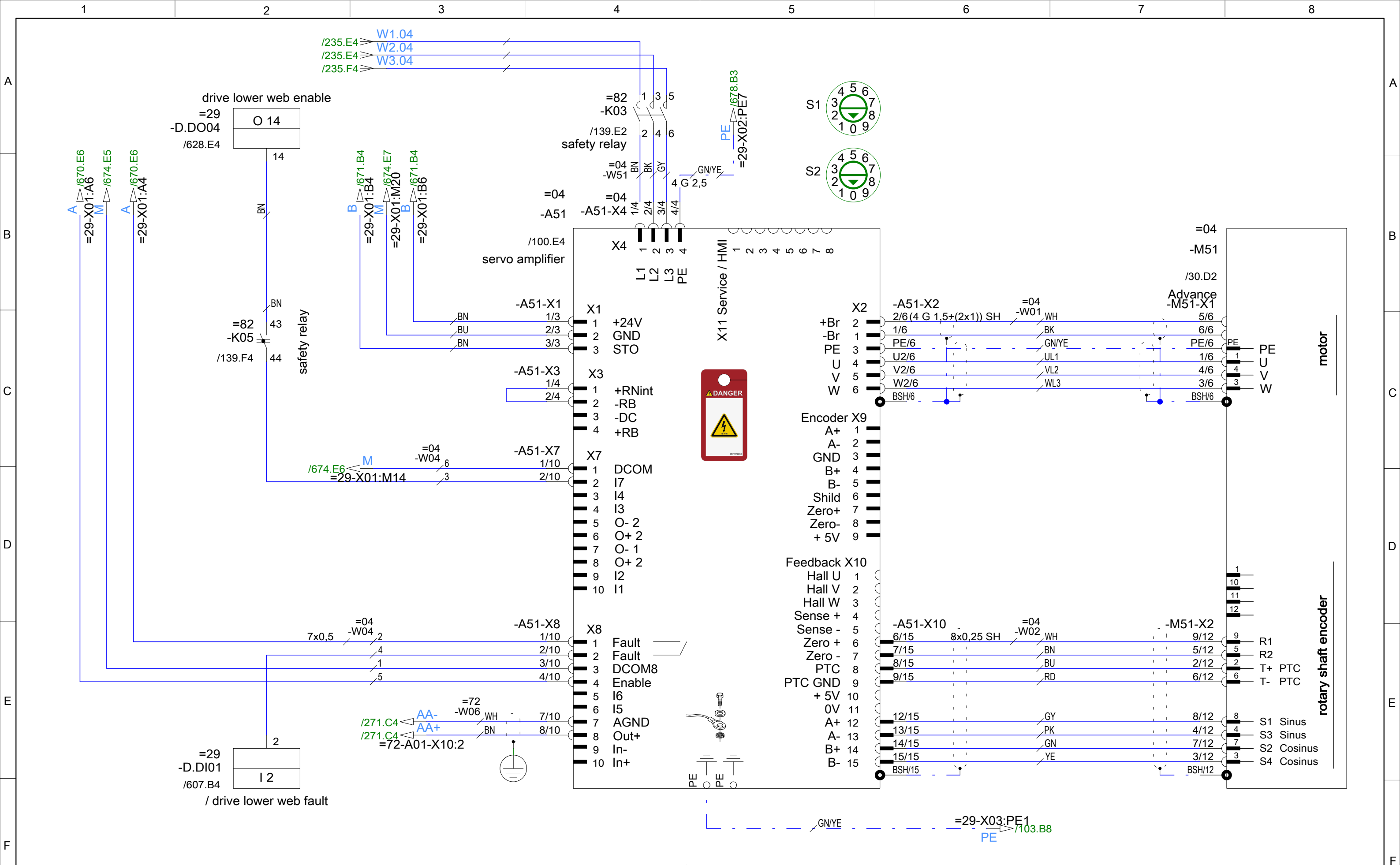


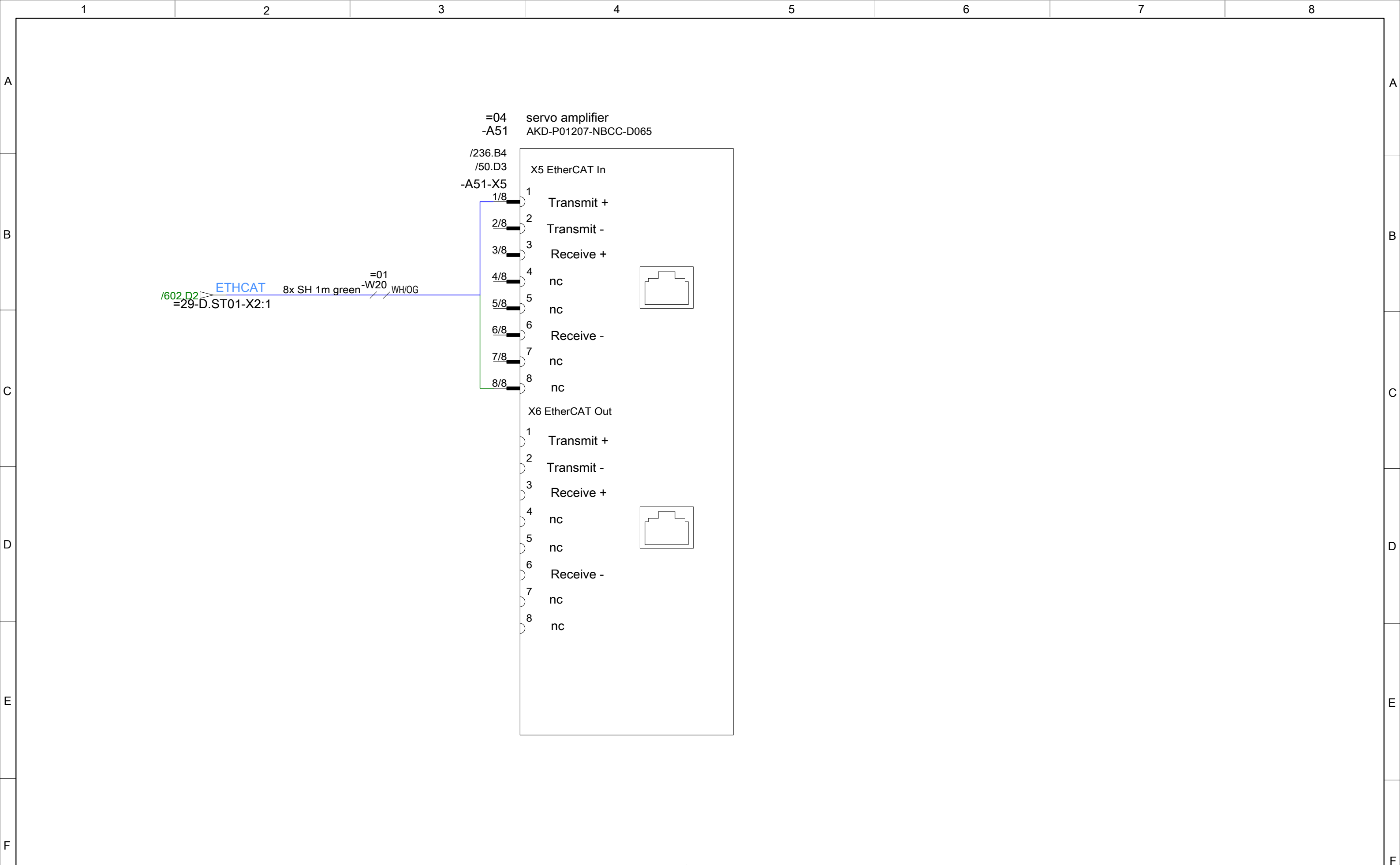


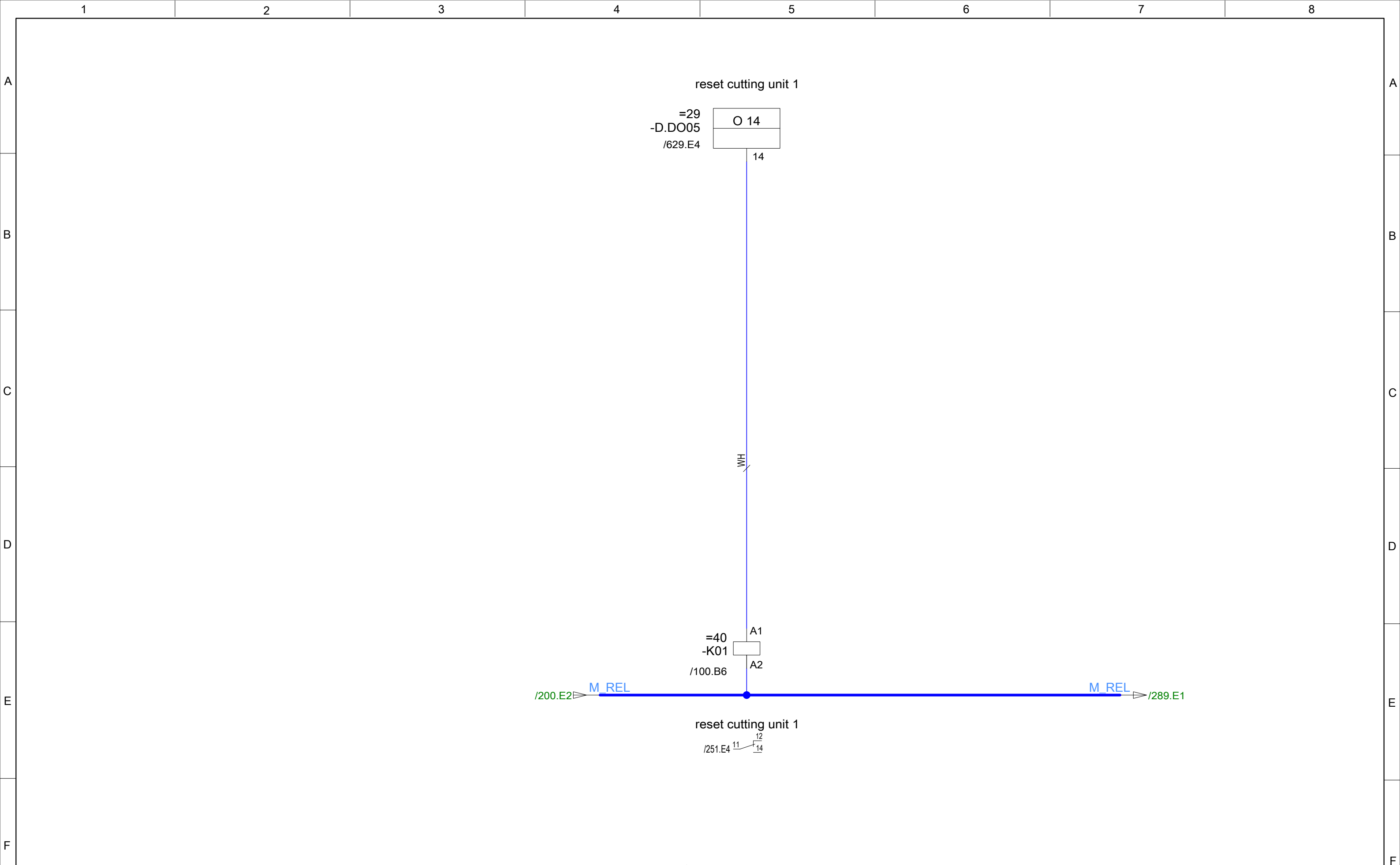





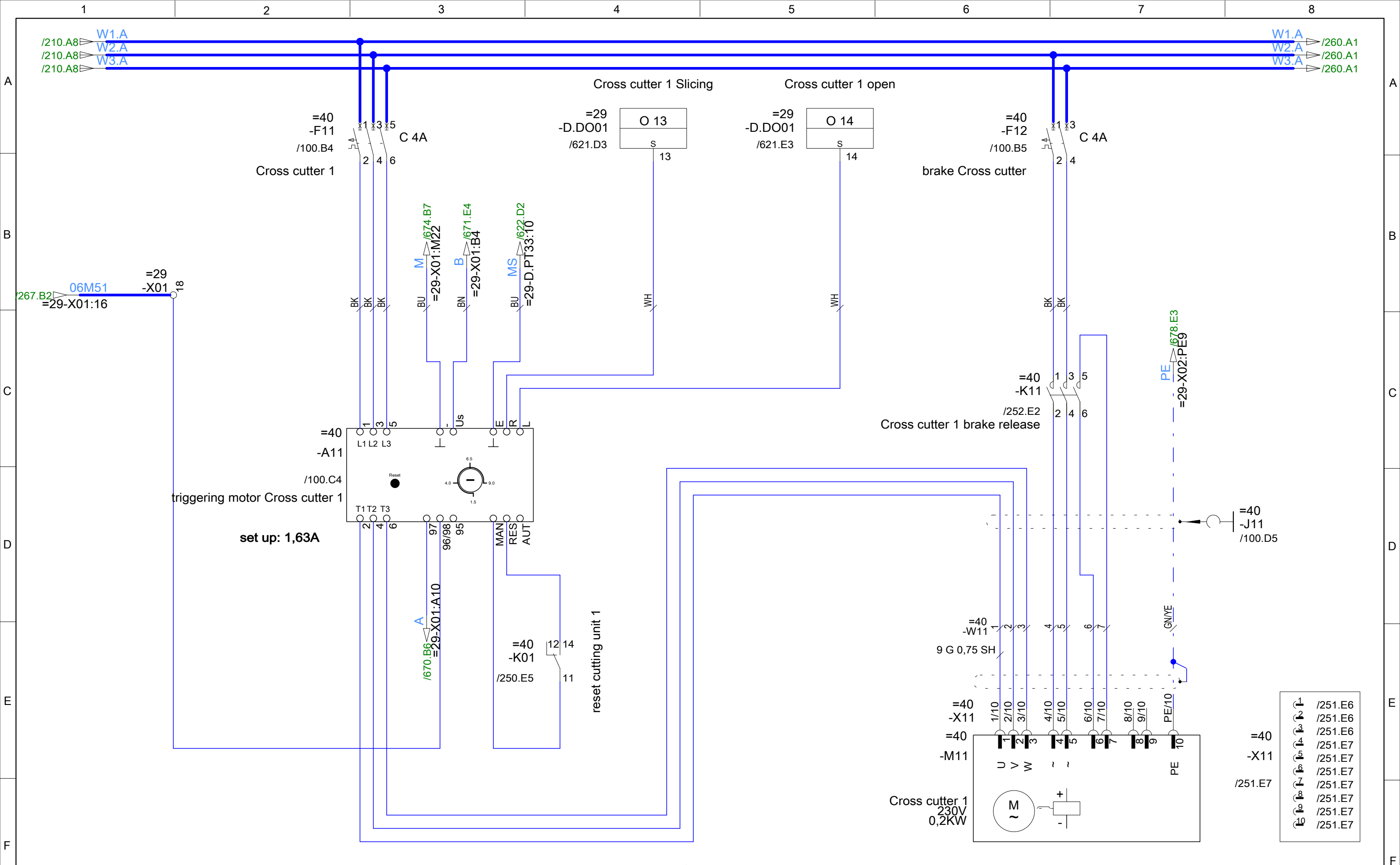
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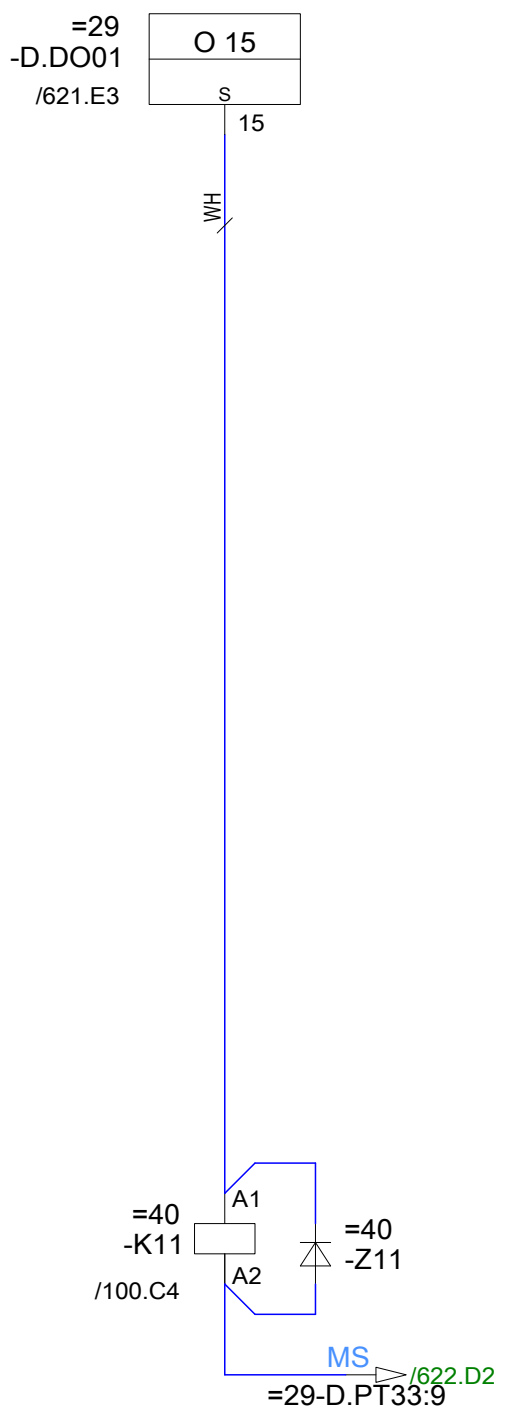




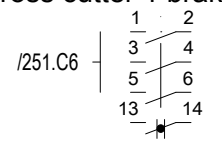
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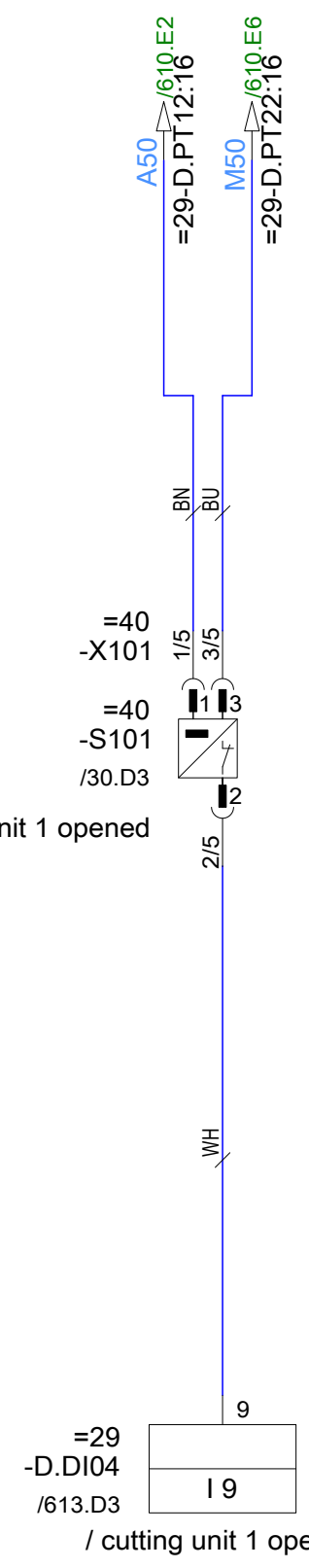
Cross cutter 1 brake release



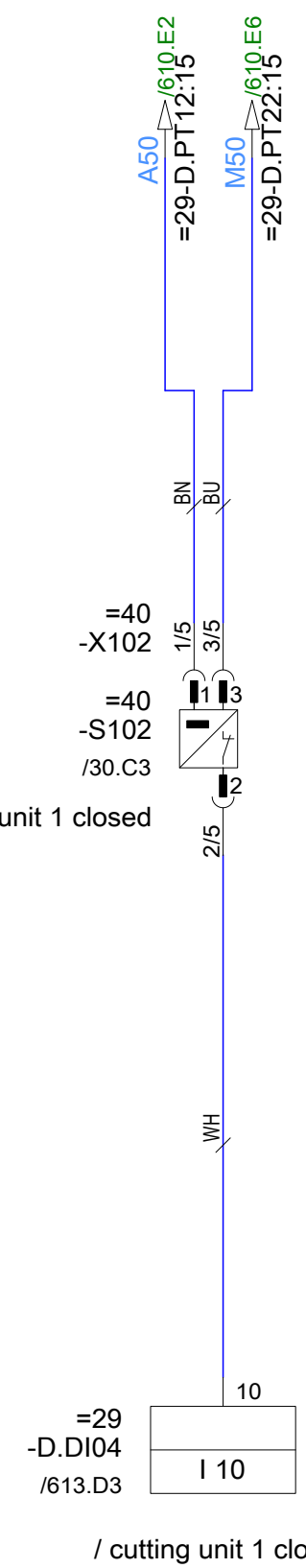
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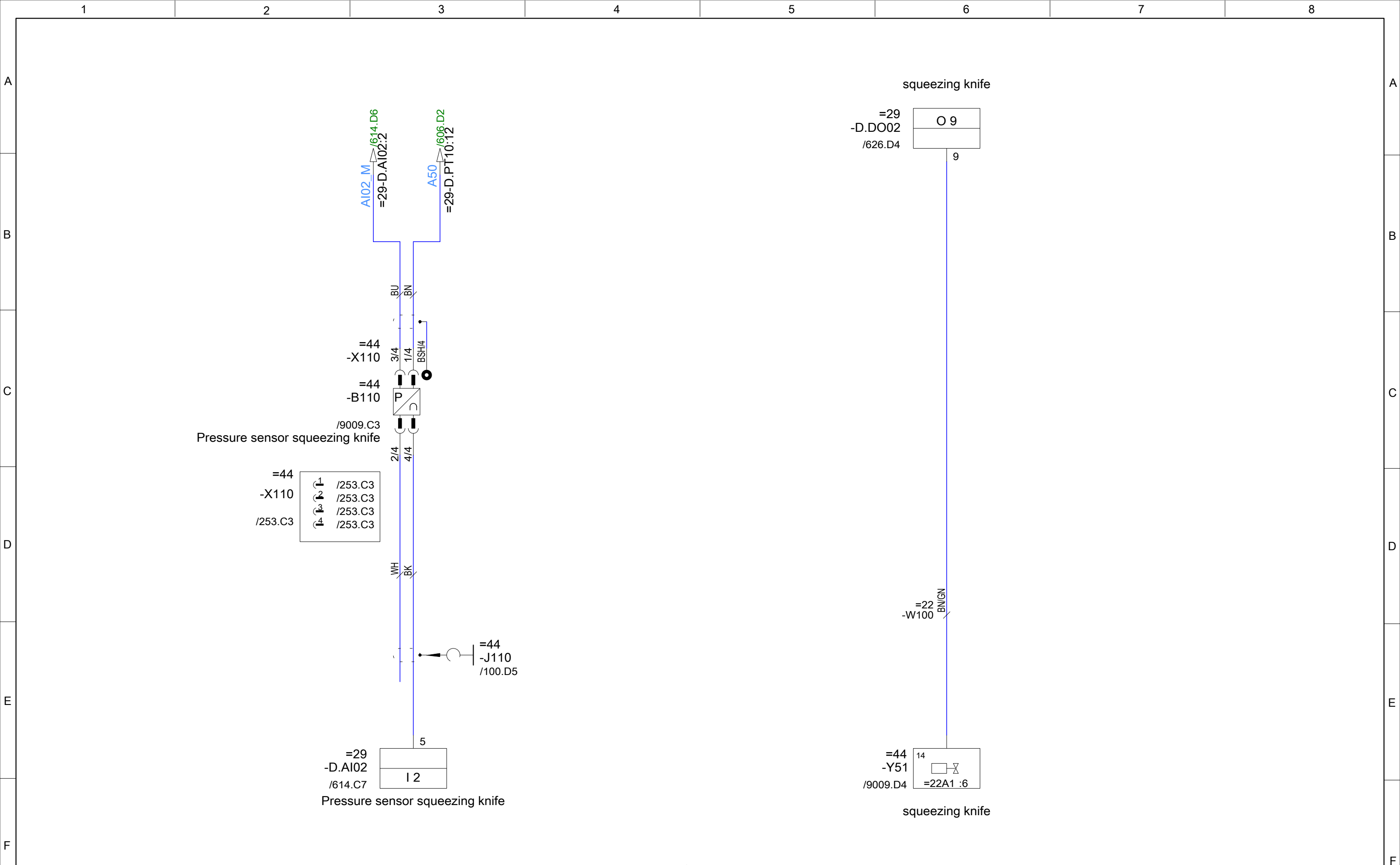


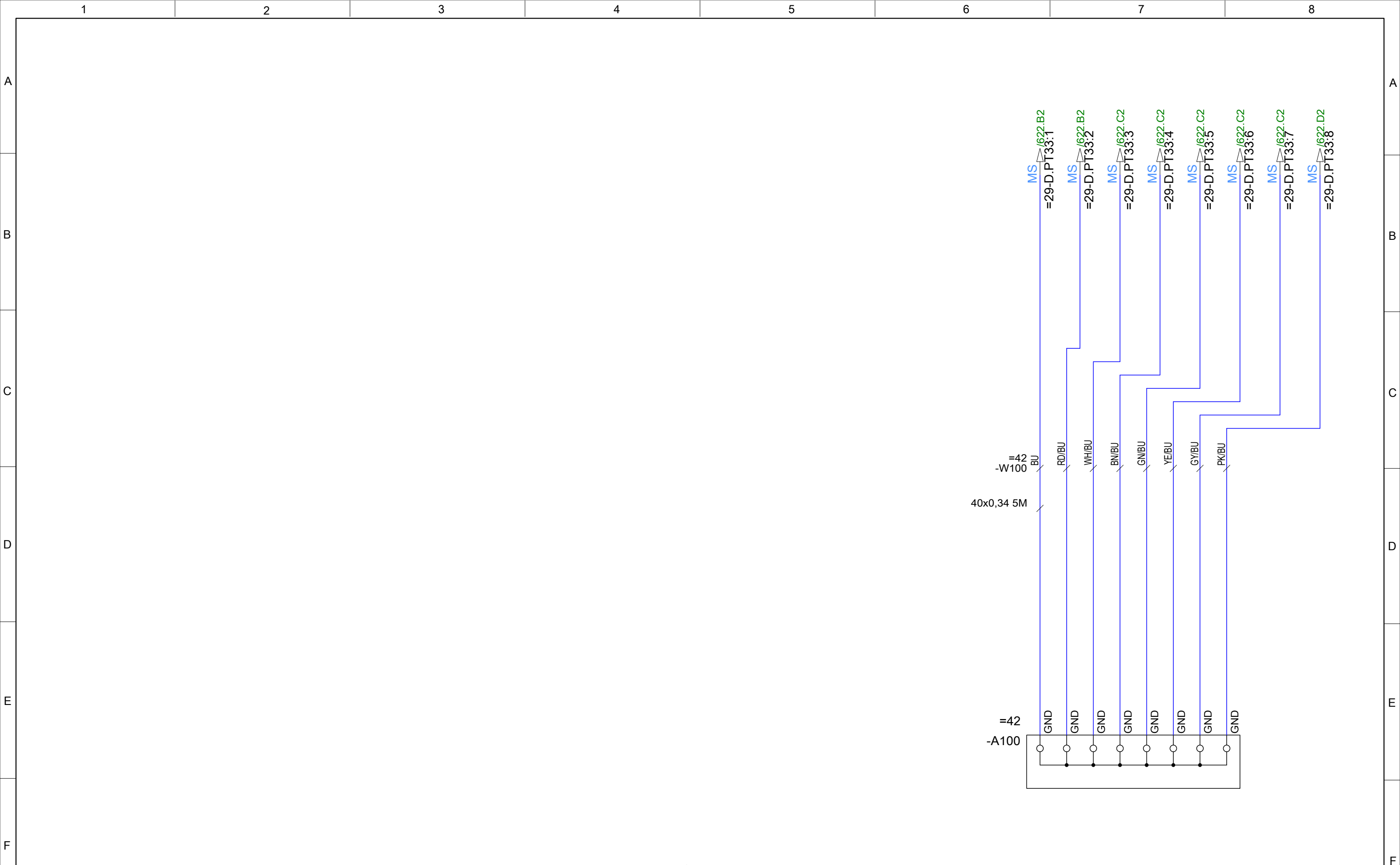
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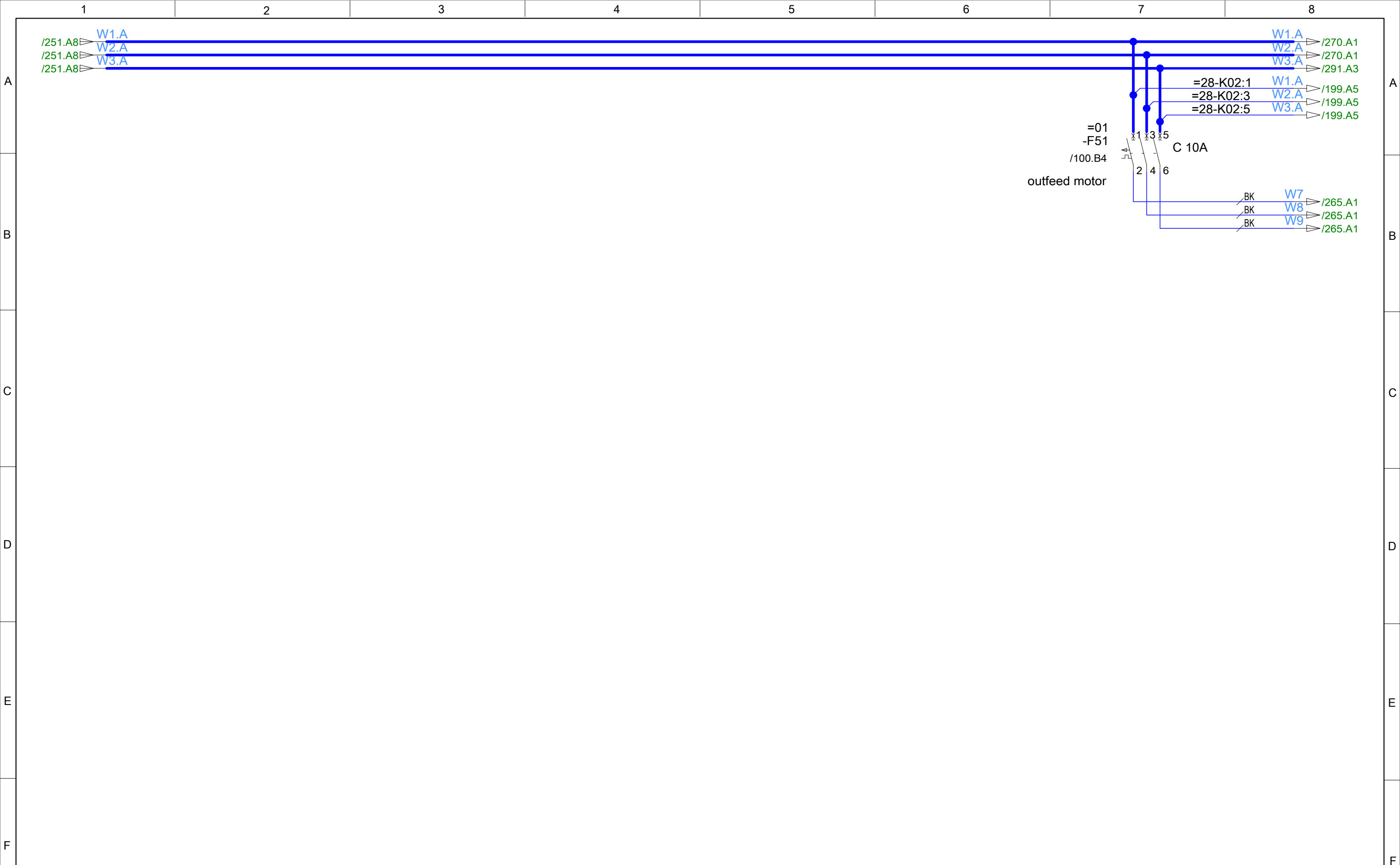



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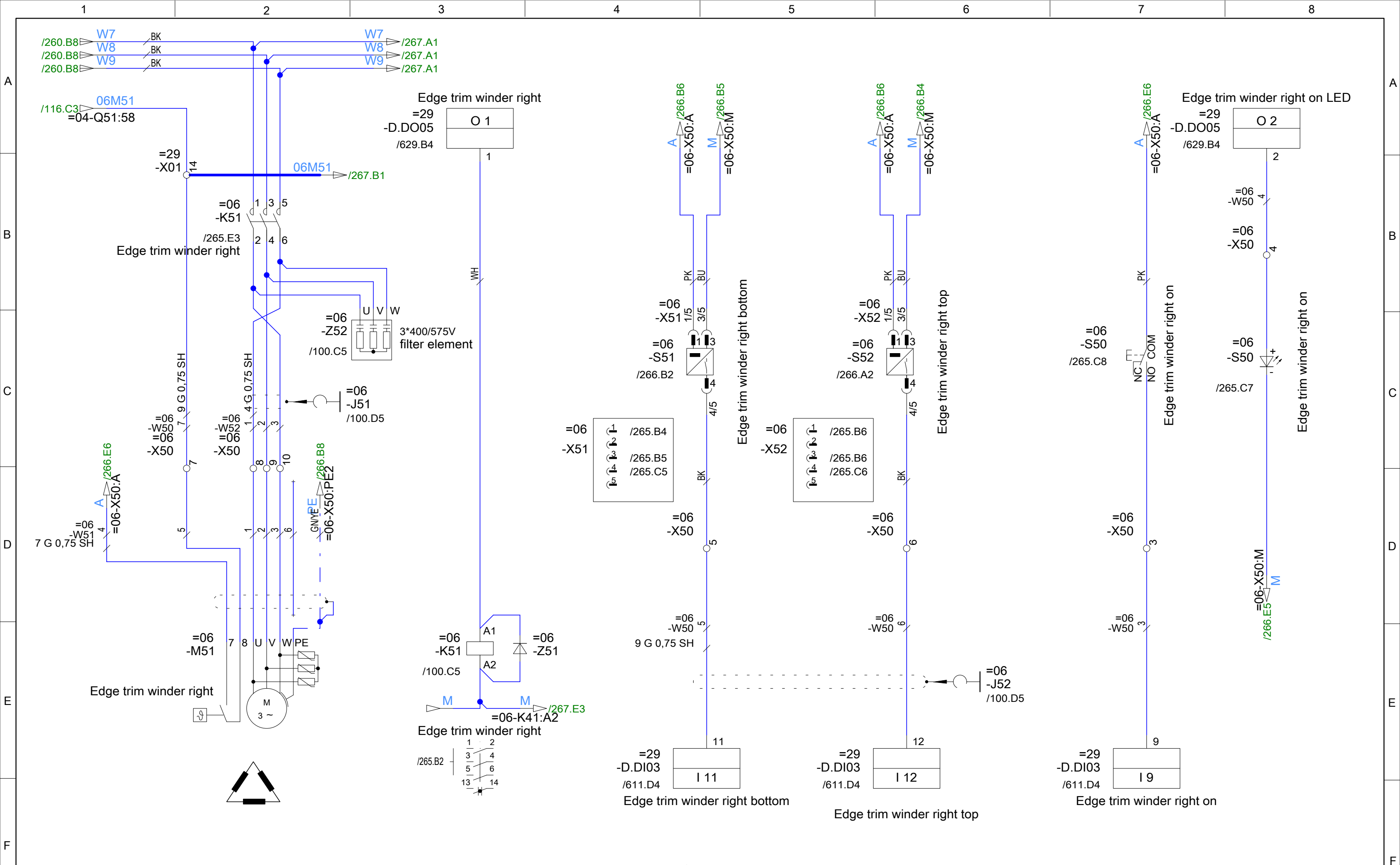


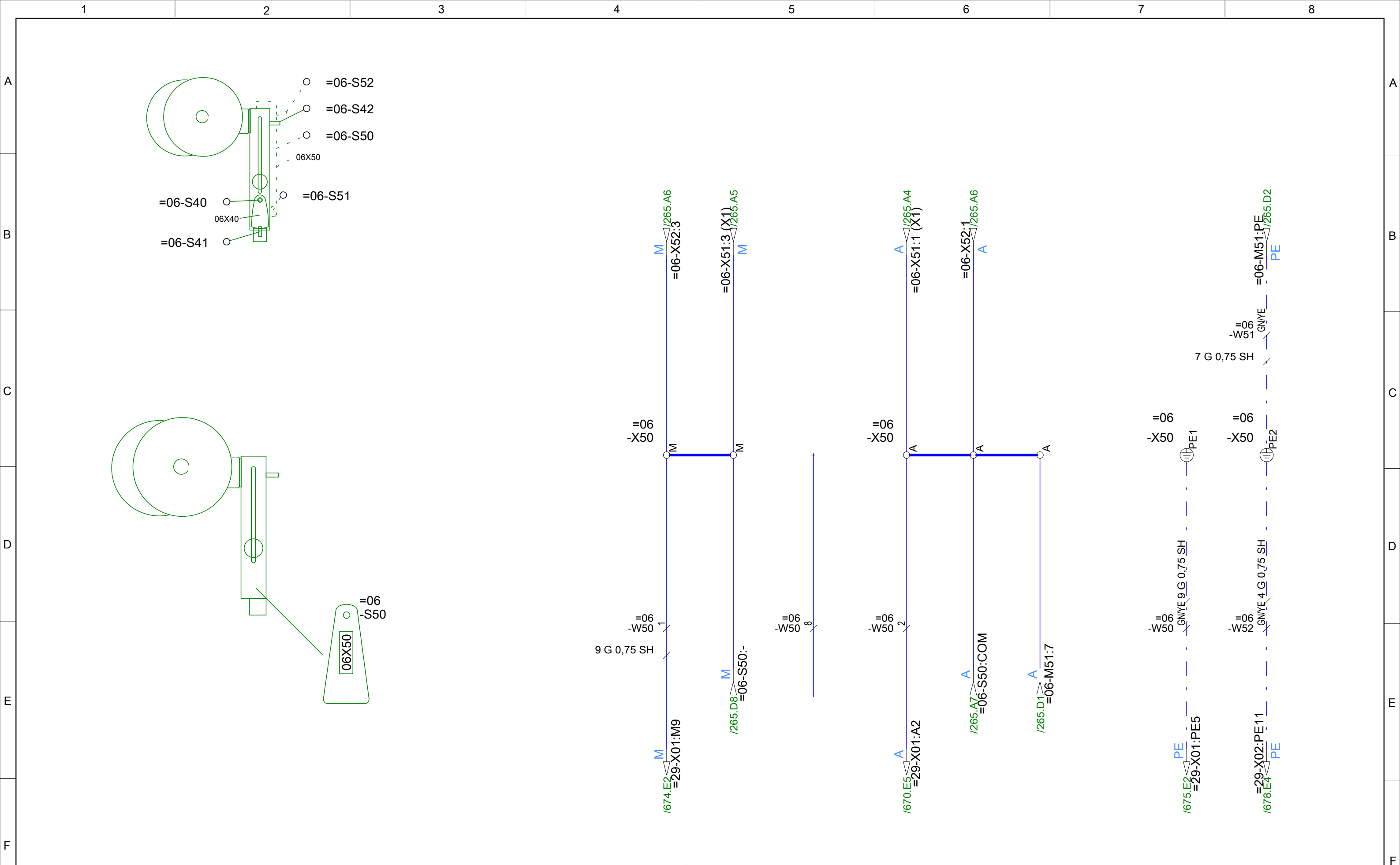


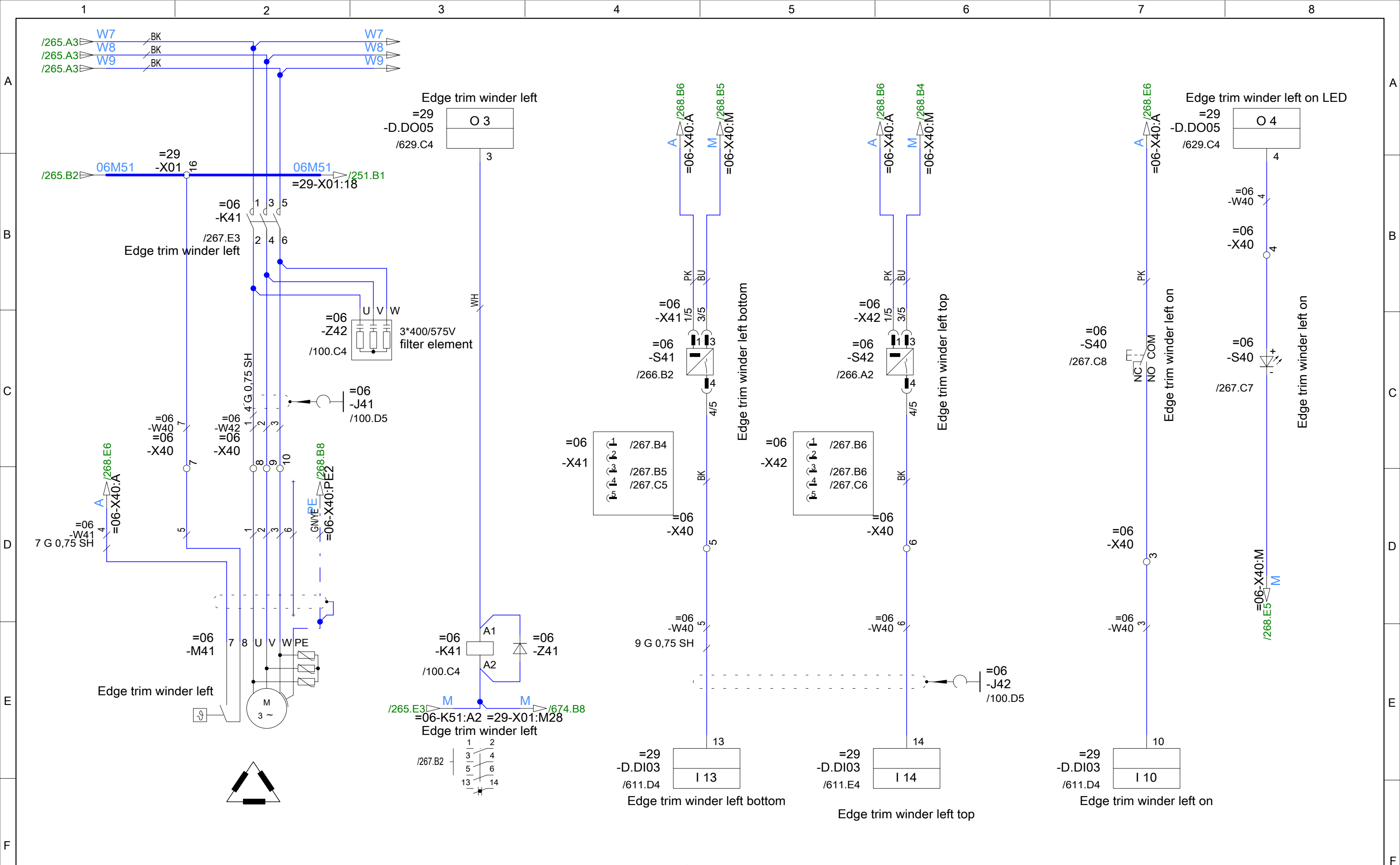


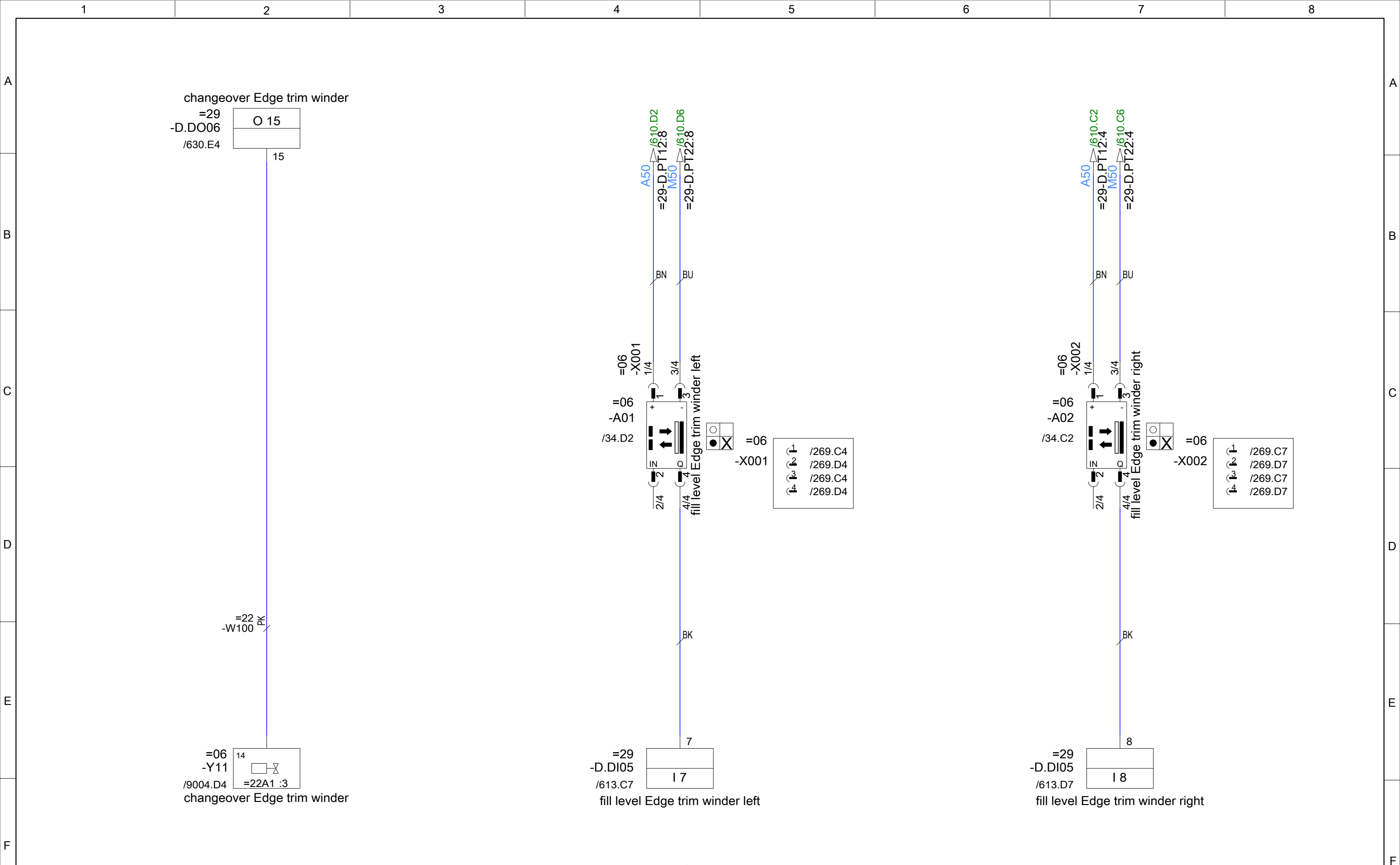


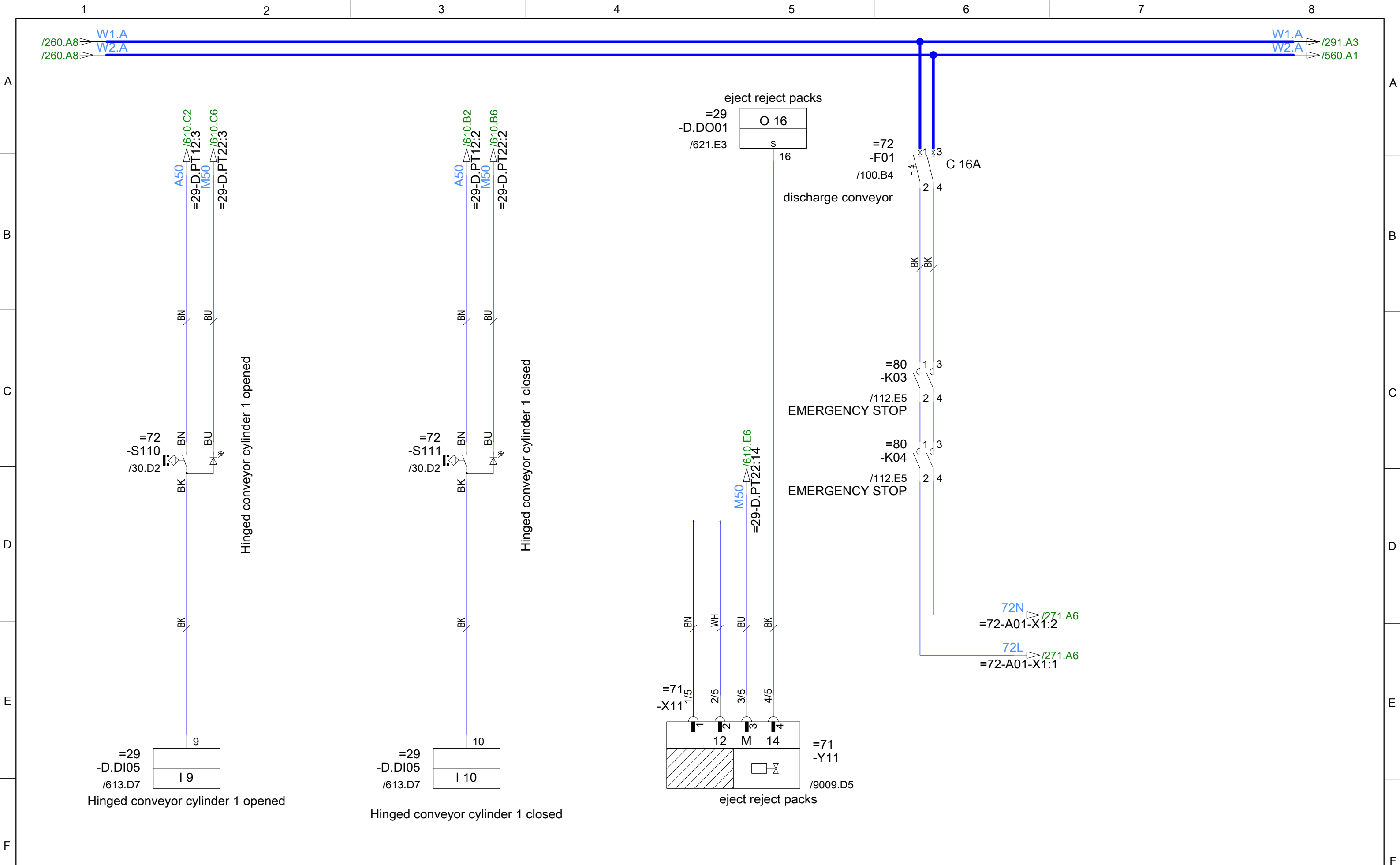
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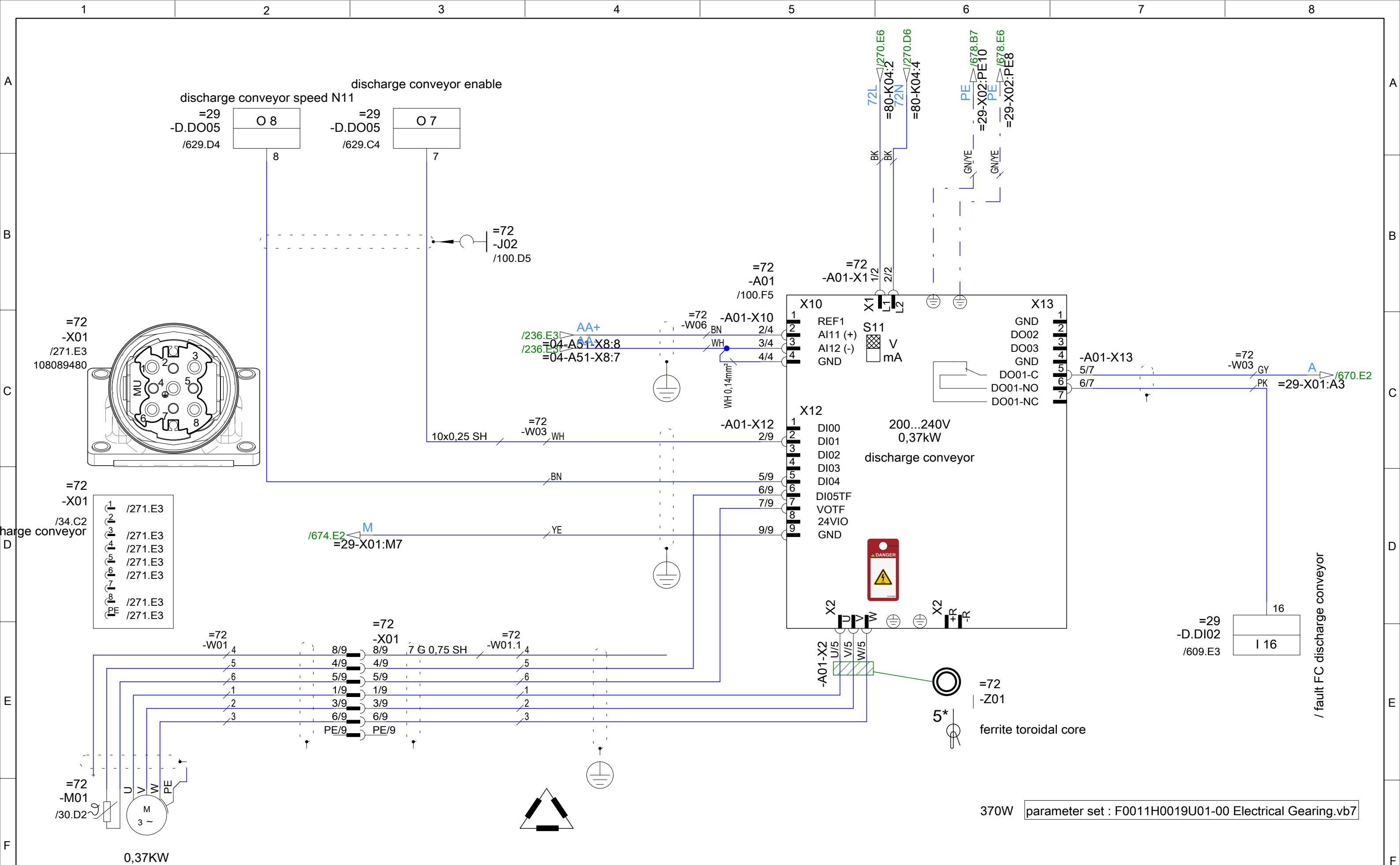


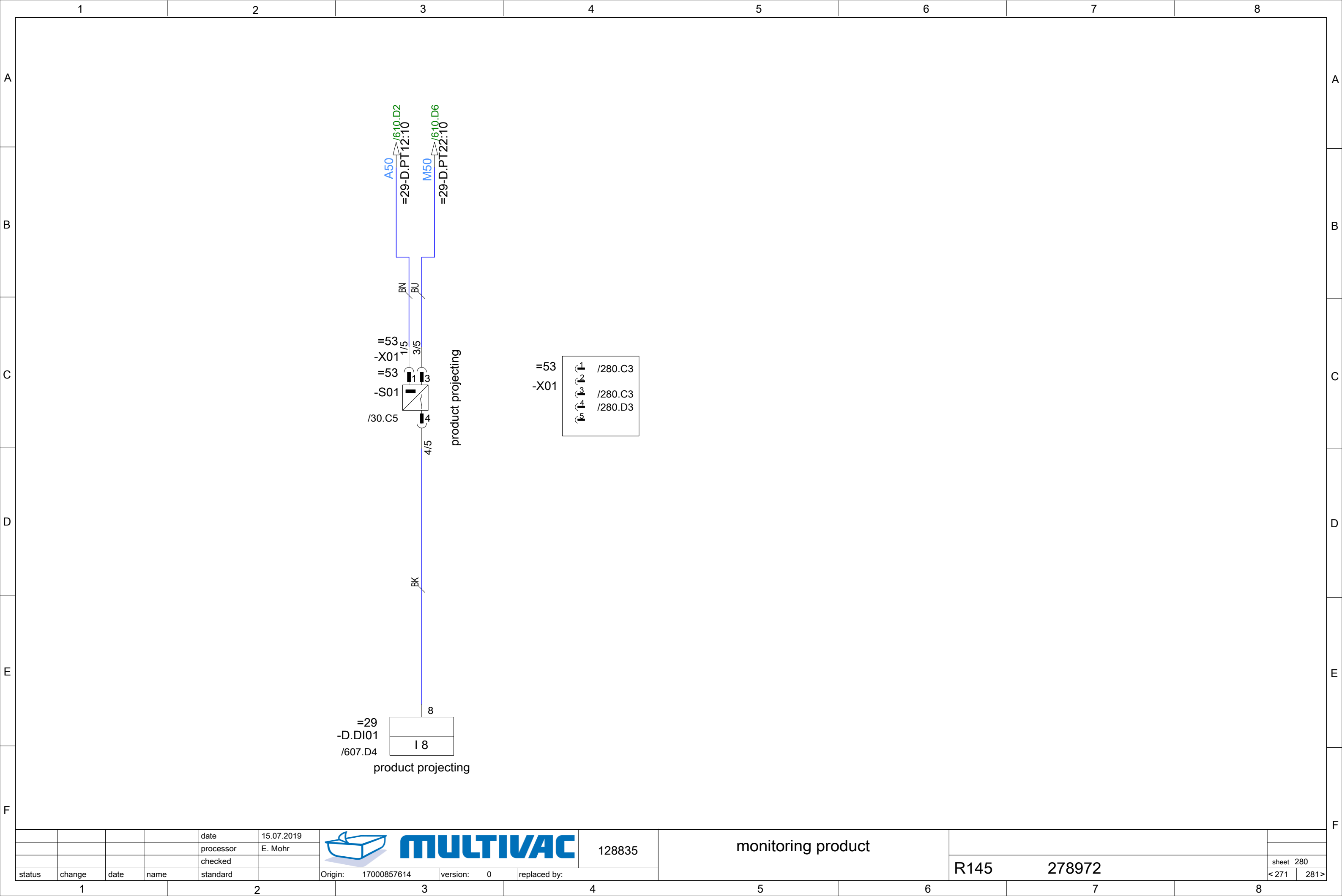


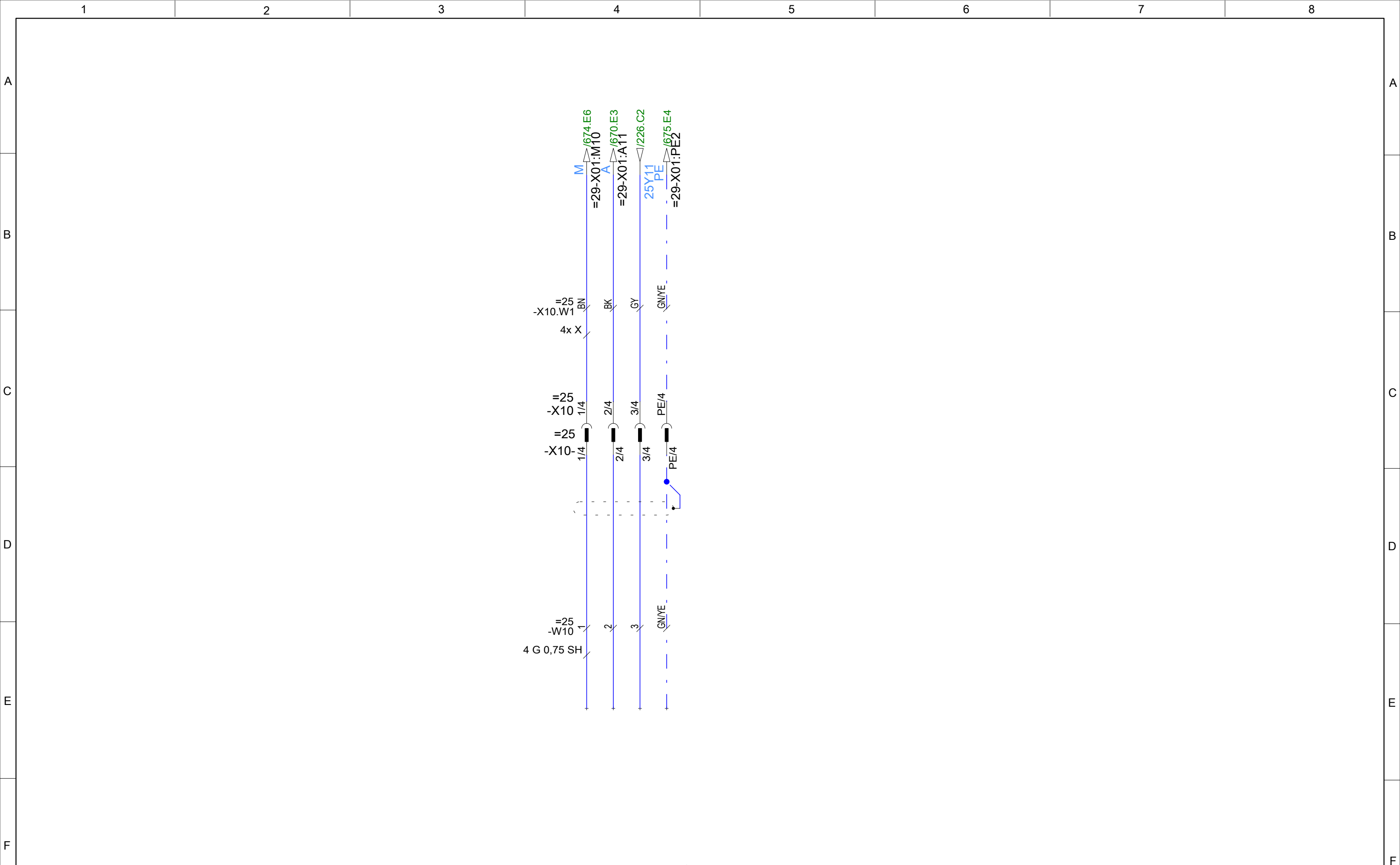


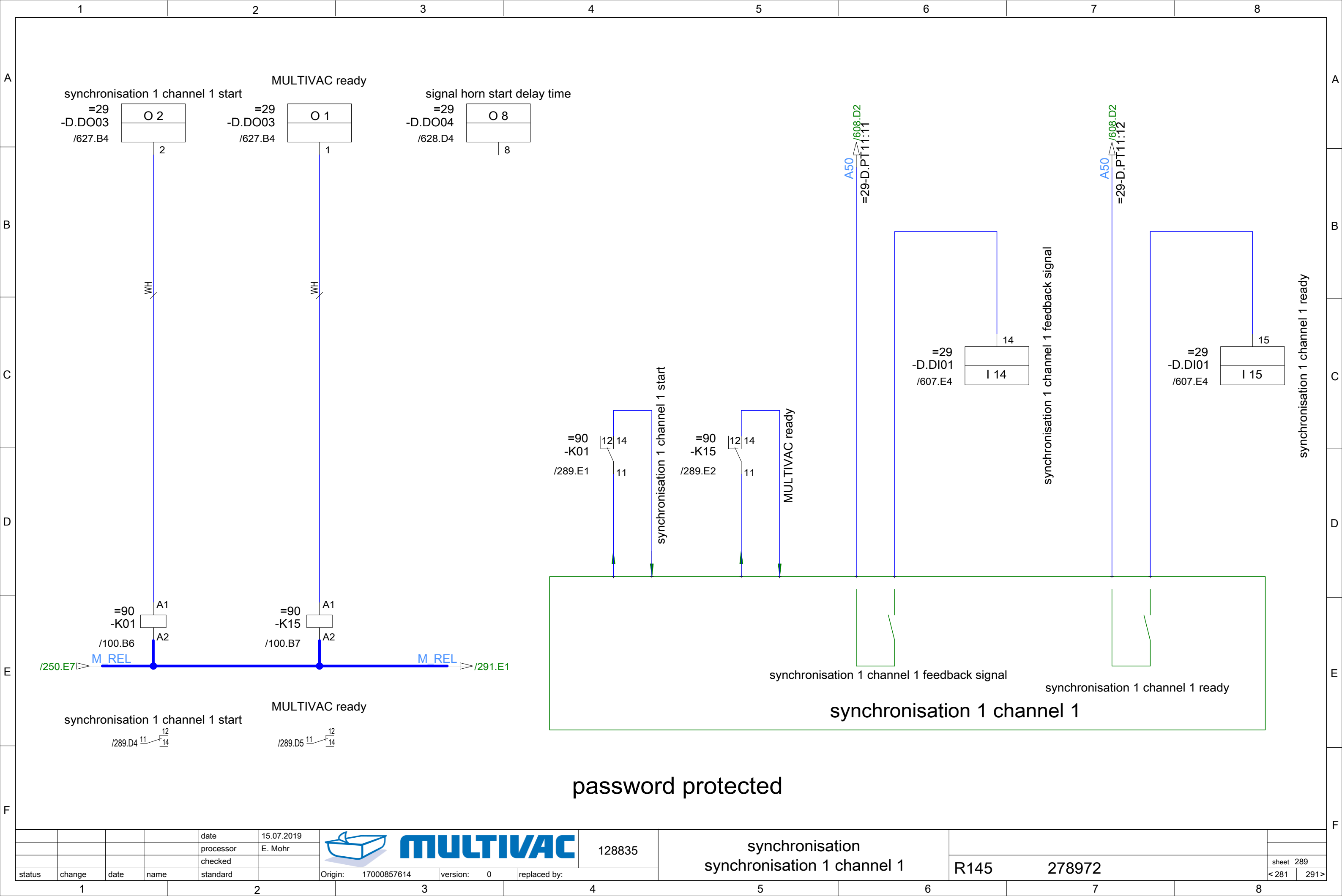







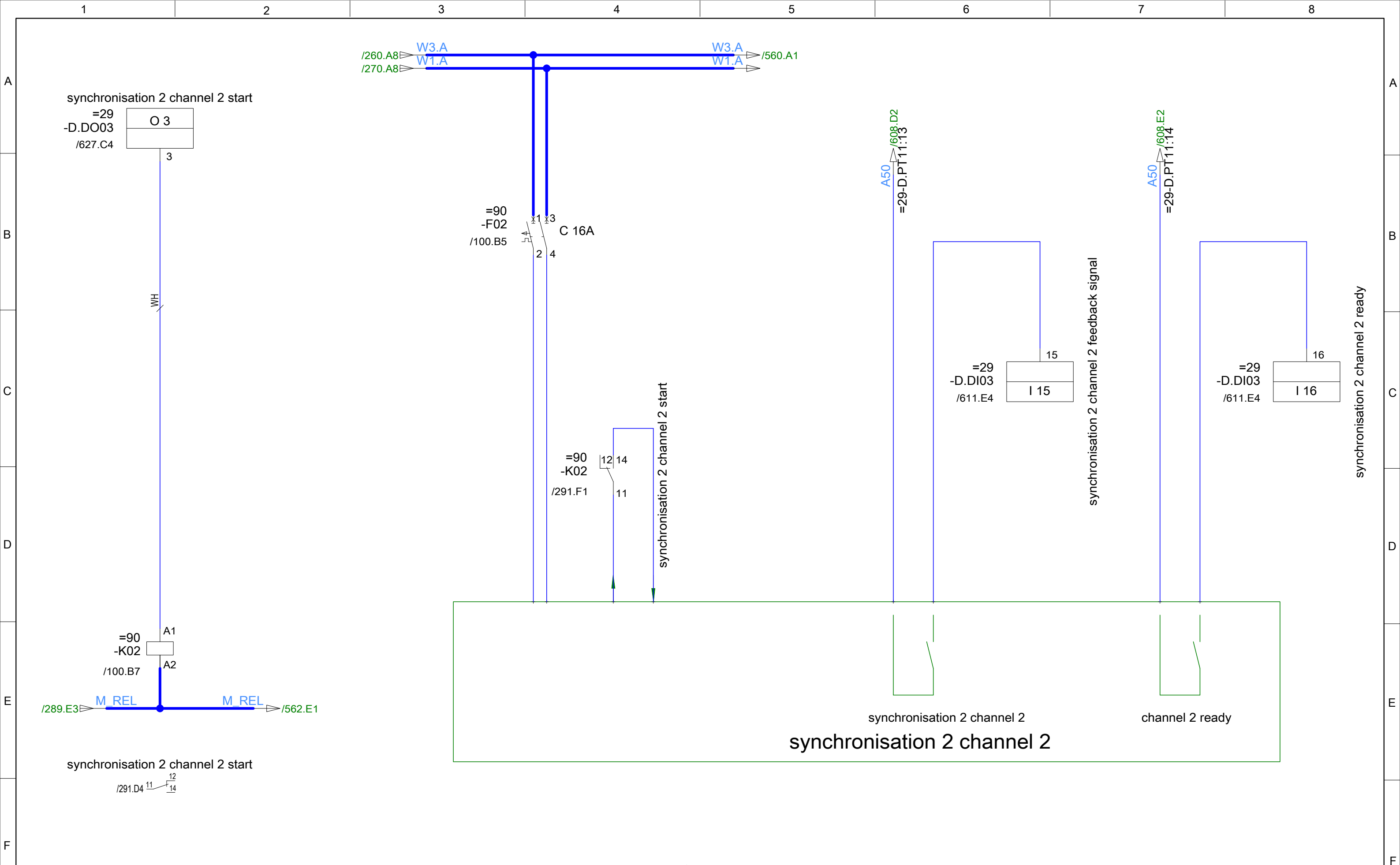


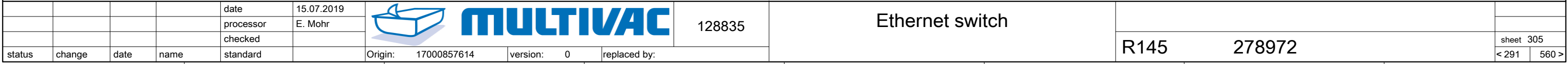


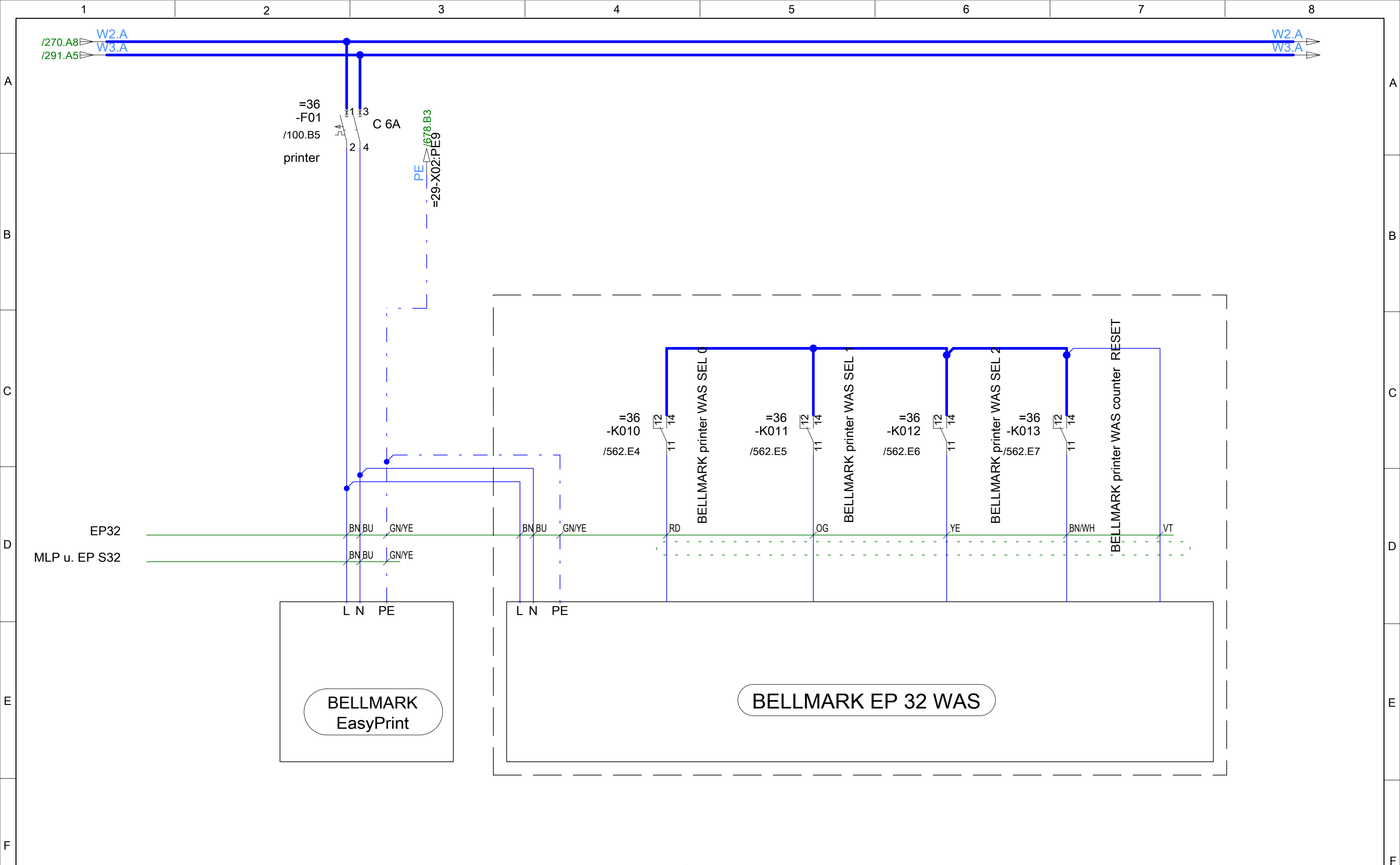


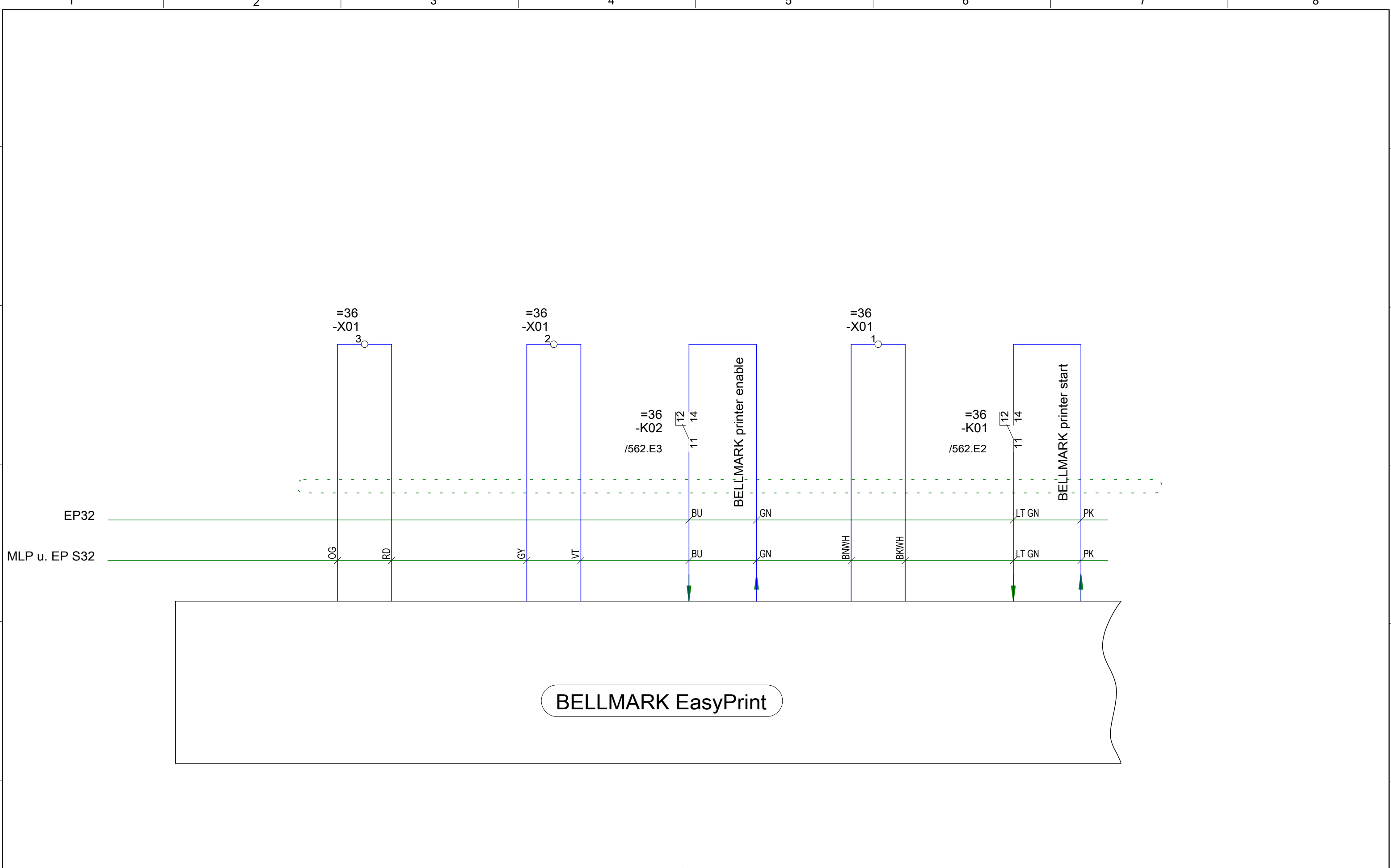
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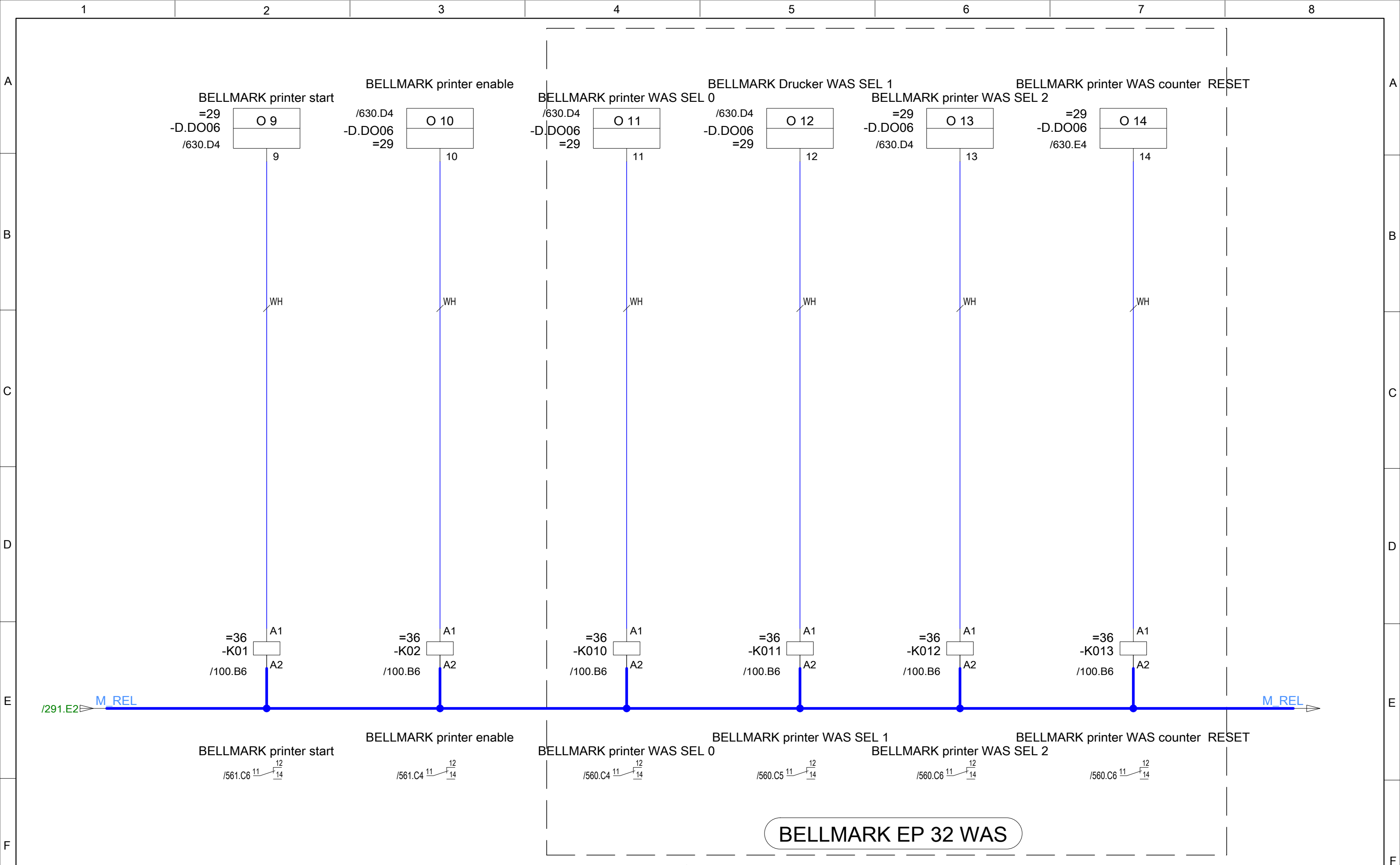
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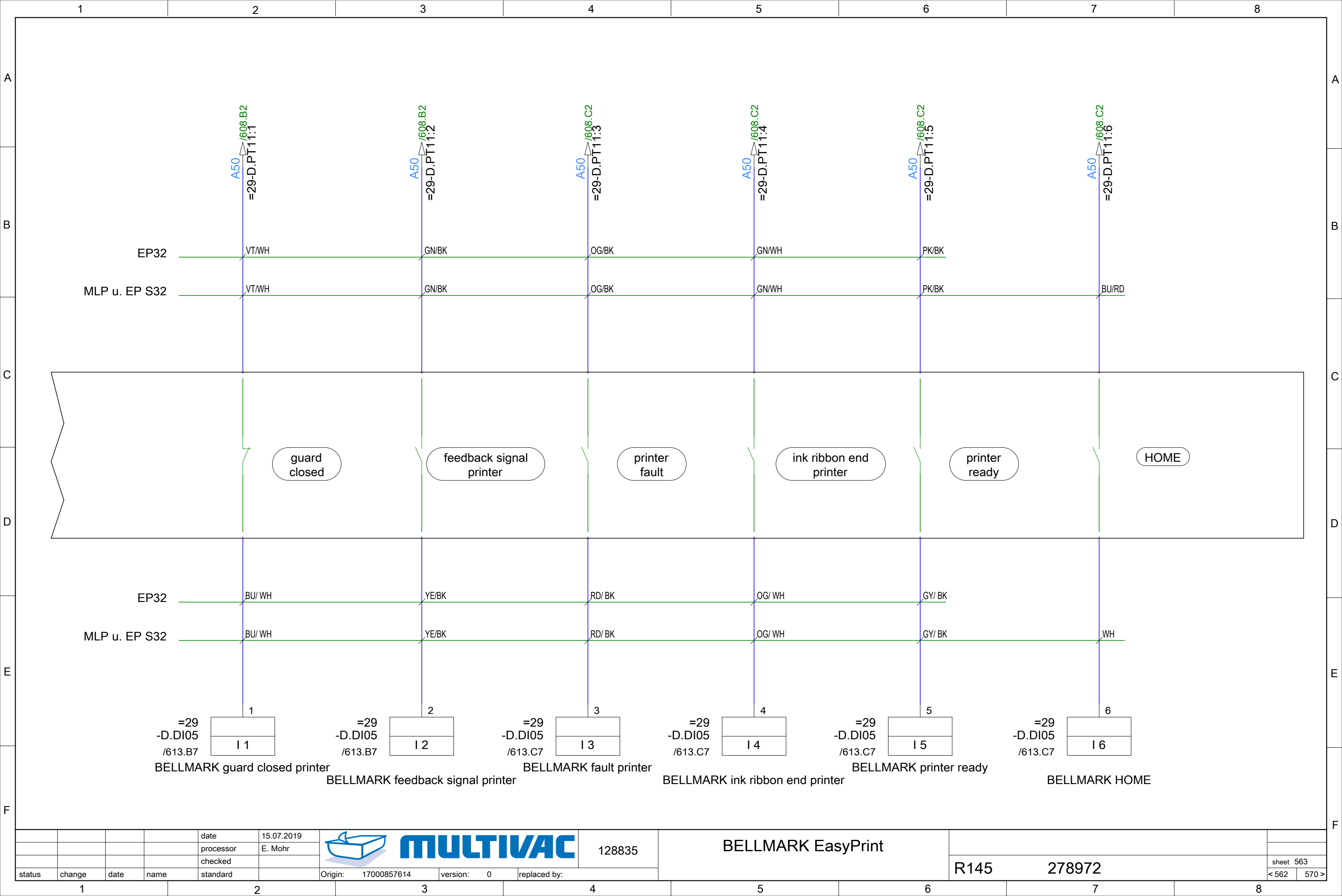


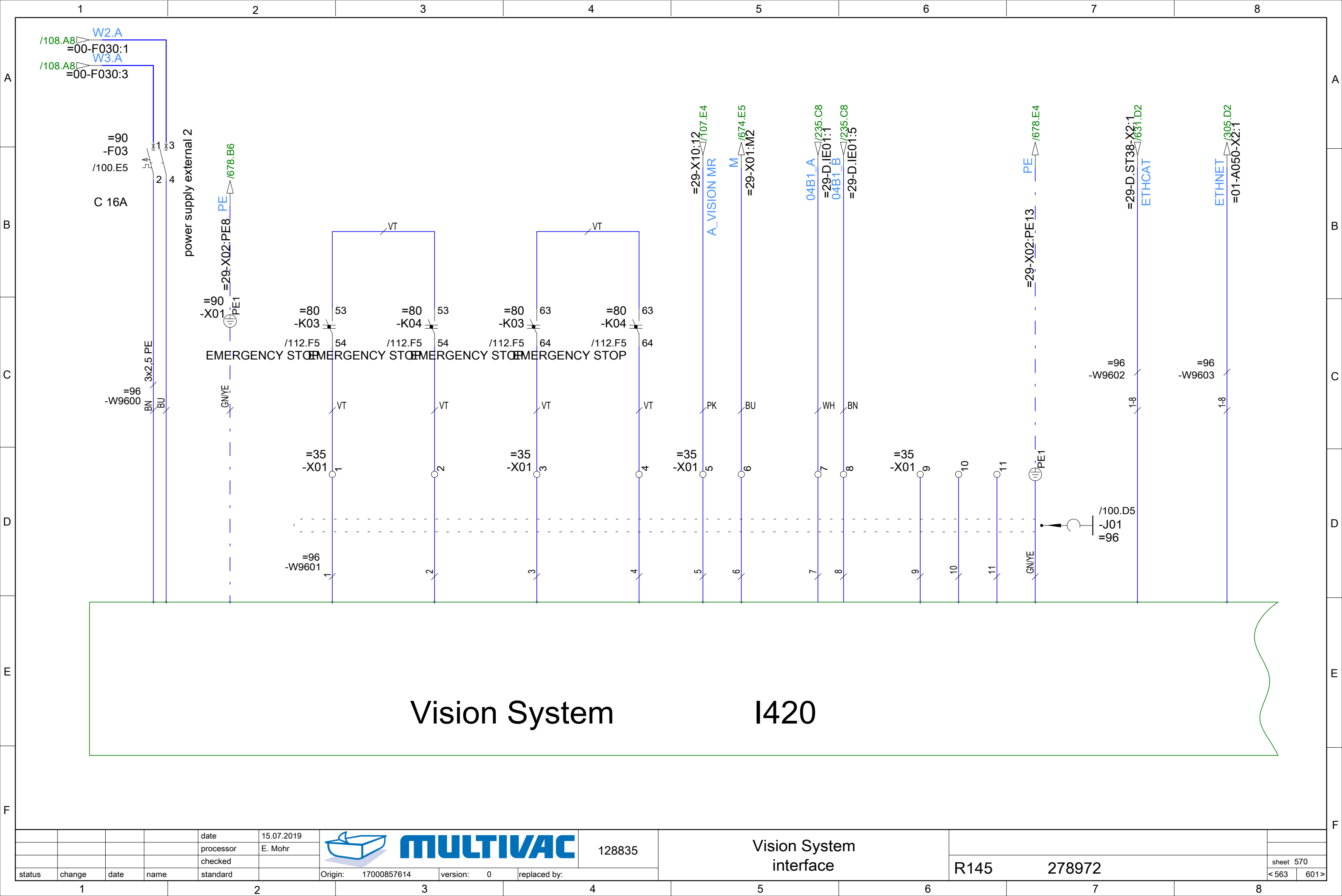




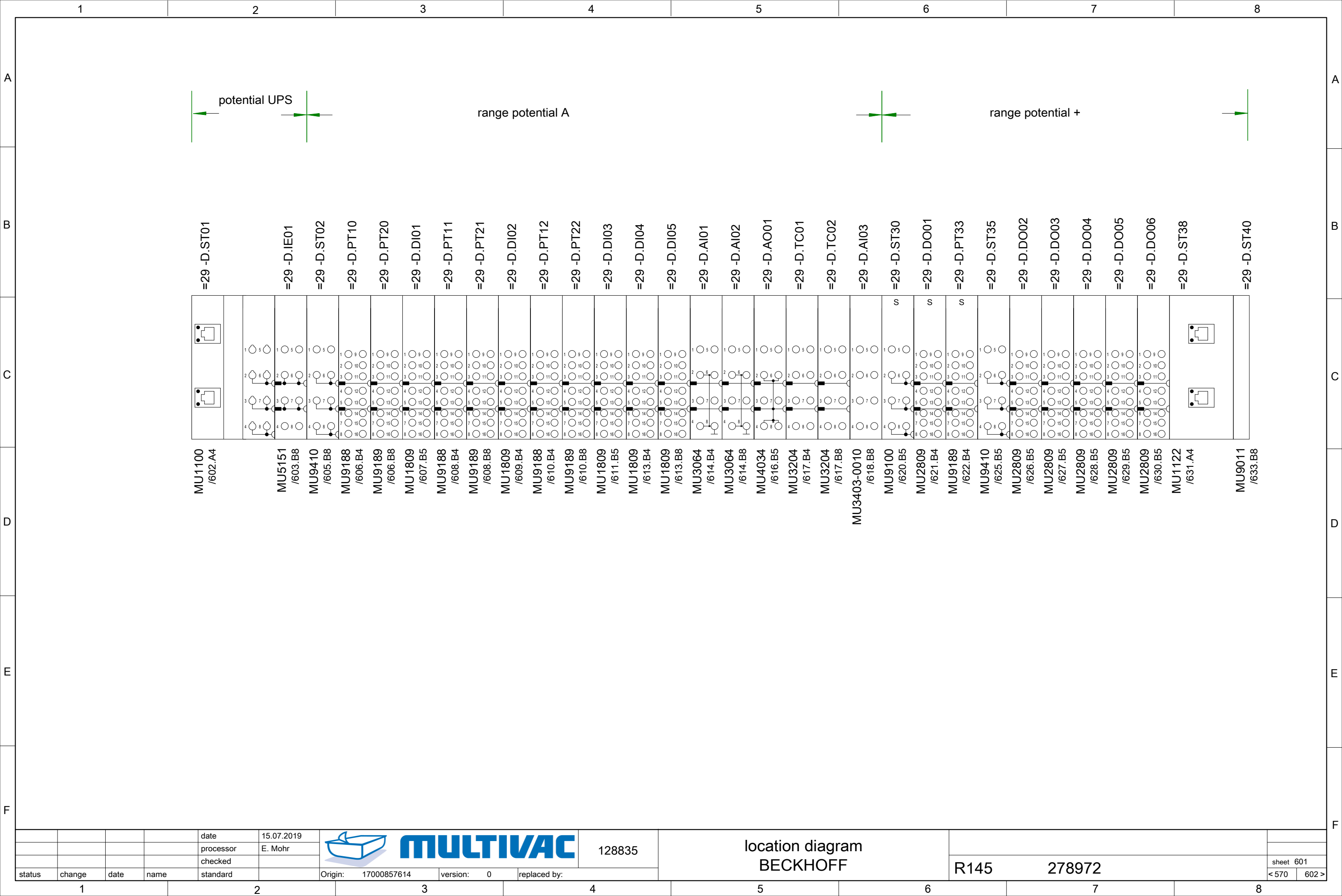


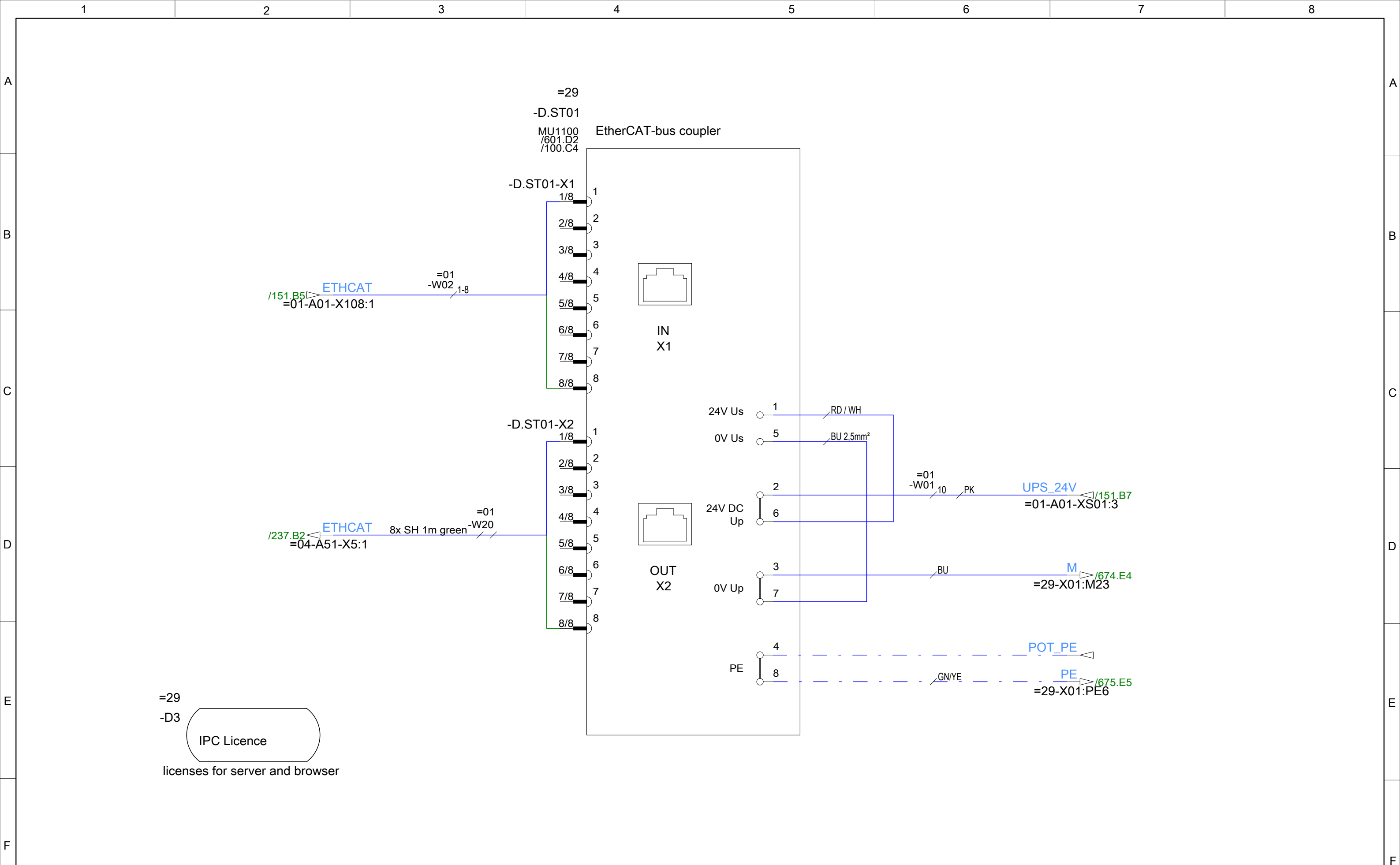


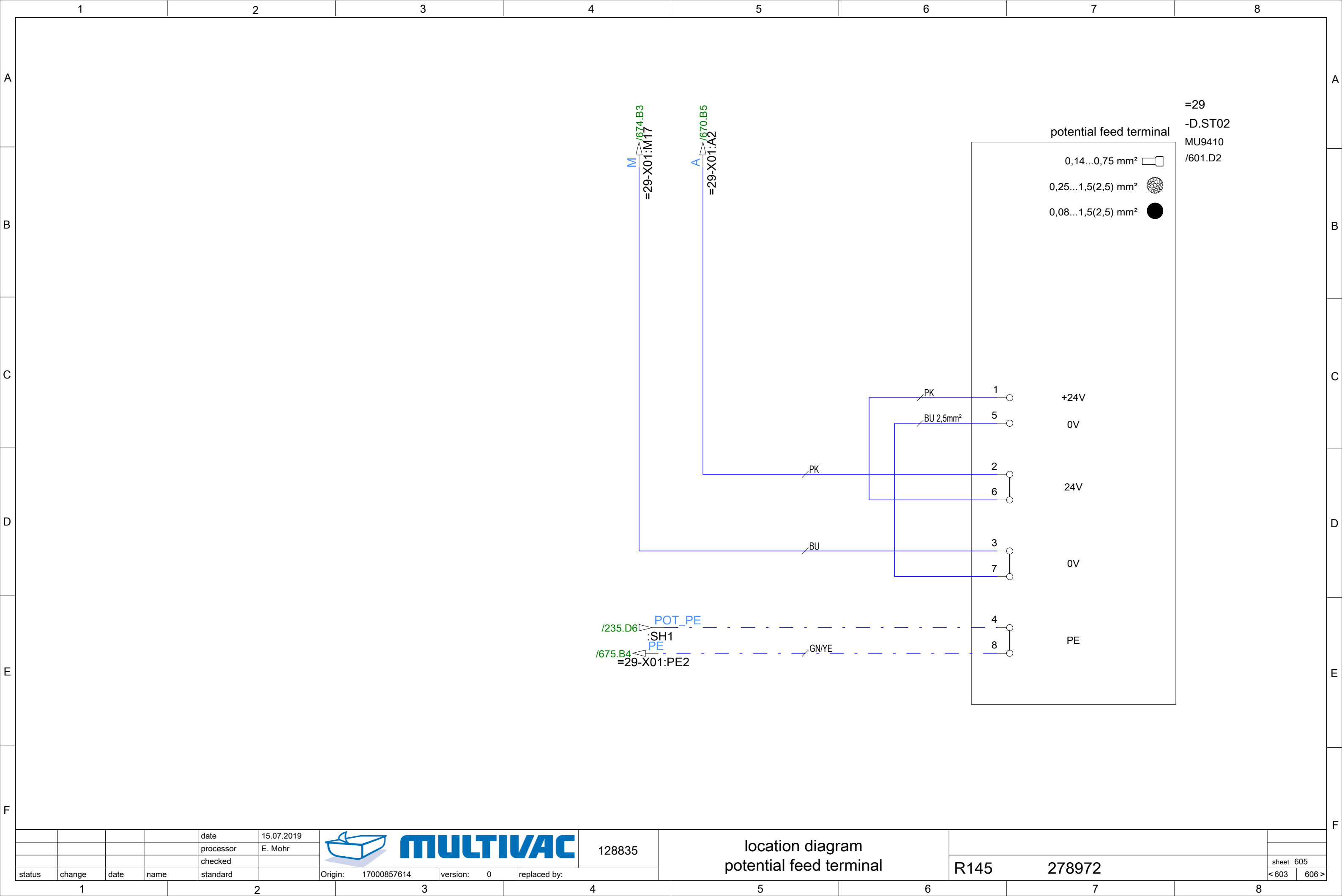


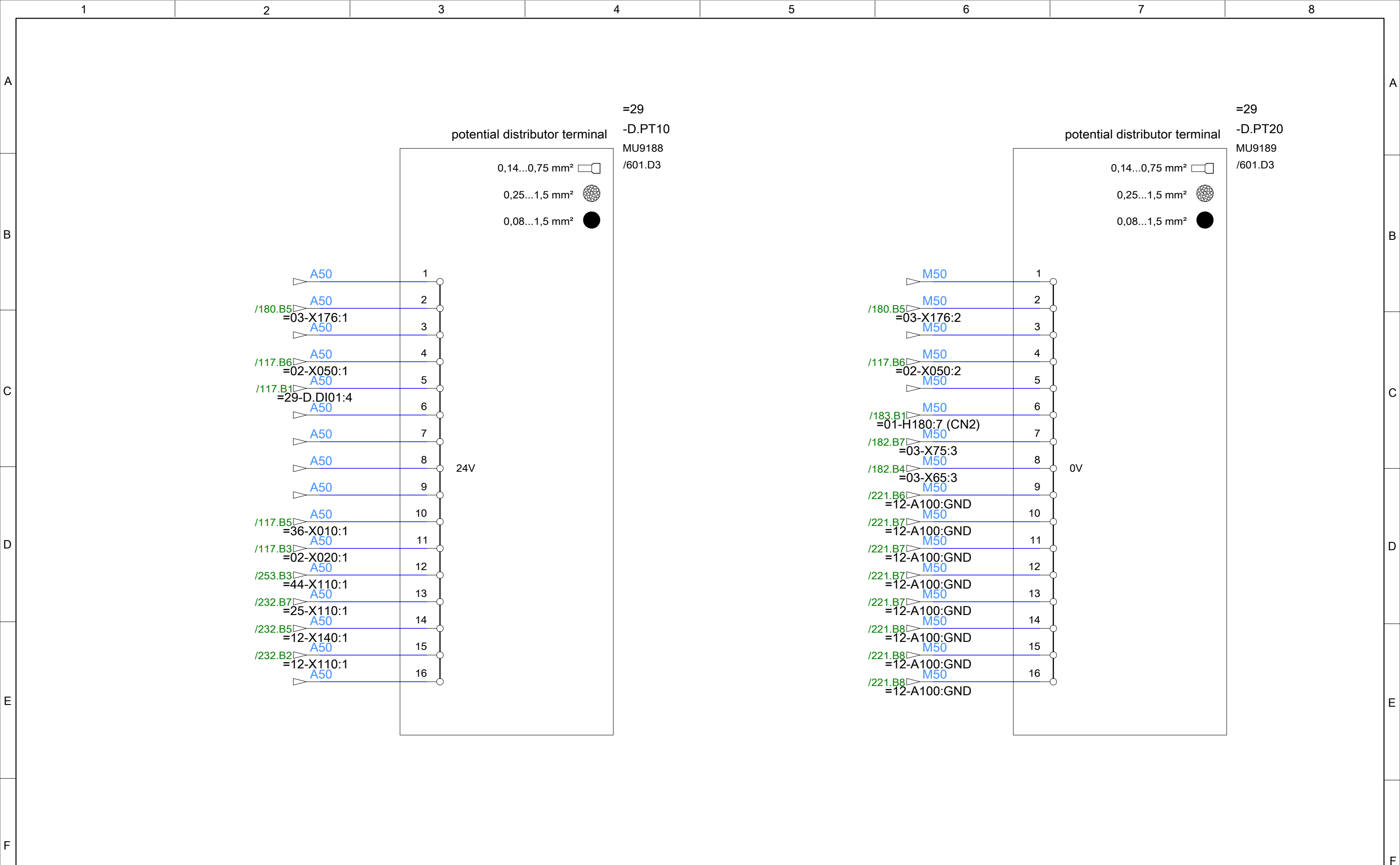


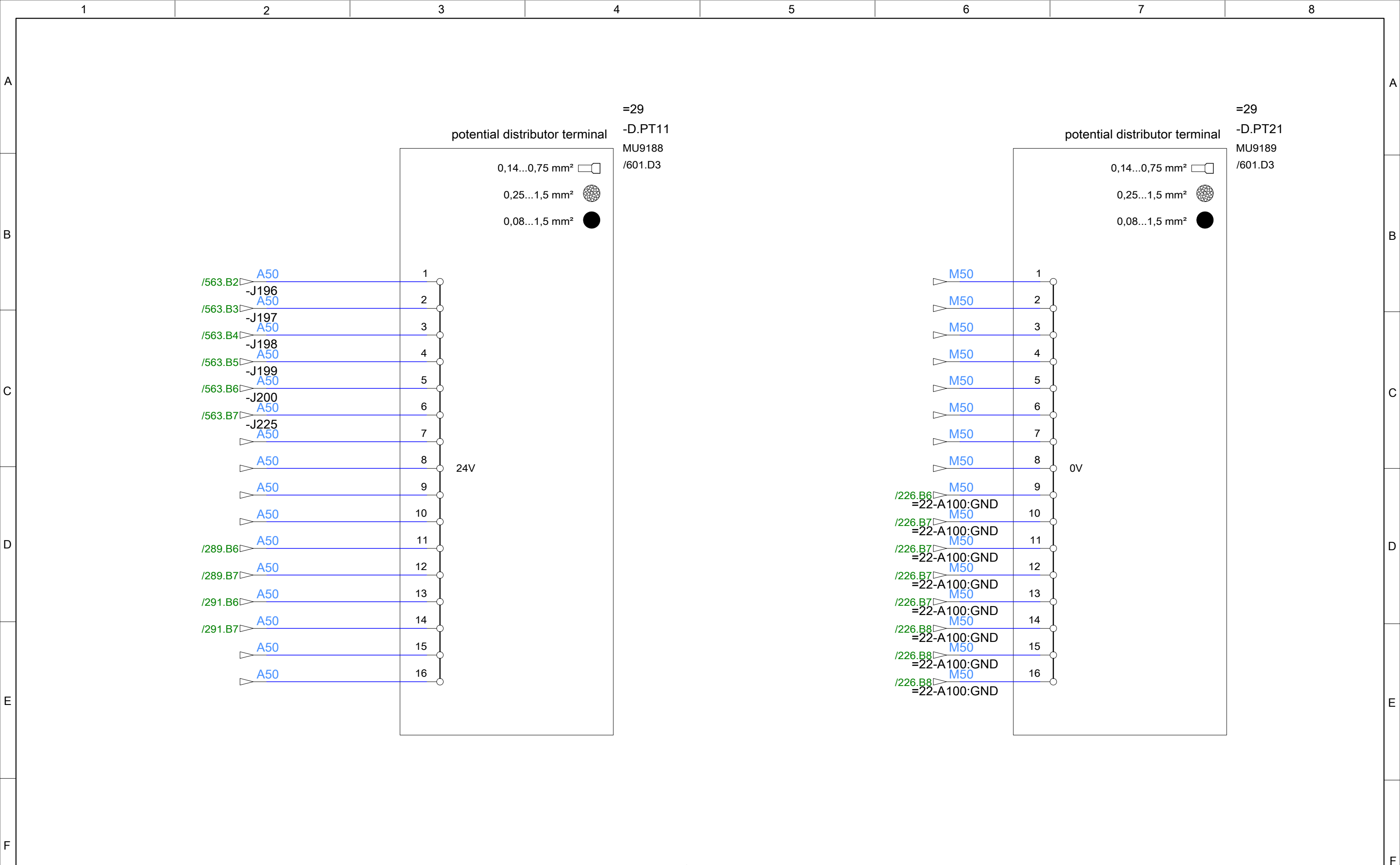
Vision System I420

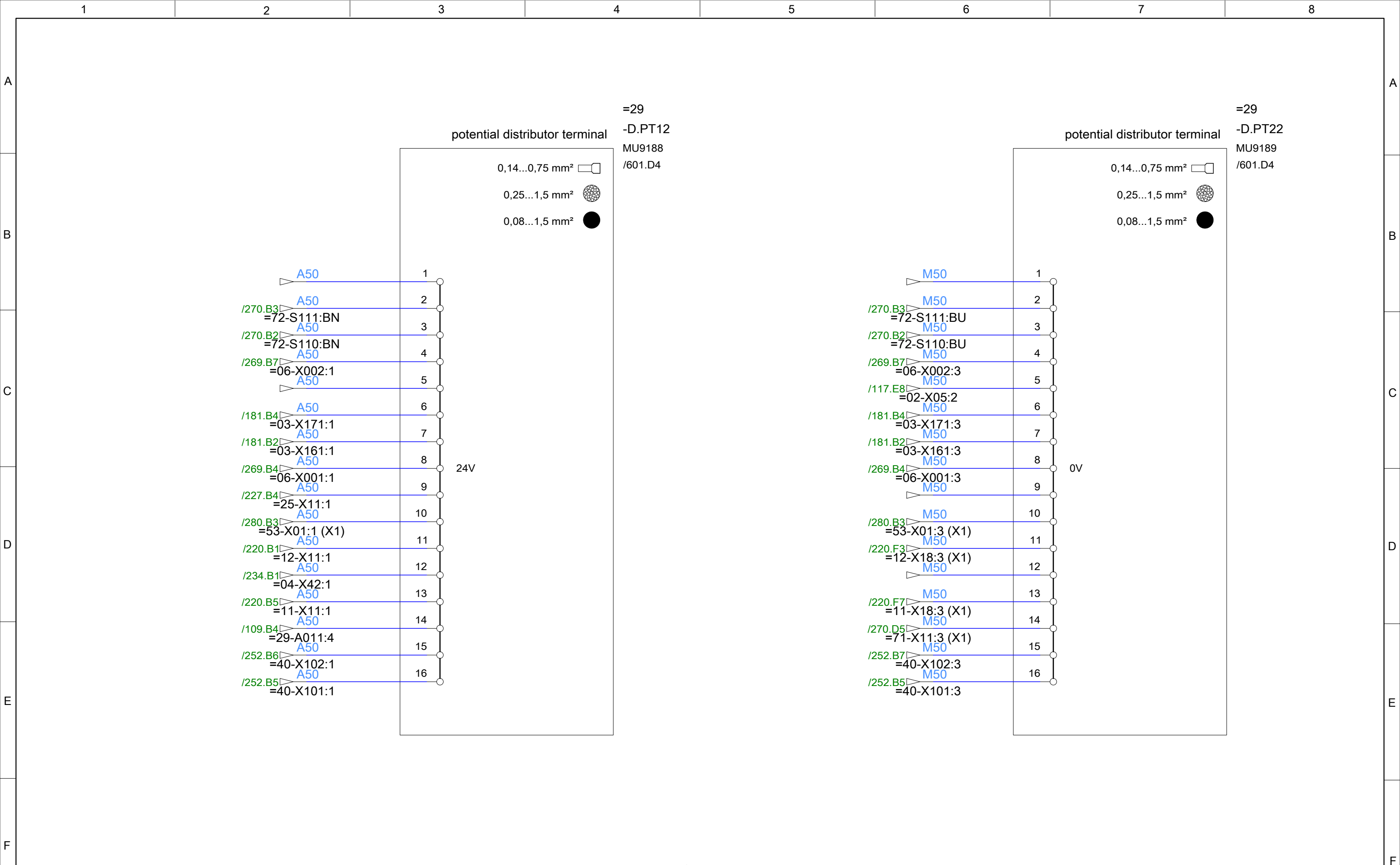


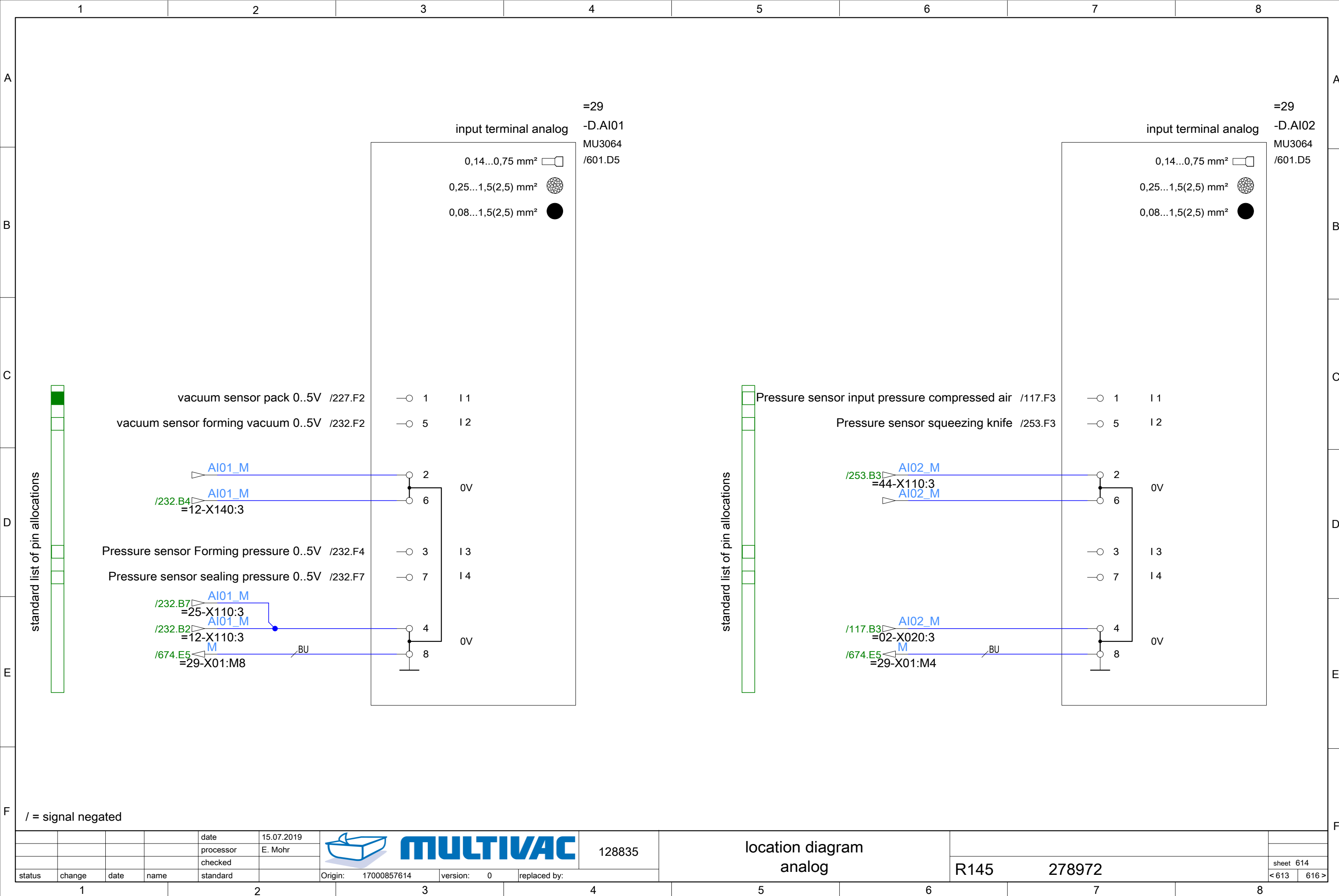


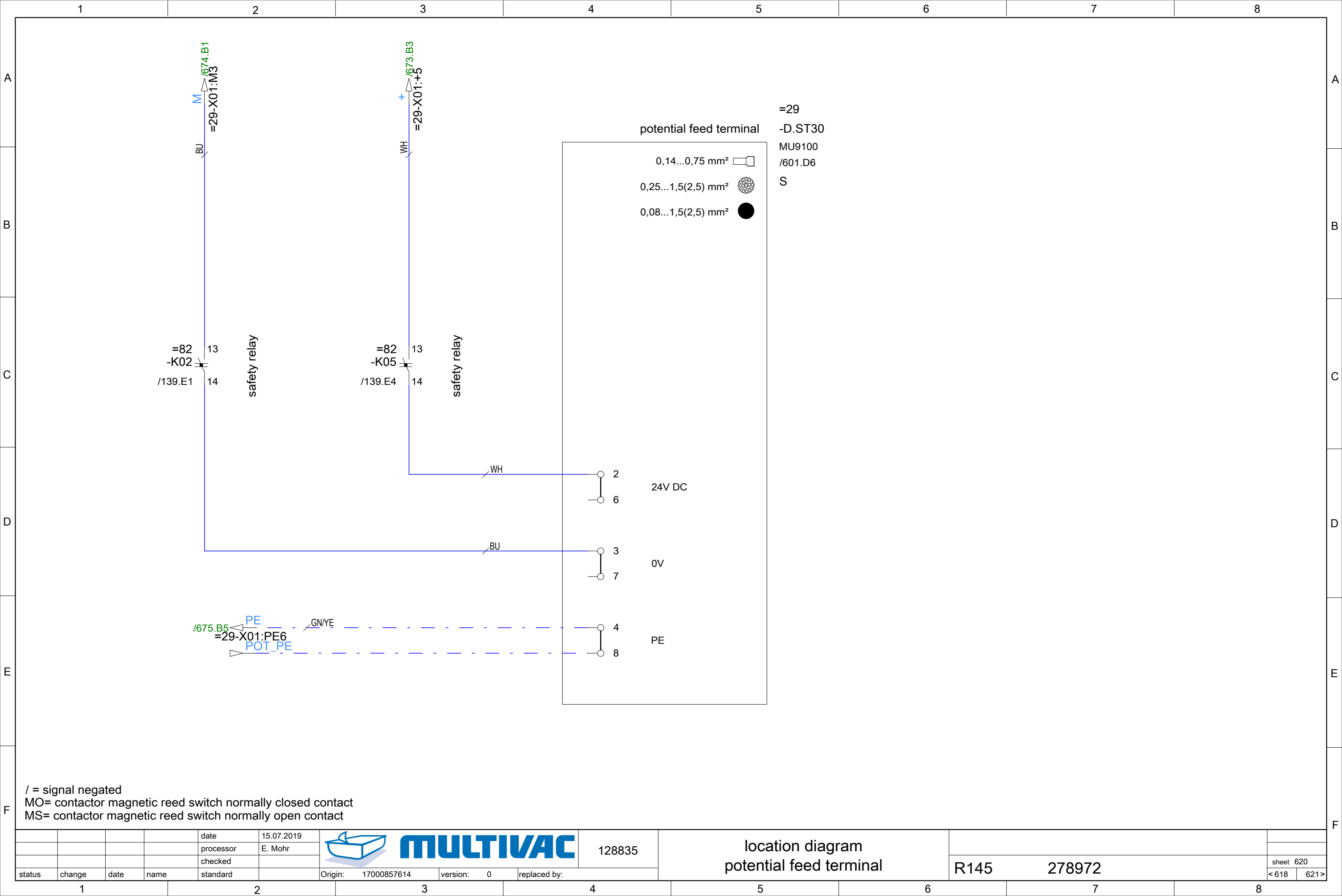


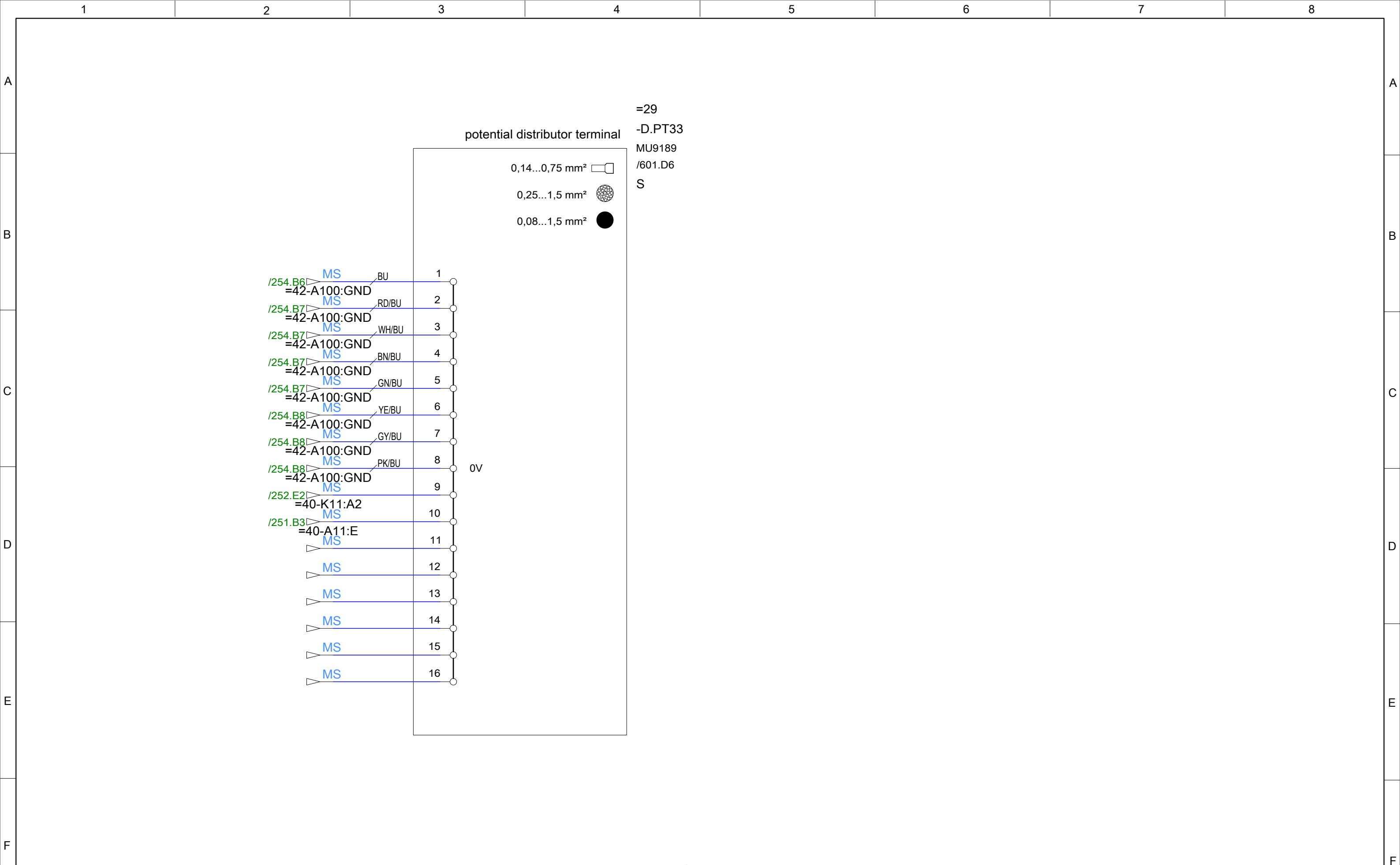


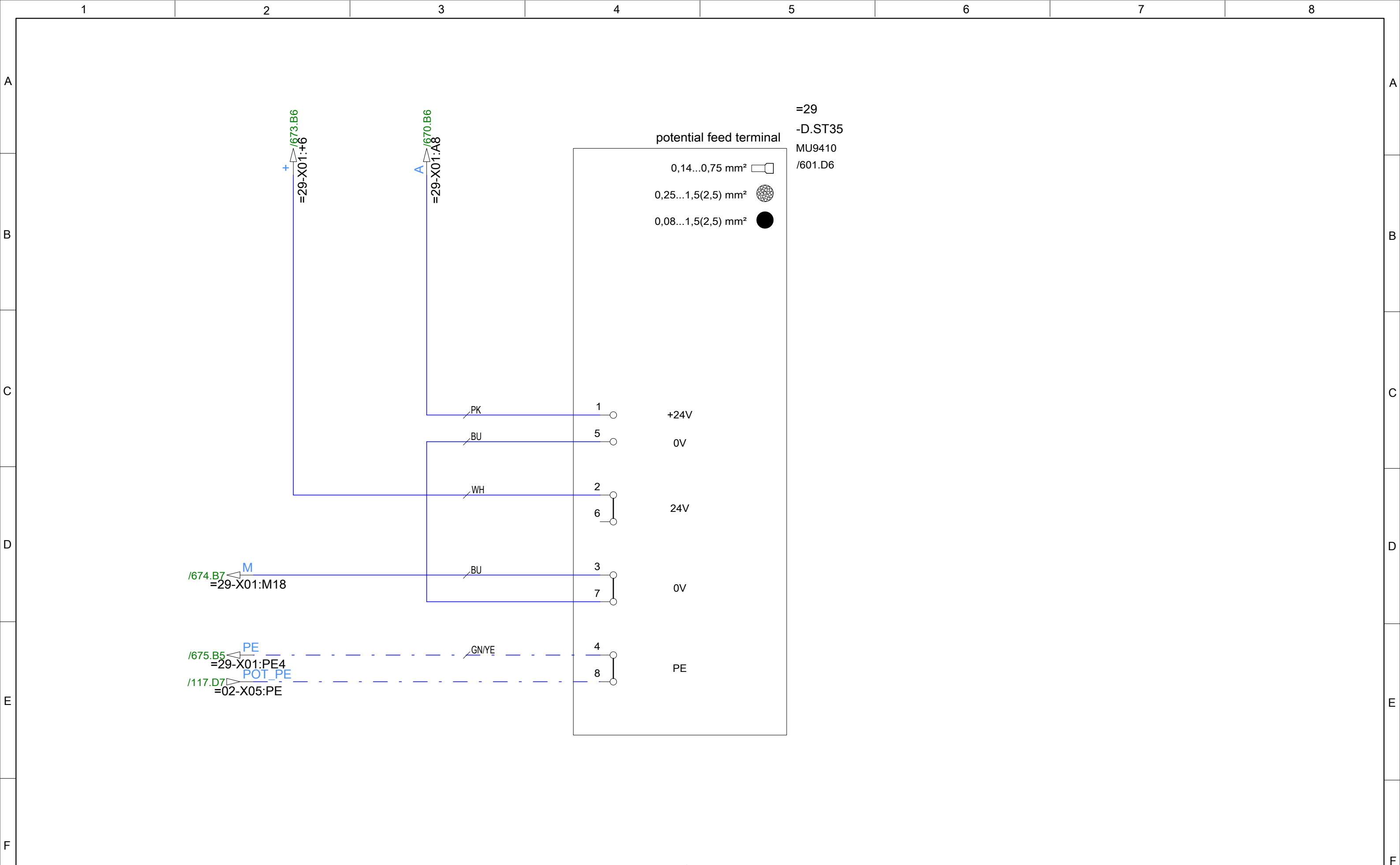


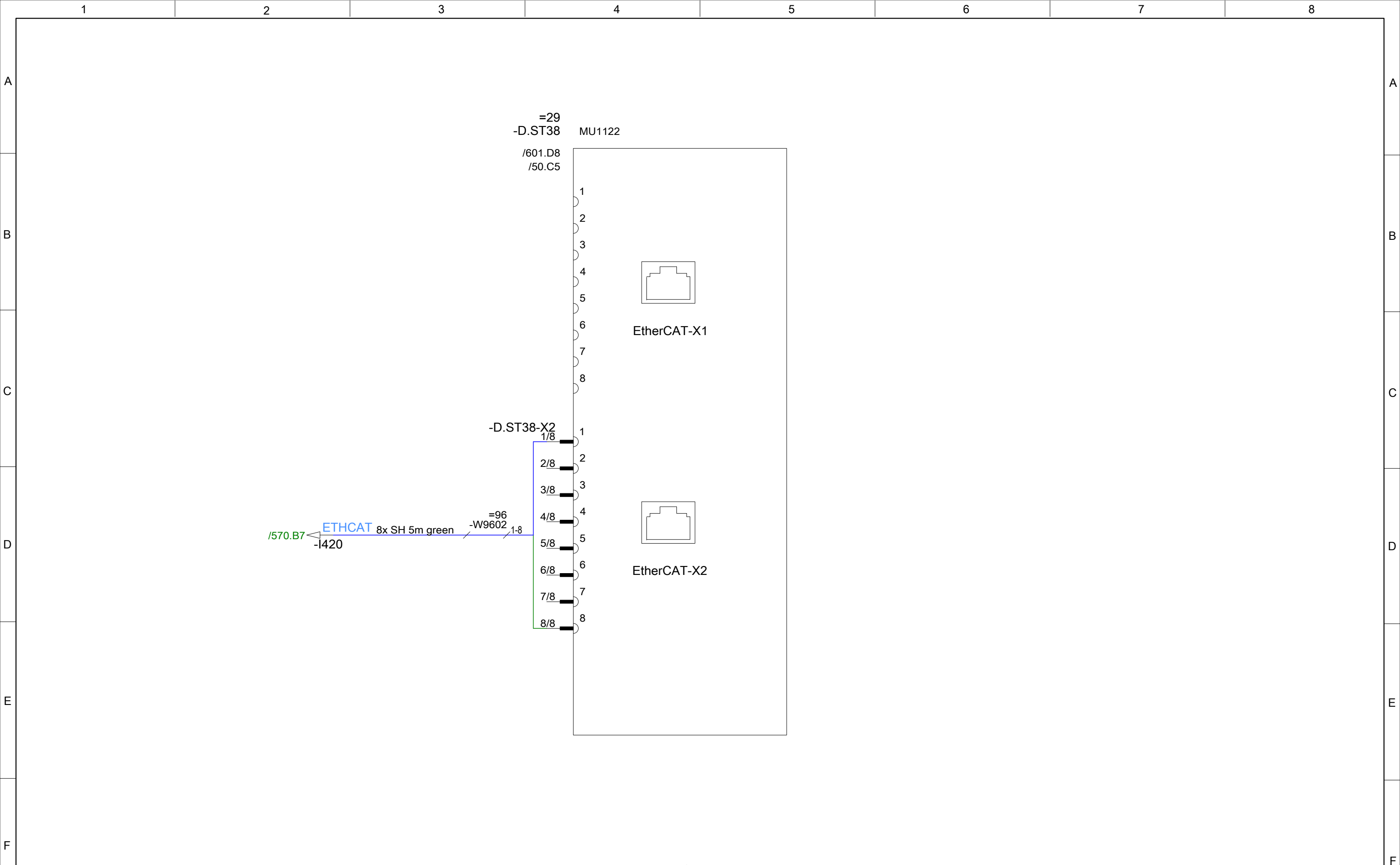


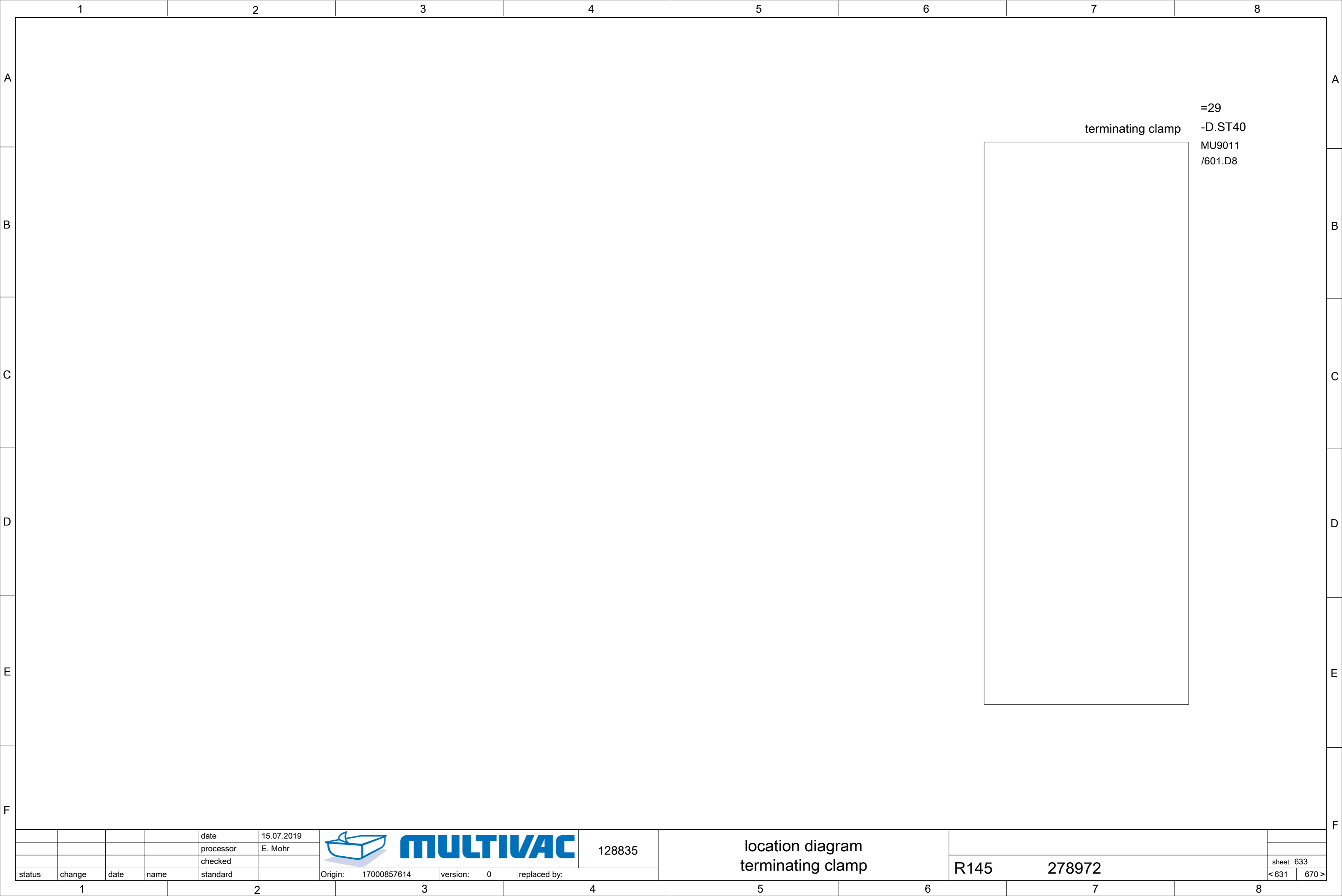









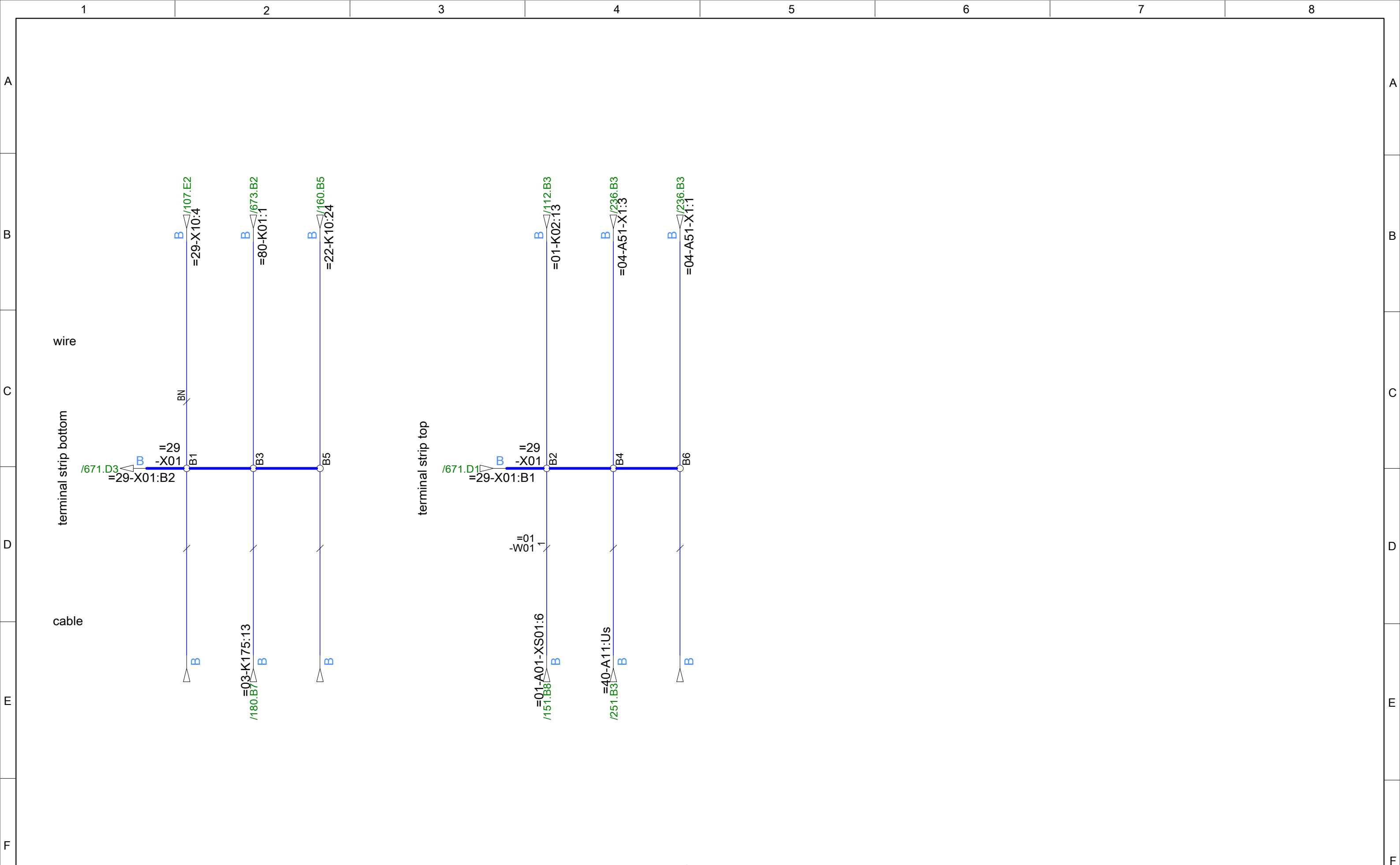


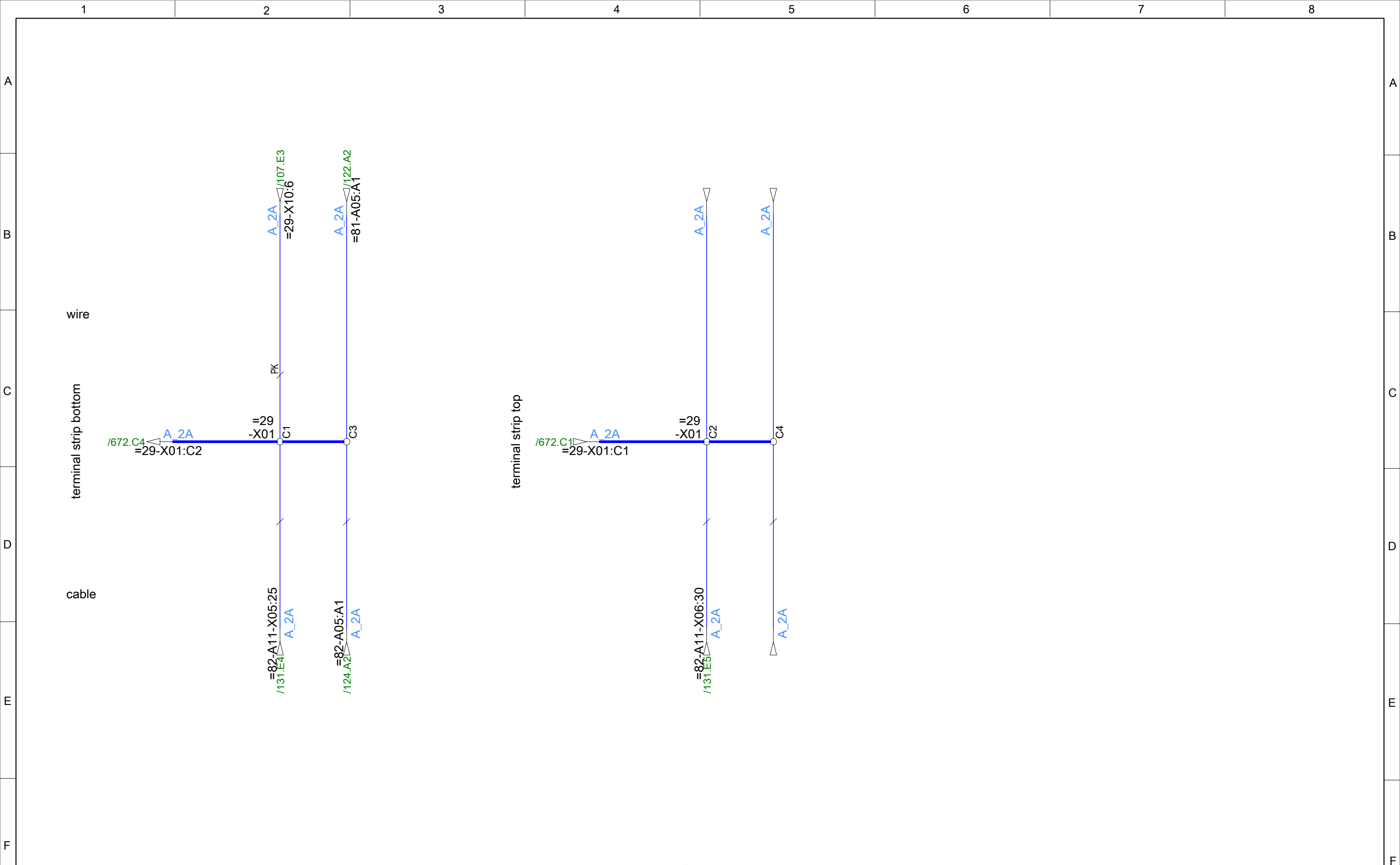



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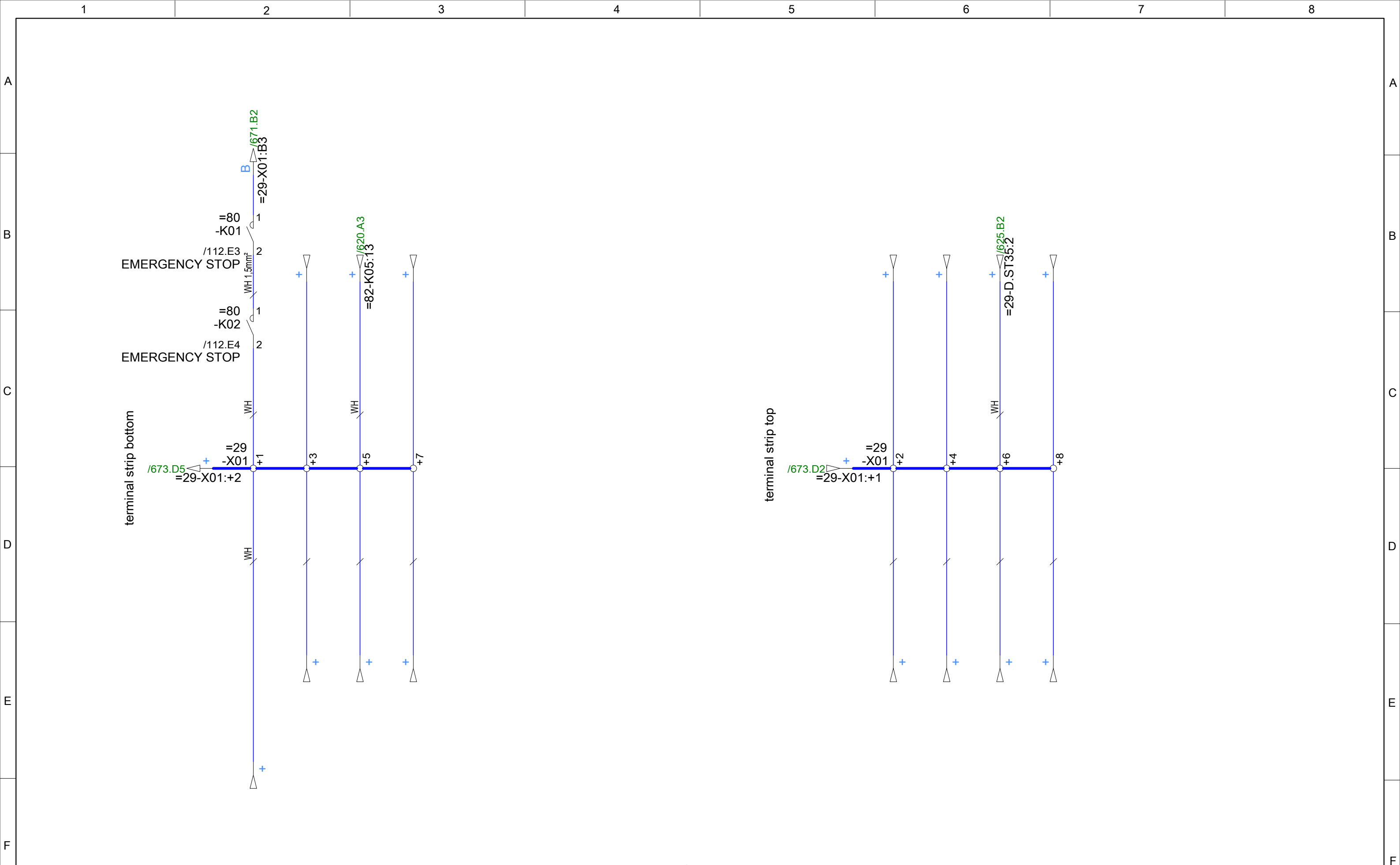
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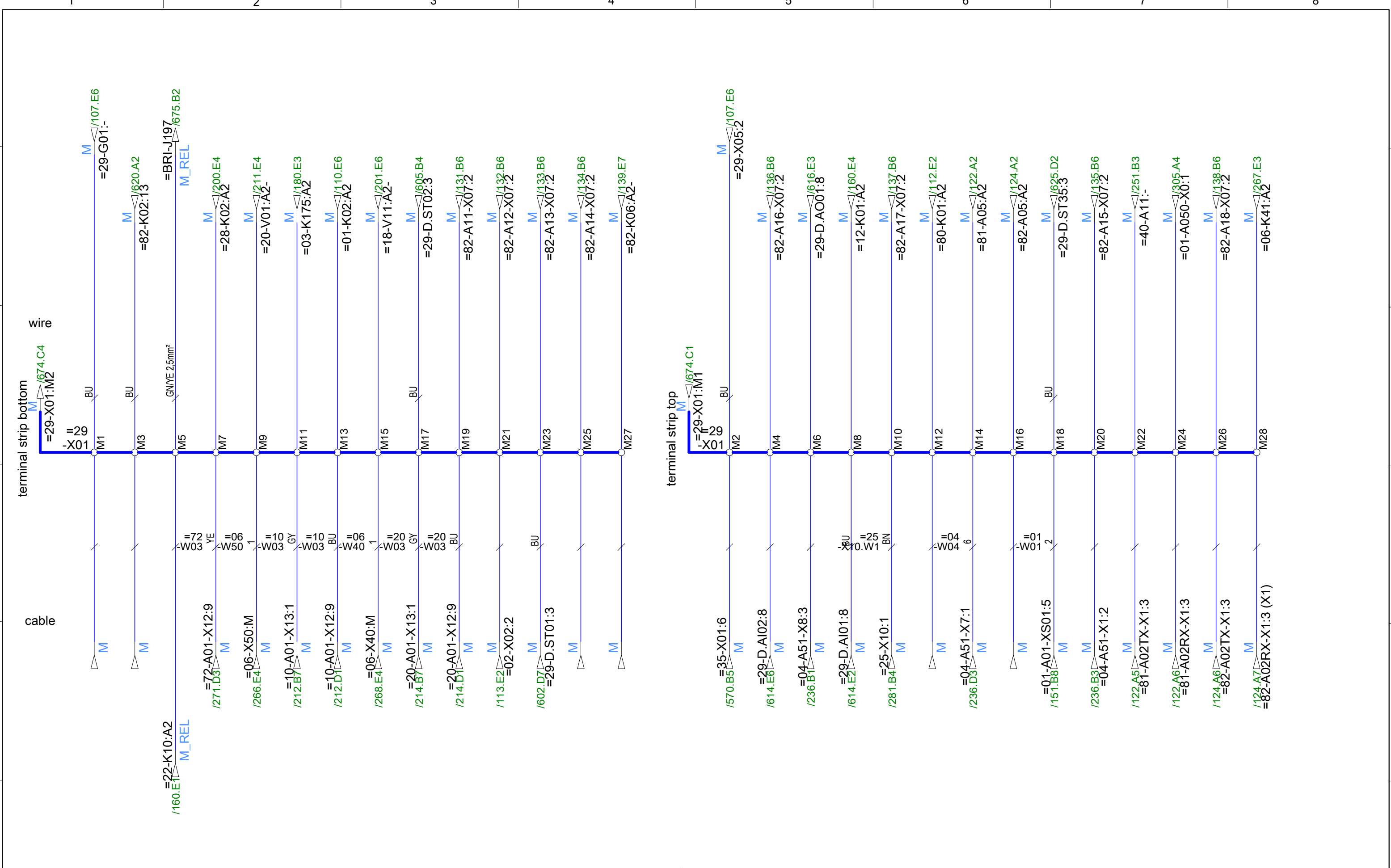


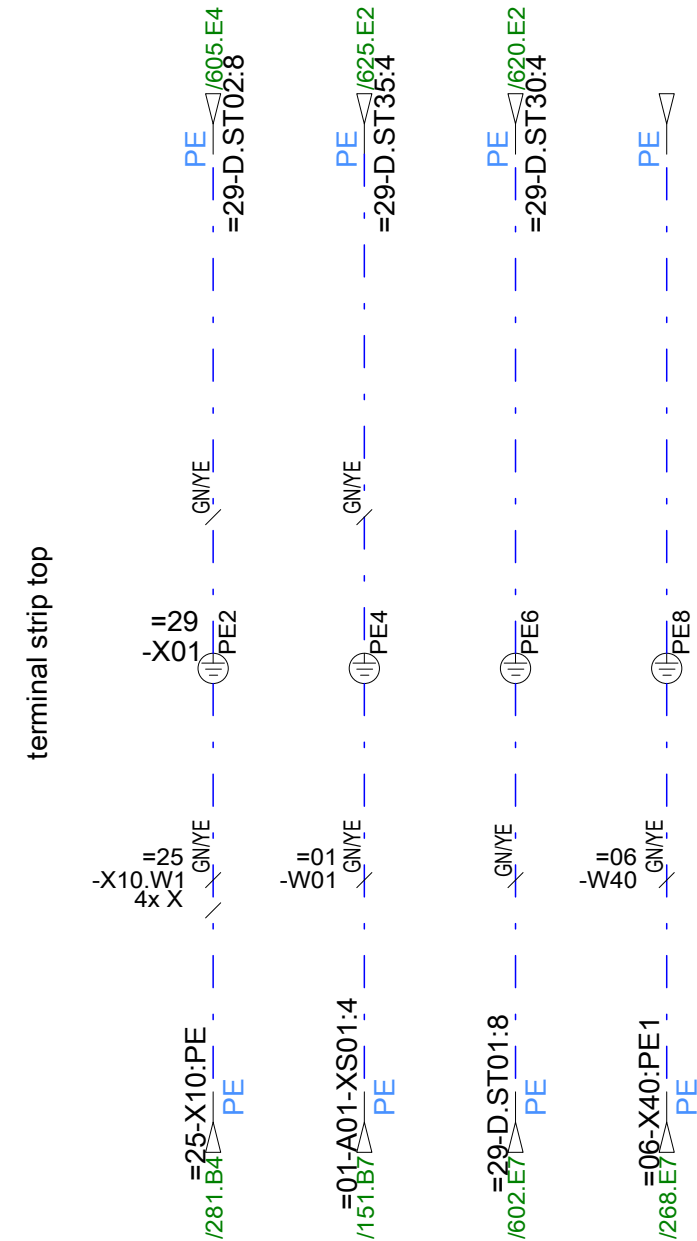
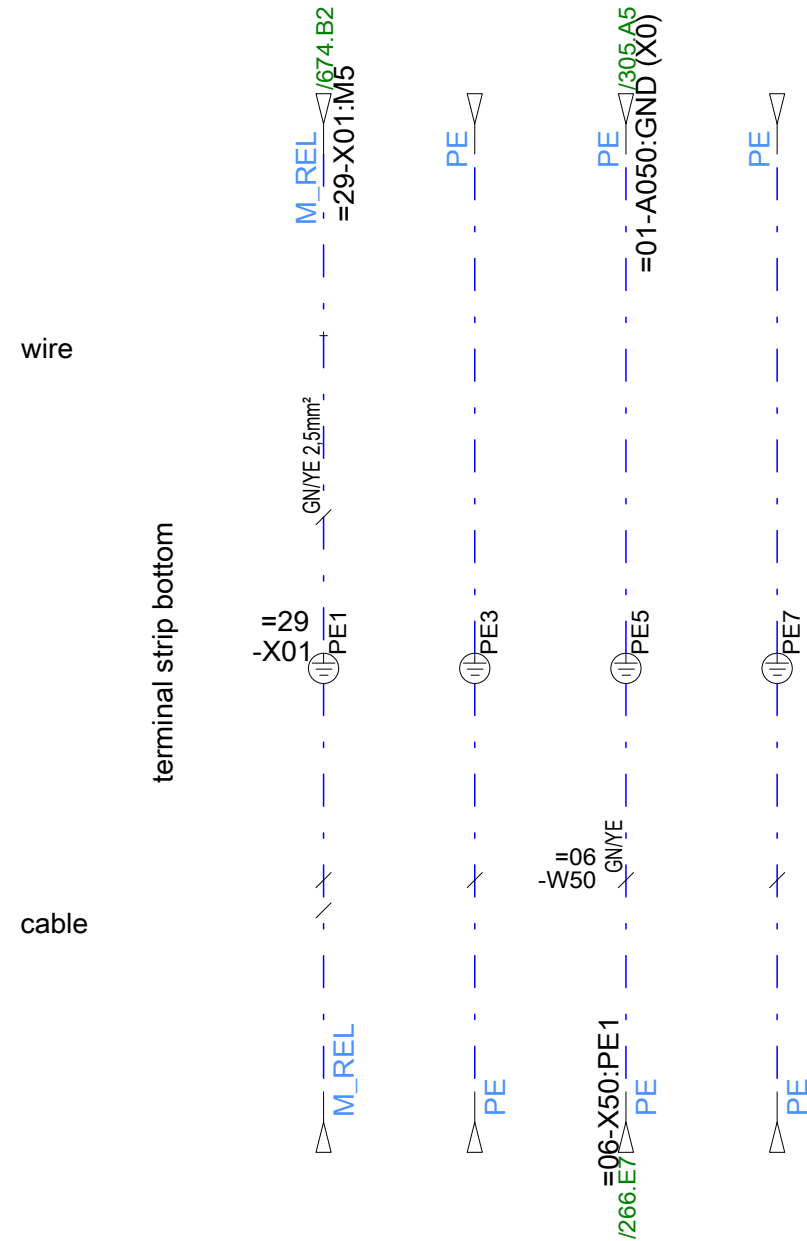


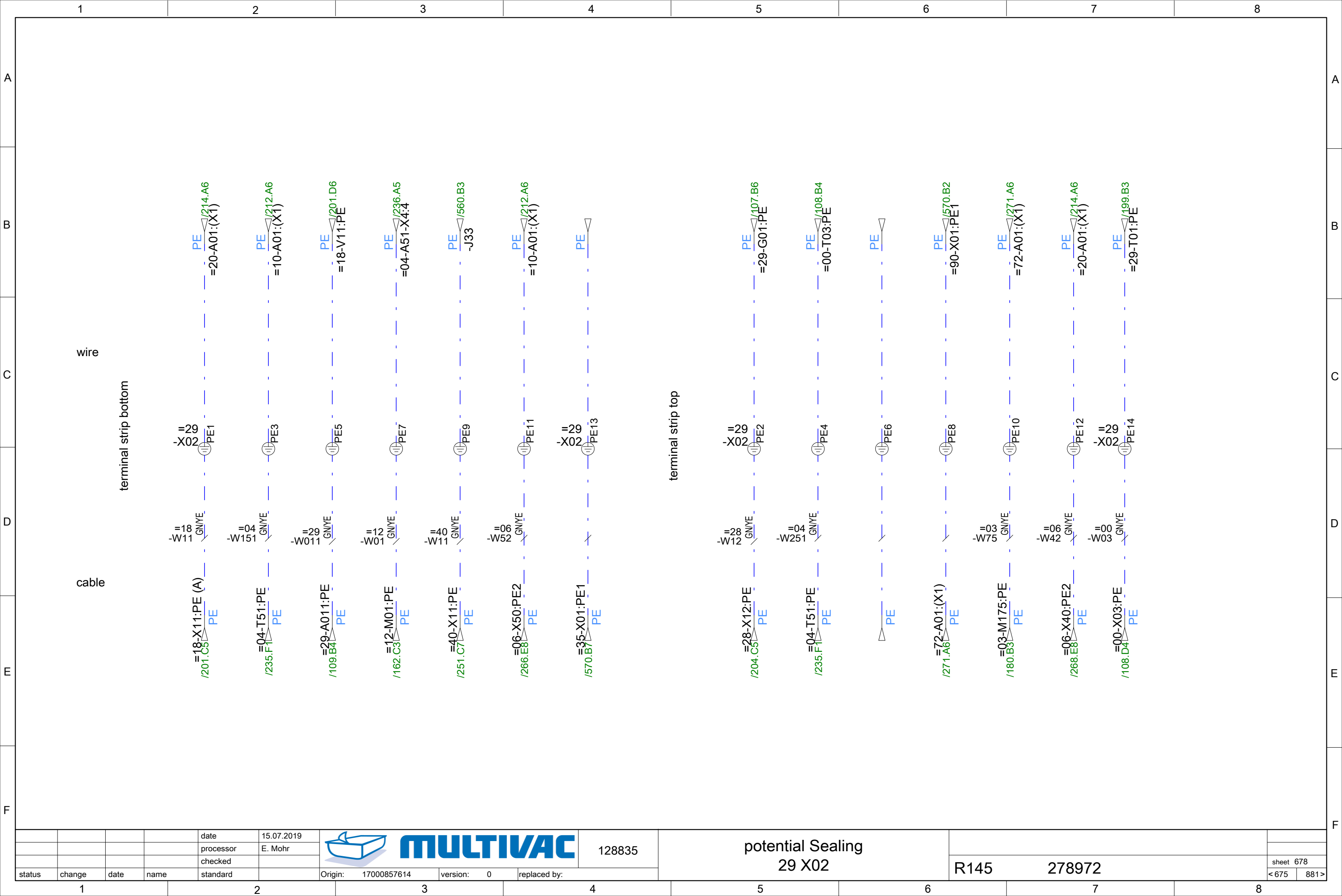


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	1	2	3	4	5	6	7	8
A	cable : =10-W03				cable length (mm) : 2500			
	material number : 85219130007				type : 10x0,25 SH			
	BMK	terminal		core	BMK	terminal		Length (mm)
B	=10-A01-X12 /212.B4	1		WH	=29-D.DO03 /212.B3	12		
	=10-A01-X12 /212.C4	2		BN	=29-D.DO03 /212.B2	9		
	=29-D.DO03 /212.B1	10		GN	=10-A01-X12 /212.C4	3		
	=10-A01-X12 /212.C4	8		YE	=29-X01 /670.D3	A15		
	=10-A01-X13 /212.B6	1		GY	=29-X01 /674.C2	M11		
C	=29-D.DI03 /212.B7	1		PK	=10-A01-X13 /212.B6	2		
	=10-A01-X12 /212.C4	9		BU	=29-X01 /674.C2	M13		
	=29-D.DI03 /212.B8	2		RD	=10-A01-X13 /212.B6	3		
	=29-X01 /670.D3	A13		BK	=10-A01-X13 /212.B6	5		
				VT				
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D								
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								=Z
								sheet KE_2
	status	change	date	name	standard		Origin: 17000857614	version: 0
							replaced by:	
	1	2	3	4	5	6	7	8



MULTIVAC

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Cable list
=10-W03

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	1	2	3	4	5	6	7	8	
A	cable : =12-W100								
	cable length (mm) : 1000								
	material number : 105410826								
	type : 40x0,34 5M								
	BMK	terminal		core	BMK	terminal		Length (mm)	
B				BN/BK					
				GY/GN					
				YE/GY					
				PK/GN					
				YE/PK					
	=29-D.PT20 /606.D6	13		GN/BU	=12-A100 /221.E7	GND			
	=29-D.PT20 /606.E6	14		YE/BU	=12-A100 /221.E7	GND			
C				GN/RD					
				YE/RD					
				GN/BK					
				YE/BK					
	=29-D.PT20 /606.E6	15		GY/BU	=12-A100 /221.E7	GND			
	=29-D.PT20 /606.E6	16		PK/BU	=12-A100 /221.E8	GND			
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E									
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				date	15.07.2019			=Z	
				processor	E. Mohr				
				checked					
	status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:
	1	2	3	4	5	6	7	8	



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	=03-K175 /180.C7				14								GY/PK				=03-Y71 /180.E7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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A	cable : =96-W9601				cable length (mm) : 10000										
	material number : 85219040076				type : 12x0,75 PE+SH AWG18										
	BMK	terminal		core	BMK	terminal		Length (mm)							
B	-J113886 /570.E2			1	=35-X01 /570.D2	1									
	=35-X01 /570.D3	2		2	-J113887 /570.E3										
	=35-X01 /570.D4	3		3	-J113888 /570.E4										
	=35-X01 /570.D4	4		4	-J113889 /570.E4										
	=35-X01 /570.D5	5		5	-J113884 /570.E5										
	=35-X01 /570.D5	6		6	-J113885 /570.E5										
	=35-X01 /570.D5	7		7											
C	=35-X01 /570.D6	8		8											
	=35-X01 /570.D6	9		9	-J113881 /570.E6										
	=35-X01 /570.D6	10		10	-J113882 /570.E6										
	=35-X01 /570.D6	11		11	-J113883 /570.E6										
	=35-X01 /570.D7	PE1		GN/YE	-J113880 /570.E7										
				SH1											
D															
E															
F															
				date	15.07.2019			=Z							
				processor	E. Mohr										
				checked											
	status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:		Cable list =96-W9601		R145 278972		sheet KE_11
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A	BMK			sheet path		material number		designation	function text					A							
B	-J190	/34.C2			105599190		terminal box							B							
	-J193	/34.C2			108230772		Connection cables														
C	=00-F030	/108.A4			105128760		automatic circuit breaker		socket					C							
	=00-F031	/108.D4			105128769		automatic circuit breaker		socket												
D	=00-J01	/100.A6			107337137		angle union							D							
	--00-J01				105568373		reducer														
E	--00-J01				105568232		reducer							E							
	--00-J01				85131114915		screwed cable gland														
F	--00-J01				85131114914		screwed cable gland							F							
	=00-J2	/103.C3			105516908		insulating tube		insulating tube orange												
G	=00-Q01	/103.C2			105712714		Main switch		Main switch					G							
	=00-T03	/108.C4			85641301539		transformer		transformer socket												
H	--00-T03				106012019		plate							H							
	--00-T03				106012019		plate														
I	=00-W01	/104.C2			85211036100		rubber-insulated wire		1x1,5 BK		NSGAFÖU			I							
	=00-W02	/103.C2			85211036100		rubber-insulated wire		1x1,5 BK		NSGAFÖU										
J	=00-W03	/108.E4			85218030015		control line		3x2,5 PE		control line			J							
	=00-W6	/103.B3			85211030292		single core cable		1 G 16		single core cable										
K	=00-X03	/108.E4			105515465		socket		socket					K							
	=01-A01	/151.E3			107160992		terminal		CPU/control terminal												
L	--01-A01	spare part			107081007		display terminal							L							
	--01-A01	spare part			106104364		Cable set														
M	--01-A01	spare part			107432357		fixing accessory							M							
	=01-A02	/151.A5			107640343		battery		battery-Pack												
N	--01-A02				107669956		holding device							N							
	=01-A02.W1	/151.B6			85218030004		control line		2x1,5		control line										
O					date	15.07.2019		 MULTIVAC	128835	list of parts			=Z		O						
					processor	E. Mohr															
P					checked								sheet SE_1								
	status	change	date	name	standard		Origin: 17000857614	version: 0	replaced by:	R145			278972		< KE_11 SE_2 >						
	1			2		3		4	5	6		7		8							


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A	<table><tr><td>BMK</td><td>sheet path</td><td>material number</td><td>designation</td><td colspan="4">function text</td></tr></table>								BMK	sheet path	material number	designation	function text				A
BMK	sheet path	material number	designation	function text													
	=01-A050-X0	/305.B5	-														
	=01-A050	/305.B5	106607542	Ethernet switch	Ethernet switch												
	=01-D20	/151.F3	107249332	memory sub-module	COMPACTFLASH												
B	--01-D20	spare part	107249332	memory sub-module					B								
	=01-F01	/104.C2	105129007	automatic circuit breaker	socket												
	=01-F02	/106.B5	105128873	automatic circuit breaker	power supply unit machine control												
	=01-F51	/260.B7	105128873	automatic circuit breaker	outfeed motor												
	=01-H180	/183.F1	107788017	connecting element	connection element signal tower												
	=01-H181	/183.E3	107788035	Signal light	green signal light												
C	=01-H182	/183.E5	107788019	Signal light	Yellow signal light				C								
	=01-H183	/183.E6	107788031	Signal light	red signal light												
	=01-H186	/183.E6	107788018	warning signal generator													
	=01-J520	/100.D3	105881146	Control cabinet frame	switch panel												
	--01-J520		105992998	holder													
	--01-J520		105992998	holder													
D	--01-J520		105992998	holder					D								
	--01-J520		105992998	holder													
	--01-J520		105992998	holder													
	=01-K01	/106.D4	105646060	Phase sequence relay	Phase sequence relay												
	=01-K02	/110.C6	107771357	emergency shut-down device	EMERGENCY STOP device												
	=01-K183	/183.F8	107000425	relay	signal light red												
E	--01-K183		107000423	relay module					E								
	=01-W01	/671.D4	-		12 G 1,0	numbered control line											
	=01-W02	/602.B4	106103671	connecting cable	8x SH 5m green	connecting cable											
	=01-W03	/151.D3	106103671	connecting cable	8x SH 5m green	connecting cable											
	=01-W04	/151.D6	85211030282	single core cable	1 G 10,0	single core cable											
F	=01-W11	/106.A2	105128276	DS busbar	busbar A				F								
				date	15.07.2019												
				processor	E. Mohr												
				checked													
	status	change	date	name	standard												
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-W11																												105128291														protective cap																																																																					
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W13														/610.E3														85218031002														control line														2x0,75														control line																																									
W180														/183.C6														105865495														control line														7x0,5														numbered control line																																									
W20														/602.C4														106103668														connecting cable														8x SH 1m green														connecting cable																																									
J020														/117.E3														105606292														clamping piece																																																																					
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W020																												106498292														Connection cables																																																																					
X02														/113.D2														11586126053														right-angle plug														compressed air shut-off valve																																																							
X05														/117.D8														105368242														device connection plug														water inlet enable																																																							
X050														/117.C6														11586125108														Connection cables														flow monitor cooling water																																																							
A65														/182.C3														105927872														illuminated button														splice monitoring lower web																																																							
A75														/182.C7														105927872														illuminated button														splice monitoring upper web																																																							
J175														/180.C3														105606292														clamping piece														sheathed connector																																																							
J175																												105606290														connecting element																																																																					
K175														/180.E4														106911435														DC contactor														film unwind upper web 1																																																							
M175														/180.E2														105200677														worm gear motor														film unwind upper web 1																																																							
S161														/181.C2														85463102502														proximity switch														no lower web																																																							
S171														/181.C4														85463102502														proximity switch														no upper web																																																							
S176														/180.C5														85463102502														proximity switch														initial position film unwind upper web 1																																																							
W75														/180.A2														85219050053														control line														7 G 0,75 SH														numbered control line																																									
X161														/181.D1														107918460														Connection cables														no lower web																																																							
X171														/181.D3														107918460														Connection cables														no upper web																																																							
X176														/180.D5														107918460														Connection cables														initial position film unwind upper web 1																																																							
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Z175														/180.E4														106913122														diode erase element														film unwind upper web 1																																																							
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BMK			sheet path		material number		designation		function text								
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A	BMK	sheet path	material number	designation	function text				A							
	=06-J41	/267.C2	105606292	clamping piece	sheathed connector											
	--06-J41		105606290	connecting element												
B	=06-J42	/267.E6	105606292	clamping piece	sheathed connector				B							
	--06-J42		105606290	connecting element												
	=06-J51	/265.C2	105606292	clamping piece	sheathed connector											
	--06-J51		105606290	connecting element												
	=06-J52	/265.E6	105606292	clamping piece	sheathed connector											
	--06-J52		105606290	connecting element												
C	=06-K41	/267.E3	106911435	DC contactor	Edge trim winder left				C							
	=06-K51	/265.E3	106911435	DC contactor	Edge trim winder right											
	=06-M41	/267.E2	85811151620	worm gear motor	Edge trim winder left											
	=06-M51	/265.E2	85811151620	worm gear motor	Edge trim winder right											
	=06-S40	/267.C7	105788555	key	Edge trim winder left on											
	=06-S41	/267.C4	85463102506	proximity switch	Edge trim winder left bottom											
	=06-S42	/267.C6	85463102506	proximity switch	Edge trim winder left top											
	=06-S50	/265.C7	105788555	key	Edge trim winder right on											
D	=06-S51	/265.C4	85463102506	proximity switch	Edge trim winder right bottom				D							
	=06-S52	/265.C6	85463102506	proximity switch	Edge trim winder right top											
	=06-W40	/674.C3	85219120102	control line	9 G 0,75 SH		numbered control line									
	=06-W41	/267.D2	85219050053	control line	7 G 0,75 SH		numbered control line									
	=06-W42	/267.B2	85219050051	control line	4 G 0,75 SH		numbered control line									
	=06-W50	/266.C4	85219120102	control line	9 G 0,75 SH		numbered control line									
E	=06-W51	/265.D2	85219050053	control line	7 G 0,75 SH		numbered control line		E							
	=06-W52	/265.B2	85219050051	control line	4 G 0,75 SH		numbered control line									
	=06-X001	/269.D5	107918453	Connection cables	Edge trim winder right bottom											
	=06-X002	/269.D7	107918453	Connection cables	Edge trim winder right bottom											
	=06-X41	/267.D4	107918458	Connection cables	Edge trim winder left bottom											
F				date	15.07.2019				list of parts		R145278972		=Z		F	
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A	BMK		sheet path	material number	designation	function text		
B	=06-X42	/267.D5	105381013	Connection cables	Edge trim winder left top			
	=06-X51	/265.D4	107918458	Connection cables	Edge trim winder right bottom			
	=06-X52	/265.D5	105381013	Connection cables	Edge trim winder right top			
B	=06-Z41	/267.E3	106913122	diode erase element	edge trim winder			
	=06-Z42	/267.B3	107518492	RC snubber	filter element			
	=06-Z51	/265.E3	106913122	diode erase element	edge trim winder			
	=06-Z52	/265.B3	107518492	RC snubber	filter element			
	=09-J1	/27.A4	105856419	valve plug	CL03 plug			
	=10-A01-X1	/212.A5	-					
C	=10-A01-X12	/212.B4	-					
	=10-A01-X13	/212.B6	-					
	=10-A01-X17	/212.C6	-					
	=10-A01-X2	/212.D4	-					
	=10-A01	/212.D4	107467016	FC	FC			
	-=10-A01		107679485	safety sign				
D	=10-A10	/212.E2	106086734	PCB				
	=10-F01	/210.B5	105128870	automatic circuit breaker	die lifting forming			
	=10-J10	/212.E5	105544860	installation rail	braking resistor mounting plate bottom section			
	=10-M01	/212.E1	107540959	electric cylinder	die lifting forming			
	=10-R01	/212.D5	101102353	braking resistor	braking resistor			
	=10-V01	/211.F2	105917988	load relay	brake forming			
E	=10-W02	/212.D4	85219050064	control line	4 G 1,5 SH	numbered control line		
	=10-W03	/212.B4	85219130007	data line	10x0,25 SH	data line		
	=10-W04	/212.C6	85219120600	control line	5x0,5	numbered control line		
	=10-X1	/212.E4	106496363	Connection cables				
	=10-X15	/212.E3	107918459	Connection cables				
F	=10-X5	/212.E2	106086657	Connection cables				
				date	15.07.2019	list of parts		=Z
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A	sheet		material number	designation	function text				A						
	BMK	path													
B	=10-Z01	/212.D4	86311191200	ferrite toroidal core	ferrite toroidal core				B						
	=11-J11	/220.C6	105606292	clamping piece	shield										
	--=11-J11		105606290	connecting element											
	=11-J110	/232.E7	105606292	clamping piece											
C	--=11-J110		105606290	connecting element					C						
	=11-W110		106498292	Connection cables											
	=11-X11	/220.E5	85123211407	Connection cables	heating pressure										
	=11-X18	/220.D7	107918458	Connection cables	changeover standard heating-up/ forming										
D	=12-J012	/220.C2	105606292	clamping piece	shield				D						
	--=12-J012		105606290	connecting element											
	=12-J110	/232.E2	105606292	clamping piece											
	--=12-J110		105606290	connecting element											
E	=12-J140	/232.E5	105606292	clamping piece					E						
	--=12-J140		105606290	connecting element											
	=12-K01	/160.E5	106910542	DC contactor	vacuum pump forming										
	=12-M01	/162.E3	107686683	Rotary piston pump	vacuum pump										
F	=12-Q01	/162.B4	106915218	indicator switch	vacuum pump				F						
	=12-Q01	/162.B3	106914388	power breaker	vacuum pump										
	=12-W01	/162.C3	85218030025	control line	4 G 2,5	control line									
	=12-W10	/100.A4	105178952	DS busbar	conductor rail										
F	=12-W100	/221.B3	105410826	valve plug	40x0,34 5M	Connection cables			F						
	=12-W110		106498292	Connection cables											
	=12-W140		106498292	Connection cables											
	=12-X01	/100.A4	106915285	connecting terminal	plug										
F	=12-X11	/220.E1	85123211407	Connection cables	target value pressure				F						
	=12-X18	/220.D3	107918458	Connection cables	changeover standard heating-up/ forming										
	=12-Z01	/160.E5	106915211	diode erase element	vacuum pump										
			date	15.07.2019			128835	list of parts				=Z			
			processor	E. Mohr											
			checked												
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B	=18-F11	/201.B4	105129675	automatic circuit breaker	heating zone 1				B	
C	=18-J11	/201.D5	105606292	clamping piece	heating zone 1				C	
	--18-J11		105606290	connecting element						
	=18-V11	/201.F7	105643280	solid state relay	heating zone 1					
	=18-W11	/201.C4	107758429	hybrid line	5 G 2,5+4x0,75 SH control line					
	=18-X11	/201.D1	108003547	sleeve						
D	--18-X11		105498290	screwed cable gland					D	
	--18-X11 (A)	/201.E1	108003549	carrier						
	--18-X11 (A)		107564430	contact bushing (3)						
	--18-X11 (A)		107610759	contact bushing (4)						
	=20-A01-X1	/214.A5	-							
E	=20-A01-X12	/214.B4	-						E	
	=20-A01-X13	/214.B6	-							
	=20-A01-X17	/214.C6	-							
	=20-A01-X2	/214.D5	-							
	=20-A01	/214.D4	107467016	FC	FC					
F	--20-A01		107679485	safety sign					F	
	=20-A10	/214.E2	106086734	PCB						
	=20-F01	/210.B6	105128870	automatic circuit breaker	die lifting Sealing					
	=20-J10	/214.E5	105544860	installation rail	braking resistor mounting plate bottom section					
	=20-M01	/214.E1	107540959	electric cylinder	die lifting Sealing					
	=20-R01	/214.D5	101102353	braking resistor	braking resistor					
	=20-V01	/211.F4	105917988	load relay	brake Sealing					
	=20-W02	/214.D4	85219050064	control line	4 G 1,5 SH numbered control line					
	=20-W03	/214.B4	85219130007	data line	10x0,25 SH data line					
	=20-W04	/213.C6	85219120600	control line	5x0,5 numbered control line					
	=20-X1	/214.E4	106496363	Connection cables						
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	=20-X15	/214.E3	107918459	Connection cables											
	=20-X5	/214.E2	106086657	Connection cables											
	=20-Z01	/214.D4	86311191200	ferrite toroidal core	ferrite toroidal core										
B	=22-K10	/160.F2	107016276	relay module	vacuum pump										
	=22-W100	/269.B2	105410826	valve plug	40x0,34 5M										Connection cables
	=25-J11	/227.C5	105606292	clamping piece	shield										
	--25-J11		105606290	connecting element											
	=25-W10	/281.C4	85219050051	control line	plug connector 4 G 0,75 SH										numbered control line
	=25-X10-	/281.C4	105673191	plug part set	plug connector measurement Diaphragm Sealing										
	=25-X10		106428455	set of bushings											
	=25-X11	/227.E4	85123211407	Connection cables	pressure Sealing										
	=28-F12	/204.B4	105129675	automatic circuit breaker	heating zone 4										
	=28-J12	/204.D5	105606292	clamping piece	heating zone 4										
	--28-J12		105606290	connecting element											
	=28-K01	/200.F2	107000425	relay	heating on										
	--28-K01		107000423	relay module											
D	=28-K02	/200.E5	107783612	DC contactor	heating on										
	--28-K02		107783641	cover											
	--28-K02		107783641	cover											
	=28-V12	/204.F7	105643280	solid state relay	heating zone 4										
	=28-W10	/200.D7	105128276	DS busbar	busbar S										
	--28-W10		105128291	protective cap											
	--28-W10		105128291	protective cap											
	=28-W12	/204.C4	107758429	hybrid line	5 G 2,5+4x0,75 SH										control line
	=28-X12	/204.C1	107731700	plug part set	heating										
	=28-Z02	/200.E5	107813677	diode erase element	heating off										
F	=29-A011	/109.E3	106942074	air conditioning unit	control cabinet cooling system										
															F


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A	sheet															A																																																																																																							
	BMK			path		material number		designation			function text																																																																																																												
B	=29-B11			/199.D4		107273444		current sensor			current sensor W1.A					B																																																																																																							
	=29-B12			/199.D5		107273444		current sensor			current sensor W2.A																																																																																																												
	=29-B13			/199.D6		107273444		current sensor			current sensor W3.A																																																																																																												
C	=29-D.AI01			/614.A4		107352999		input terminal			input terminal analog					C																																																																																																							
	=29-D.AI02			/614.A8		107352999		input terminal			input terminal analog																																																																																																												
	=29-D.AI03			/618.A8		107353037		input terminal			input terminal Leistungsmessklemme KL3403																																																																																																												
D	=29-D.AO01			/616.A4		107353016		output terminal			output terminal analog					D																																																																																																							
	=29-D.DI01			/607.A5		107352946		input terminal			input terminal																																																																																																												
	=29-D.DI02			/609.A4		107352946		input terminal			input terminal																																																																																																												
E	=29-D.DI03			/611.A5		107352946		input terminal			input terminal					E																																																																																																							
	=29-D.DI04			/613.A4		107352946		input terminal			input terminal																																																																																																												
	=29-D.DI05			/613.A8		107352946		input terminal			input terminal																																																																																																												
F	=29-D.DO01			/621.A4		107352944		output terminal			output terminal					F																																																																																																							
	=29-D.DO02			/626.A5		107352944		output terminal			output terminal																																																																																																												
	=29-D.DO03			/627.A5		107352944		output terminal			output terminal																																																																																																												
G	=29-D.DO04			/628.A5		107352944		output terminal			output terminal					G																																																																																																							
	=29-D.DO05			/629.A5		107352944		output terminal			output terminal																																																																																																												
	=29-D.DO06			/630.A5		107352944		output terminal			output terminal																																																																																																												
H	=29-D.IE01			/603.A8		107353011		positioning unit			rotary shaft encoder terminal					H																																																																																																							
	=29-D.PT10			/606.A4		107353018		potential distributor terminal			potential distributor terminal																																																																																																												
	=29-D.PT11			/608.A4		107353018		potential distributor terminal			potential distributor terminal																																																																																																												
I	=29-D.PT12			/610.A4		107353018		potential distributor terminal			potential distributor terminal					I																																																																																																							
	=29-D.PT20			/606.A8		107353013		potential distributor terminal			potential distributor terminal																																																																																																												
	=29-D.PT21			/608.A8		107353013		potential distributor terminal			potential distributor terminal																																																																																																												
J	=29-D.PT22			/610.A8		107353013		potential distributor terminal			potential distributor terminal					J																																																																																																							
	=29-D.PT33			/622.A4		107353013		potential distributor terminal			potential distributor terminal																																																																																																												
	=29-D.ST01			/602.A4		107352994		bus coupler			EtherCAT-bus coupler																																																																																																												
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B	=29-D.ST02	/605.A8	107353015	power supply unit	potential feed terminal				B						
	=29-D.ST30	/620.A5	107353033	potential supply terminal	potential feed terminal										
	=29-D.ST35	/625.A5	107353015	power supply unit	potential feed terminal										
B	=29-D.ST38	/631.A4	107353017	interface module					B						
	=29-D.ST40	/633.A8	107353053	interface module	terminating clamp										
	=29-D.TC01	/617.A4	107353012	temperature terminal	input terminal temperature										
	=29-D.TC02	/617.A8	107353012	temperature terminal	input terminal temperature										
	=29-D04	/151.E8	107267068	࿿	Multivac Service-Tool										
C	=29-D04	spare part	107165976	Instruction manual					C						
	=29-D04	spare part	106533722	self-adhering pocket											
	=29-D04	spare part	107159600	USB stick											
	=29-D3	/602.E2	107705527	Licence	licenses for server and browser										
	=29-F011	/109.B3	105128750	automatic circuit breaker	control cabinet cooling system										
	=29-F04	/107.B6	105128760	automatic circuit breaker	power supply unit machine control										
	=29-F07	/107.D2	85411110508	glass fuse insert	fuse machine control										
D	=29-F08	/107.D2	85411110510	glass fuse insert	fuse machine control				D						
	=29-F11	/107.D3	85411110508	glass fuse insert	fuse machine control										
	=29-F12	/107.D4	85411110508	glass fuse insert	fuse machine control										
	=29-F13	/199.C2	85411110501	glass fuse insert	fuse current sensor										
	=29-F14	/199.C1	85411110501	glass fuse insert	fuse current sensor										
	=29-F15	/199.C2	85411110501	glass fuse insert	fuse current sensor										
E	=29-F16	/107.D4	85411110508	glass fuse insert	fuse machine control				E						
	=29-G01	/107.B6	106873678	power pack	power supply unit machine control Sealing										
	=29-JGND1	/103.C3	85121117065	cable lug											
	=29-T01	/199.D2	105347357	transformer	transformer current sensor										
	=29-W011	/109.C3	85218031012	control line	3 G 0,75		control line								
F	=29-W012	/109.E4	85211030272	single core cable	1 G 6,0				F						
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				processor	E. Mohr										
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A	=29-W13			/109.C3		85218031012		control line		3 G 0,75 control line																			
	=29-X10			/107.D4		106659087		locking clamp		fuse machine control																			
	=29-X10			/107.D4		106659087		locking clamp																					
B	=29-X10			/107.D3		106659087		locking clamp																					
	=29-X10			/107.D3		106659087		locking clamp																					
	=29-X10			/107.D2		106659087		locking clamp																					
C	=29-X10			/107.D2		106659087		locking clamp																					
	=29-X11			/199.C2		106812504		locking clamp		fuse machine control																			
	=29-X11			/199.C2		106812504		locking clamp		fuse machine control																			
D	=29-X11			/199.C1		106812504		locking clamp		fuse machine control																			
	=36-F01			/560.A2		105128755		automatic circuit breaker		printer																			
	=36-K01			/562.E2		107016280		relay		BELLMARK printer start																			
E	-=36-K01					107000423		relay module																					
	=36-K010			/562.E4		107016280		relay		BELLMARK printer WAS SEL 0																			
	-=36-K010					107000423		relay module																					
F	=36-K011			/562.E5		107016280		relay		BELLMARK printer WAS SEL 1																			
	-=36-K011					107000423		relay module																					
	=36-K012			/562.E6		107016280		relay		BELLMARK printer WAS SEL 2																			
G	-=36-K012					107000423		relay module																					
	=36-K013			/562.E7		107016280		relay		BELLMARK printer WAS counter RESET																			
	-=36-K013					107000423		relay module																					
H	=36-K02			/562.E3		107016280		relay		BELLMARK printer enable																			
	-=36-K02					107000423		relay module																					
	=36-X010			/117.C5		107918460		Connection cables																					
I	=40-A11			/251.C3		106002617		Starting device		triggering motor Cross cutter 1																			
	=40-F11			/251.B3		105128803		automatic circuit breaker		Cross cutter 1																			
	=40-F12			/251.B7		105128750		automatic circuit breaker		brake Cross cutter																			
					date		15.07.2019				128835		list of parts						=Z										
					processor		E. Mohr																						
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	BMK	path									
	=40-J11	/251.D7	105606292	clamping piece	Cross cutter						
	--40-J11		105606290	connecting element							
B	=40-K01	/250.E5	107016280	relay	reset cutting unit 1						
	--40-K01		107000423	relay module							
	=40-K11	/252.E2	106911435	DC contactor	Cross cutter 1 brake release						
	=40-M11	/251.F6	106667098	helical geared motor	Cross cutter 1						
	=40-S101	/252.C5	106624473	proximity switch	cutting unit 1 opened						
	=40-S102	/252.C6	106624473	proximity switch	cutting unit 1 closed						
C	=40-W11	/251.D3	85219120102	control line	9 G 0,75 SH	numbered control line					
	=40-X101	/252.C5	107918460	Connection cables	forming die open						
	=40-X102	/252.C6	107918460	Connection cables	forming die open						
	=40-X11	/251.F8	106482317	Coupling							
	=40-Z11	/252.E2	106913122	diode erase element	brake release						
	=42-W100	/622.B3	105410826	valve plug	40x0,34 5M	Connection cables					
D	=44-J110	/253.E3	105606292	clamping piece							
	--44-J110		105606290	connecting element							
	=44-W110		106498292	Connection cables							
	=53-S01	/280.C3	85463102502	proximity switch	product projecting						
	=53-X01	/280.C4	107918458	Connection cables	product projecting						
	=71-X11	/270.E4	107918458	Connection cables							
E	=72-A01-X1	/271.B6	-								
	=72-A01-X10	/271.C5	-								
	=72-A01-X12	/271.C5	-								
	=72-A01-X13	/271.C7	-								
F	=72-A01-X2	/271.E5	-								
	=72-A01	/271.E5	107466980	FC	discharge conveyor						
	--72-A01		107679485	safety sign							
			date	15.07.2019	list of parts			=Z			
			processor	E. Mohr							
			checked		R145			sheet SE_13			
status	change	date	name	standard					< SE_12 SE_14 >		
			Origin:	17000857614	version:	0	replaced by:				
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A	<div>BMKsheetpathmaterial numberdesignationfunction text</div>								A
B	=72-F01	/270.B6	105128769	automatic circuit breaker	discharge conveyor				B
	=72-J02	/271.B3	105606292	clamping piece	discharge conveyor				
	=72-J02		105606290	connecting element					
C	=72-M01	/271.F1	105568267	worm gear motor					C
	=72-S110	/270.C2	108275336	cylinder switch	Hinged conveyor cylinder 1 opened				
	=72-S111	/270.C3	108275336	cylinder switch	Hinged conveyor cylinder 1 closed				
D	=72-W01	/271.E2	105421953	Connection cables	7 G 0,75 SH	Connection cables			D
	=72-W01.1	/271.E3	85219050053	control line	7 G 0,75 SH	numbered control line			
	=72-W03	/271.C5	85219130007	data line	10x0,25 SH	data line			
E	=72-W06	/236.E4	85219130003	data line	2x0,14 SH	data line			E
	=72-X01-	/271.E2	108089491	plug part set	discharge conveyor				
	=72-X01	/271.D1	108089480	plug part set	discharge conveyor				
F	=72-Z01	/271.E6	86311191200	ferrite toroidal core	ferrite toroidal core				F
	=80-K01	/112.E3	106911435	DC contactor	EMERGENCY STOP				
	=80-K01	/112.F3	106915287	auxiliary contactor	EMERGENCY STOP				
G	=80-K02	/112.E4	106911435	DC contactor	EMERGENCY STOP				G
	=80-K02	/112.F4	106915287	auxiliary contactor	EMERGENCY STOP				
	=80-K03	/112.E5	106910428	DC contactor	EMERGENCY STOP				
H	=80-K03	/112.F5	106915287	auxiliary contactor	EMERGENCY STOP				H
	=80-K04	/112.F6	106915287	auxiliary contactor	EMERGENCY STOP				
	=80-K04	/112.E6	106910428	DC contactor	EMERGENCY STOP				
I	=80-S01	/110.E1	106966055	EMERGENCY-STOP button	/ EMERGENCY STOP control terminal				I
	=80-S41	/110.C3	105111741	mushroom-head button	/ EMERGENCY STOP Machine infeed				
	=80-S42	/111.B3	105716374	EMERGENCY STOP button	/ EMERGENCY STOP Machine infeed				
J	=80-S43	/111.B6	105716374	EMERGENCY STOP button	/ EMERGENCY STOP machine outfeed				J
	=80-S44	/110.C4	105111741	mushroom-head button	/ EMERGENCY STOP machine outfeed				
	=80-S51	/110.D3	105111741	mushroom-head button	/ EMERGENCY STOP Machine infeed				
<div><div><div><div></div><div></div><div></div></div><div><div>date</div><div>15.07.2019</div></div><div><div>processor</div><div>E. Mohr</div></div><div><div>checked</div><div></div></div><div><div>status</div><div>change</div><div>date</div><div>name</div><div>standard</div></div><div><div>Origin:</div><div>17000857614</div><div>version:</div><div>0</div><div>replaced by:</div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div></div> 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A	BMK	sheet	path	material number	designation	function text										A
	=80-S52	/111.D3	105716374	EMERGENCY STOP button	/ EMERGENCY STOP Machine infeed											
	=80-S53	/111.D6	105716374	EMERGENCY STOP button	/ EMERGENCY STOP machine outfeed											
	=80-S54	/110.D4	105111741	mushroom-head button	/ EMERGENCY STOP machine outfeed											
B	=80-W41	/110.B3	85219120600	control line	5x0,5 numbered control line										B	
	=80-W42	/110.B1	85219120600	control line	5x0,5 numbered control line											
	=80-W43	/111.C4	85219120600	control line	5x0,5 numbered control line											
	=80-W44	/110.B4	85219120600	control line	5x0,5 numbered control line											
	=80-W51	/110.D3	85219120600	control line	5x0,5 numbered control line											
	=80-W52	/111.C3	85219120600	control line	5x0,5 numbered control line											
C	=80-W53	/111.C6	85219120600	control line	5x0,5 numbered control line										C	
	=80-W54	/110.D4	85219120600	control line	5x0,5 numbered control line											
	=80-Z01	/112.E3	106913122	diode erase element	EMERGENCY STOP											
	=80-Z02	/112.E4	106913122	diode erase element	EMERGENCY STOP											
	=80-Z03	/112.E5	106915211	diode erase element	EMERGENCY STOP											
	=80-Z04	/112.E6	106915211	diode erase element	EMERGENCY STOP											
D	=81-A02RX-X1	/122.B7	107918459	Connection cables	Safety light barrier forming										D	
	=81-A02RX	/122.B6	106779332	photoelectric beam	Safety light barrier Machine infeed											
	=81-A02TX-X1	/122.C7	107918459	Connection cables	Safety light barrier forming											
	=81-A02TX	/122.B5	106779320	photoelectric beam	Safety light barrier Machine infeed											
	=81-A05	/122.C3	106779333	safety circuit module	Safety light barrier Machine infeed											
	=81-S41	/131.B1	105778984	Magnetic reed switches	Machine infeed											
E	=81-S42	/131.B3	106106351	Magnetic reed switches	Machine infeed										E	
	=81-S43	/131.B4	106106351	Magnetic reed switches	Machine infeed											
	=81-S51	/131.B2	105778984	Magnetic reed switches	Machine infeed											
	=81-S52	/131.B3	106106351	Magnetic reed switches	Machine infeed											
	=81-S53	/131.B5	106106351	Magnetic reed switches	Machine infeed											
	=81-X41	/131.B1	107918457	Connection cables	Extension cable Magnetic reed switches											
F				date	15.07.2019		128835	list of parts	R145	278972	sheet SE_15	< SE_14 SE_16 >	F			
				processor	E. Mohr											
				checked												
	status	change	date	name	standard	Origin:	17000857614	version:	0	replaced by:						
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A	BMK	sheet	path	material number	designation						function text				A	
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	=81-X43		/131.B4	107918457	Connection cables						Extension cable Magnetic reed switches					
	=81-X51		/131.B2	107918457	Connection cables						Extension cable Magnetic reed switches					
B	=81-X52		/131.B3	107918457	Connection cables						Extension cable Magnetic reed switches				B	
	=81-X53		/131.B5	107918457	Connection cables						Extension cable Magnetic reed switches					
	=82-A02RX-X1		/124.B7	107918458	Connection cables						Safety light barrier Sealing					
	=82-A02RX		/124.B7	106779332	photoelectric beam						Safety light barrier Sealing					
	=82-A02TX-X1		/124.C7	107918459	Connection cables						Safety light barrier Sealing					
	=82-A02TX		/124.B6	106779320	photoelectric beam						Safety light barrier Sealing					
C	=82-A05		/124.C3	106779333	safety circuit module						Safety light barrier Sealing				C	
	=82-A11-X01		/131.C1	-												
	=82-A11-X02		/131.C2	-												
	=82-A11-X03		/131.C3	-												
	=82-A11-X04		/131.C3	-												
	=82-A11-X05		/131.D4	-												
D	=82-A11-X06		/131.D5	-											D	
	=82-A11-X07		/131.C6	-												
	=82-A11		/131.D1	106903717	safety circuit module											
	=82-A12-X01		/132.C1	-												
	=82-A12-X02		/132.C2	-												
	=82-A12-X03		/132.C3	-												
E	=82-A12-X04		/132.C3	-											E	
	=82-A12-X05		/132.D4	-												
	=82-A12-X06		/132.D5	-												
	=82-A12-X07		/132.C6	-												
	=82-A12		/132.D1	106903717	safety circuit module											
F	=82-A13-X01		/133.C1	-											F	
				date	15.07.2019		 MULTIVAC	128835	list of parts							
				processor	E. Mohr											
				checked												
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MULTIVAC

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D-87787 Wolfertschwenden
Deutschland


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<http://www.multivac.de>

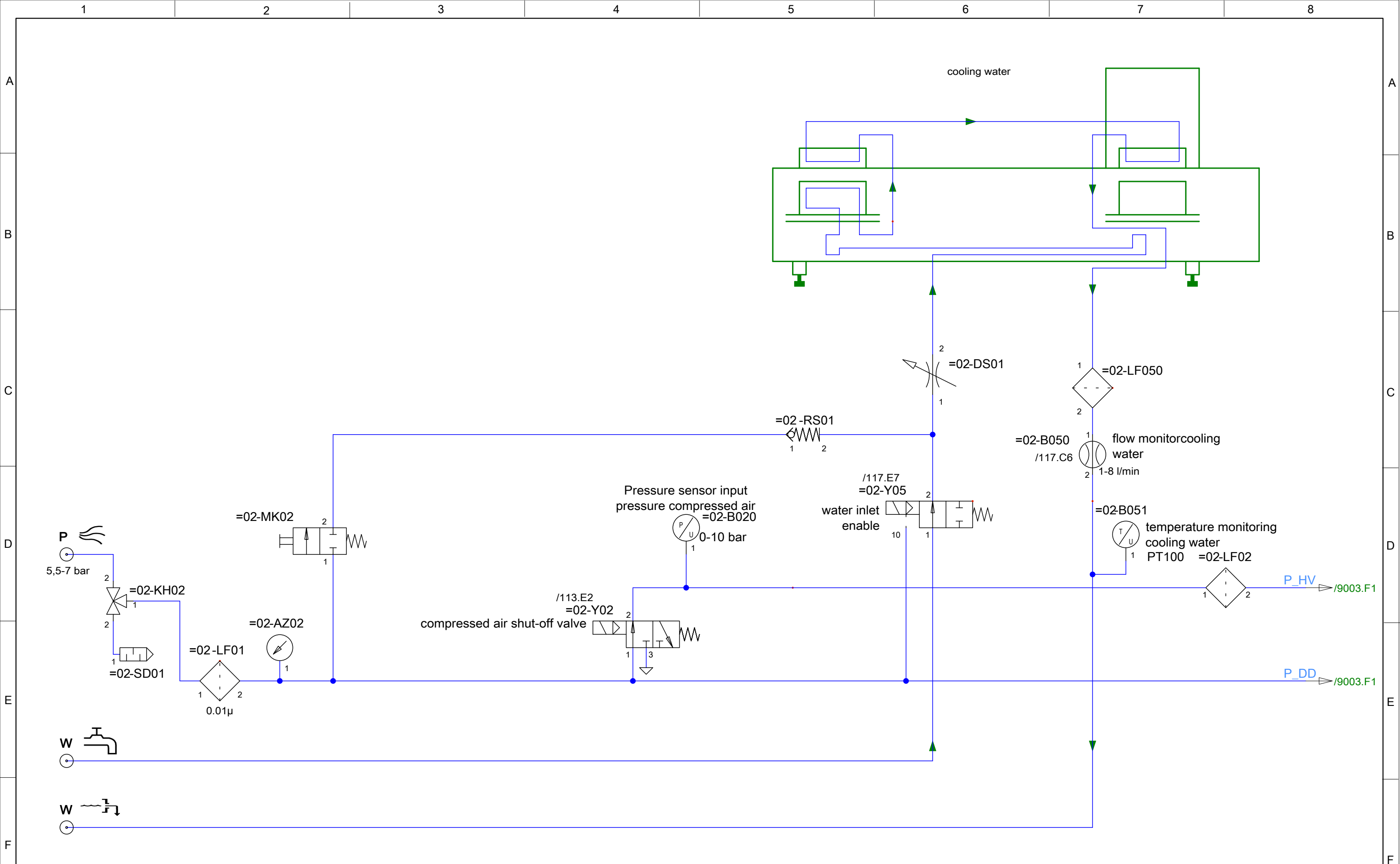
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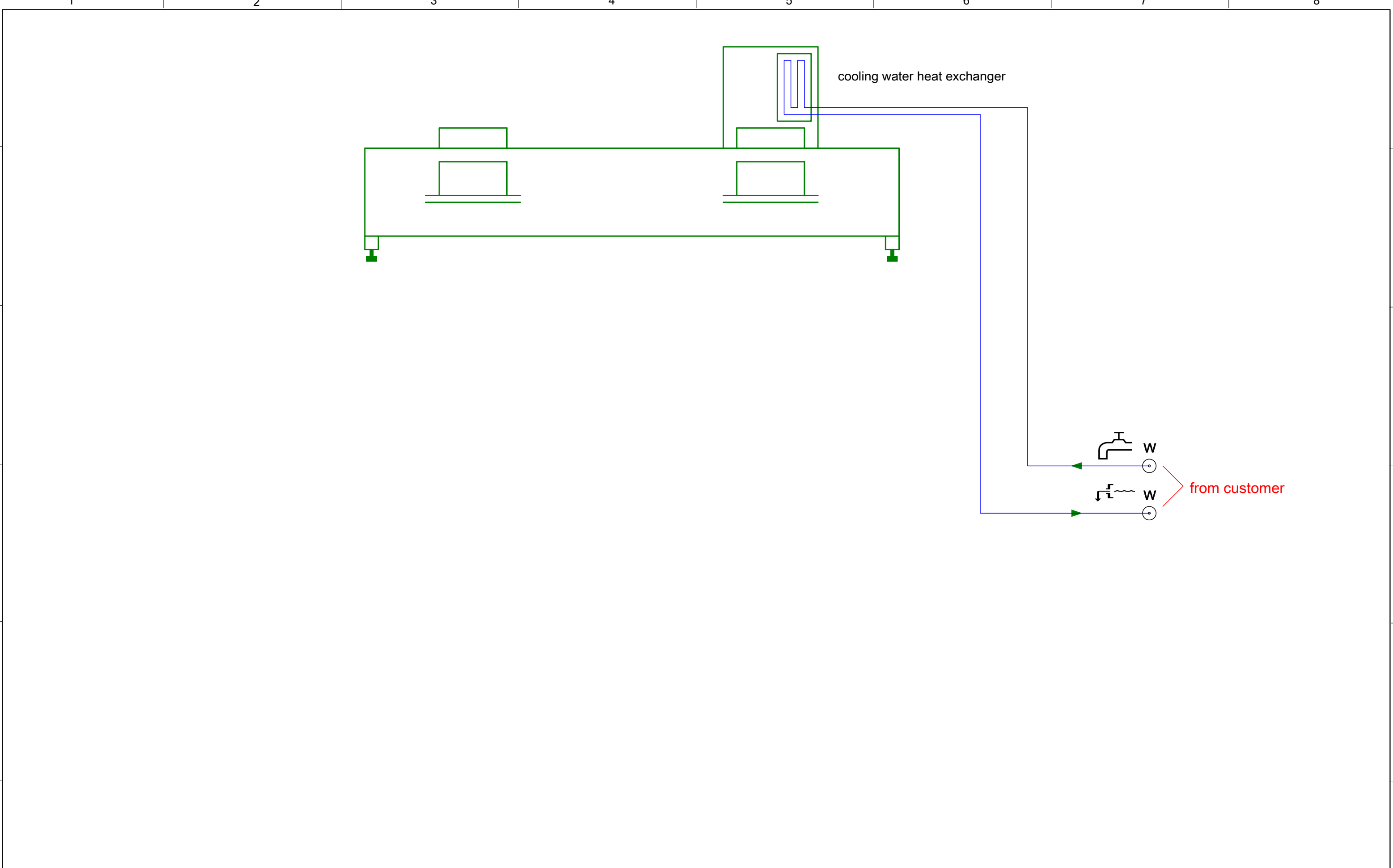
Weitergabe sowie Vervielfältigung dieses Dokuments, Verwertung und Mitteilung seines Inhalts sind verboten, soweit nicht ausdrücklich gestattet.
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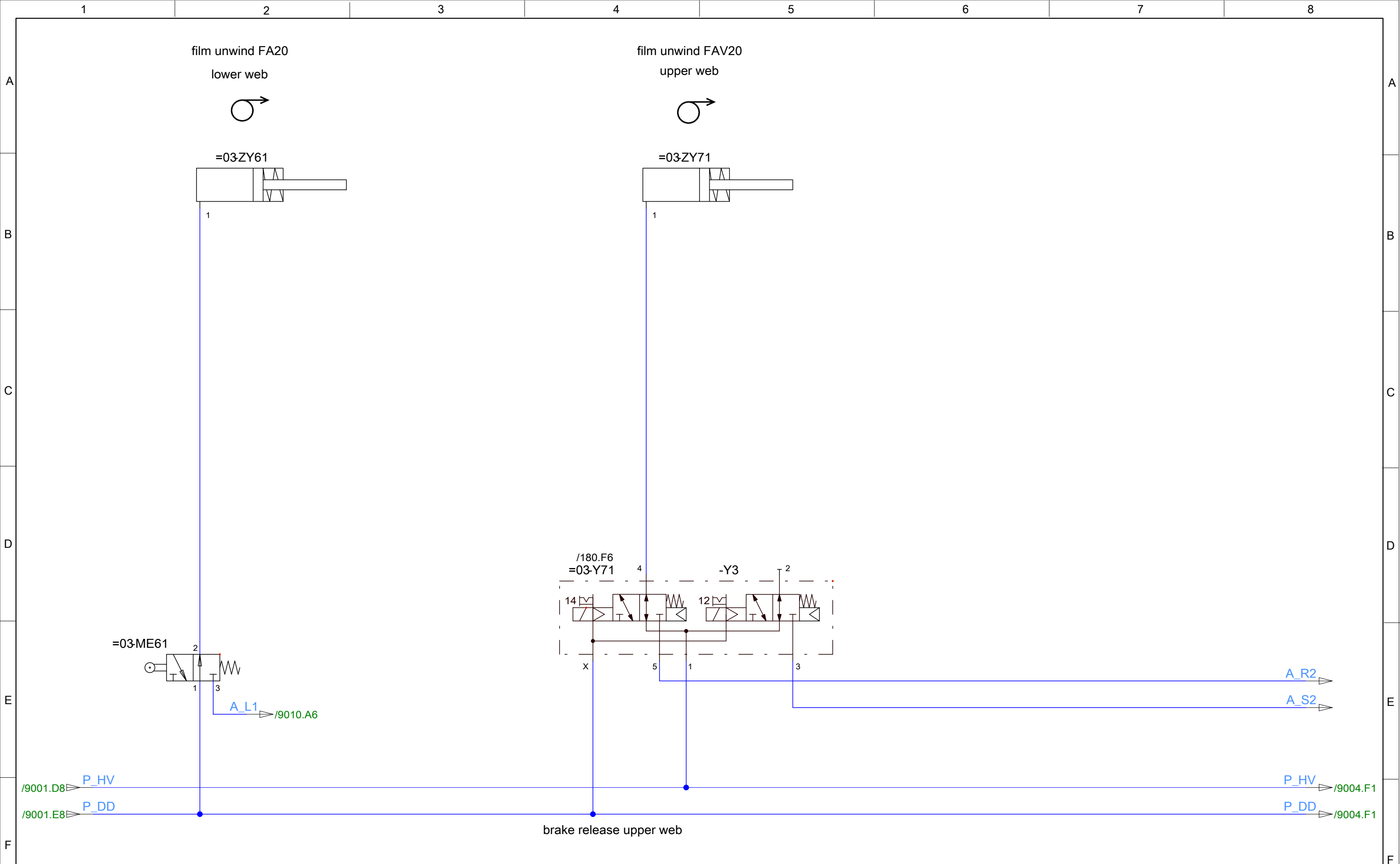
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				processor	T. Wiest					
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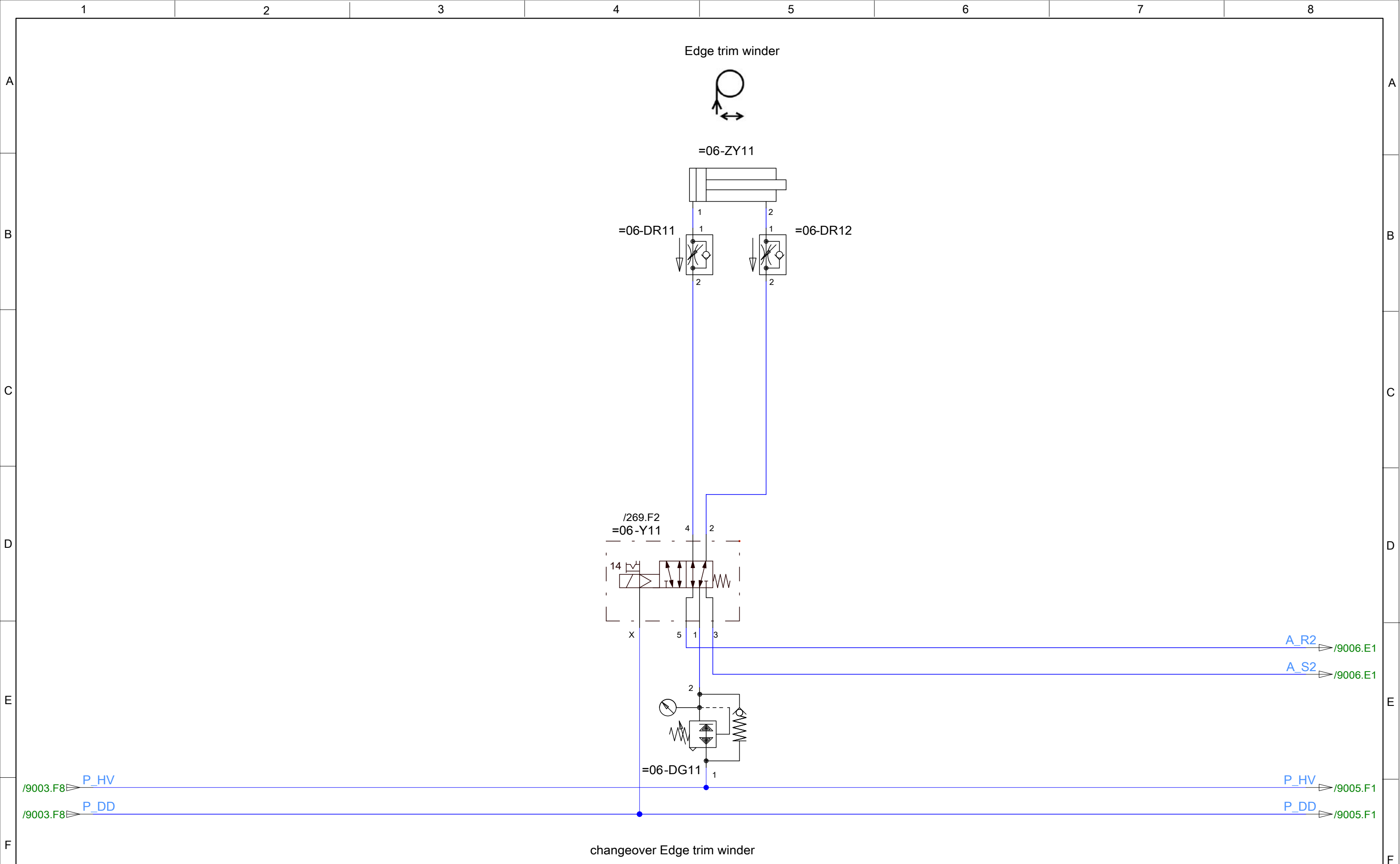
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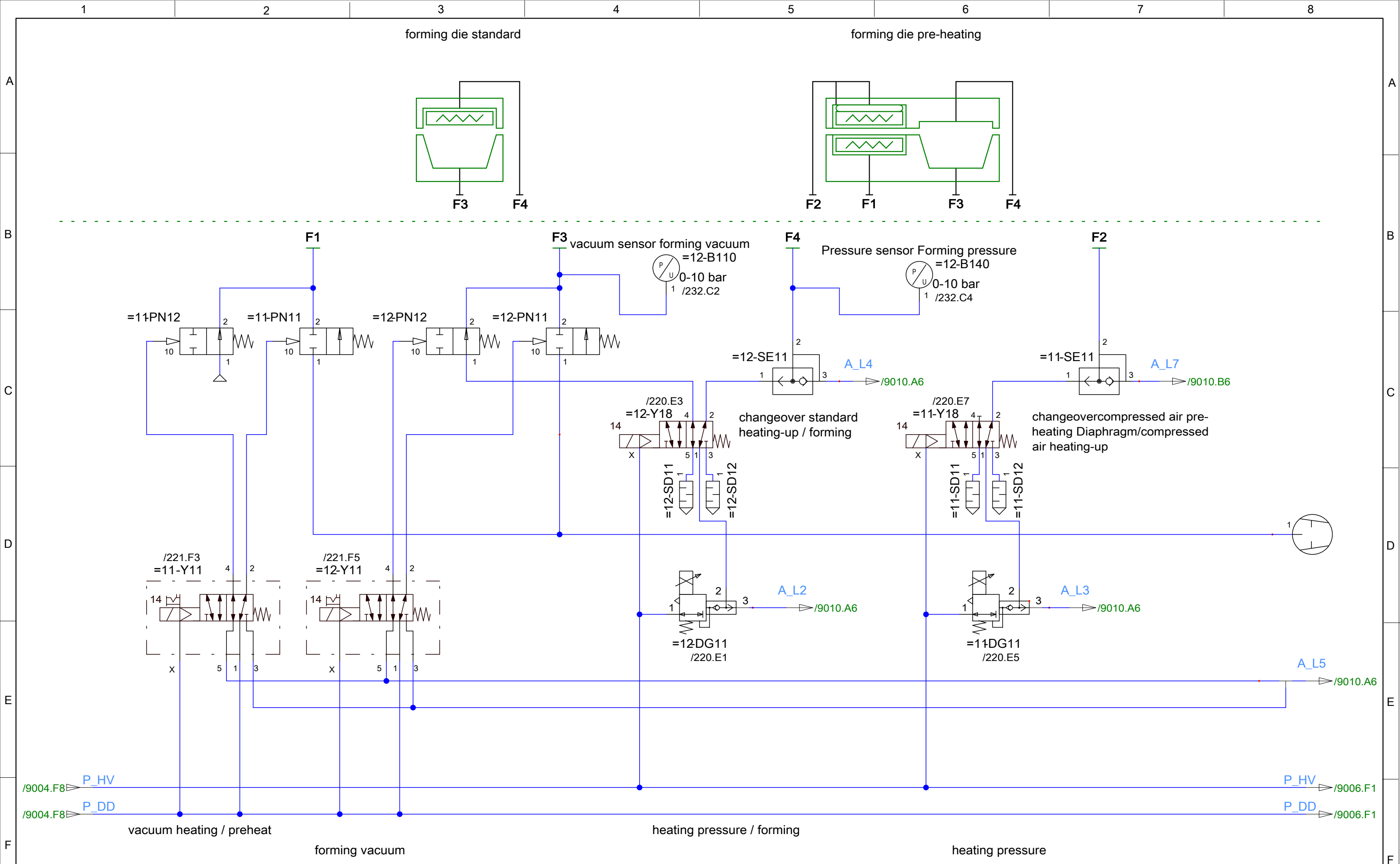


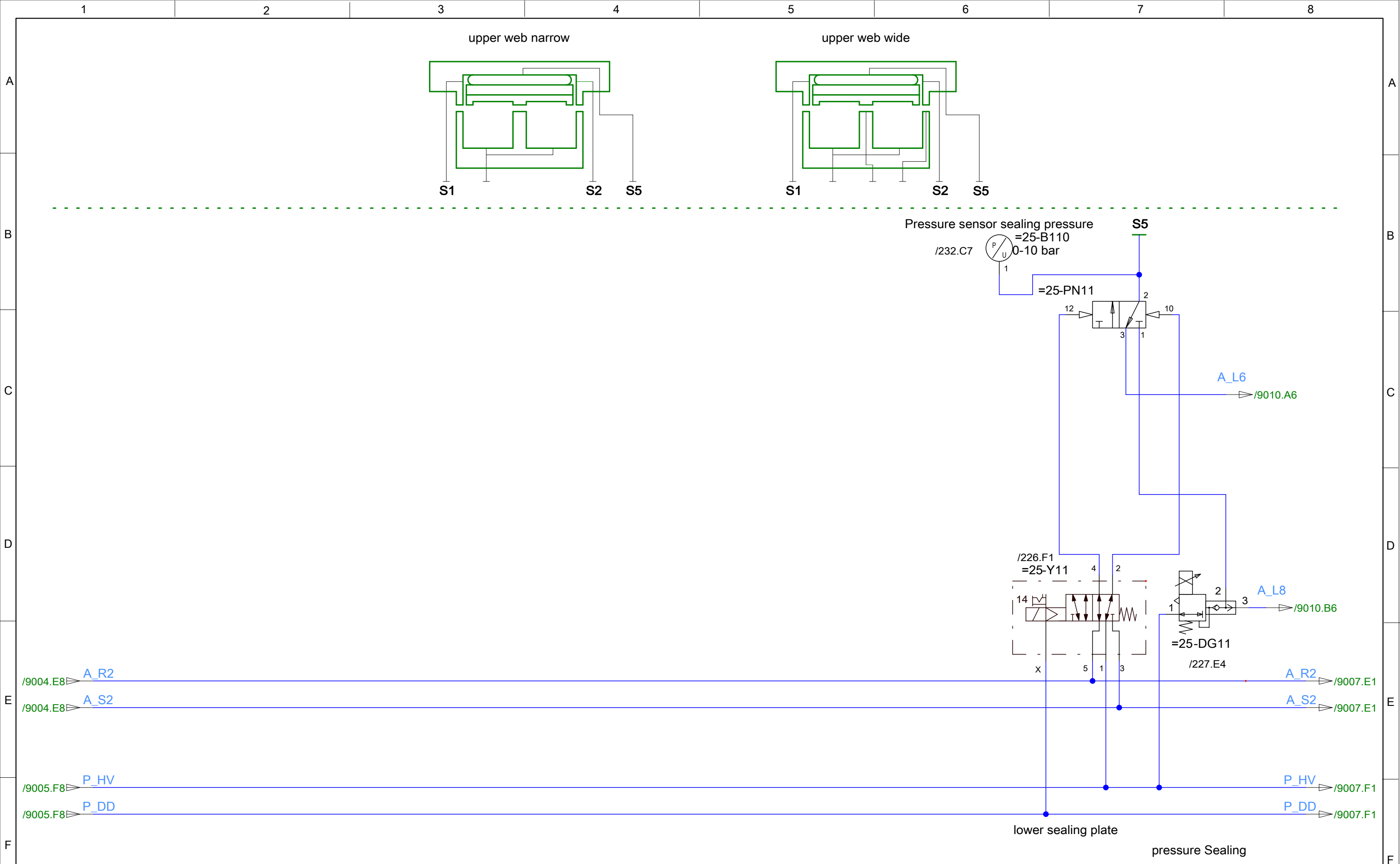
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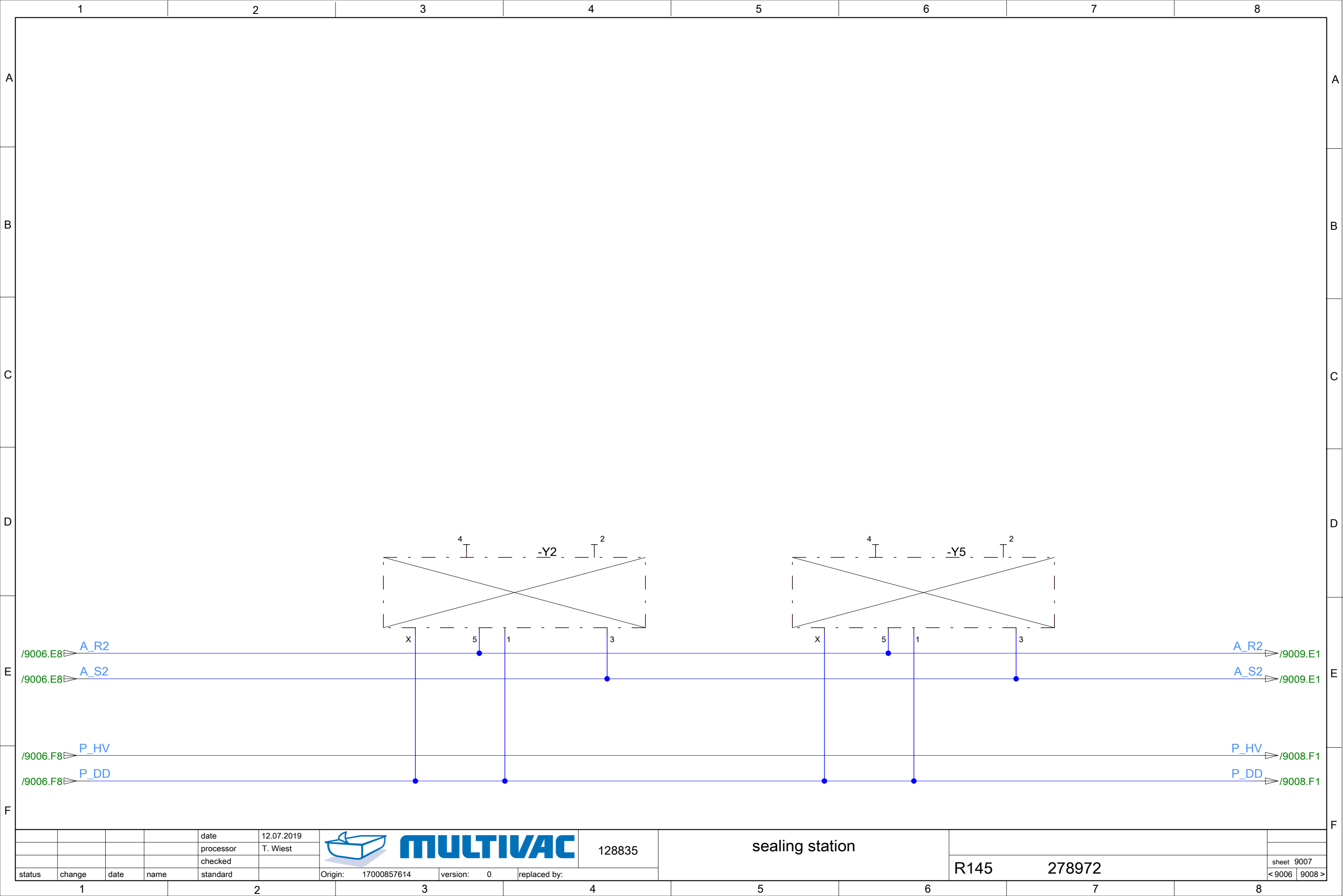
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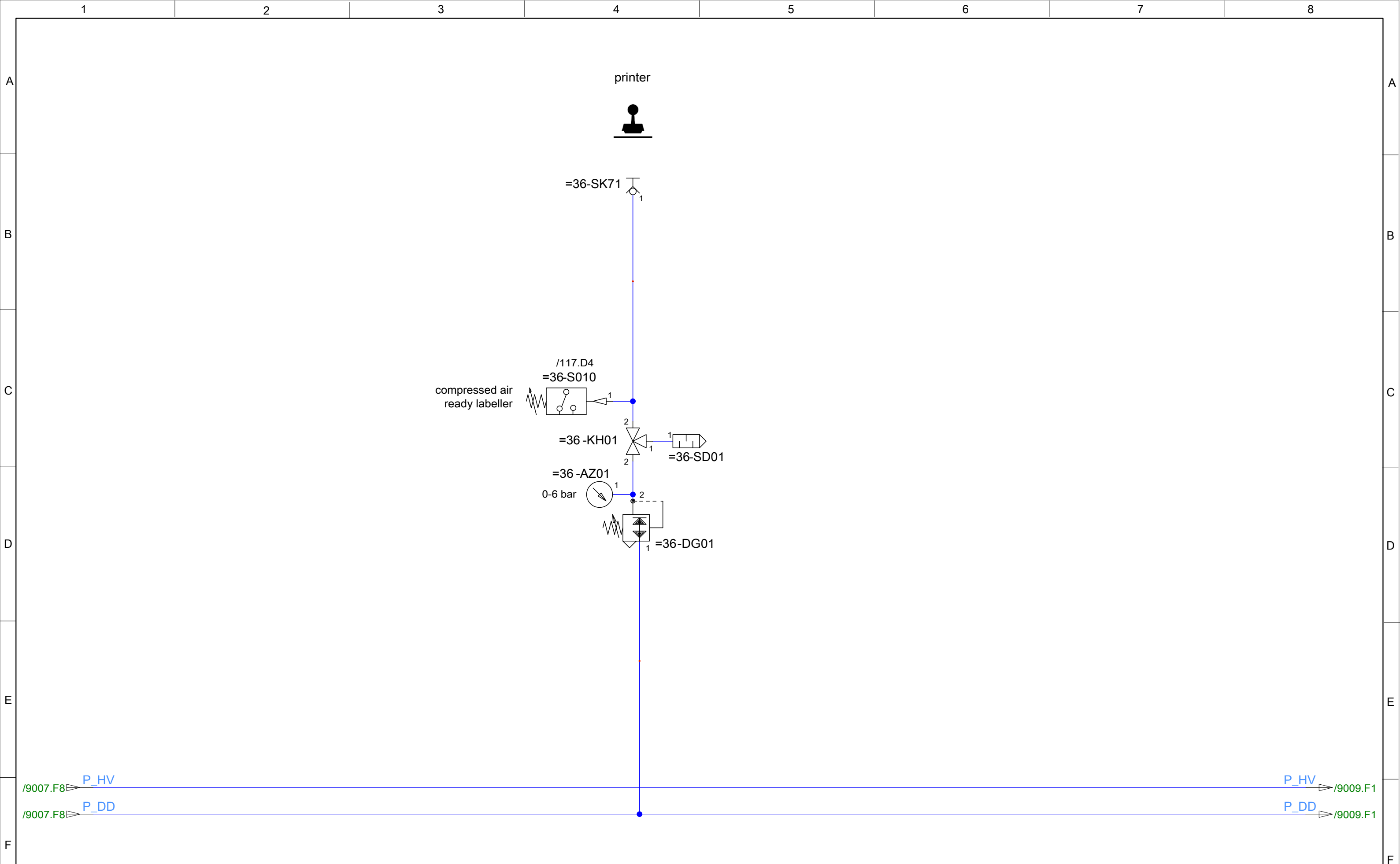





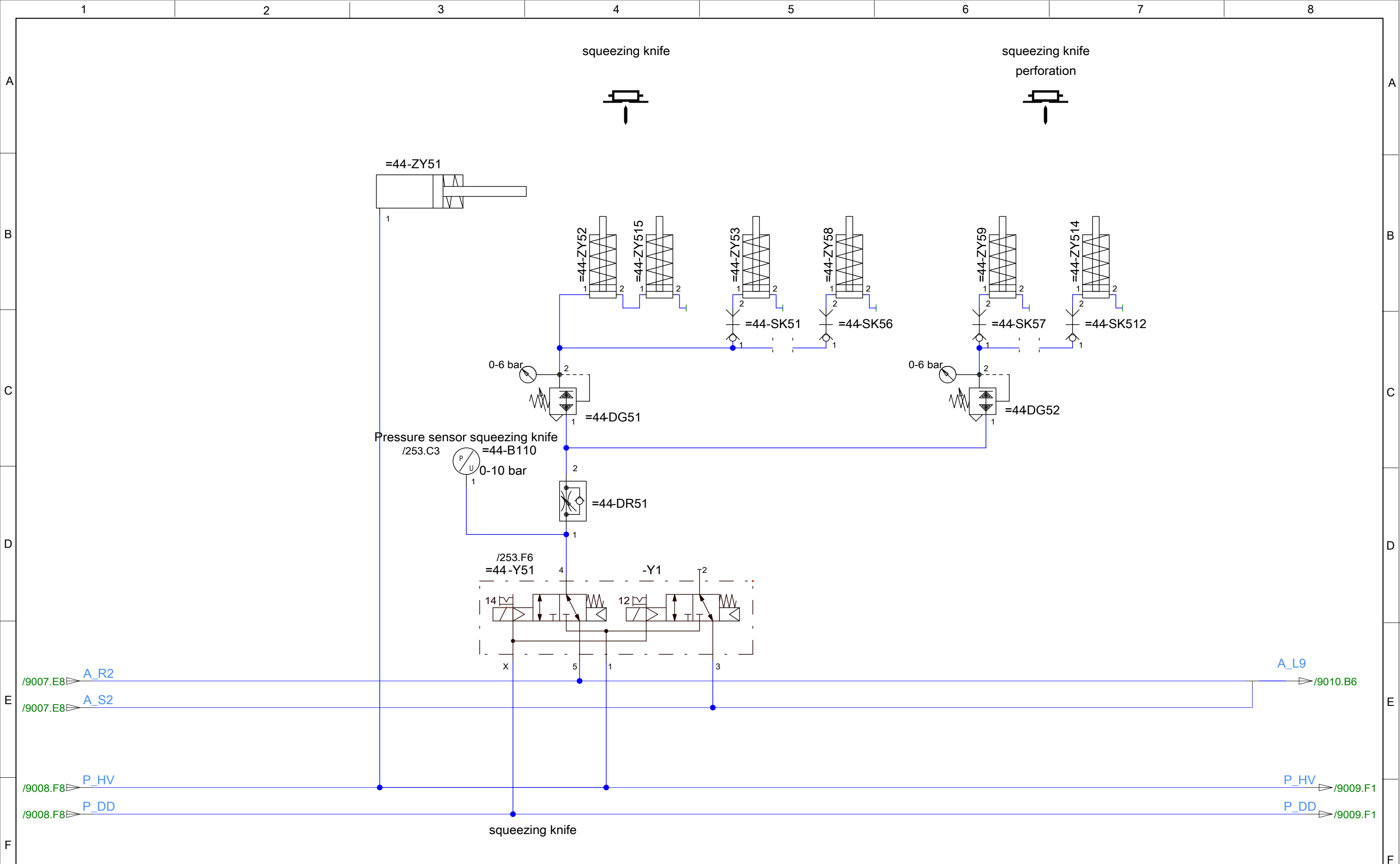
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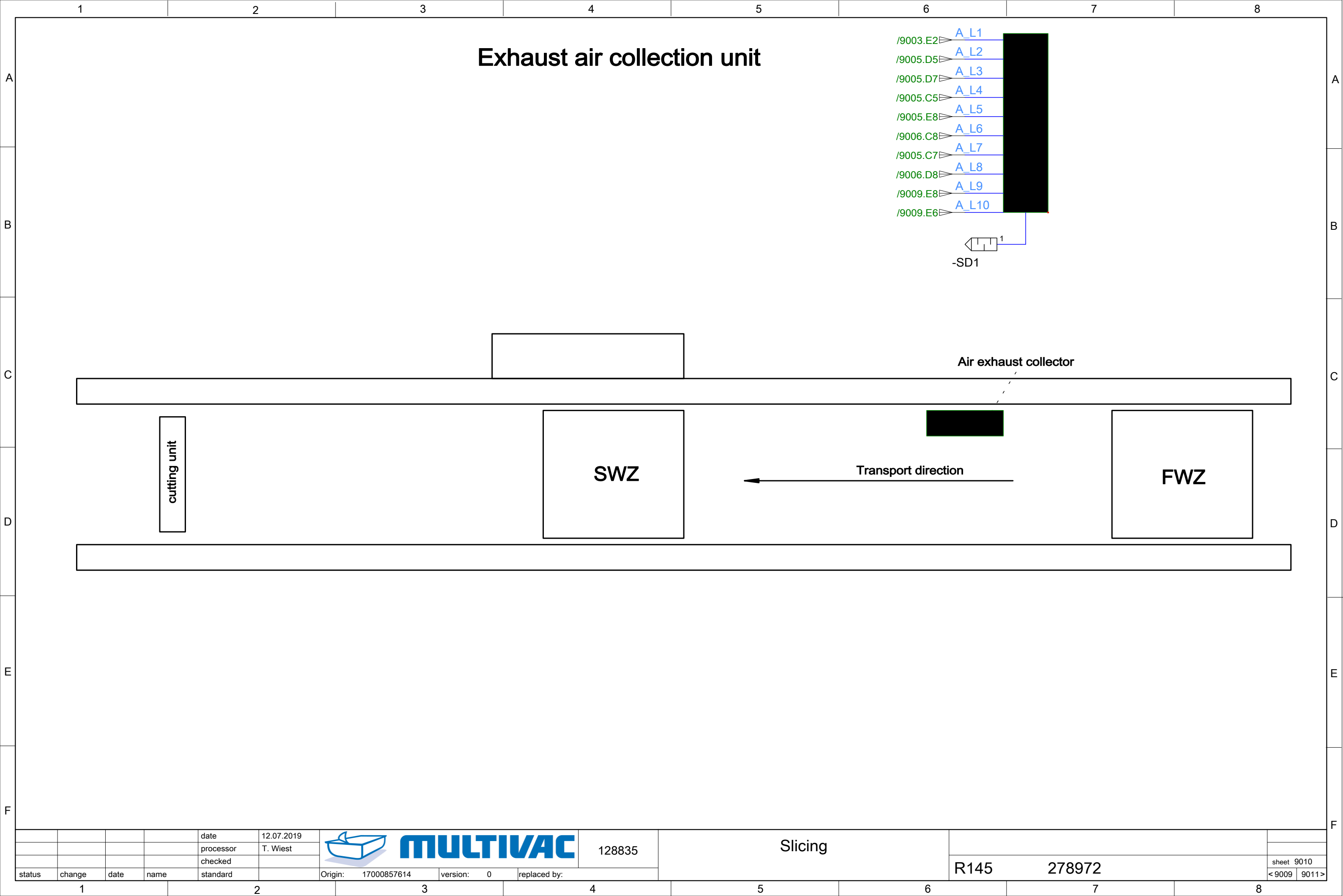


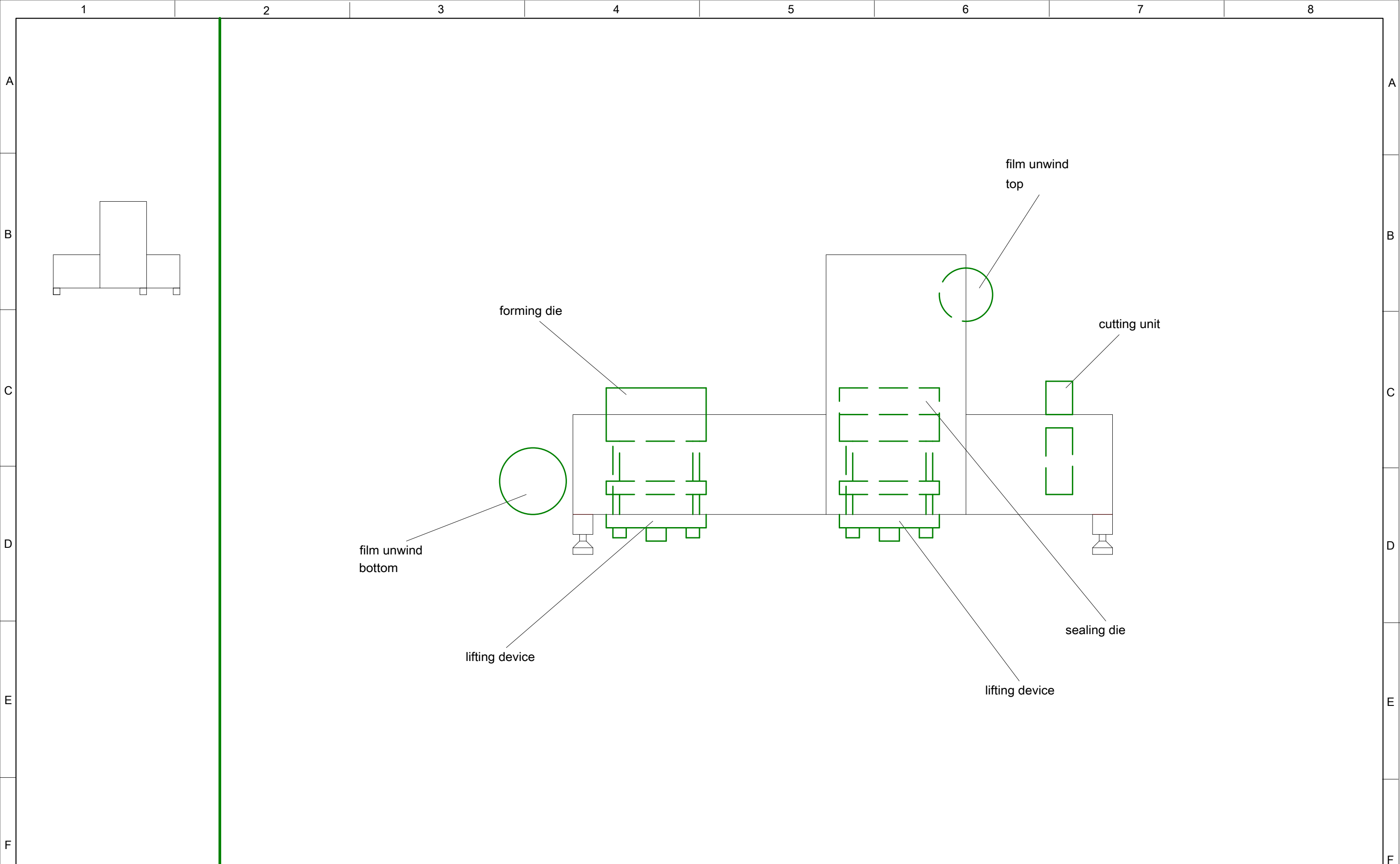
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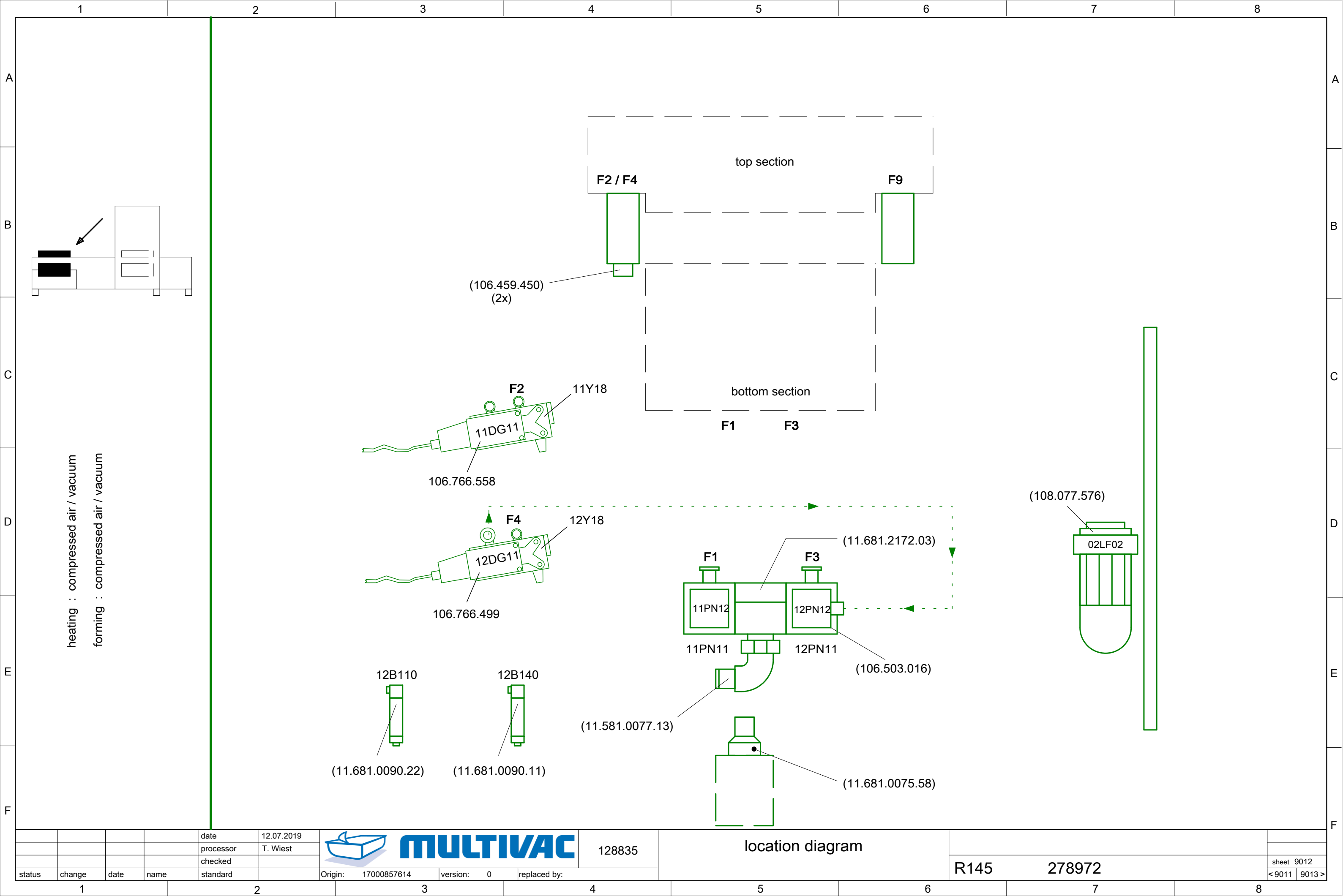
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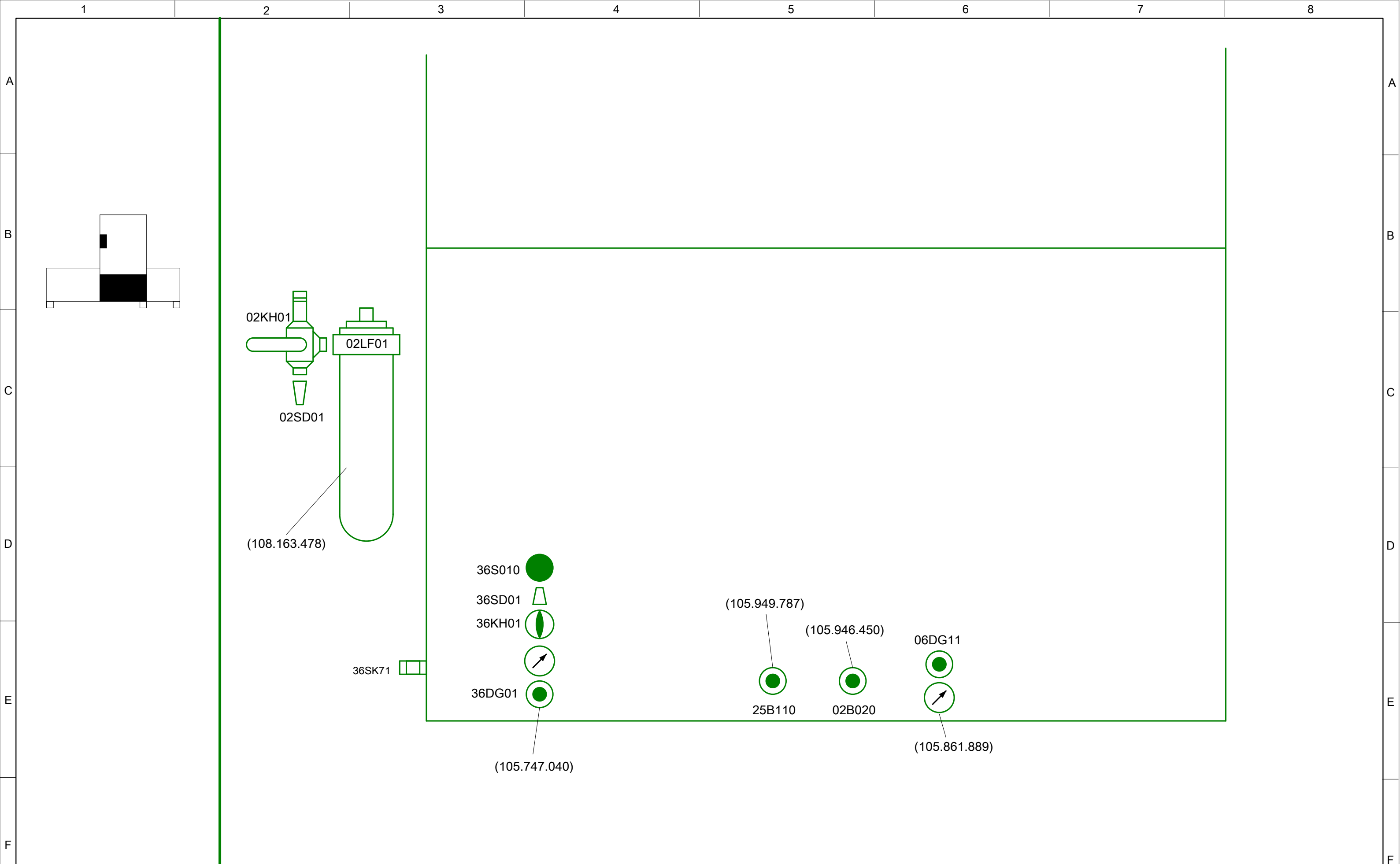





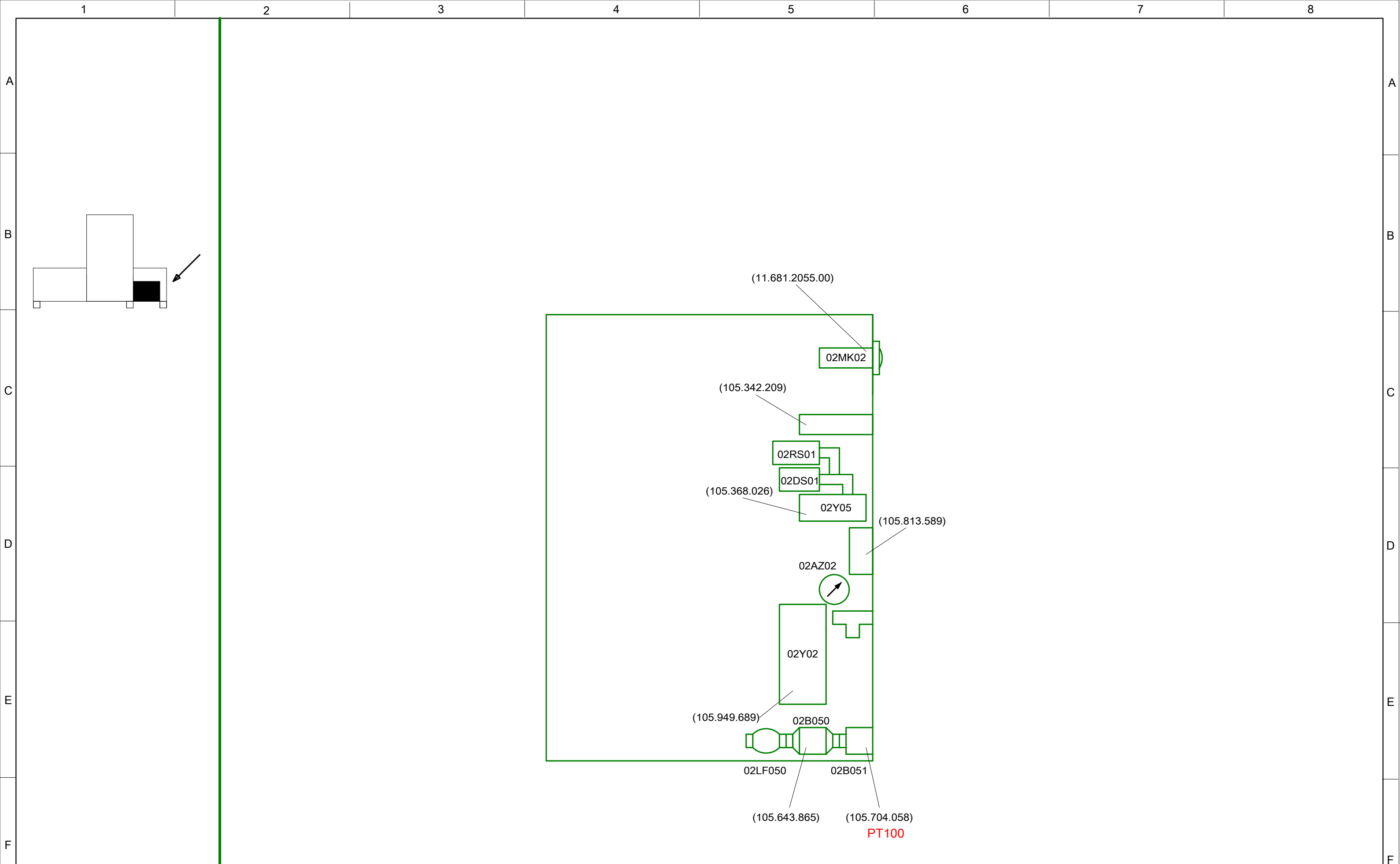


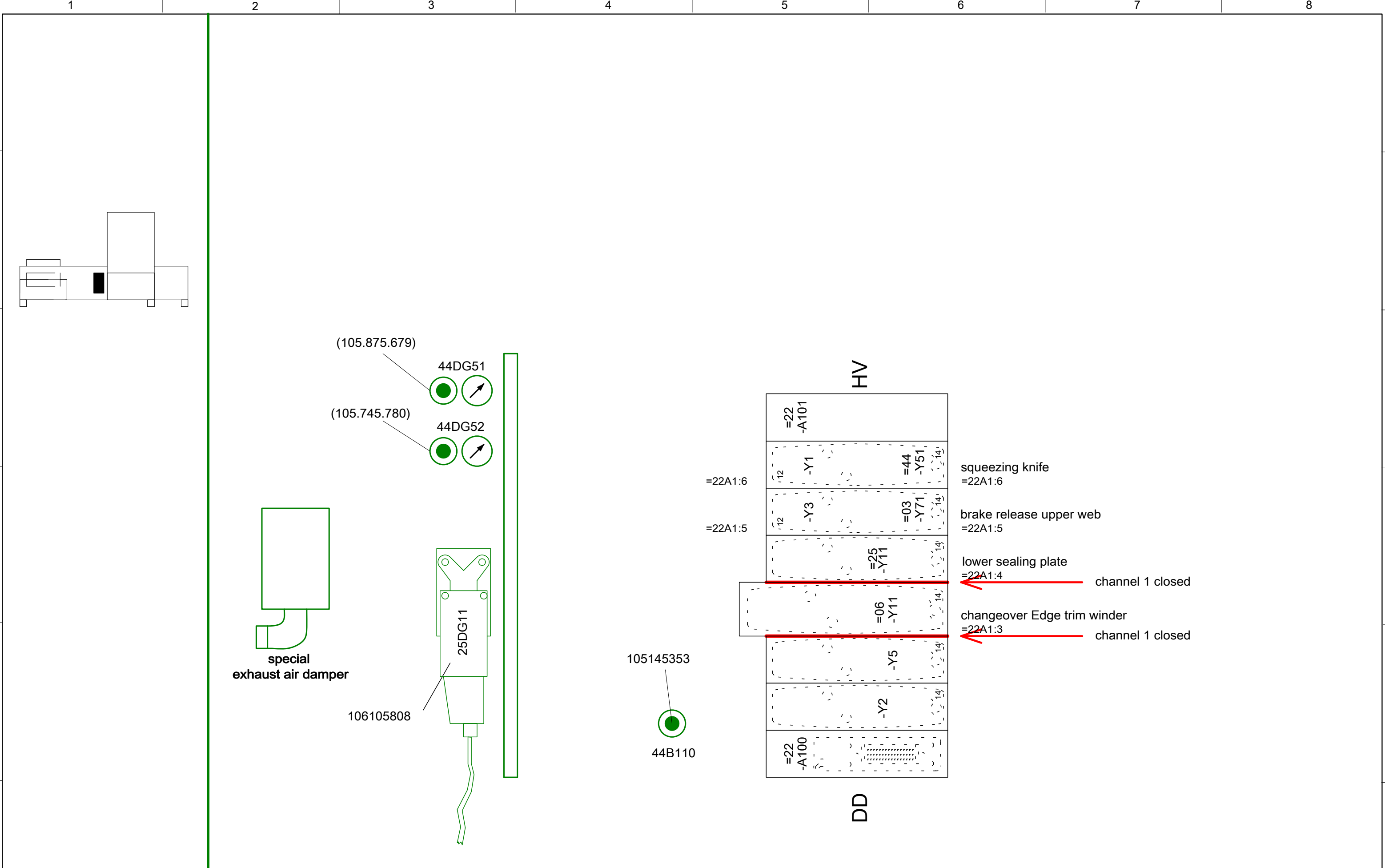
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				processor	T. Wiest								
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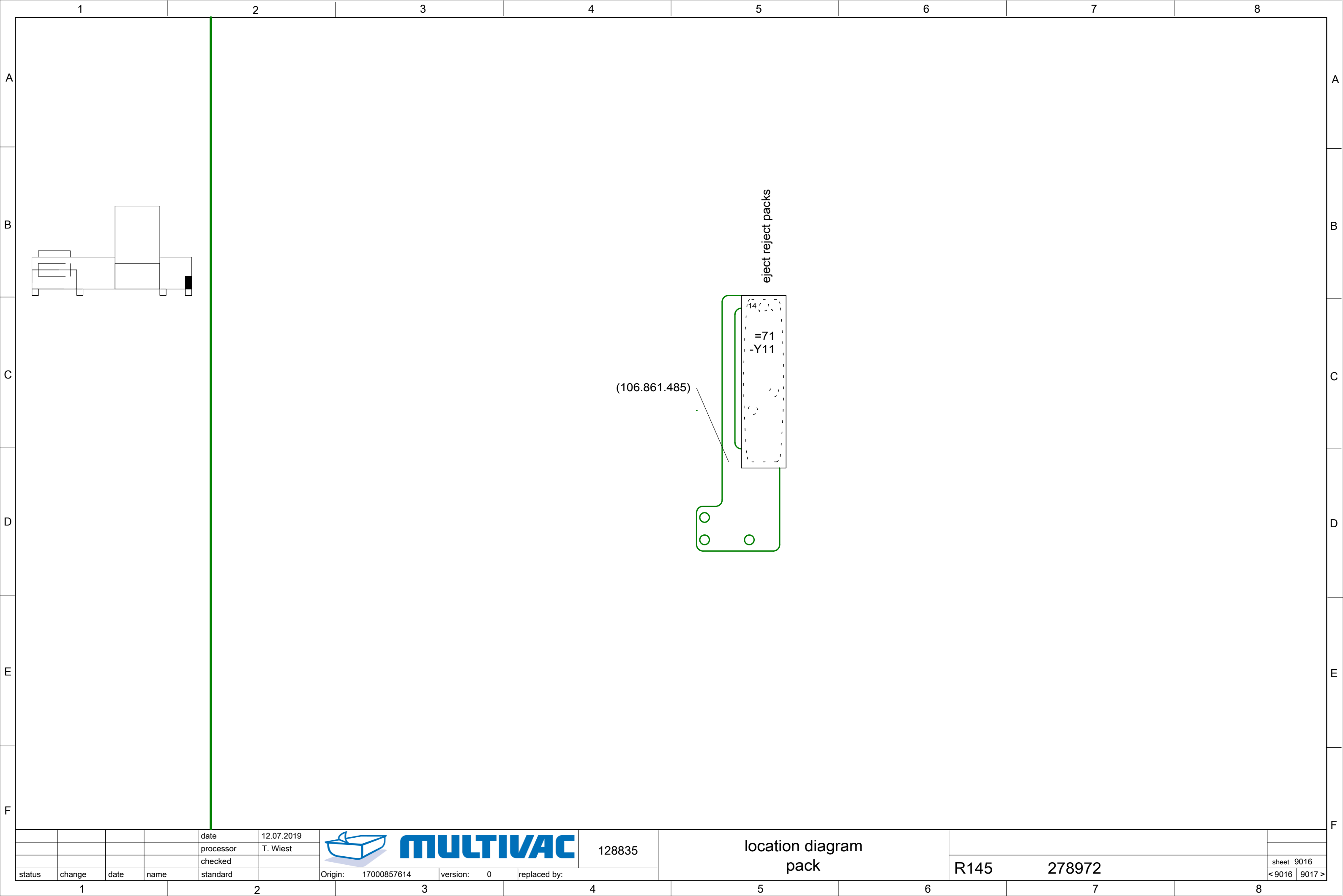





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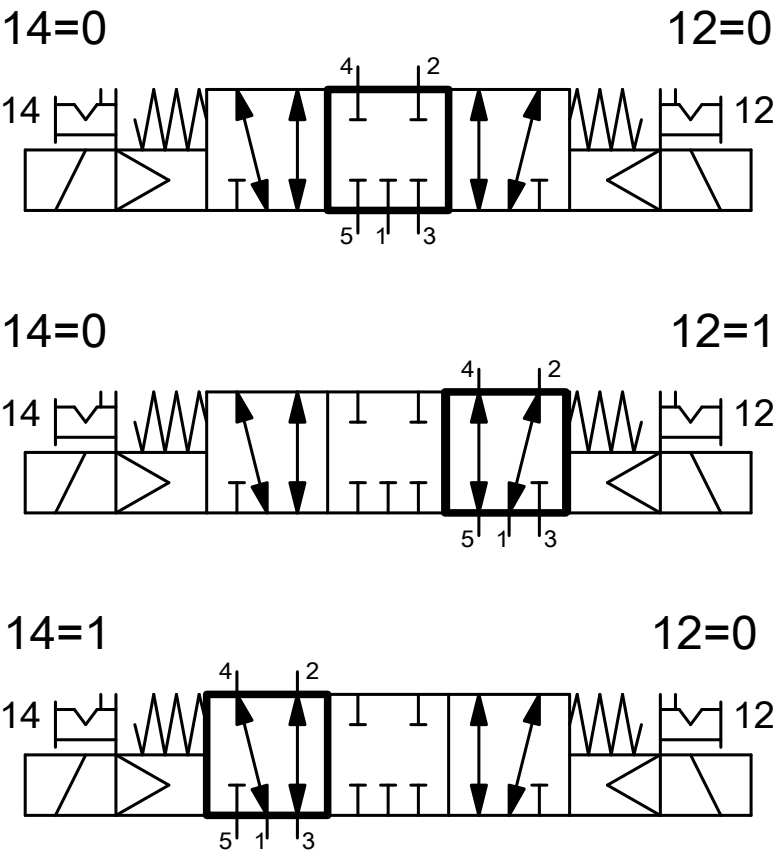




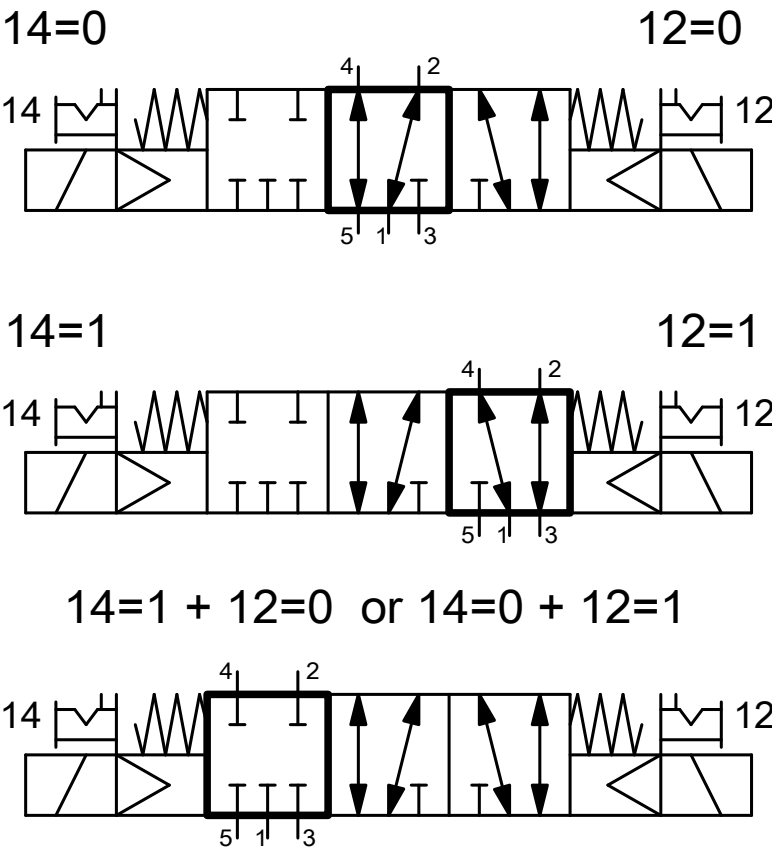
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position valves not actuated =0 / actuated =1

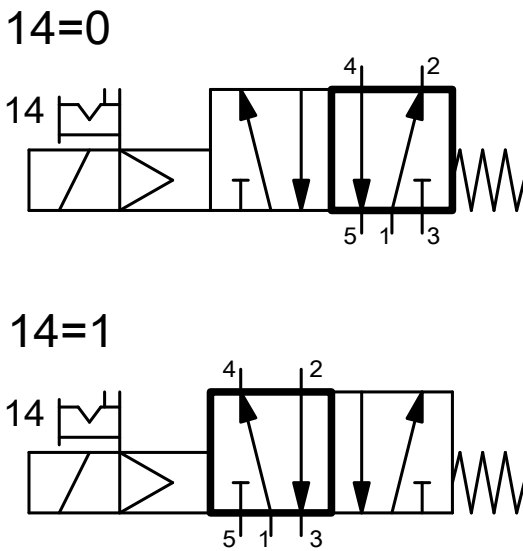
valve 5/3 NC



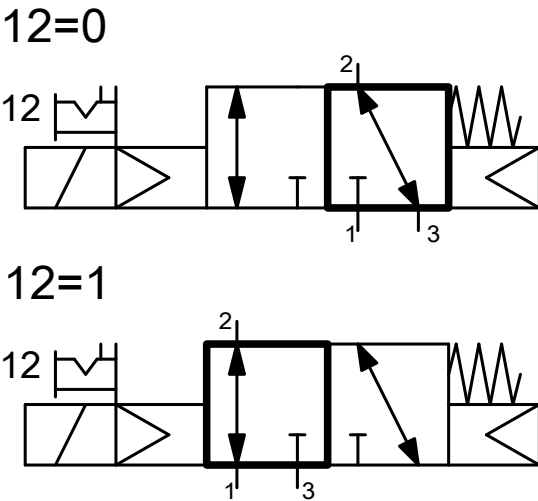
valve 5/3 NO



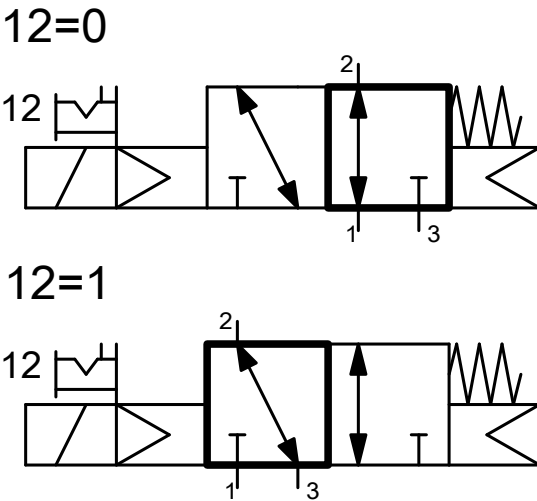
5/2 valve





3/2 valve NC



3/2 valve NO



	1	2	3	4	5	6	7	8			
A	BMK		sheet path	material number	designation	function text					
B	-SD1	/9010.B6	106908903	exhaust air damper							
	-Y1	/9009.E4	105436723	solenoid valve							
	-Y2	/9007.E4	105567757	solenoid valve							
B	-Y3	/9003.E4	105436738	solenoid valve							
	-Y5	/9007.E6	105567757	solenoid valve							
	=02-AZ02	/9001.E2	80431151080	manometer							
	=02-B020	/9001.D4	105946450	vacuum measuring system	Pressure sensor input pressure compressed air						
	=02-B050	/9001.C7	80431320102	Flow meter	flow monitorcooling water						
C	=02-B051	/9001.D7	105704058	water return line	temperature monitoring cooling water						
	=02-DS01	/9001.C6	80271111003	throttle valve							
	=02-KH02	/9001.D1	81113115087	ball valve							
	=02-LF01	/9001.E2	108160284	air filter							
	=02-LF02	/9001.D7	108077576	activated carbon filter							
	=02-LF050	/9001.C7	80272200000	dirt trap							
	=02-MK02	/9001.D2	11681205500	water circuit							
D	=02-RS01	/9001.C5	80272111410	non-return valve							
	=02-SD01	/9001.E1	80291114300	silencer							
	=02-Y02	/9001.E4	105949689	main compressed air valve	compressed air shut-off valve						
	=02-Y05	/9001.D6	105302163	2/2 valve	water inlet enable						
	=03-ME61	/9003.E2	81141839003	plug-in closure							
E	=03-SB1	/9003.D5									
	=03-Y71	/9003.D4			brake release upper web						
	=03-ZY61	/9003.B2									
	=03-ZY71	/9003.B4									
	=06-DG11	/9004.E5	105861889	pressure regulator							
	=06-DR11	/9004.B4	80272210711	throttle/non-return valve							
F	=06-DR12	/9004.B5	80272210711	throttle/non-return valve							
				date	12.07.2019						
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				checked							
	status	change	date	name	standard		Origin: 17000857614	version: 0			
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	1	2	3	4	5	6	7	8			
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	1	2	3	4	5	6	7	8
A	BMK		sheet path	material number	designation	function text		
B	=06-Y11	/9004.E5	105436705	solenoid valve		changeover Edge trim winder		
	=06-ZY11	/9004.B4						
	=11-DG11	/9005.D6	106020200	pressure regulator		heating pressure		
C	=11-PN11	/9005.C2	11581110004	valve				
	=11-PN12	/9005.C2	11581110000	valve				
	=11-SB1	/9005.C6	81141839003	plug-in closure				
D	=11-SD11	/9005.D6						
	=11-SD12	/9005.D6						
	=11-SE11	/9005.C7	107472596	quick exhaust valve				
E	=11-Y11	/9005.E2	105436725	solenoid valve		vacuum heating / preheat		
	=11-Y18	/9005.C6				changeovercompressed air pre-heating Diaphragm/compressed air heating-up		
	=12-A100	/9013.E4	105436598	end plate				
F	=12-A101	/9013.E4	105399486	end plate				
	=12-B110	/9005.B4	11681009022	vacuum measuring system		vacuum sensor forming vacuum		
	=12-B140	/9005.B6	11681009011	vacuum measuring system		Pressure sensor Forming pressure		
G	=12-DG11	/9005.D4	106020200	pressure regulator		heating pressure / forming		
	=12-PN11	/9005.C4	11581110006	valve				
	=12-PN12	/9005.C3	11581110000	valve				
H	=12-SD11	/9005.D4						
	=12-SD12	/9005.D5						
	=12-SE11	/9005.C5	107472596	quick exhaust valve				
I	=12-VP11	/9005.D8	11681007558	pump				
	=12-Y11	/9005.E3	105436725	solenoid valve		forming vacuum		
	=12-Y18	/9005.C5				changeover standard heating-up / forming		
J	=22-A100	/9016.E5	105436598	end plate				
	=22-A101	/9016.C5	105399486	end plate				
	=25-B110	/9006.B6	105949787	vacuum measuring system		Pressure sensor sealing pressure		
K				date	12.07.2019		list of parts	
				processor	T. Wiest			
				checked				
L	status	change	date	name	standard	Origin:	17000857614	version: 0
						replaced by:		
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	1	2	3	4	5	6	7	8	
A	<div>BMKsheetpathmaterial numberdesignationfunction text</div>								A
B	=25-DG11	/9006.D7	106105808	pressure regulator	pressure Sealing				B
	=25-PN11	/9006.C7	106015540	sealing valve					
	=25-Y11	/9006.E7	105436736	solenoid valve	lower sealing plate				
C	=36-AZ01	/9008.D4	80431151210	manometer					C
	=36-DG01	/9008.D4	80278111010	pressure regulator					
	=36-KH01	/9008.C4	81113115200	ball valve					
D	=36-S010	/9008.C4	106022182	pressure switch	compressed air ready labeller				D
	=36-SD01	/9008.C4	80291114110	silencer					
	=36-SK71	/9008.B4	81142111005	quick-release coupling					
E	=44-B110	/9009.D3	105145353	vacuum meas. sys. for pneu.	Pressure sensor squeezing knife				E
	=44-DG51	/9009.C4	105875679	pressure regulator					
	=44-DG52	/9009.C6	105745780	pressure regulator					
F	=44-DR51	/9009.D4	80272211220	throttle/non-return valve					F
	=44-SB1	/9009.D5	81141839003	plug-in closure					
	=44-SK51	/9009.C5							
	=44-SK512	/9009.C7							
	=44-SK56	/9009.C5							
	=44-SK57	/9009.C6							
	=44-Y51	/9009.D3			squeezing knife				
	=44-ZY51	/9009.B3							
	=44-ZY514	/9009.B7							
	=44-ZY515	/9009.B4							
	=44-ZY52	/9009.B4							
	=44-ZY53	/9009.B5							
	=44-ZY58	/9009.B5							
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	=71-DR11	/9009.C5							
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Wiest</div><div>checked</div><div></div></div><div><div></div><div></div><div></div><div></div><div>standard</div><div></div></div><div><div>Origin:</div><div>17000857614</div><div>version:</div><div>0</div><div>replaced by:</div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></d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