KLINGELNBERG

Cylindrical gear grinding machine

Speed Viper 300

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628	plug diagram +10-XG100.2 XG100.2 swivel loader door at rear	2022-12-13	Kusc_Nil
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630	plug diagram +10-XG101 -XG101 working chamber lighting intermediate storage	2022-12-13	Kusc_Nil
631	plug diagram +10-XG101.1 -XG101.1-loading door	2022-12-13	Kusc_Nil
632	plug diagram +10-XG101.2 -XG101.2 loading door connecting block	2022-12-13	Kusc_Nil
633	plug diagram +10-XG102 -XG102 external loading device	2022-12-13	Kusc_Nil
634	plug diagram +10-XG103 -XG103 external loading device	2022-12-13	Kusc_Nil
635	plug diagram +10-XG112 -XG112 control panel signals	2022-12-13	Kusc_Nil
636	plug diagram +10-XG113 -XG113 control panel signals	2022-12-13	Kusc_Nil
637	plug diagram +10-XG114 -XG114 control panel signals	2022-12-13	Kusc_Nil
638	plug diagram +10-XG115 -XG115 control panel signals	2022-12-13	Kusc_Nil
639	plug diagram +10-XG116 -XG116 grinding wheel step switch	2022-12-13	Kusc_Nil
640	plug diagram +10-XG300 -XG300 workpiece clamping device C1 nominal value	2022-12-13	Kusc_Nil
641	plug diagram +10-XG302 -XG302 2.Brake Z axis	2022-12-13	Kusc_Nil
642	plug diagram +10-XG600 -XG600 Head dresser in basic position	2022-12-13	Kusc_Nil
643	plug diagram +10-XG601 -XG601 Head dresser in working position	2022-12-13	Kusc_Nil
644	plug diagram +10-XG602 -XG602 valve Head dresser to working position	2022-12-13	Kusc_Nil
645	plug diagram +10-XG812.2 -XG812.2 release pneumatic movements	2022-12-13	Kusc_Nil
646	plug diagram +10-XG813.1 -XG813.1 unclamping A axis valve 1	2022-12-13	Kusc_Nil
647	plug diagram +10-XG813.2 -XG813.2 unclamping A axis valve 2	2022-12-13	Kusc_Nil
648	plug diagram +10-XG814 -XG814 release undo tool clamping device	2022-12-13	Kusc_Nil

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649	plug diagram +10-XG900 -XG900 24VDC valve terminal	2022-12-13	Kusc_Nil
650	plug diagram +10-XG902.3 -XG902.3 sealing air shut-off	2022-12-13	Kusc_Nil
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654	plug diagram +10-XG906.2 -XG906.2 valve gripper 2	2022-12-13	Kusc_Nil
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656	plug diagram +10-XG912 -XG912 24VDC IO link master hydraulics	2022-12-13	Kusc_Nil
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694	plug diagram +60-XG302.1 external brake Z-axis	2022-12-13	Kusc_Nil
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Safety instructions

Danger

The electrical equipment may only be operated if the defined technical parameters (see data sheet) are observed.

Danger

Only electricians and/or personnel with electro-technical training may access the inside of the control cabinet while observing DIN EN 60204-1.

This personnel must take into account the technical customer documentation for the products and observe the specified danger notices and warnings.

All work on the switchgear must be carried out with the device voltage-free.

Danger

The machine is equipped with the "SINUMERIK SAFETY INTEGRATED" machine and personal protection system

The installed software and hardware has been put through a documented acceptance test (see control unit's log book).

Modifications to the software and hardware not approved by the manufacturer may impact on the safety functions and therefore result in a loss of operating permit and warranty.

Switchgear nominal values

parameter	Value
Network configuration	TT
Nominal voltage	3 AC 400 V
Rated frequency	50 Hz
rated current	50 A
Characteristics for external short-circuit protective device (SCPD)	NH-Sicherung 80 A gl/gg 500V
Usable connection cross-section for supply cable	CU flexibel ohne Aderendhülse 120 mm²
Rated short-circuit current ICC:	15 kA
Rated insulation voltage (circuits on system voltage)	500 V
Rated load factor	0,9
Electromagnetic compatibility (EMC)	The drive system is equipped with line filter category 3 in accordance with EN 61800-3
Nominal voltage control circuit	DC 24 V
Protection class	IP54 according to DIN EN 60529

Switchgear operating values

parameter	Value
operating voltage	AC 360 V bis AC 440 V
Operating frequency	49,5 Hz bis 50,5 Hz
Loading of the neutral conductor	not permitted
Ambient temperature	10°C bis 45°C
Relative air humidity	75 %
Condensation	not permitted
Temperature change	max.. 10 K/h, max. 1 K / 3 min
Height above MSL	max. 1000 m

Structure of the reference markings according to DIN EN 81346

Location note	Equipment marking	Connection

Location structure

01	Customer
05	Transformer
6SN1113-1AA00-1JA1 _2D	
06	Voltage stabilizer
10	Control cabinet
19	Fire extinguishing system alerting
25	Control panel
26	Hand-held unit
29	Fire extinguishing system manual release
35	Installation board
36	Hydraulics distributor
40	Cooling 1
48	Gap finding device C1 at Z3 axis
49	Gap finding device C1 at Z4 axis
50	Machine bed
52	Column radial
55	Machine table 1
56	Machine table 2
60	Grinding head stroke axis
61	Internal grinding arm
65	Grinding oil feed
66	Measuring device
67	Grinding spindle
68	Grinding spindle shift axis
69	Swivel axis of grinding head
70	Energy chain
75	Machine cover
77	Leakage oil pan, machine
78	Leakage oil pan, internal loader
79	Machine working chamber
81	Pressure boosting station
82	Cooling lubricant cleaning unit
83	Oil mist collector
86	Elevating mechanism
88	Return oil pump
90	Dressing unit
92	Counter support 1
93	Counter support 2
94	
95	Cable duct, fixed laying on the machine
96	Grinding head energy chain
99	Fire extinguishing system
100	Automation

Object

object-specifically 5.1

Connection

object-specifically

Structure of the reference markings according to DIN EN 81346

Location note	Equipment marking	Connection

Location structure

101	Intermediate storage
102	External automation

Object

object-specifically	7

Connection

object-specifically

Object identification according to IEC 81346-2 table 2

DIN EN 81346-2 1568910

Object identification	Purpose or task of object	Examples
BA	Electrical potential	Voltage converter, modem, balancing module
BF	Flow, throughput	Flow meter, gas meter, water meter
BG	Distance, length, position	Door switch, cam switch, measuring probe, path and angle measuring system
BL	Height details, stand	Level indicator, fill level sensor
BP	Pressure, vacuum	pressure sensor
BT	temperature	temperature sensor
CA	Memory, capacitive	capacitor
CF	save information	RAM, EPROM, hard disk, RFID chip
EA	Generation of electromagnetic radiation	Fluorescent lamp, machine light
EC	Generation of cooling energy by means of electrical energy	cooling unit
EQ	Generation of cooling energy by means of energy exchange	Heat exchanger, fan
FC	Protection from overcurrents	Fuse, automatic circuit breaker, protective motor switch
GB	Initialize an electrical energy flow through chemical conversion	Battery, storage battery
GP	Initialize a flow of liquid and free-flowing substances	Pump, hydraulic unit
HR	Separate material mixes using electrostatic or magnetic forces	Magnetic separator, electric filter
KF	Processing of electrical and electronic signals	Relay, transistor, controller, opto coupler, safety switching device, industrial PC, PLC/NC processor
KK	Processing of various information carriers	solenoid valve
MA	Drive electromagnetically	Electric motor, servomotor
PF	Visual representation of individual statuses	Indicator light, LED, segment light
PH	Visual display of information in image or text form	Screen, signs, touchscreen, operating panel front
QA	Switch and vary electrical energy circuits	Power switch, contactor, motor starter, soft starter, inverter for drives with variable speeds

Object identification	Purpose or task of object	Examples
QB	Separate energy circuits	Load break switch, automatic circuit breaker (as isolating function)
QL	Brakes in mechanical power transmission devices	brake
QQ	Open and close inlets or access points	Cover, safety locking
RA	Restrict the flow of electrical energy	Diode, choke, resistance, filter/choke combination
RF	Stabilize signals	Filter, signal amplifier, low-/high-pass filter
SF	Conversion of a manual actuation into a signal	Keyboard push-button switch, selector switch, machine control panel, handheld terminal, PC keyboard
TA	Conversion of electrical energy while observing the energy type and energy form	DC/DC converter, frequency converter, transformer, UPS control unit
TB	Conversion of electrical energy while observing the energy type and change in energy form	Inverted rectifier, rectifier, mains adapter, supply module for inverter
TF	Conversion of signals	Amplifier, isolation transformer, U/I converter, measurement converter, repeater
UA	Hold and carry electrical energy devices	Mounting plate, supporting rail, extension screen
UC	Enclose electrical energy devices	Control cabinet, operating case, terminal box
WC	Distribute energy <1kV	Busbar <1kV
WD	Transport energy < 1kV	Power cable (110V - 480V)
WF	Distribute electrical or electronic signals	Data bus, fieldbus, (USB, PROFIBUS, PROFINET, DRIVE-CLiQ)
WG	Transport electrical and electronic signals	Control cable, data cable, measurement cable, encoder line, actuator/sensor cable
XD	Connect <= 1 kV AC or 1,5 kV DC	Plug connector, connection distributor, motor plug
XE	Connect ground or reference potential	Grounding terminal, shield terminal, isolating terminal
XF	Connect data transfer networks	Stroke, switch, coupler, modem, router
XG	Connect electrical signals	Plug connector, bus connection plug, passive distributor for actuators/sensors

Conductor colors of main circuits according to IEC 60204-1

black	ungrounded conductors independent of the voltage
light blue	Grounded conductor independent of the voltage
orange or black / orange	Conductors, which are not shut down by the main breaker

Conductor colors of control circuits according to IEC 60204-1(max.% 2V DC)

red	ungrounded AC conductors
white	grounded AC conductors independent of the voltage
blue	ungrounded DC conductors
white with blue stripes	grounded DC conductors
orange	Ungrounded conductor, 1. External supply or supply that is not switched off by the main breaker
white-orange striped	grounded conductors, 1 external supply or that are not switched off by the main breaker
yellow	ungrounded conductors, 2. External supply
white-yellow striped	grounded conductor, 2. External supply

Conductor colors of other circuits according to UL 508 A

green-yellow	Protective conductor / PE	—·—·—·—

Line information

Line material	Cu
For all line cross-sections, the following unit of measurement applies:	mm²
All lines not identified	0,75 mm² BU
All cross sections without additional specification	PVC single strand according to DIN VDE 0812, part 7 Temperature up to +90ºC
Cross-section data with symbol #	Inherently short-circuit and earth-fault proof laying according to IEC 60439-1, 7.5.5.3

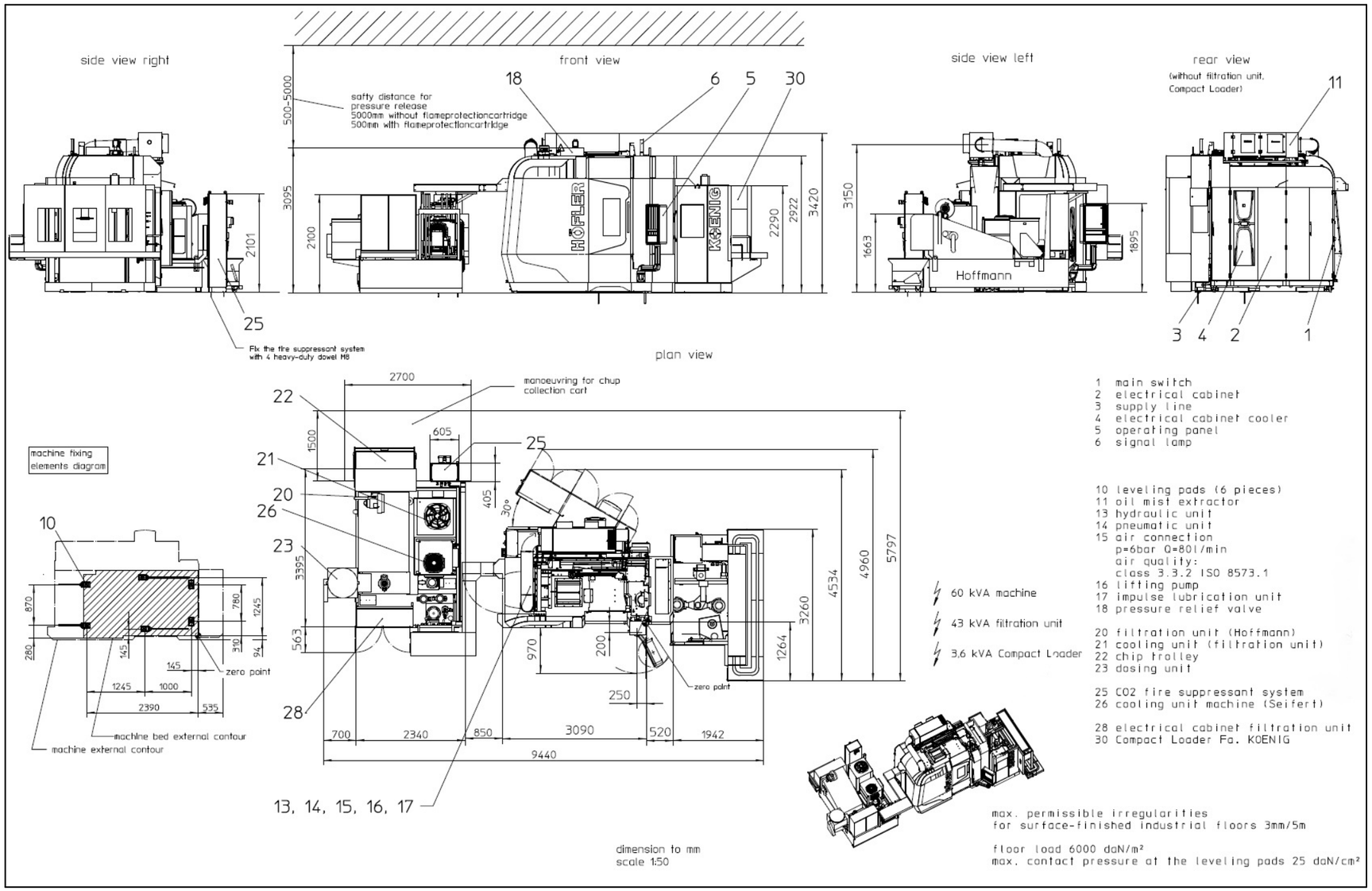
Code of color identification according to IEC 60757

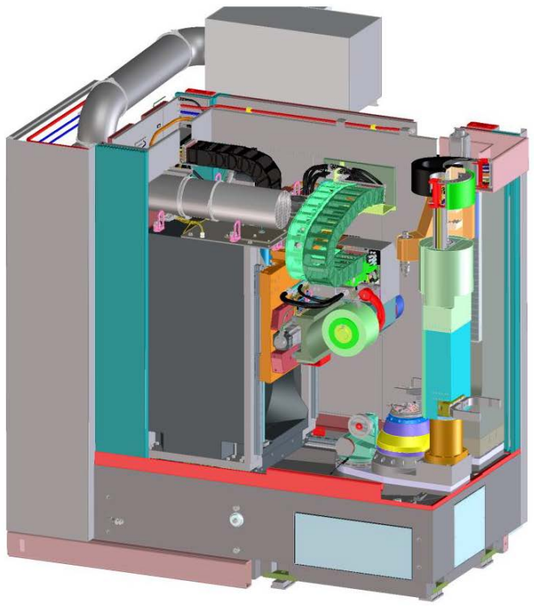
schwarz	black	BK
braun	brown	BN
rot	red	RD
orange	orange	OG
gelb	yellow	YE
grün	green	GN
blau	blue	BU
hellblau	lightblue	LBU
violett	violett	VT
grau	grey	GY
weiss	white	WH
rosa	pink	PK
gold	gold	GD
türkis	torquoise	TQ
silber	silver	SR
grün-gelb	green-yellow	GNYE
weiss-blau	white-blue	WHBU
weiss-orange	white-orange	WHOG
weiss-gelb	white-yellow	WHYE

Cross-section

AWG	d (mm)	A (mm²)	R(Ohm/km)	Metrisch (mm²)
1	7,35	42,41	0,42	50
2	6,54	33,63	0,53	35
3	5,83	26,67	0,67	-
4	5,19	21,15	0,84	25
5	4,62	16,77	1,06	-
6	4,12	13,30	1,34	16
7	3,66	10,55	1,69	-
8	3,26	8,37	2,13	10
9	2,91	6,63	2,68	-
10	2,59	5,26	3,38	6
11	2,30	4,17	4,27	-
12	2,05	3,31	5,38	4
13	1,83	2,62	6,78	-
14	1,63	2,08	8,55	2,5
15	1,45	1,65	10,8	-
16	1,29	1,31	13,6	1,5
17	1,15	1,04	17,1	-
18	1,0237	0,823	21,6	1
19	0,9116	0,653	27,3	0,75
20	0,8118	0,518	34,4	0,75
21	0,7229	0,410	43,4	0,5
22	0,6438	0,326	54,7	0,34

Machine view SV180/SV300





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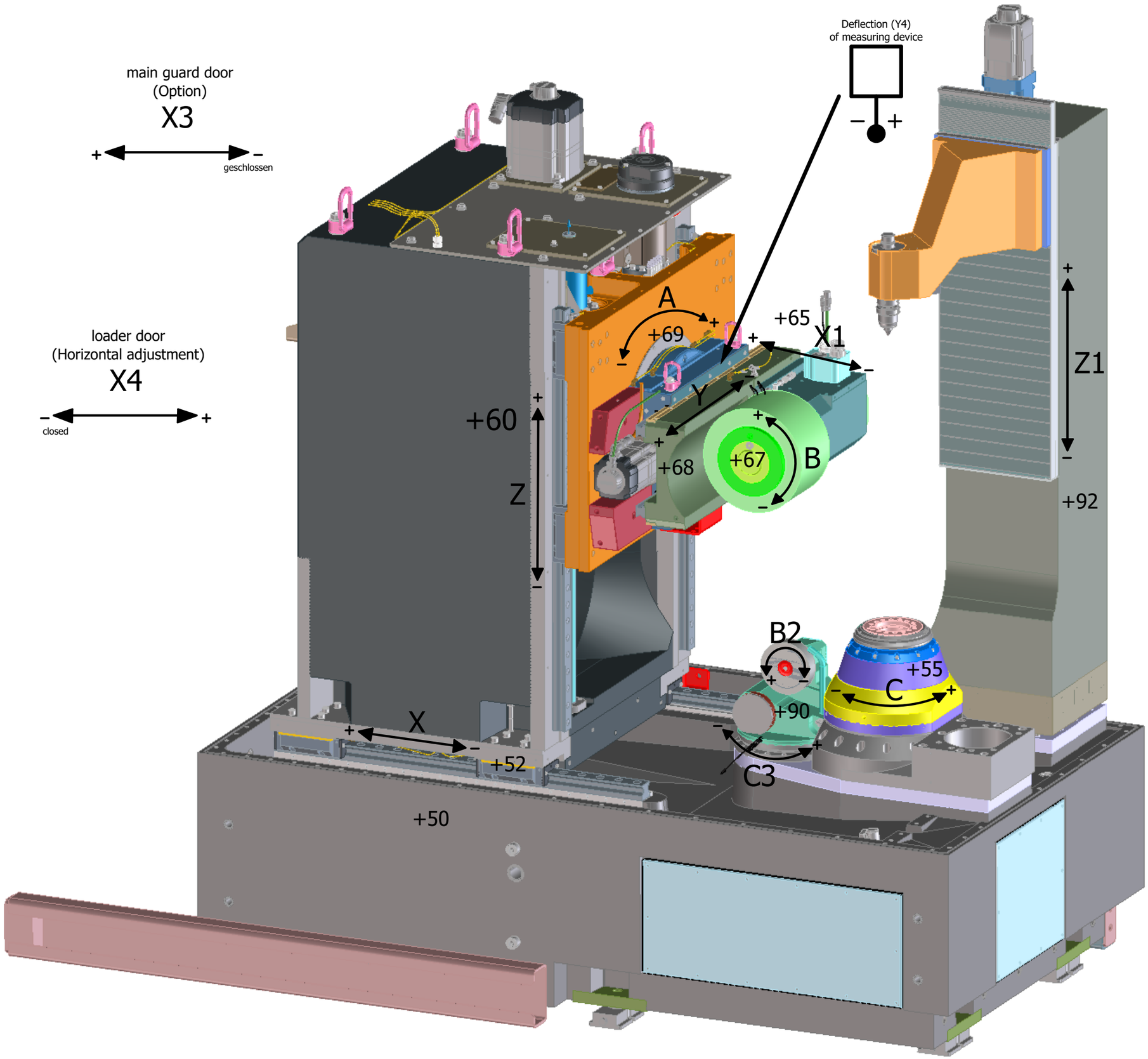
			Checked					650.01.433021	page 9
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20



Location identification

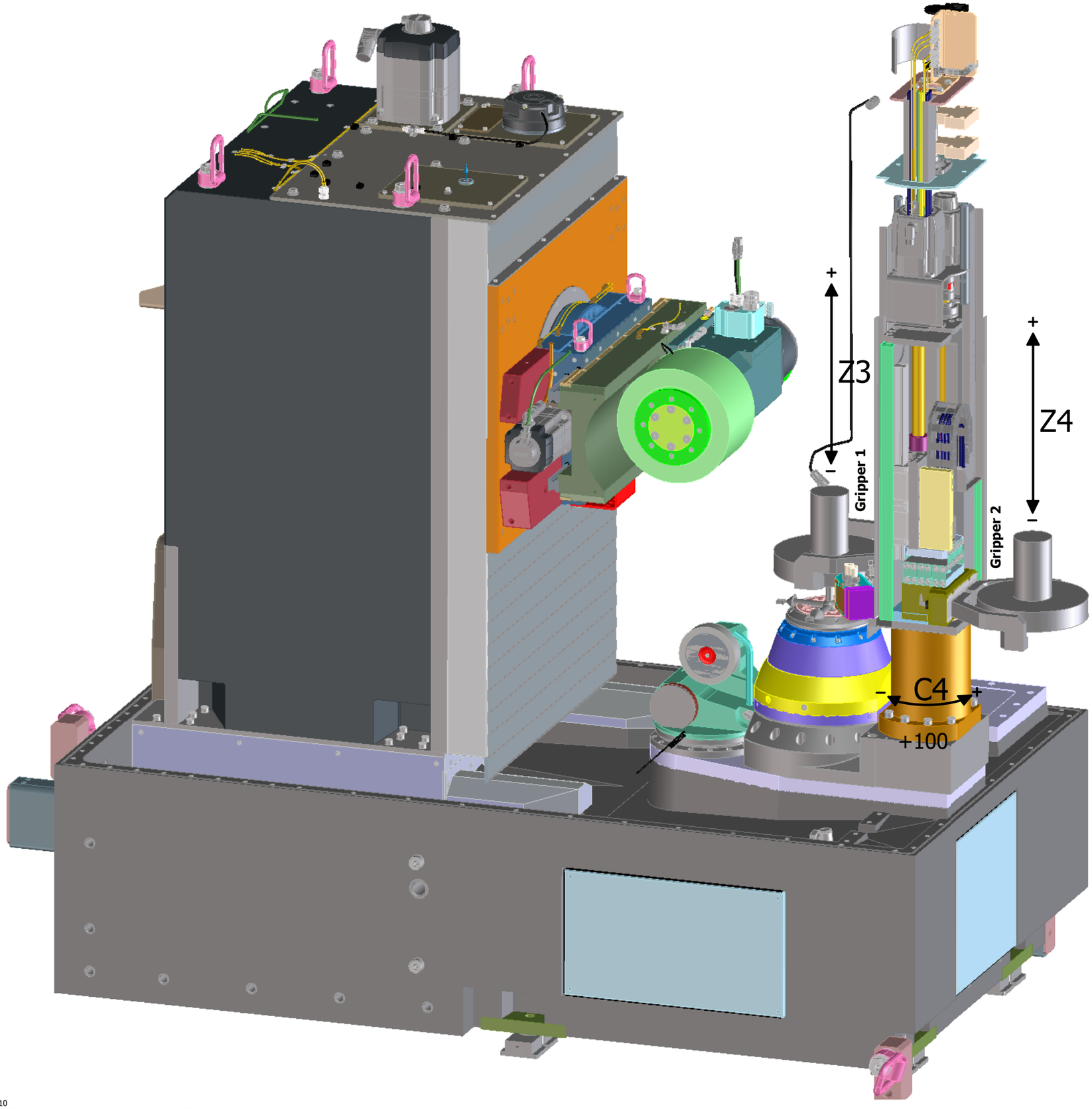
+35	Installation board, installation room (includes the return oil pump, hydraulics, lubrication, pneumatics)
+48	Gap finding device Z3 axis
+49	Gap finding device Z4 axis
+50	Machine bed
+52	Column radial
+55	Workpiece spindle
+60	Grinding head stroke axis
+65	Grinding oil feed (fitted on shift bed)
+66	Measuring device (mounted on housing of grinding spindle)
+67	Tool spindle
+68	Shift axis
+69	Grinding head swiveling
+90	Dressing unit
+92	Counter support 1
+75	Machine cover
+79	Machine working chamber
+82	Cooling lubricant cleaning unit
+83	Oil mist collector
+95	Cable duct
+99	Fire extinguishing system
+100	Loader (comprising axes Z3, Z4, C4, gap finding device also mounted on this)
+102	Automation (external)

Further location identifications

+01	Customer
+05	Transformer
+06	Voltage stabilizer
+10	Control cabinet
+19	Fire extinguishing system alerting
+25	Control panel
+26	Hand-held unit
+29	Fire extinguishing system manual release

Potential add-ons

+36	Hydraulics distributor	
+40	Cooling 1	
+54	Swivel axis of turret	--> SV80
+56	Workpiece spindle 2	--> SV80
+61	Internal grinding arm	
+77	Leakage oil pan, machine	
+78	Leakage oil pan, internal loader	
+81	Pressure boosting station	
+86	Elevating mechanism	
+93	Counter support 2	--> SV80
+96	Grinding head energy chain	
+101	Transfer point (internal/external loading)	



Location identification

+35	Installation board, installation room (includes the return oil pump, hydraulics, lubrication, pneumatics)
+48	Gap finding device Z3 axis
+49	Gap finding device Z4 axis
+50	Machine bed
+52	Column radial
+55	Workpiece spindle
+60	Grinding head stroke axis
+65	Grinding oil feed (fitted on shift bed)
+66	Measuring device (mounted on housing of grinding spindle)
+67	Tool spindle
+68	Shift axis
+69	Grinding head swiveling
+90	Dressing unit
+92	Counter support 1
+75	Machine cover
+79	Machine working chamber
+82	Cooling lubricant cleaning unit
+83	Oil mist collector
+95	Cable duct
+99	Fire extinguishing system
+100	Loader (comprising axes Z3, Z4, C4, gap finding device also mounted on this)
+102	Automation (external)

Further location identifications

+01	Customer
+05	Transformer
+06	Voltage stabilizer
+10	Control cabinet
+19	Fire extinguishing system alerting
+25	Control panel
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Potential add-ons

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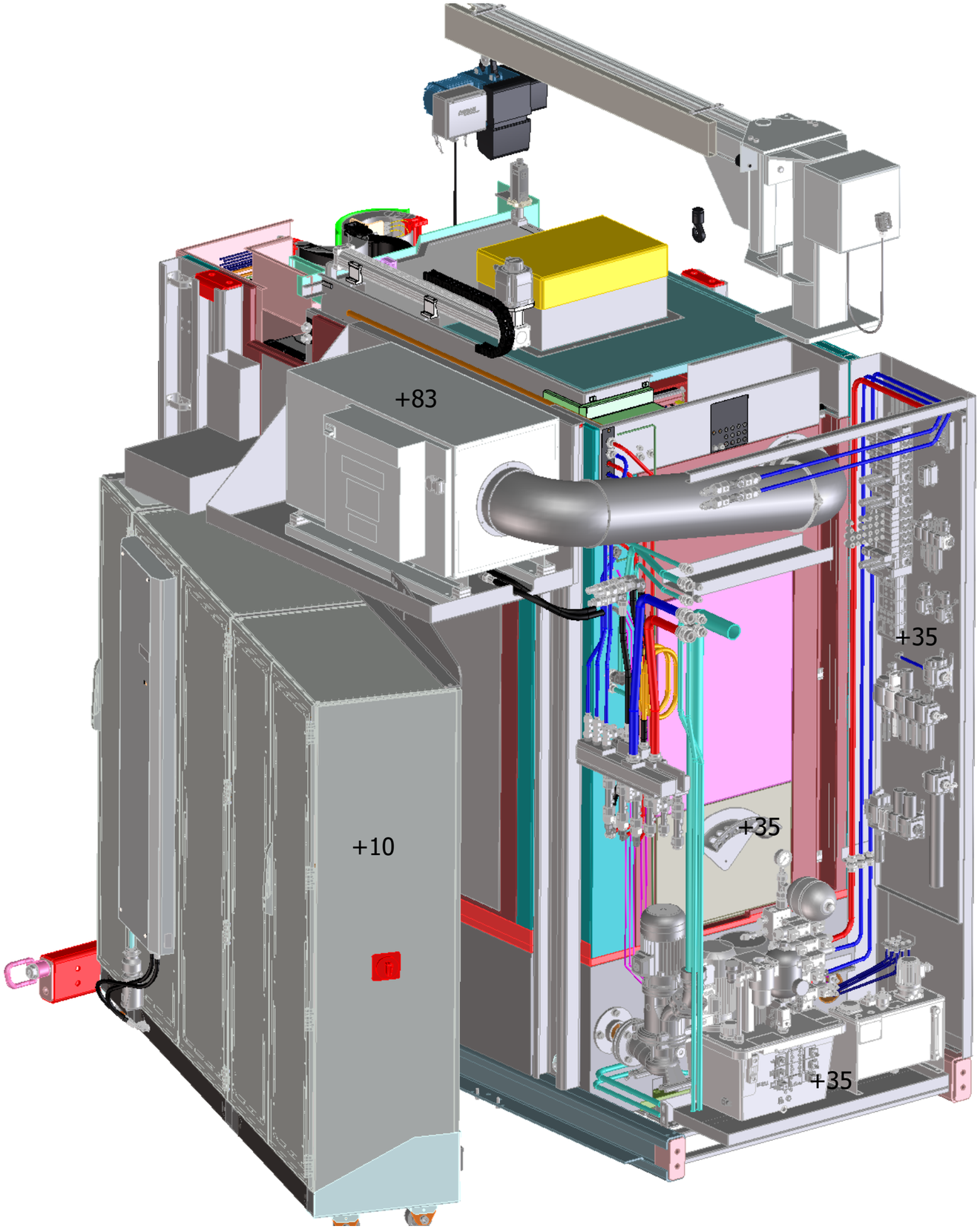
+40	Cooling 1	
+54	Swivel axis of turret	--> SV80
+56	Workpiece spindle 2	--> SV80
+61	Internal grinding arm	
+77	Leakage oil pan, machine	
+78	Leakage oil pan, internal loader	
+81	Pressure boosting station	
+86	Elevating mechanism	
+93	Counter support 2	--> SV80
+96	Grinding head energy chain	
+101	Transfer point (internal/external loading)	



Location identification

+35	Installation board, installation room (includes the return oil pump, hydraulics, lubrication, pneumatics)
+48	Gap finding device Z3 axis
+49	Gap finding device Z4 axis
+50	Machine bed
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+55	Workpiece spindle
+60	Grinding head stroke axis
+65	Grinding oil feed (fitted on shift bed)
+66	Measuring device (mounted on housing of grinding spindle)
+67	Tool spindle
+68	Shift axis
+69	Grinding head swiveling
+90	Dressing unit
+92	Counter support 1
+75	Machine cover
+79	Machine working chamber
+82	Cooling lubricant cleaning unit
+83	Oil mist collector
+95	Cable duct
+99	Fire extinguishing system
+100	Loader (comprising axes Z3, Z4, C4, gap finding device also mounted on this)
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Further location identifications

+01	Customer
+05	Transformer
+06	Voltage stabilizer
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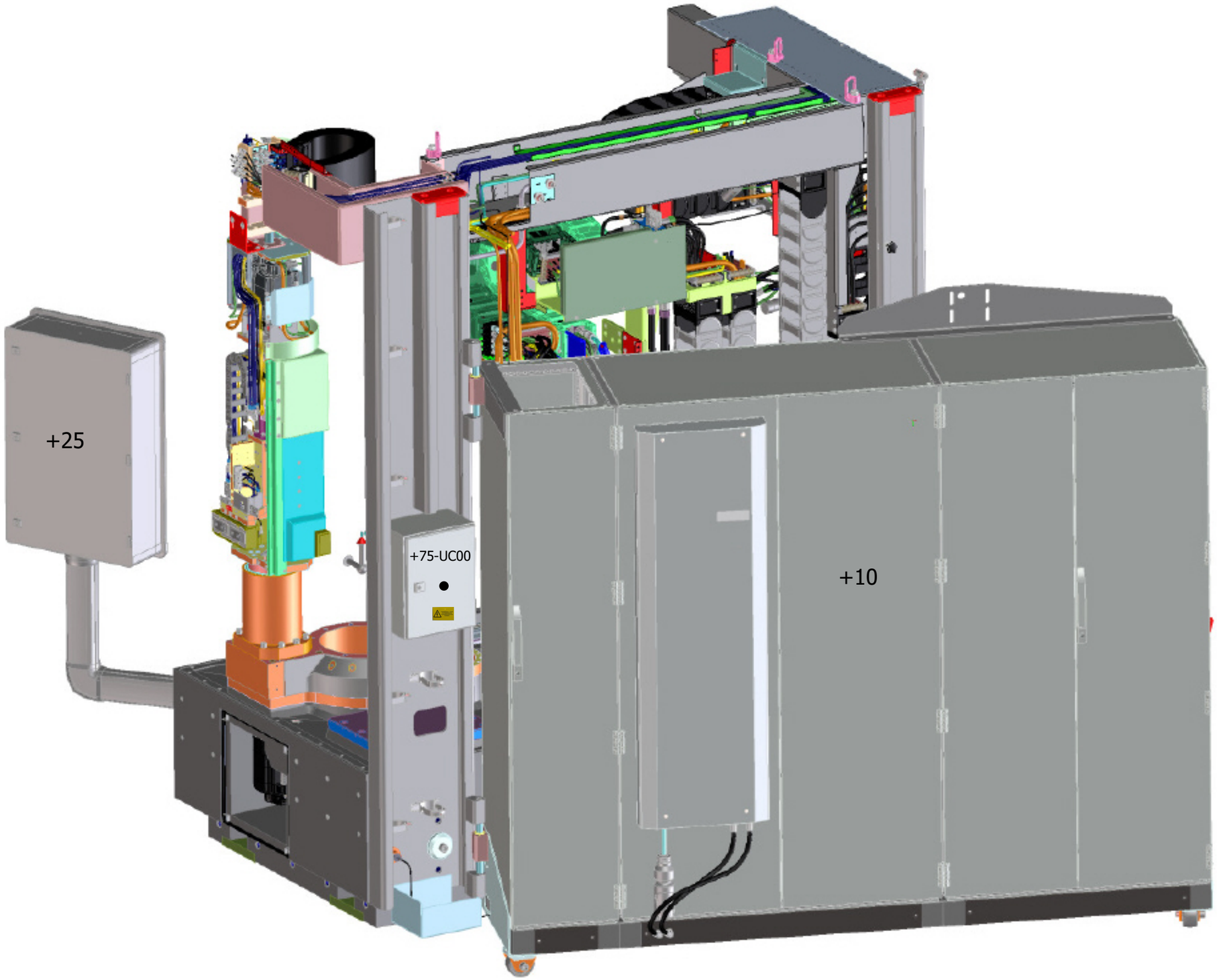
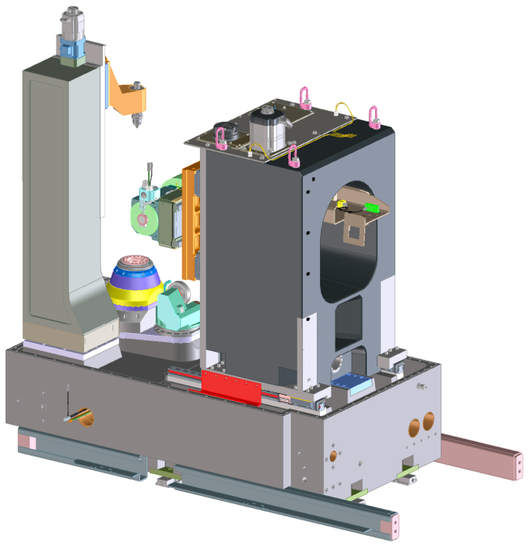
Potential add-ons

+36	Hydraulics distributor	
+40	Cooling 1	
+54	Swivel axis of turret	--> SV80
+56	Workpiece spindle 2	--> SV80
+61	Internal grinding arm	
+77	Leakage oil pan, machine	
+78	Leakage oil pan, internal loader	
+81	Pressure boosting station	
+86	Elevating mechanism	
+93	Counter support 2	--> SV80
+96	Grinding head energy chain	
+101	Transfer point (internal/external loading)	

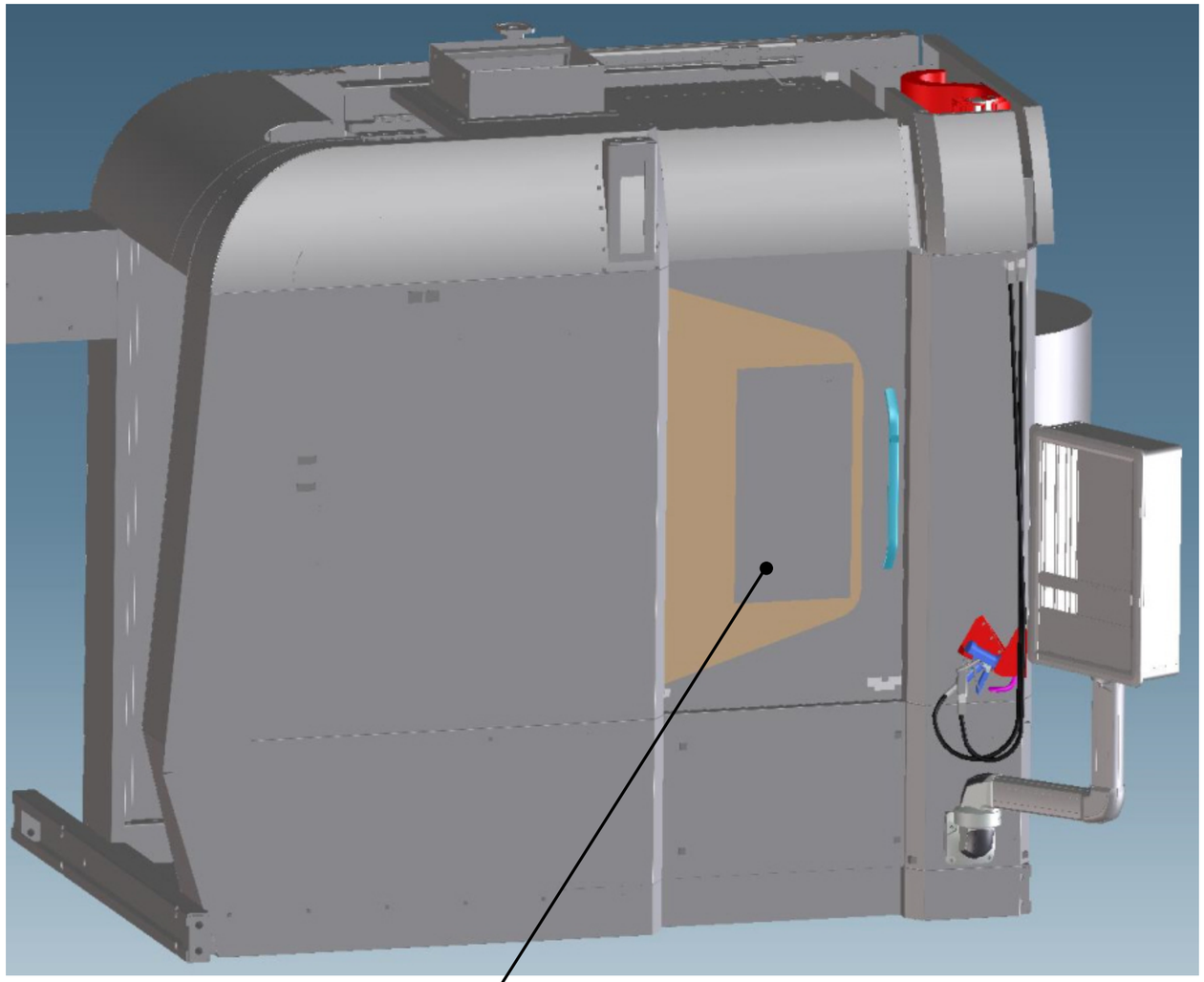
Location identifications

+10	Control cabinet
+19	Fire extinguishing system alerting
+25	Control panel
+26	Hand-held unit
+29	Fire extinguishing system manual release

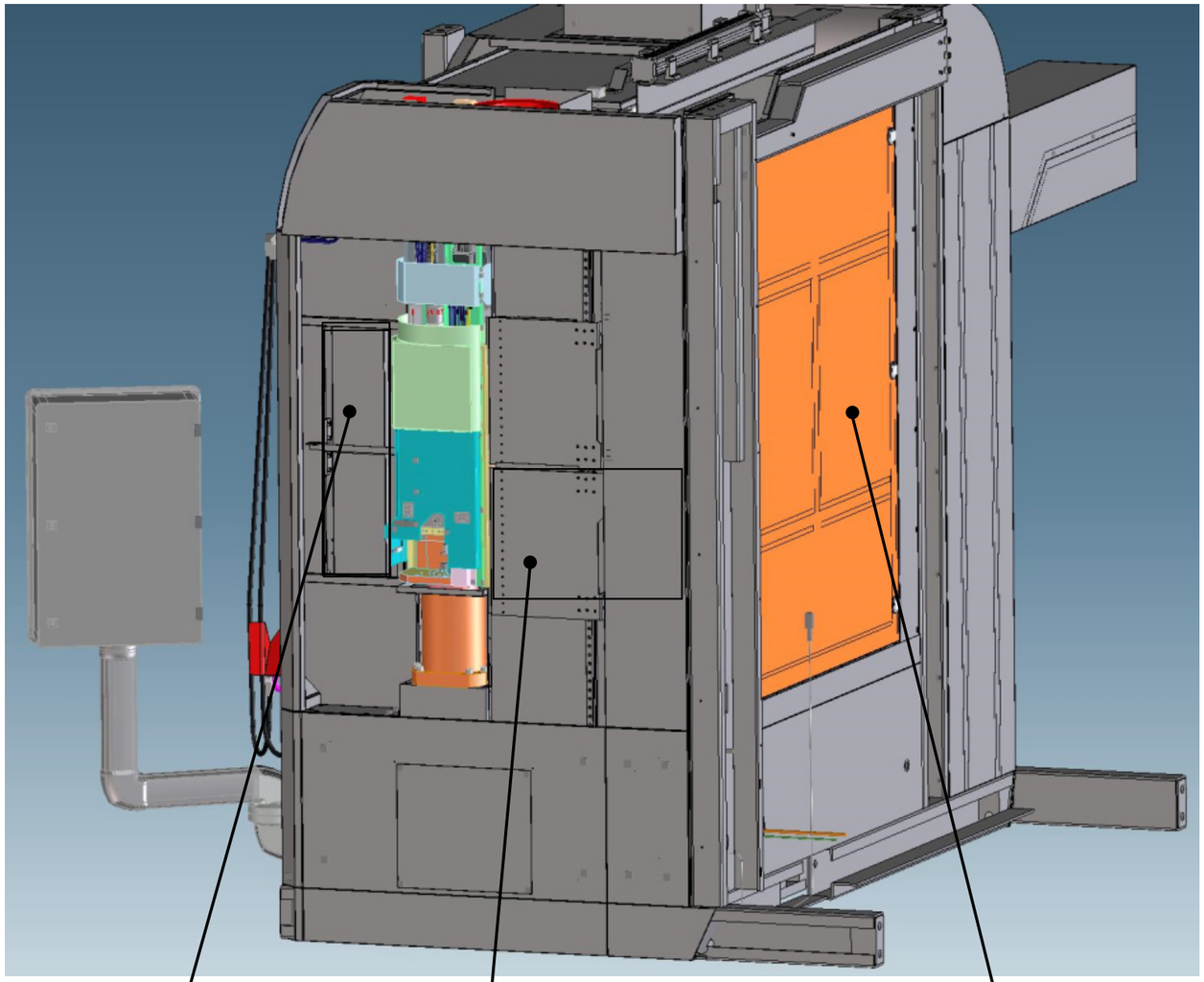




			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of machine axes SV180/SV300_04	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 13
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20



Operator door
(at front)



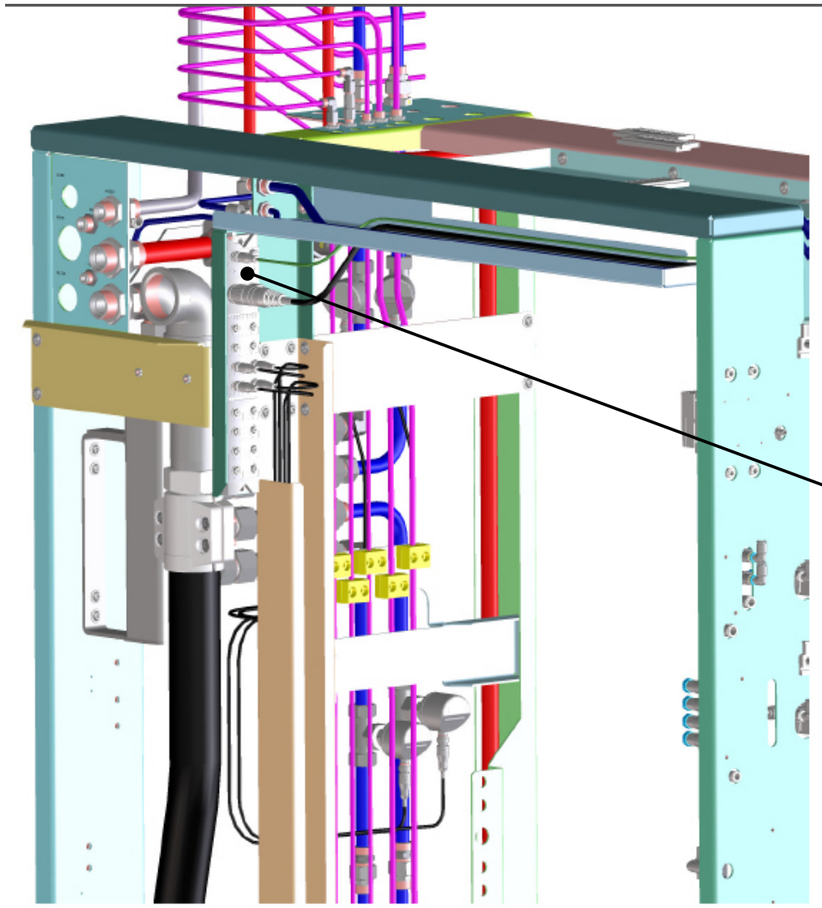
Schwenkladertür vorne

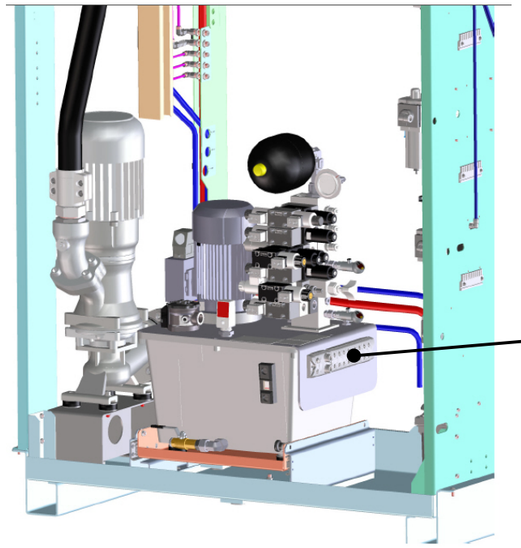
Service door

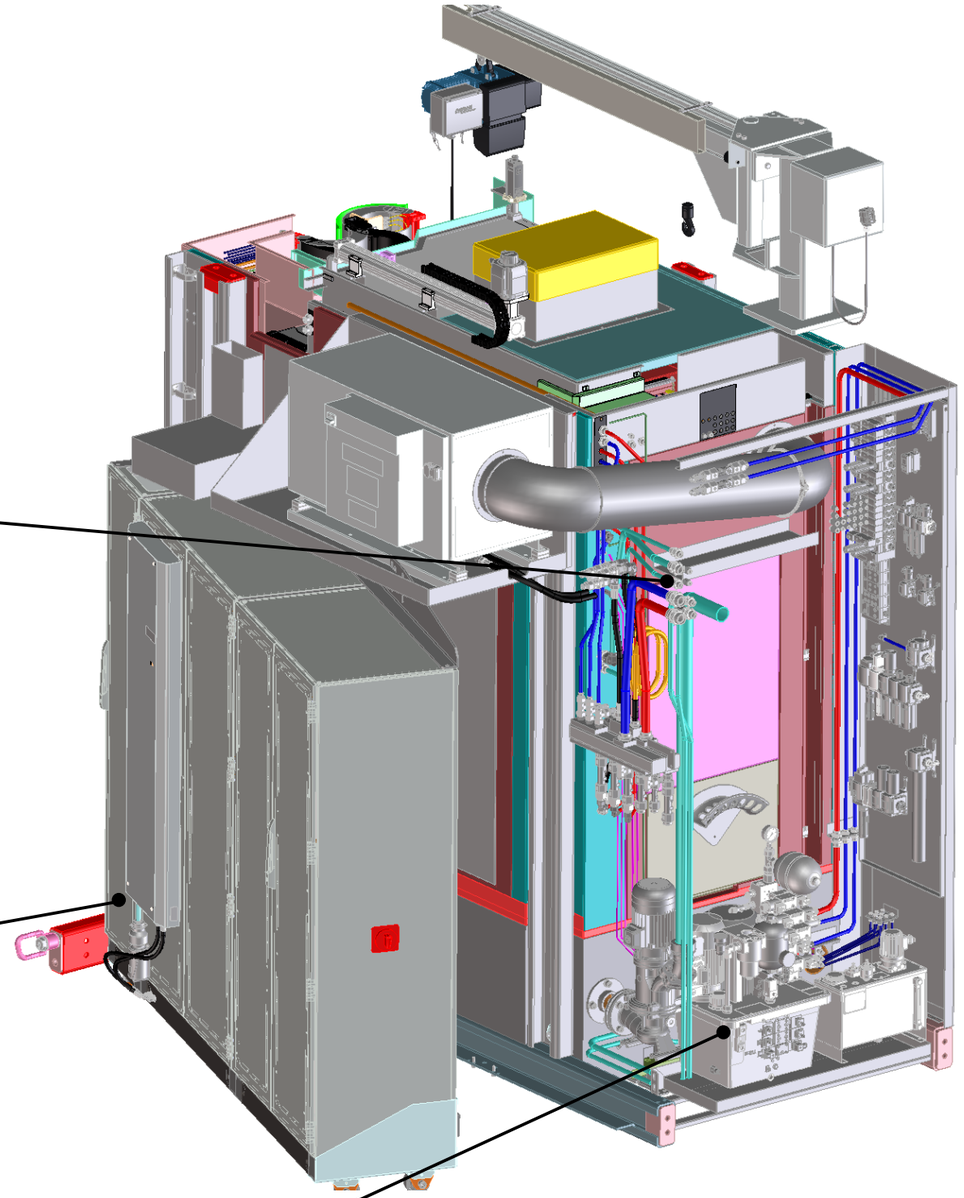
Schwenkladertür hinten

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of machine axes SV180/SV300_05	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 14
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20

Machine overview with I/O link modules (master)







IO- Link MASTER

-XF930
BNI007M
ProfiNet, I/O link
16 slots (M12) 32 inputs
32 outputs

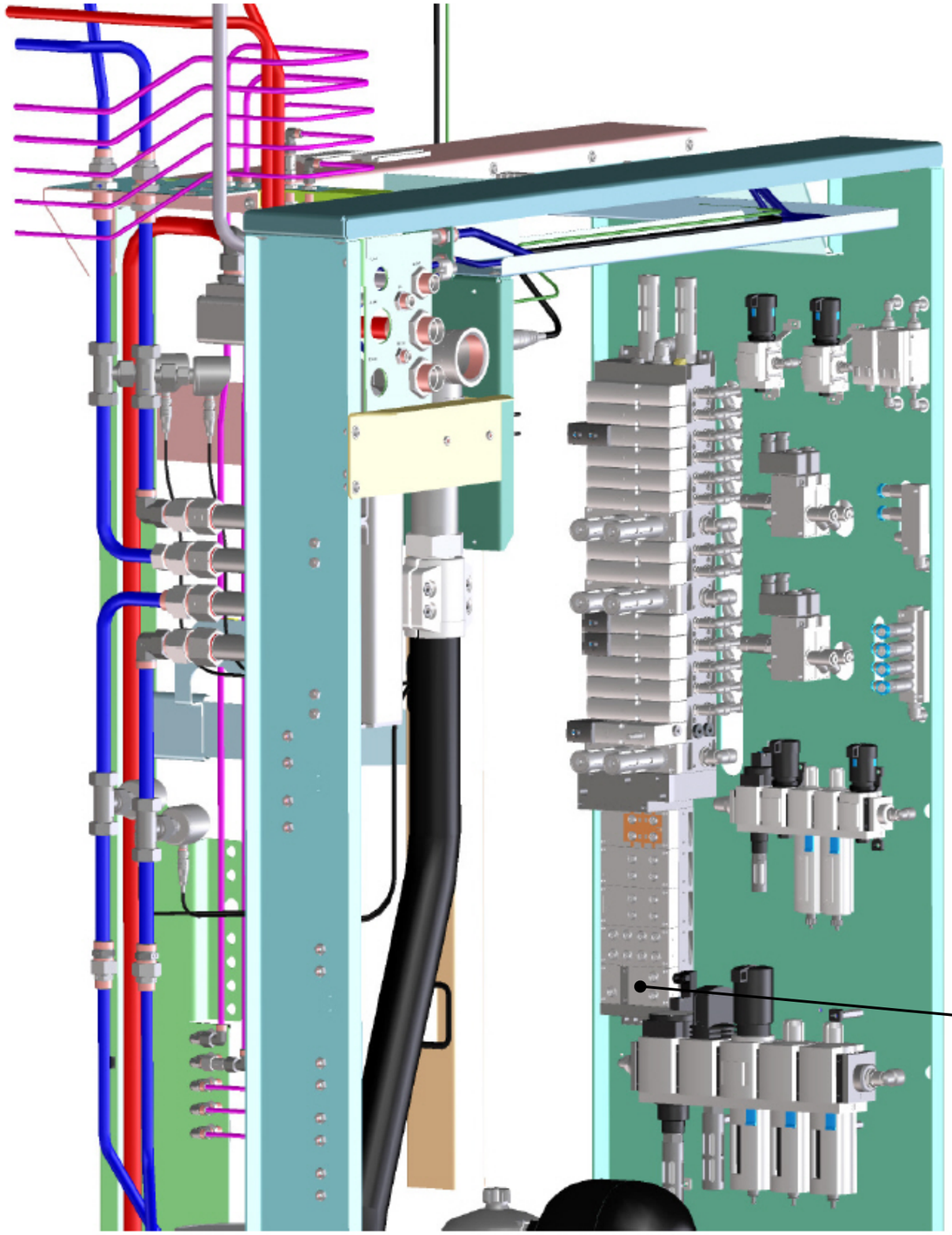
IO- Link MASTER

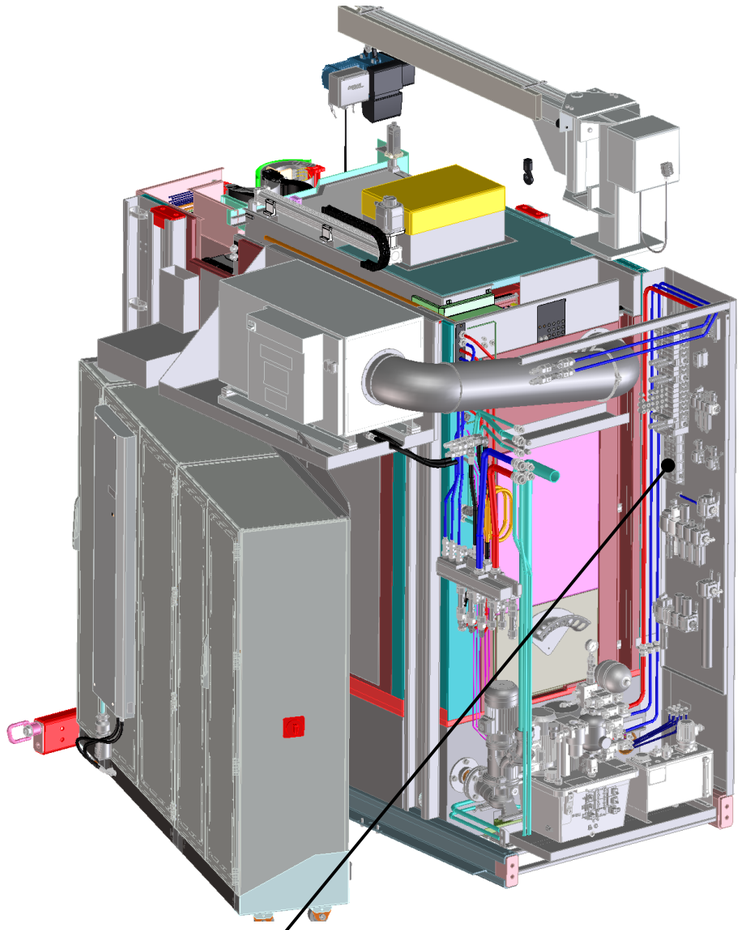
-XF920
BNI007M
ProfiNet, I/O link
16 slots (M12) 32 inputs
32 outputs

IO- Link MASTER

-XF910
BNI007M
ProfiNet, I/O link
16 slots (M12) 32 inputs
32 outputs

Machine overview with VTSA valve terminal

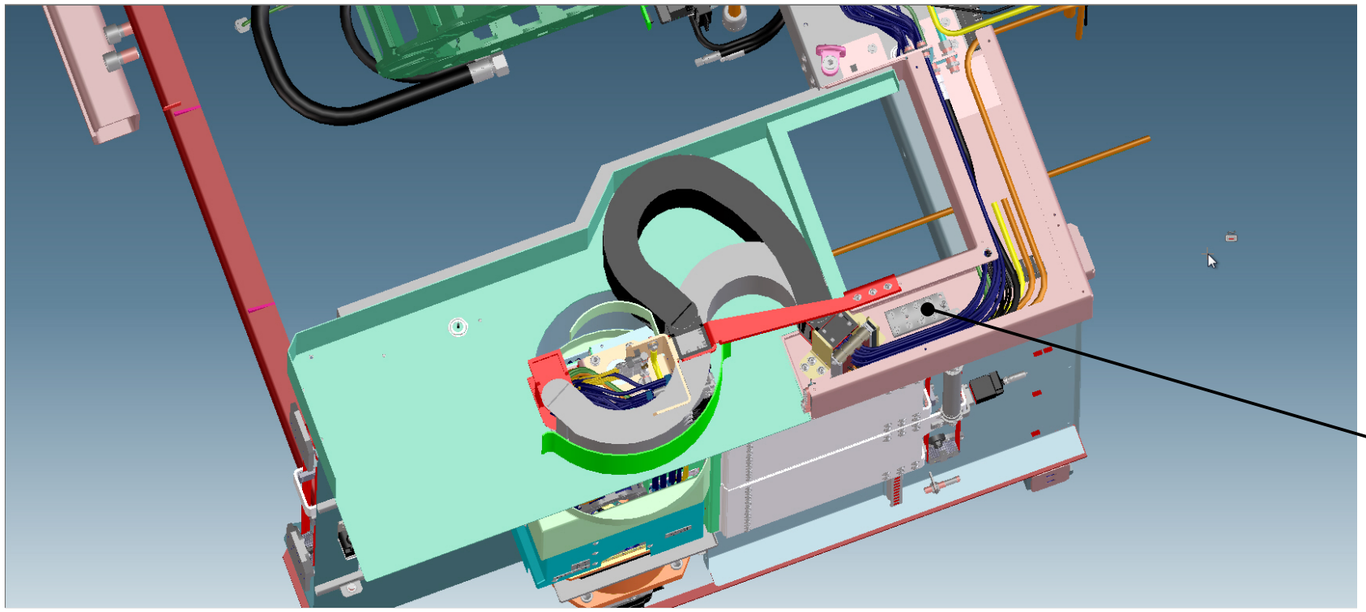




VTSA valve terminal
-XF900
CPX bus node module PN
ProfiNet
With -KF901 to -KF904
(I/O modules)
With -KH905 to -KH916
(VTSA valves)

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine overview Module_02	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 16
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20

Machine overview with I/O link modules (Hub)

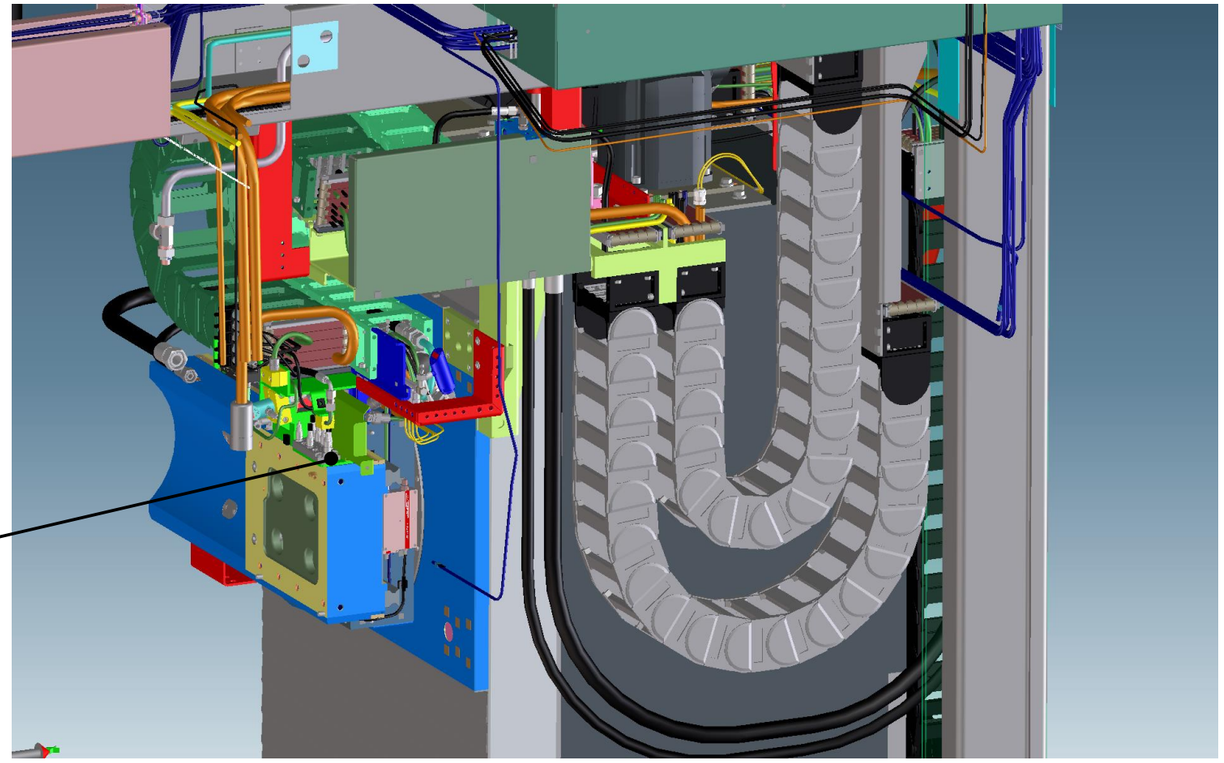


IO- Link HUB

-XF921
BNI0005T
input/output module 08
slots (M12) 16 inputs,
16 outputs

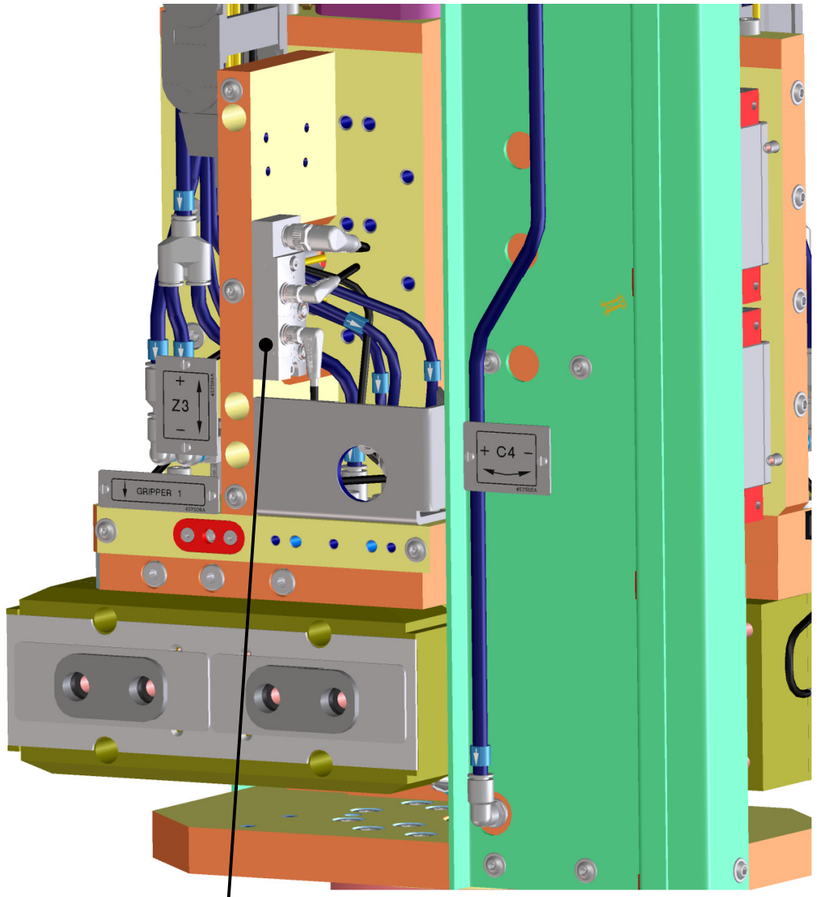
IO- Link HUB

-XF922
BNI005T
input/output module 08
slots (M12) 16 inputs,
16 outputs



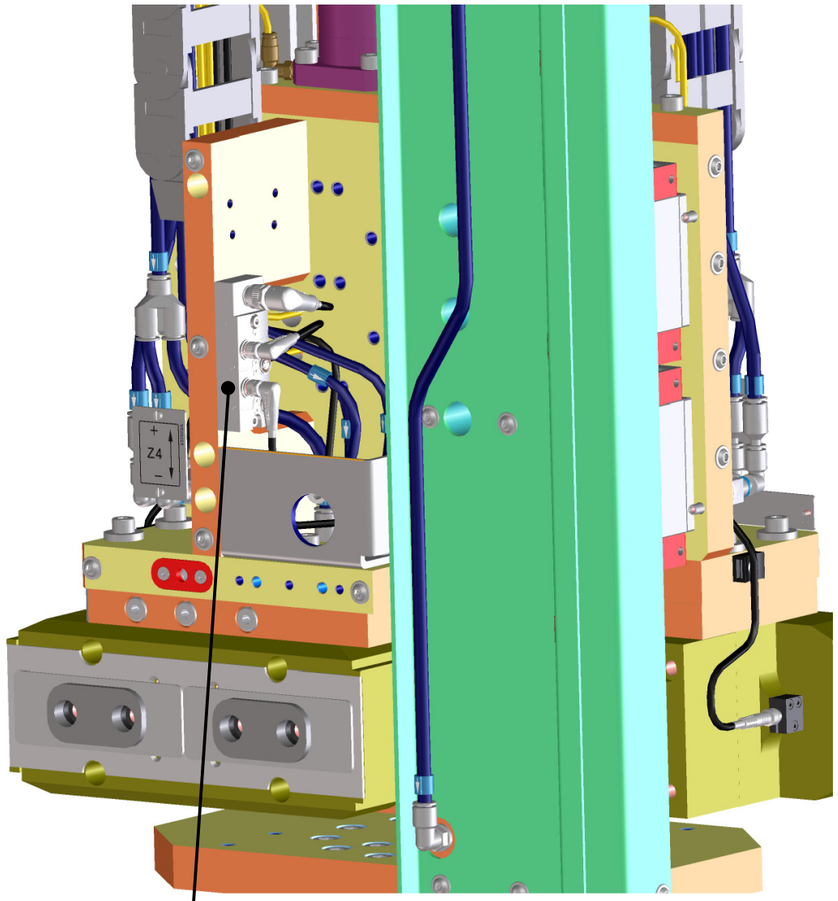
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine overview Module_03	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 17
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20

Machine overview with I/O link modules (Hub)



IO- Link HUB

-XF923
BNI001W
input module
04 slots (M8) 04 inputs



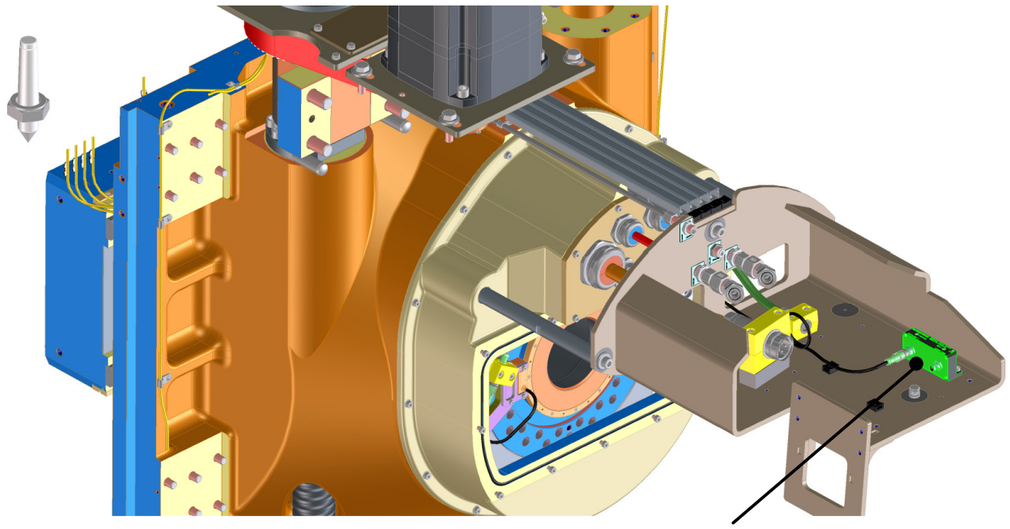
IO- Link HUB

-XF924
BNI001W
input module
04 slots (M8) 04 inputs

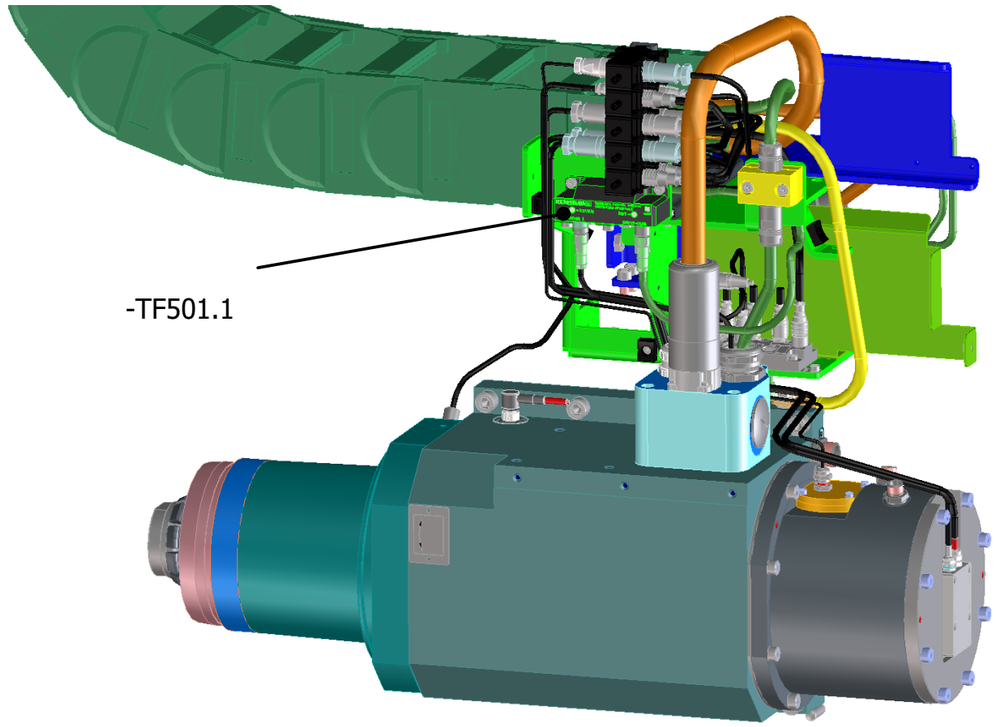
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine overview Module_04	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 18
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20

Machine overview with RENISHAW interface modules (Hub)

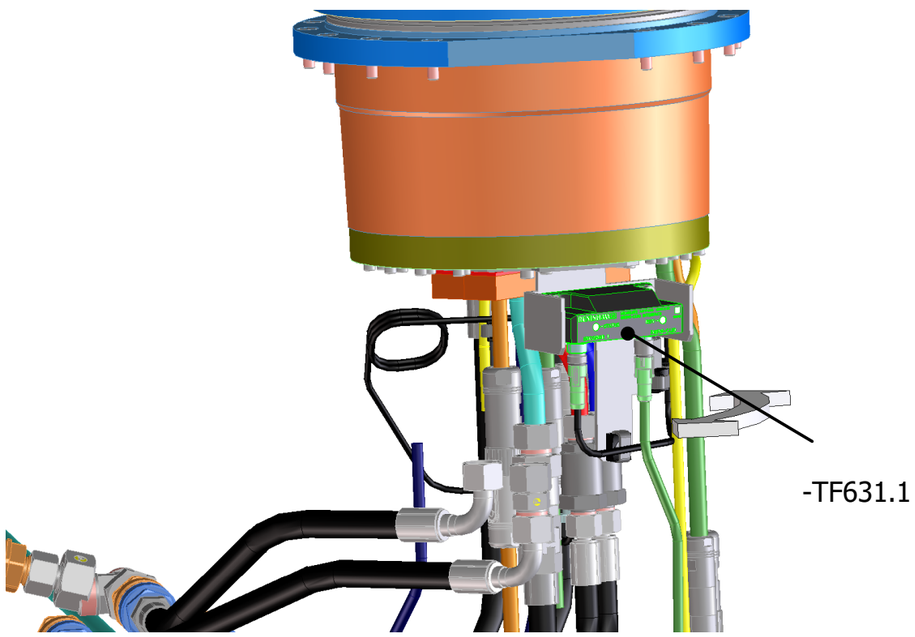
Schwenken Schleifkopf (A- Achse)



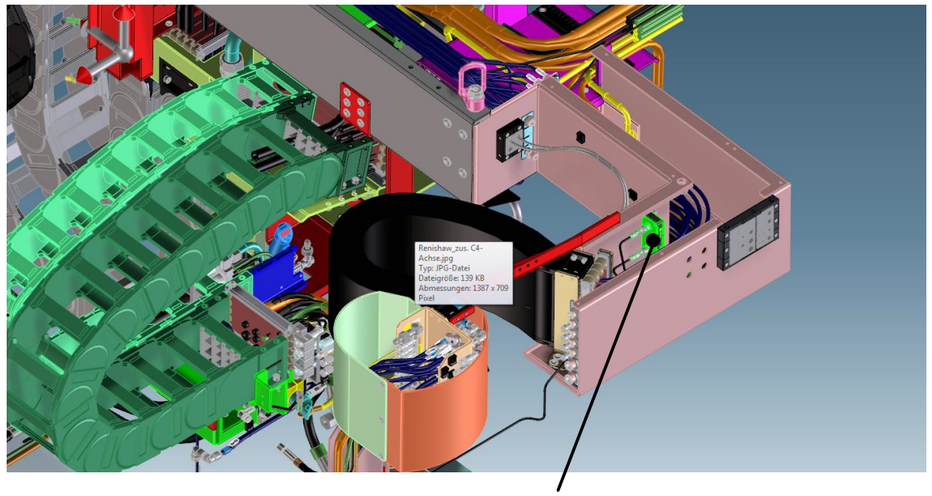
Schleifkopf (B- Achse)



Abrichter (C3- Achse)



Maschinenabdeckung (Kabelkanal)



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine overview Module_05	433021	& E00
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 19
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 20

KLINGELNBERG AG
Binzmuehlestrasse 171
CH-8050 Zurich
Switzerland

TYPE:	SV300	MACHINE NO.:	433021
THREE-PHASE AC:	3AC	FREQUENCY:	50 HZ
		POWER-SUPPLY:	400 V
		RATED CURRENT:	50 A

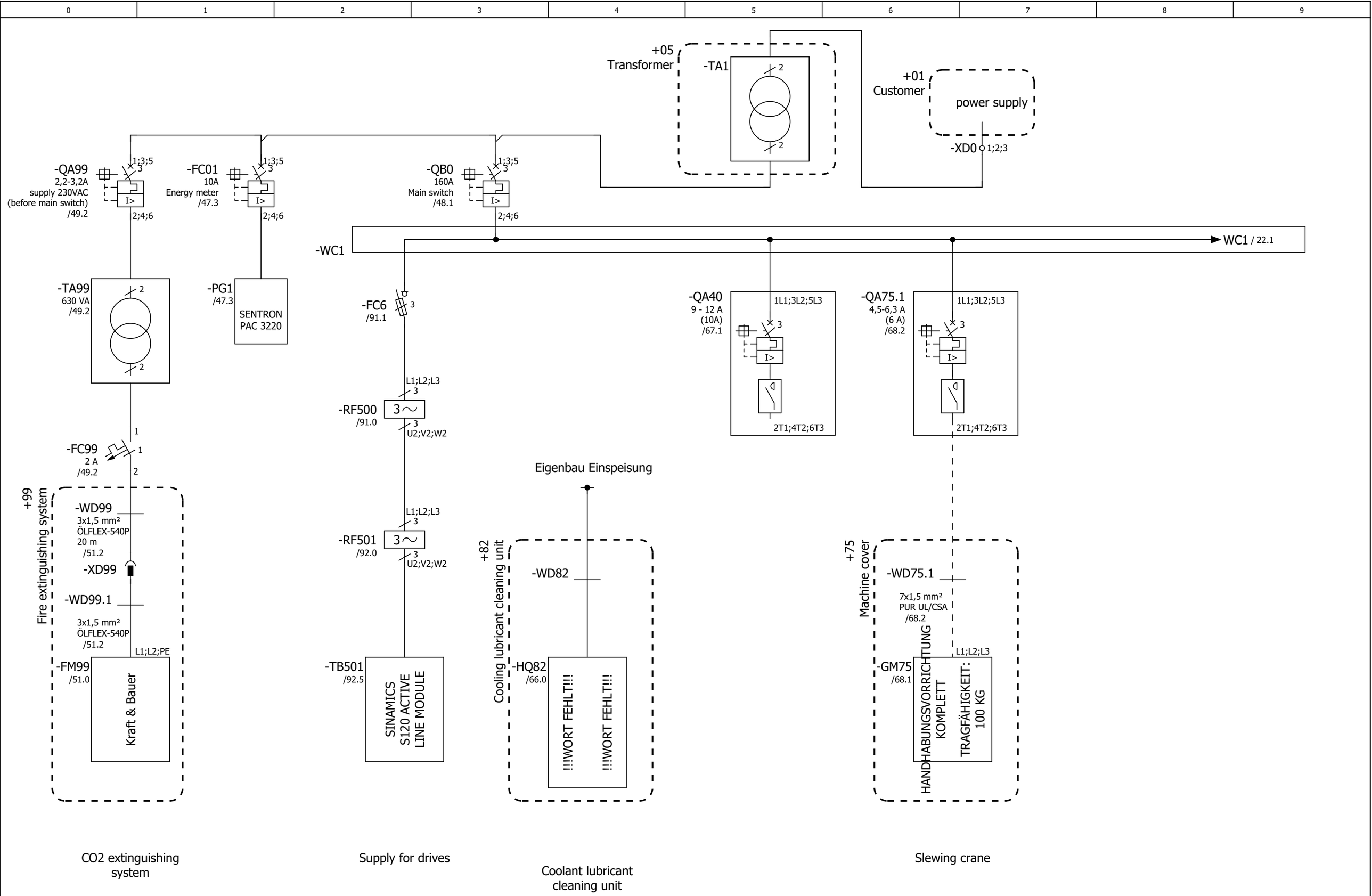
NOMINAL VALVE OF MAIN FUSES

IN THE POWER SUPPLY

RAPID:		A
SLOW:	80	A
CONTROL VOLTAGE:		V~
	24	V=

LIST OF DOCUMENTES	650.01.433021
YEAR OF MANUFACTURE:	2022

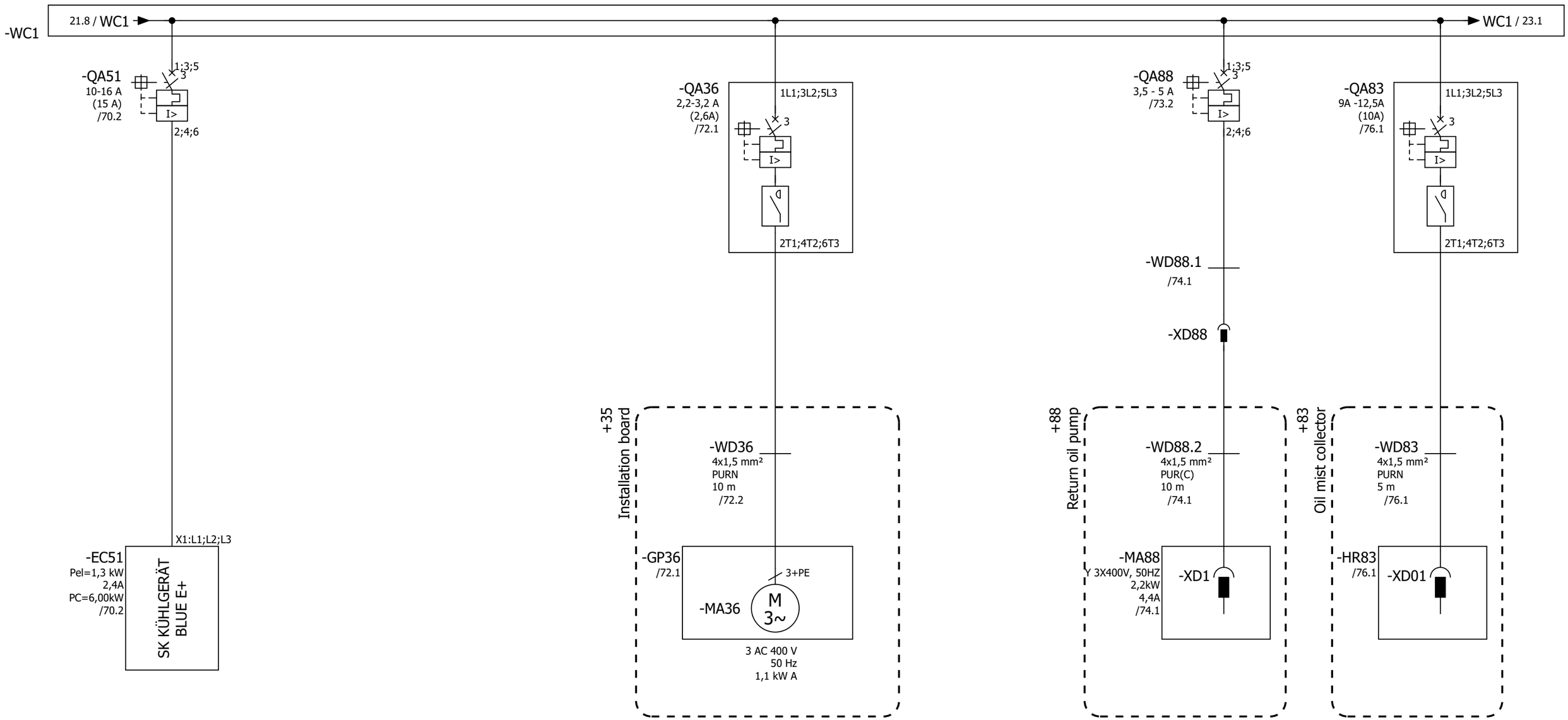
444319A



&E00+/20

22

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of power circuits	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 21
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of power circuits	433021	& E01
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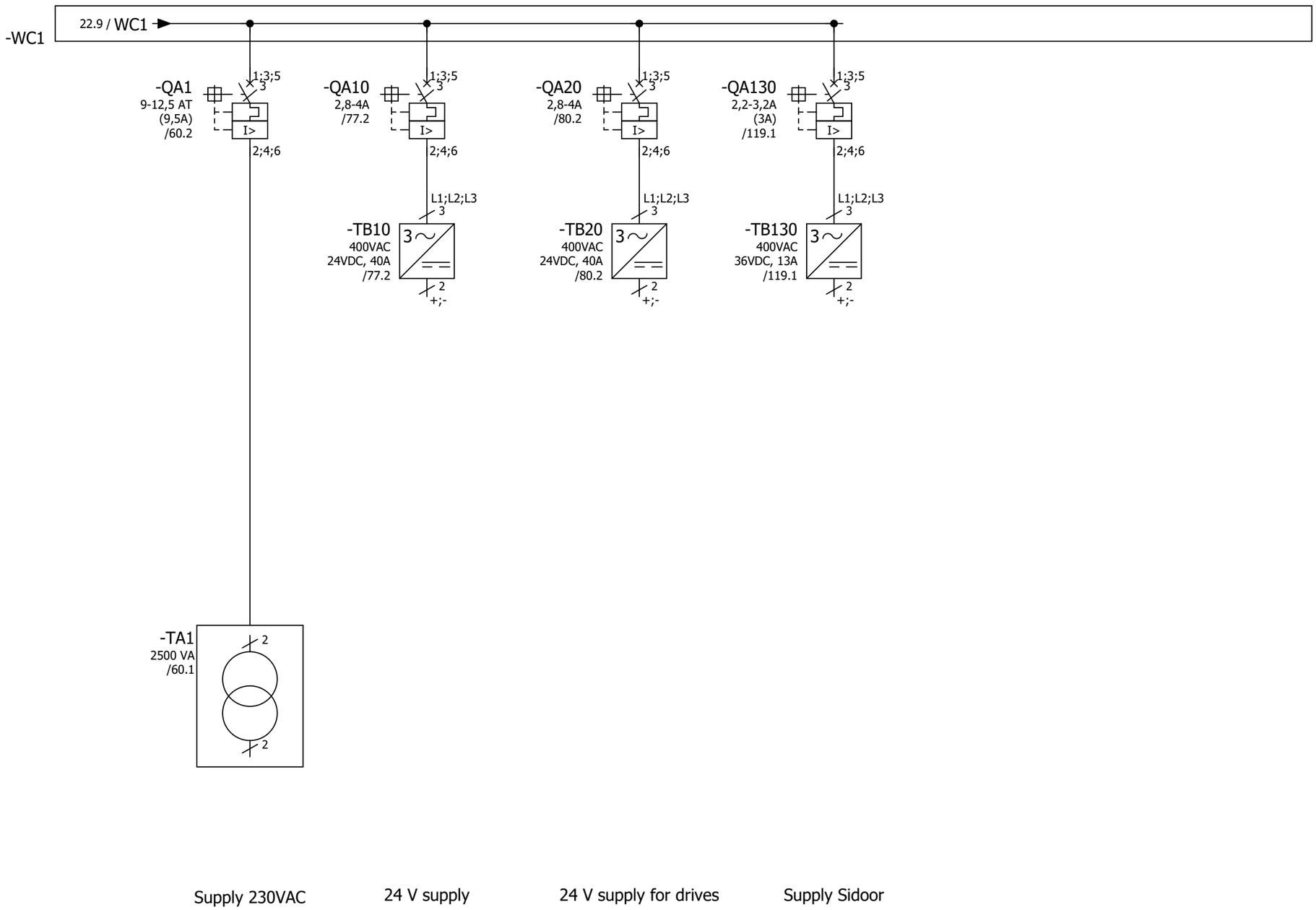
			Checked					650.01.433021	page 22
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230


-WC1
22.9 / WC1
-QA1
9-12,5 AT
(9,5A)
/60.2
1;3;5
3
I>
2;4;6
-QA10
2,8-4A
/77.2
-QA20
2,8-4A
/80.2
-QA130
2,2-3,2A
(3A)
/119.1
L1;L2;L3
-TB10
400VAC
24VDC, 40A
/77.2
-TB20
400VAC
24VDC, 40A
/80.2
-TB130
400VAC
36VDC, 13A
/119.1
2
+;-
-TA1
2500 VA
/60.1
Supply 230VAC
24 V supply
24 V supply for drives
Supply Sidoor

0	1	2	3	4	5	6	7	8	9

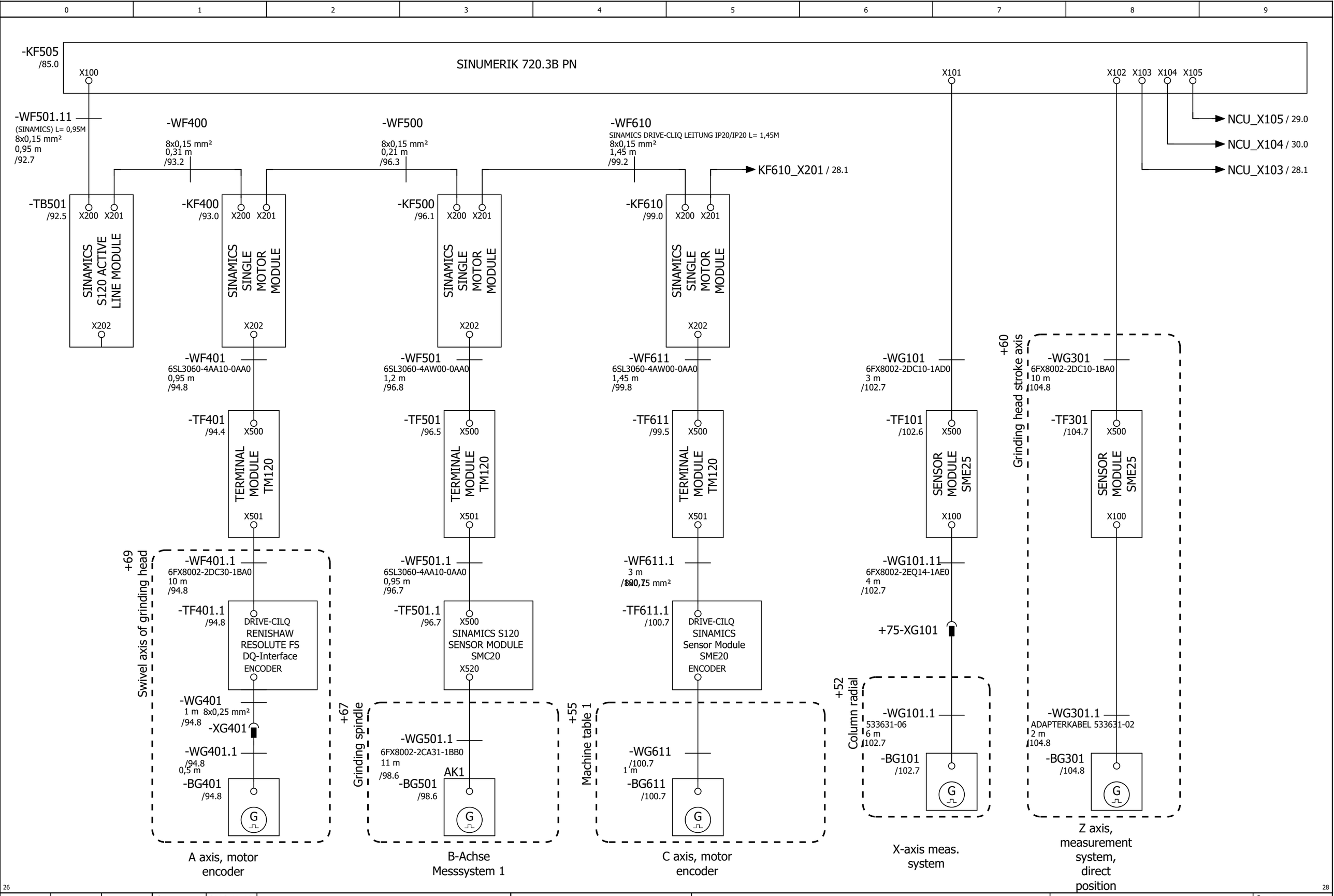
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 24
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

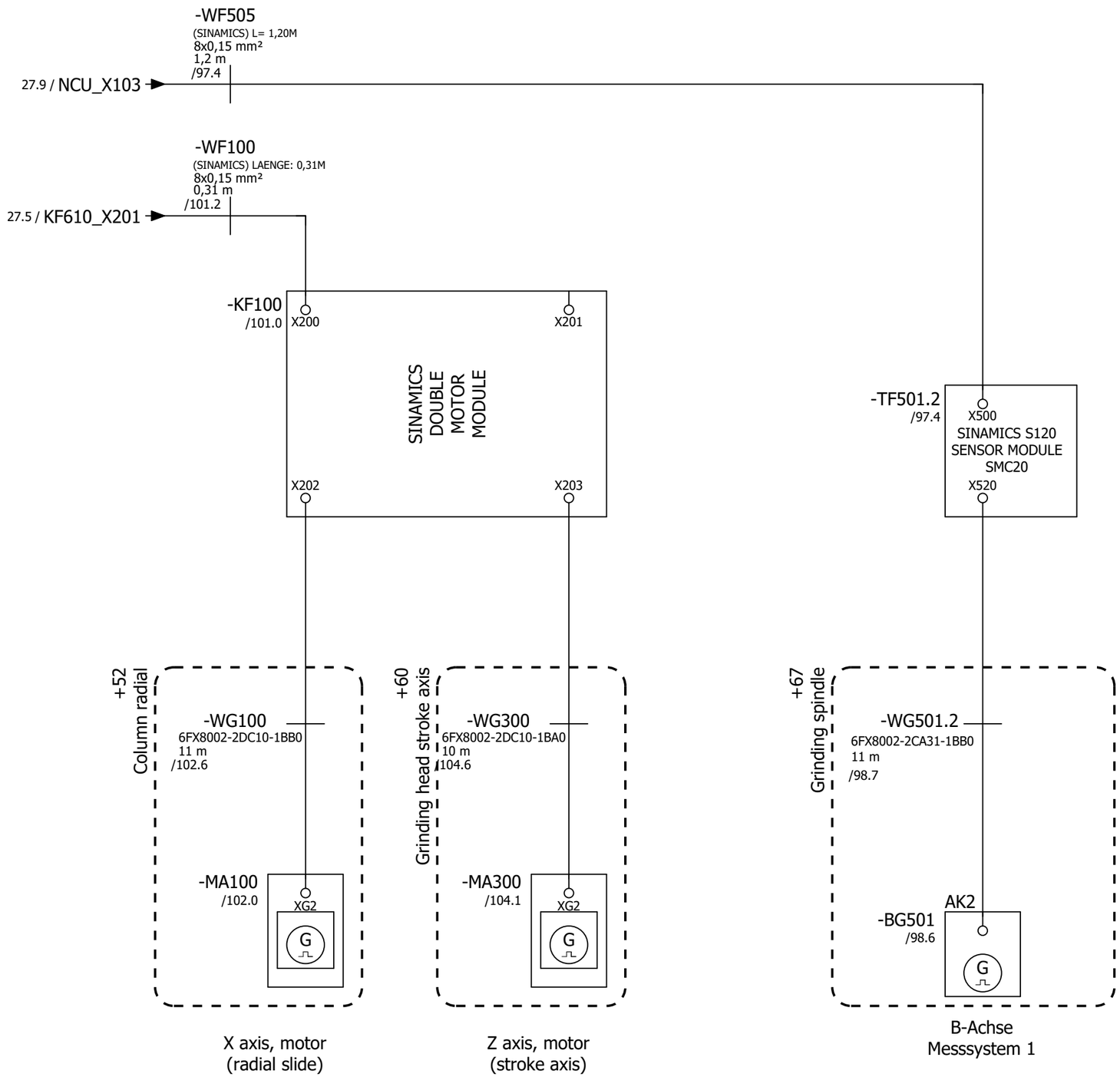
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 25
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

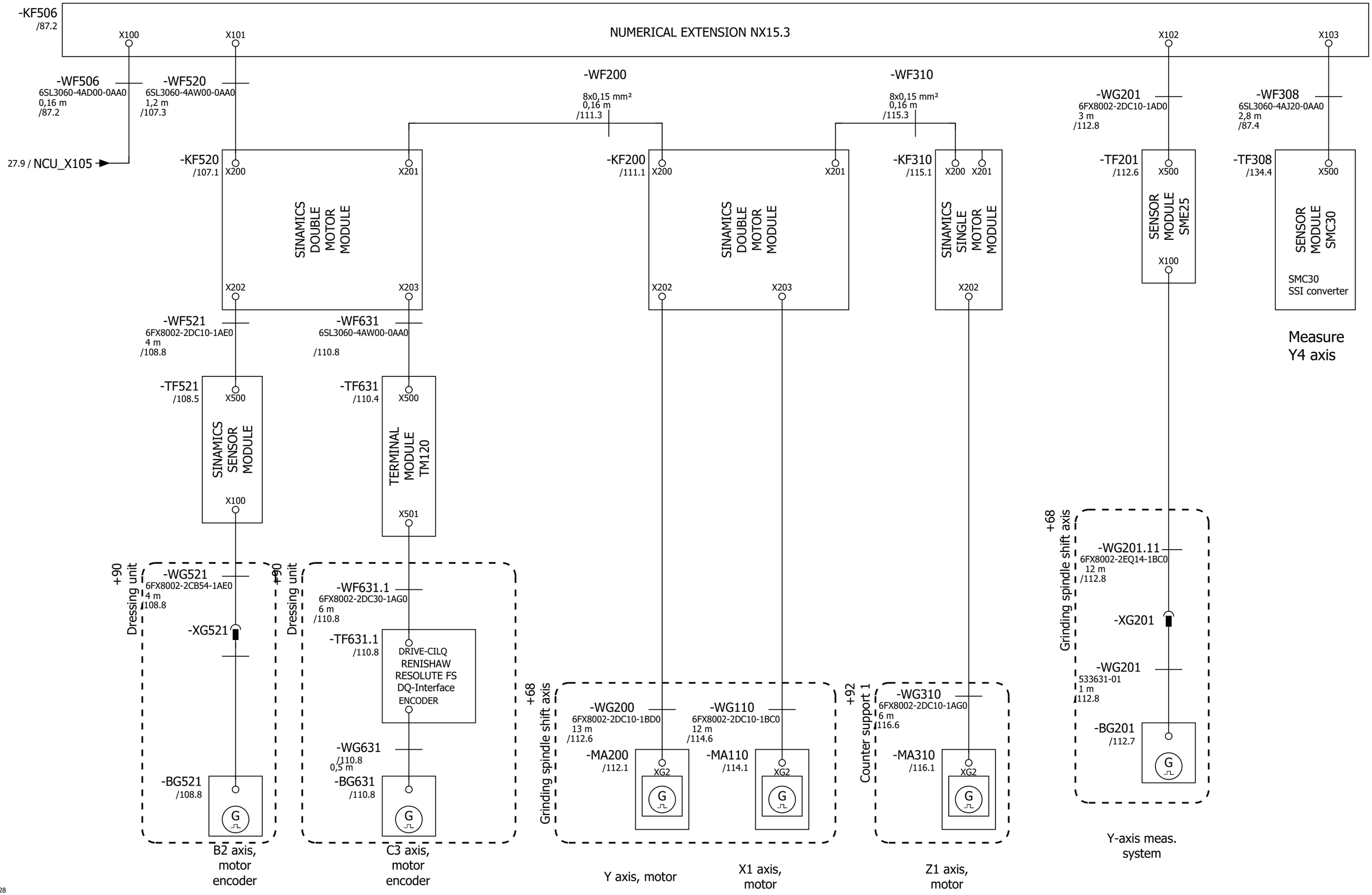
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 26
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



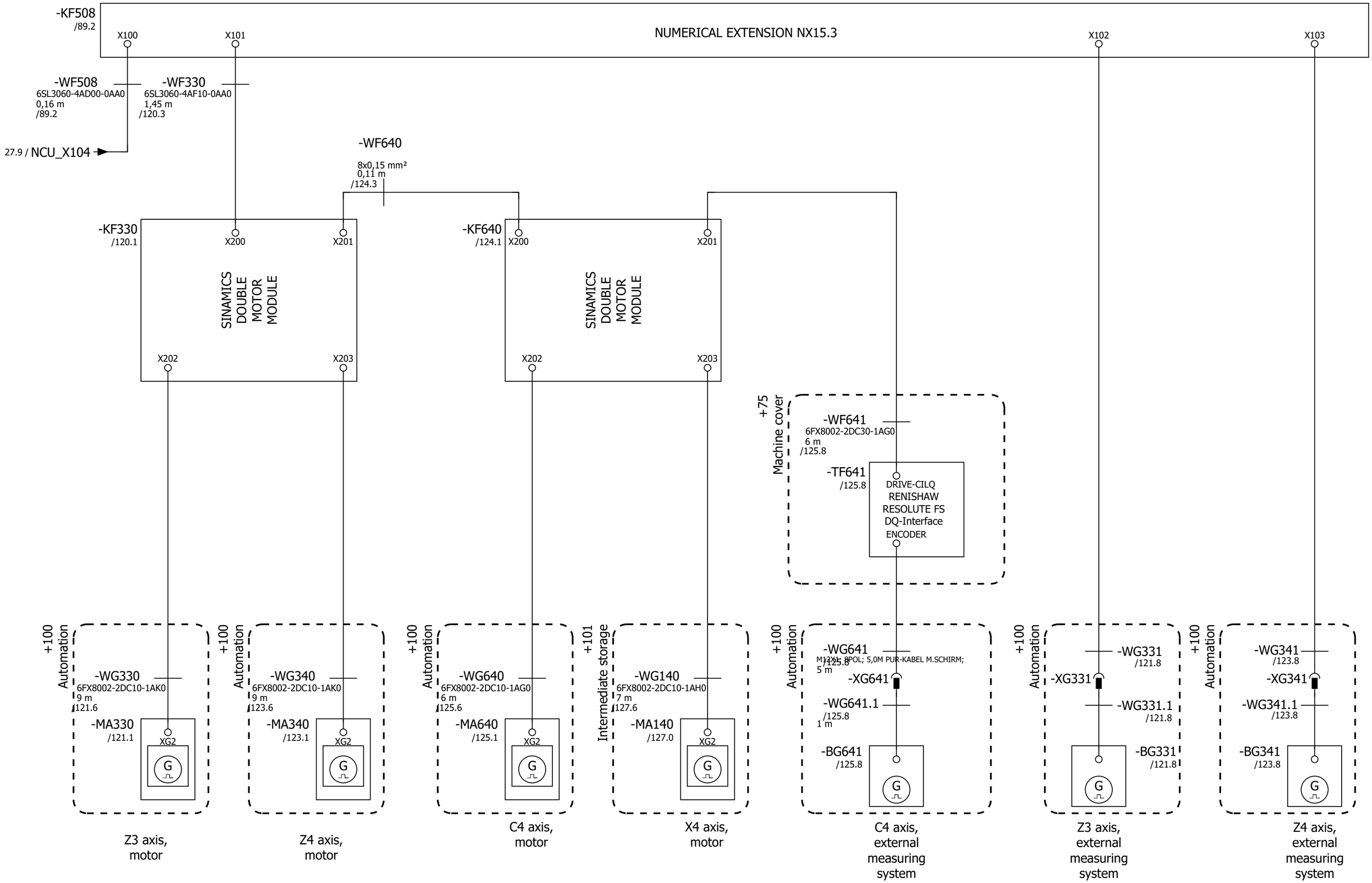
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of DRIVE-CLiQ BUS	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 27
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of DRIVE-CLiQ BUS	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 28
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



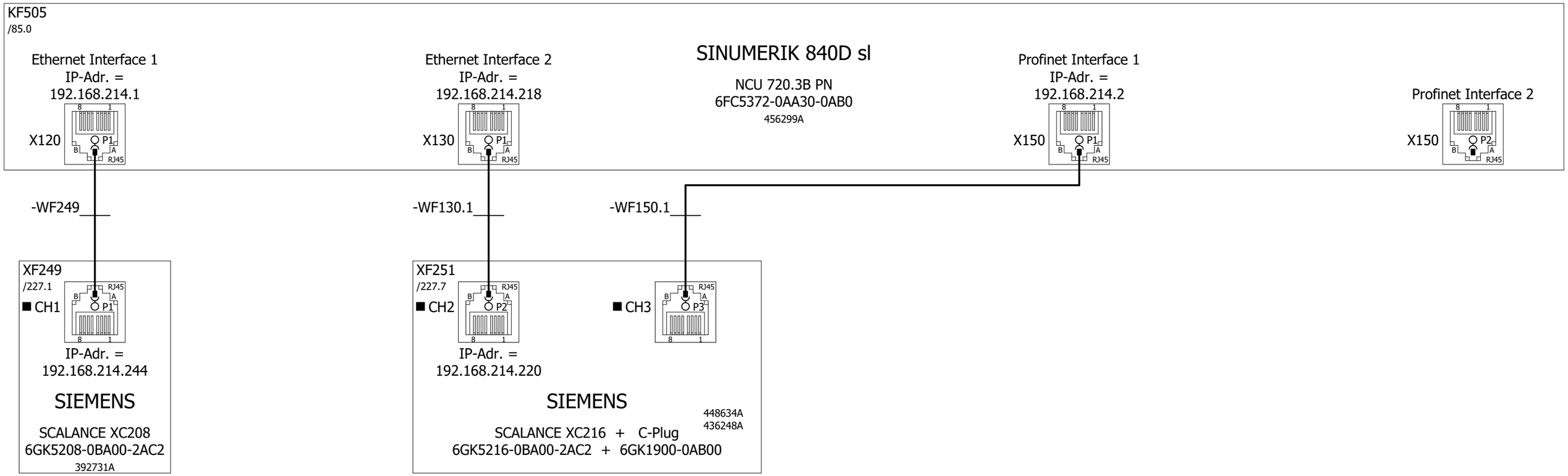
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of DRIVE-CLiQ BUS	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 29
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



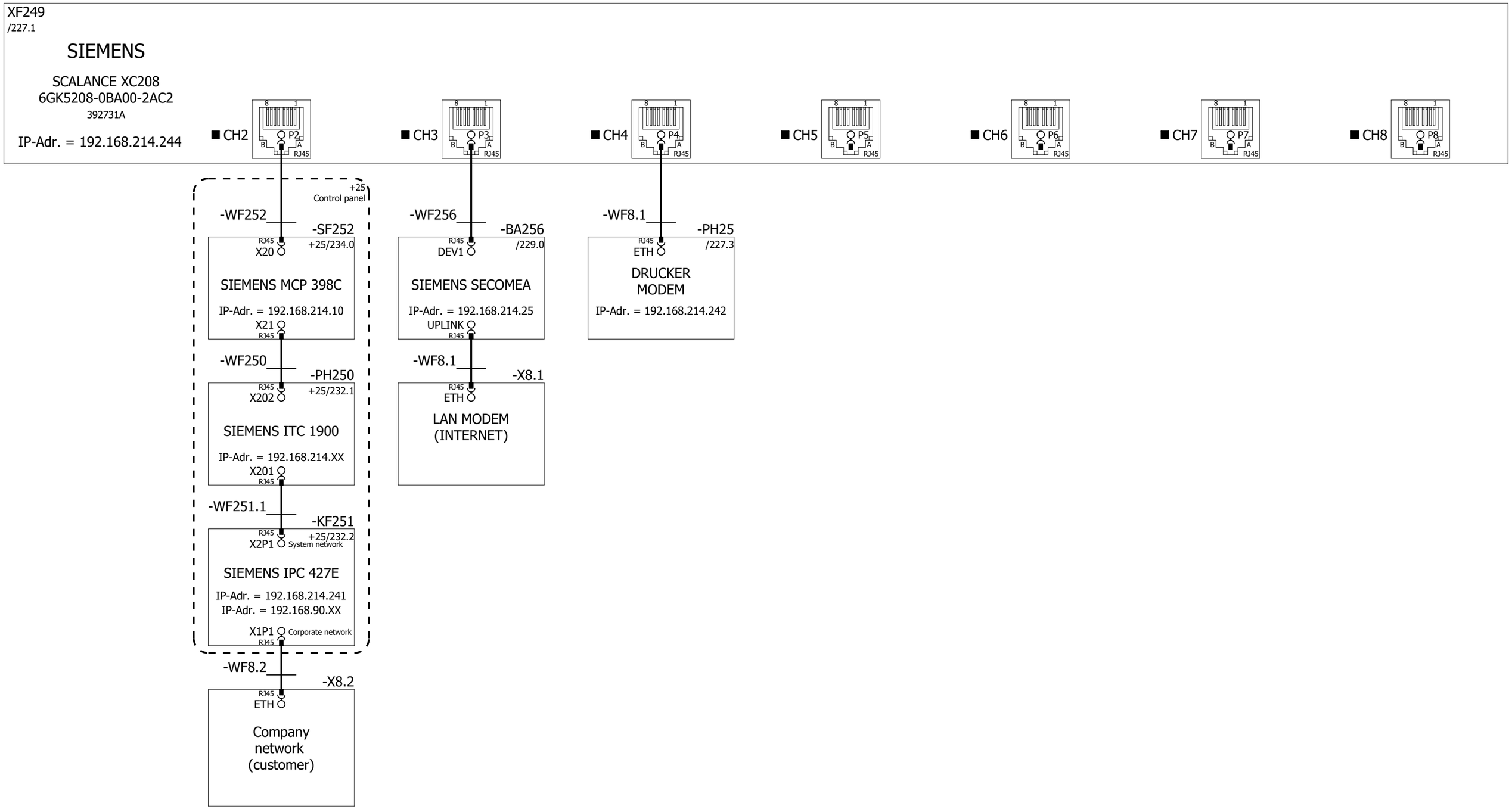
29

31

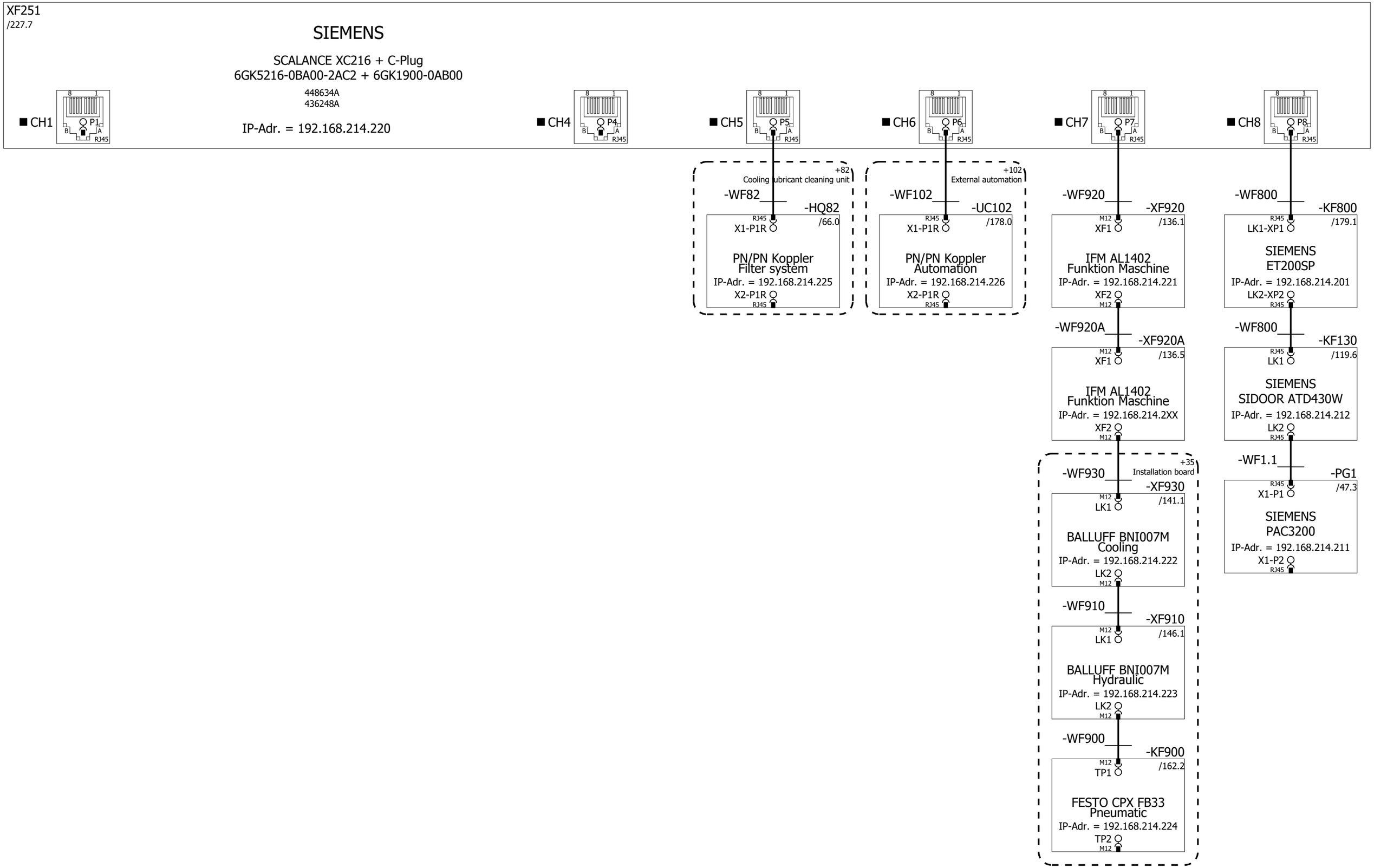
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of DRIVE-CLiQ BUS	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 30
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



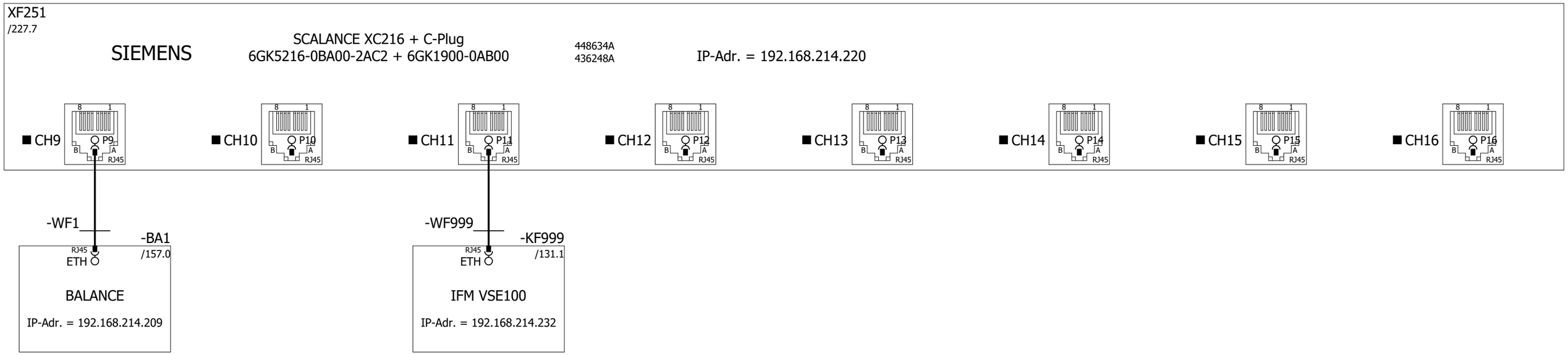
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Bus topology NCU + Switch	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 31
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



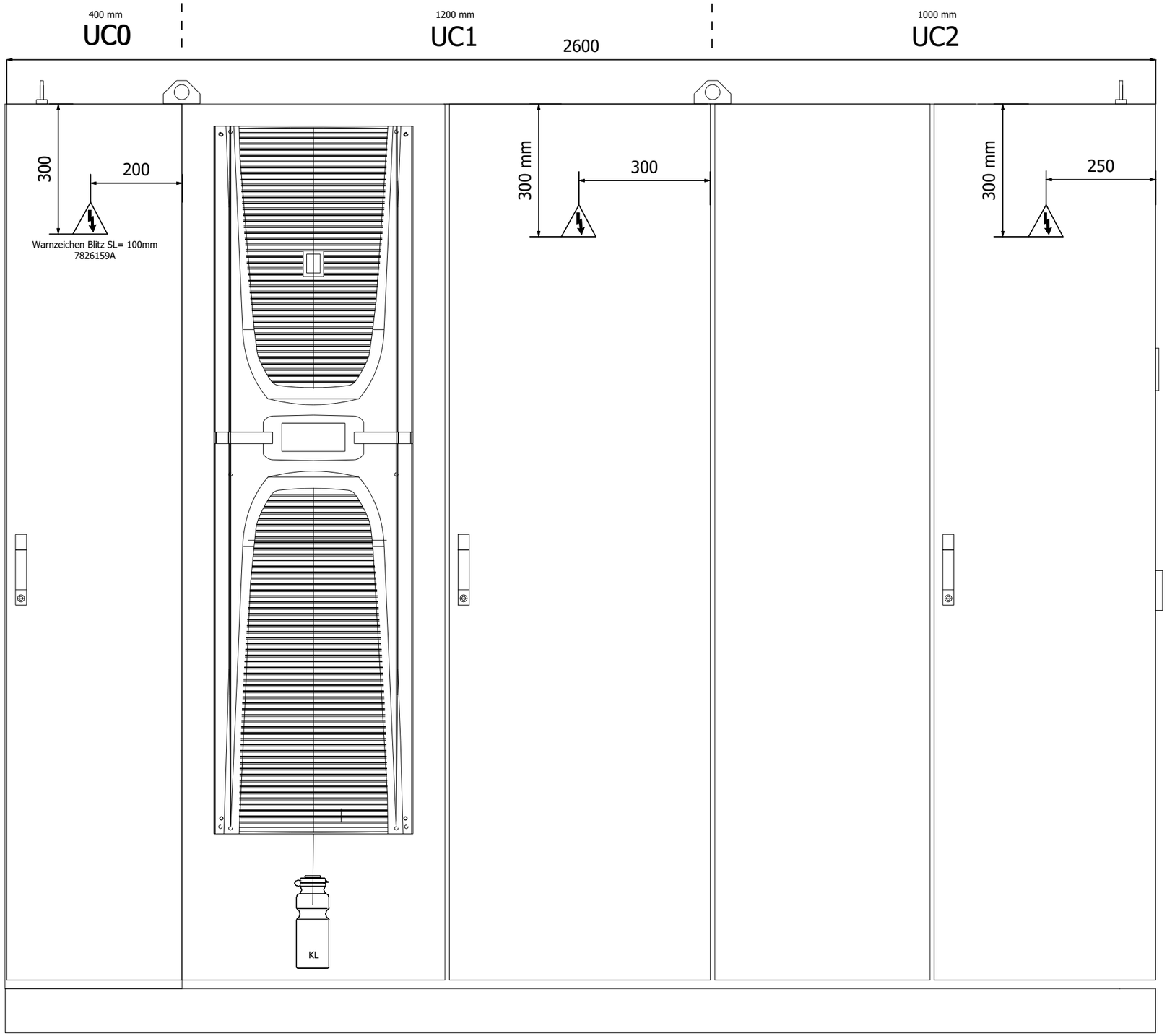
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Bus topology System network	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 31.1
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Bus topology Customer network	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 31.2
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

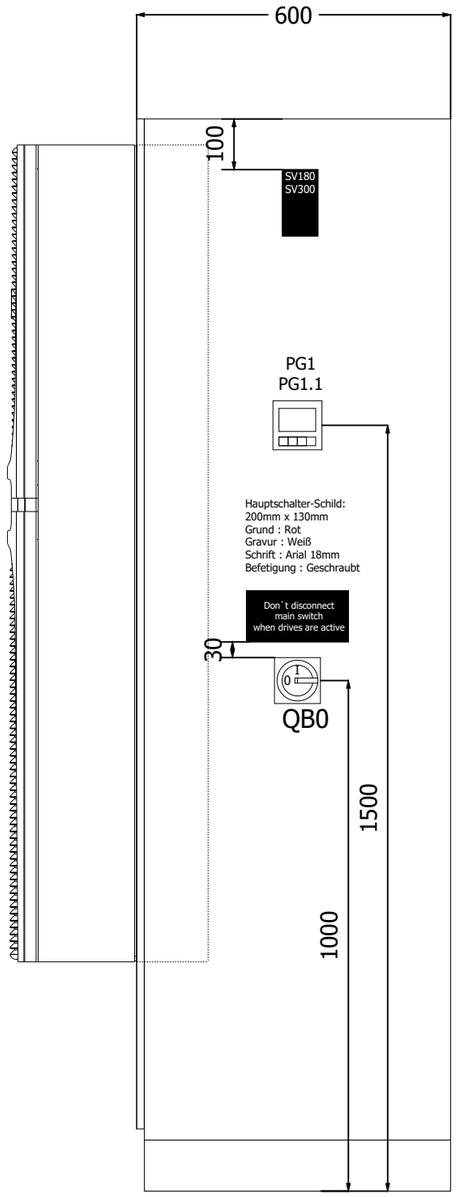


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Bus topology Customer network	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 31.3
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Control cabinet, front view

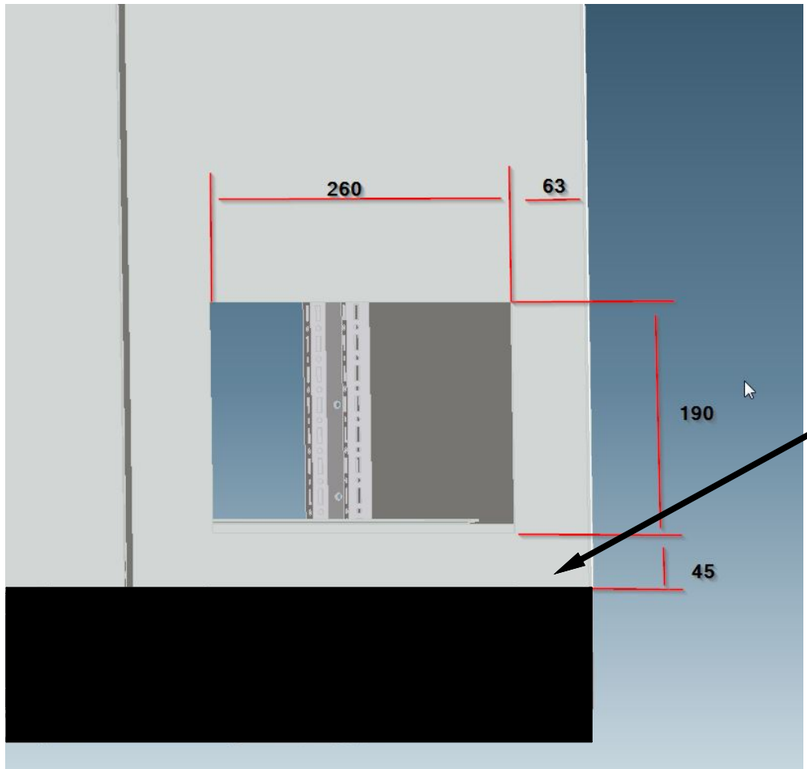
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of control cabinet installation	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 32
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



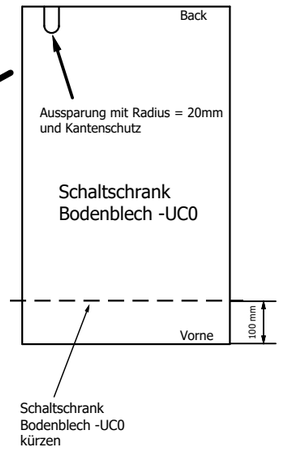
Control cabinet
Side on right

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Signs for control cabinet installation	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 33
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

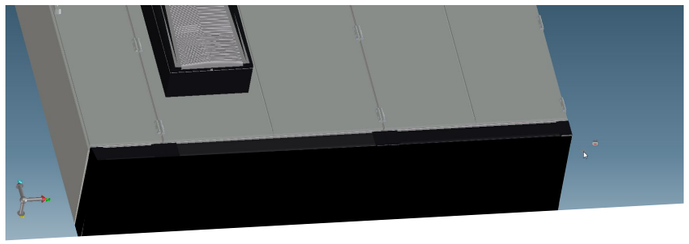
Cut-out on control cabinet side -UC0



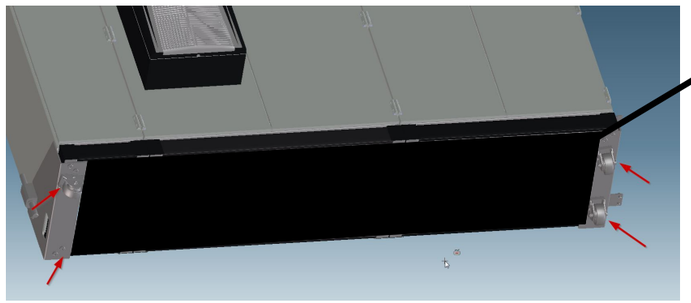
Cut-out on floor plate -UC0



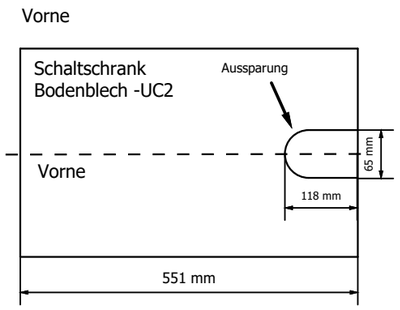
Pedestal 100mm self-made Klingelnberg,
(not included in scope of delivery of control cabinet builder)



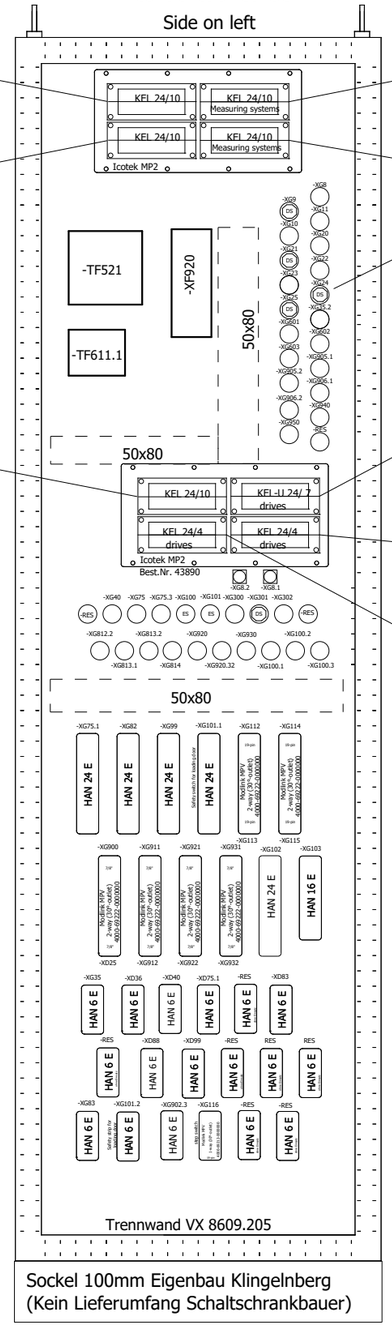
Rollers on control cabinet underside



Aussparung Schaltschrank Bodenblech -UC2



Partition
in control cabinet -UC1
Side on left



6 x KT8
Best. Nr. 41208
2 x KT10
Best. Nr. 41210
2 x KT5
Best. Nr. 41205

2 x KT5
Best. Nr. 41205
1 x KT4
Best. Nr. 41204
1 x KT6
Best. Nr. 41206
6 x BTK
Best. Nr. 41251

2 x KT7
Best. Nr. 41207
2 x KT9
Best. Nr. 41209
6 x BTK
Best. Nr. 41251

5 x KT7 7 - 8 mm
Best. Nr. 41207
7 x BTK
Best. Nr. 41251

10 x KT7 7 - 8 mm
Best. Nr. 41207

6 x KT11 11 - 12 mm
Best. Nr. 41211
1 x KT22 22 - 23 mm
Best. Nr. 41222

2 x KT22 22 - 23 mm
Best. Nr. 41222
1 x KT15 15 -16 mm
Best. Nr. 41215
1 x KT14 14 -15 mm
Best. Nr. 41214

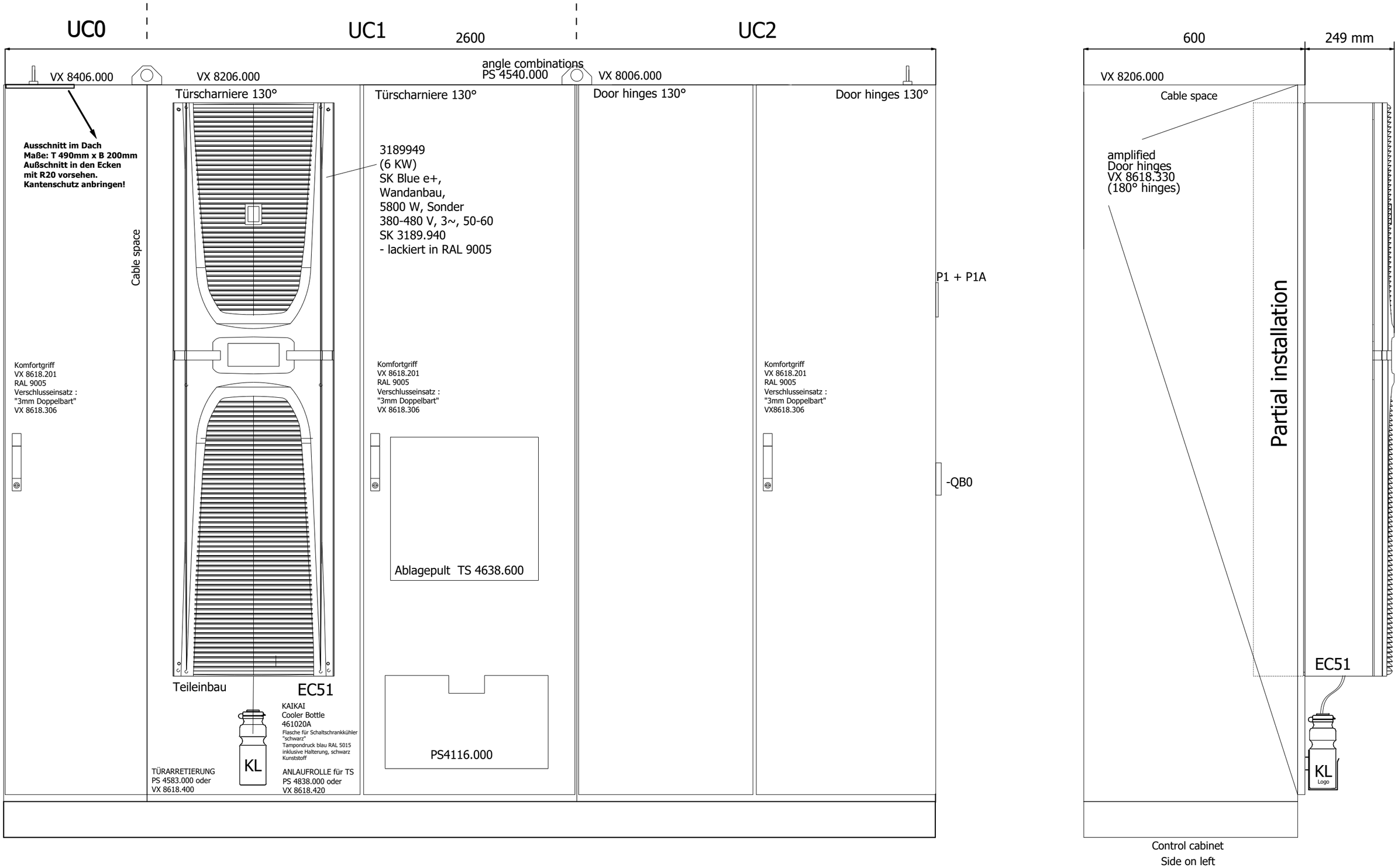
1 x KT19 19 - 20 mm
Best. Nr. 41220
2 x BTK
Best. Nr. 41251
1 x BTG
Best. Nr. 41252

Back

Front

Sockel 100mm Eigenbau Klingelnberg
(Kein Lieferumfang Schaltschrankbauer)

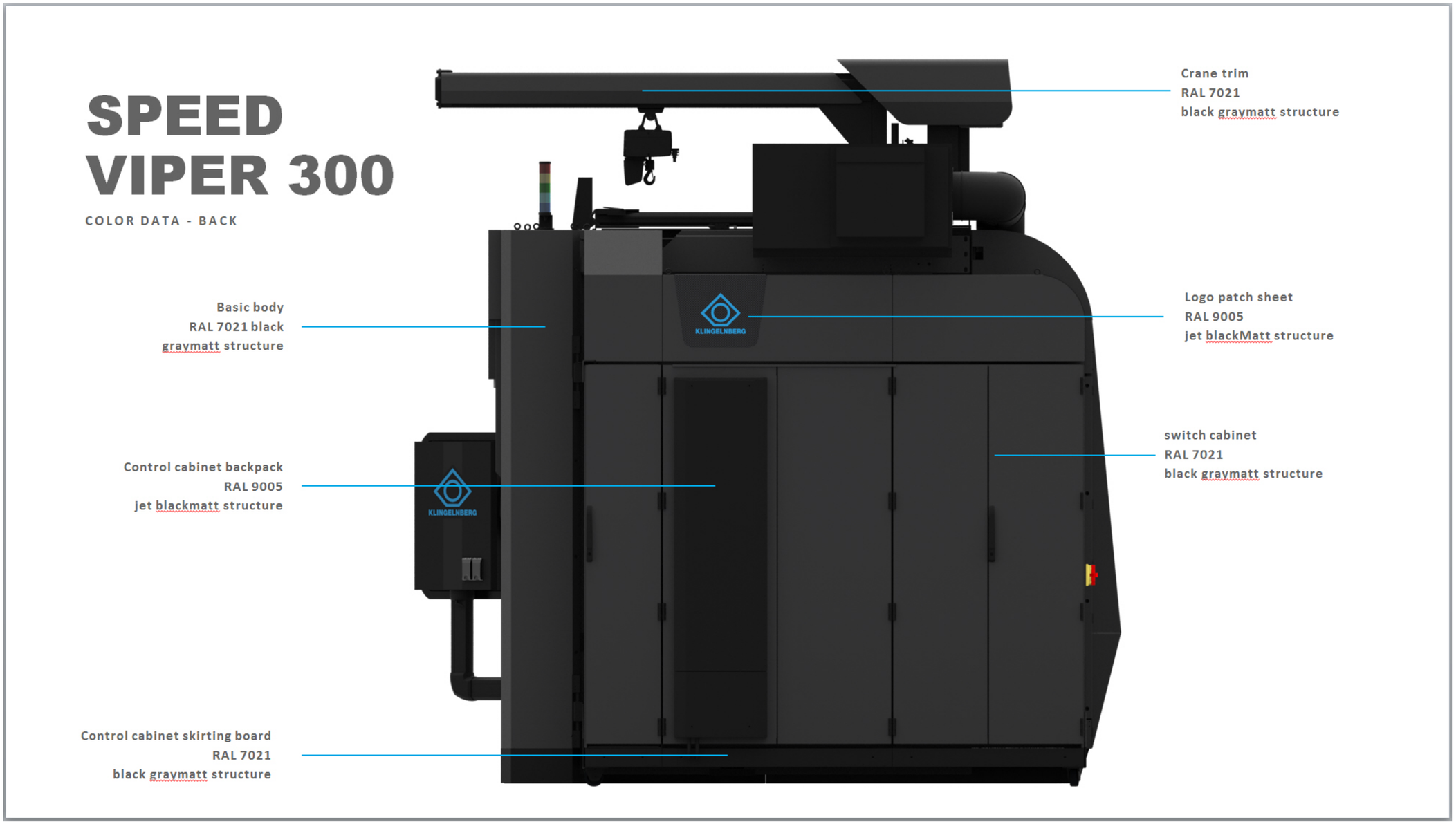
View from above of control cabinet -UC0

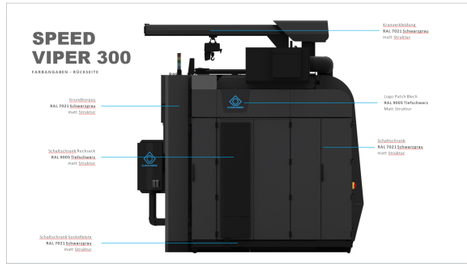


34 36

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of control cabinet outside	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 35
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

Color details of control cabinet:

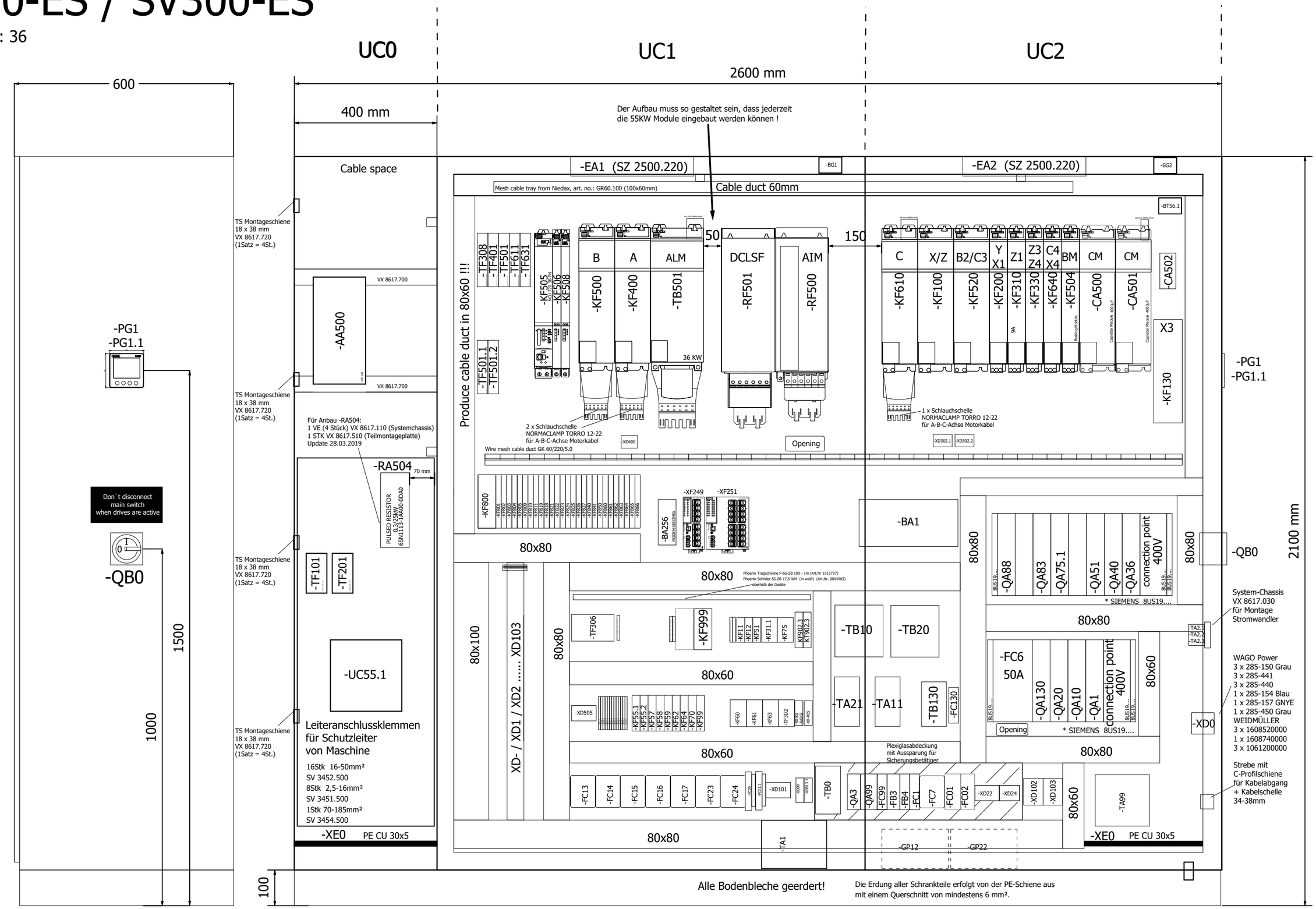




			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of control cabinet color	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 36
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

SV180-ES / SV300-ES

Drives supply: 36



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of control cabinet inside_01	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 37
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

Harting plug on control cabinet bulkhead

	1	2	3	4	5	6	7	8
	-XG35 = -XG35 Central lubrication	-XD36 = -XD36 Hydraulics	-XD40 = -XD40 cooling unit	-XD75.1 = -XD75.1 column-mounted slewing crane	-XD81 = -XD81 Pressure boosting pump	-XD83 = -XD83 Oil mist collector	-XD86 = -XD86 Elevating mechanism	-XD88 = -XD88 Return oil pump
6-pin	+10-XG35	+10-XD36	+10-XD40	+10-XD75.1	+10-RES	+10-XD83	+10-RES	+10-XD88 **EMC screw connection**
10-pin	--	--	--	--	--	--	--	--
16-pin	--	--	--	--	Option --	--	Option --	--

	9	10	11	12	13	14	15	16
						Beladetür Schaltleiste		
	-XD99 = -XG99 fire extinguishing system interface	+10-XDRES = +10-XD-RES1	+10-XD-Fußschalter = +10-XD-Fußschalter	+10-XG75.4 = +10-XG75.4 Sicherheitsleiste Bedientür	-XG83 = -XG83 oil mist collector	-XG101.2 = -XG101.2 loading door connecting block	-XG902.3 = -XG902.3 sealing air shut-off	-XD102.1 = -XD102.1 disengagement Sealing air
6-pin	+10-XD99	+10-RES	+10-RES	+10-RES	+10-XG83	+10-101.2	+10-XG902.3	+10-XD102.1
16-pin	--	--	--	--	--	--	--	--
24-pin	--	--	Option --	Option --	--	--	--	--

	17	18	19	20	21	22	23	24
	-XG75.1 = -XG75.1 door switch with locking system on operating side	-XG82 = -XG82 filter system interface	-XG99 = -XG99 fire extinguishing system interface	-XG101.1 = -XG101.1-loading door	-XG102 = -XG102 external loading device	-XG103 = -XG103 external loading device		
6-pin	--	--	--	--	--	--	--	--
16-pin	--	--	--	--	--	+10-XG103	--	--
24-pin	+10-XG75.1	+10-XG82	+10-XG99	+10-XG101.1	+10-XG102	--	--	--

BU - socket insert ● - Coding pin !!!WORT FEHLT!!! ○ - Coding bush !!!WORT FEHLT!!!

ST - pin insert

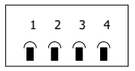
-XG8 = -XG8 C1 axis, bearing temperature monitoring	M12-Round plug shielded
-XG9 = -XG9 C2 axis, bearing temperature monitoring Only with double-spindle machine SV²	
-XG10 = -XG10 B axis, bearing temperature monitoring	M12-Round plug shielded
-XG11 = -XG11 B-AXIS sensor orientation grinding wheel	M12-Round plug shielded
-XG20 = -XG20 Z1 axis counter support 1 vibration sensor	M12-Round plug shielded
-XG21 = -XG21 Z2 axis counter support 2 vibration sensor Only with double-spindle machine SV²	
-XG22 = -XG22 B axis, axial vibration sensor	M12-Round plug shielded
-XG23 = -XG23 B axis, radial vibration sensor	M12-Round plug shielded
-XG24 = -XG24 C1-Achse Festlager Schwingungssensor (Option)	M12-Round plug shielded
-XG25 = -XG25 C2 axis fixed bearing vibration sensor Only with double-spindle machine SV²	
-XG35.2 = -XG35.2 sealing air shut-off	M12-Round plug
-XG40 = -XG40 cooling unit 1 interface	M12-Round plug
-XG602 = -XG602 valve Head dresser to working position	M12-Round plug
-XG600 = -XG600 Head dresser in basic position	M12-Round plug
-XG601 = -XG601 Head dresser in working position	M12-Round plug
-XG75 = -XG75 working chamber lighting	M12-Round plug
-XG75.3 = -XG75.2 deflagration flap monitoring	M12-Round plug

-XG100 = -XG100 working chamber lighting loading	M12-Round plug
-XG101 = -XG101 working chamber lighting intermediate storage	M12-Round plug
-XG300 = -XG300 workpiece clamping device C1 nominal value	M12-Round plug shielded
-XG301 = -XG301 workpiece clamping device C2 nominal value Only with double-spindle machine SV²	
-XG302 = -XG302 2.Brake Z axis	M12-Round plug
-XG812.2 = -XG812.2 release pneumatic movements	M12-Round plug
-XG813.1 = -XG813.1 unclamping A axis valve 1	M12-Round plug
-XG813.2 = -XG813.2 unclamping A axis valve 2	M12-Round plug
-XG814 = -XG814 release undo tool clamping device	M12-Round plug
-XG905.1 = -XG905.1 valve gripper 1	M12-Round plug
-XG906.1 = -XG906.1 valve gripper 2	M12-Round plug
-XG905.2 = -XG905.2 valve gripper 1	M12-Round plug
-XG906.2 = -XG906.2 valve gripper 2 Speed Viper single-spindle machine	M12-Round plug
-XG920 = -XG920 gap finding sensor C1 axis	M12-Round plug shielded
-XG930 = -XG930 gap finding sensor C2 axis	M12-Round plug shielded
-XG100.1 = XG100.1 swivel loader door at front	M12-Round plug
-XG100.2 = XG100.2 swivel loader door at rear Speed Viper single-spindle machine	M12-Round plug
-XG100.3 = XG100.3 service door closed	M12-Round plug

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of plug codings M12 round plug
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

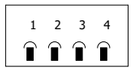
433021	& E01
	+ 10
650.01.433021	page 40
drawing number	from 230

-XG920.32 = -XG920.32 tool clamping fixture position actual value



M12-Round plug shielded

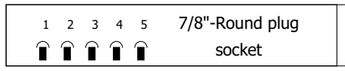
-XG940 = -XG940 level leakage oil collector pan



M12-Round plug

-XD25 = -XD25 Control panel supply

-XD25



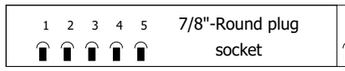
-XG900

Modlink MPV
section HAN24

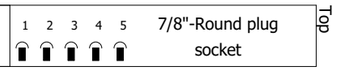
-XG900 = -XG900 24VDC valve terminal

-XG912 = -XG912 24VDC IO link master hydraulics

-XG912



-XG911

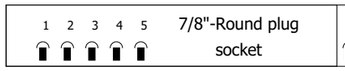


Modlink MPV
section HAN24

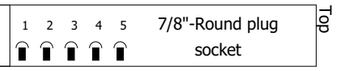
-XG911 = -XG911 24VDC IO link master hydraulics

-XG922 = -XG922 24VDC IO link master machine

-XG922



-XG921

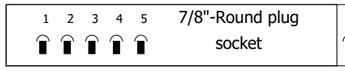


Modlink MPV
section HAN24

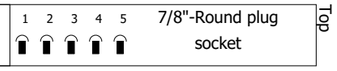
-XG921 = -XG921 24VDC IO link master machine

-XG932 = -XG932 24VDC IO link master cooling

-XG932



-XG932

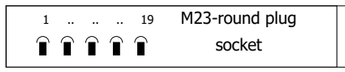


Modlink MPV
section HAN24

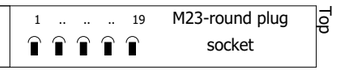
-XG931 = -XG931 24VDC IO link master cooling

-XG113 = -XG113 control panel signals

-XG113



-XG112

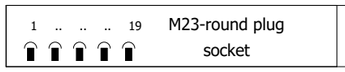


Modlink MPV
section HAN24

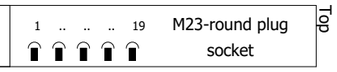
-XG112 = -XG112 control panel signals

-XG115 = -XG115 control panel signals

-XG115



-XG114

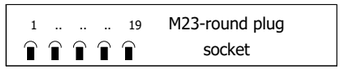


Modlink MPV
section HAN24

-XG114 = -XG114 control panel signals

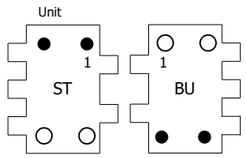
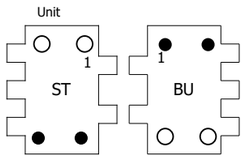
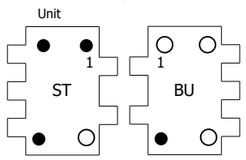
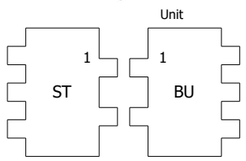
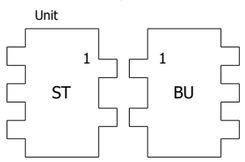
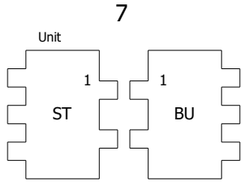
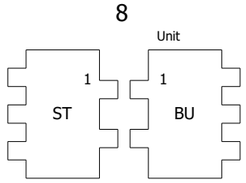
-XG116 = -XG116 grinding wheel step switch

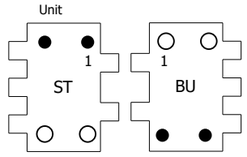
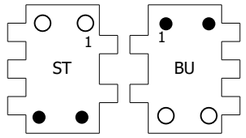
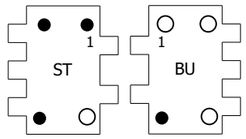
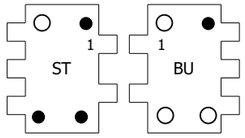
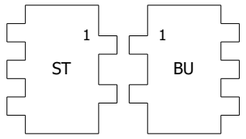
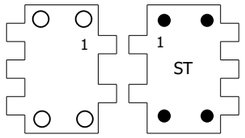
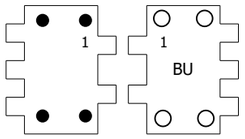
-XG116

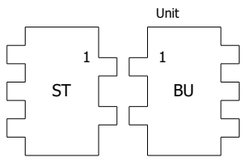


Modlink MPV
section HAN6

Harting plug on machine

	1	2	3	5	6	7	8
							
	+83-HR83-X2 = +83-HR83-X2 oil mist collector performance	+83-HR83-X3 = +83-HR83-X3 oil mist collector signals	+40-EC40-XS40 = +40-EC40-XS40 cooling unit	+82-XG100 = +82-XG100 filter system interface	+99-XG99 = +99-XG99 fire extinguishing system interface	+99-XD99 = +99-XD99 fire extinguishing system interface	+99-XG99.1 = +99-XG99 Fire extinguishing system manual release
6-pin	+83-HR83-X2	+83-HR83-X3	+40-EC40-XS40	--	--	+99-XD99	--
10-pin				--	--	--	+99-XG99.1
24-pin				+82-XG100	+99-XG99	--	--

	8	9	10	11	12	Automation 13	Automation 14
							
	+101-XG101.3 = +101-XG101.3 loading door safety strip		+35-XD36.1 = +35-XD36.1 motor hydraulics	+88-MA88-XD1:1 = +88-MA88-XD1:1 return oil pump			
6-pin	+101-XG101.3	--	--	--	--	--	--
10-pin	--	--	+35-XD36.1	+88-MA88-XD1:1	--	--	--
16-pin	--	--	--	--	--	--	X6111 +102-UC102-OUT
24-pin	--	--	--	--	--	X6110 +102-UC102-IN	--



+99-XG99.1 = +99-XG99 Fire extinguishing system manual release

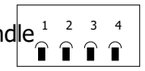
6-pin	--
10-pin	+99-XG99.1
24-pin	--

BU - socket insert
ST - pin insert

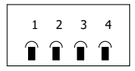
● - Coding pin
!!!WORT FEHLT!!!

○ - Coding bush
!!!WORT FEHLT!!!

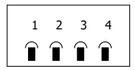
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of plug codings on machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 42
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+67-XG920.3 = +67-XG920.3 position sensor clamping system grinding spindle 

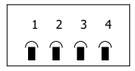
M12-Round plug

+60-XG302.1 = external brake Z-axis 

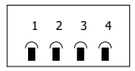
M12-Round plug

+92-XG20.1 = +92-XG20.1 vibration sensor Z1 axis 

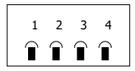
M12-Round plug

+93-XG21.1 = +93-XG21.1 vibration sensor Z2 axis 

M12-Round plug

+48-XG920.2 = +48-XG920.2 Gap finding sensor Z3-axis 

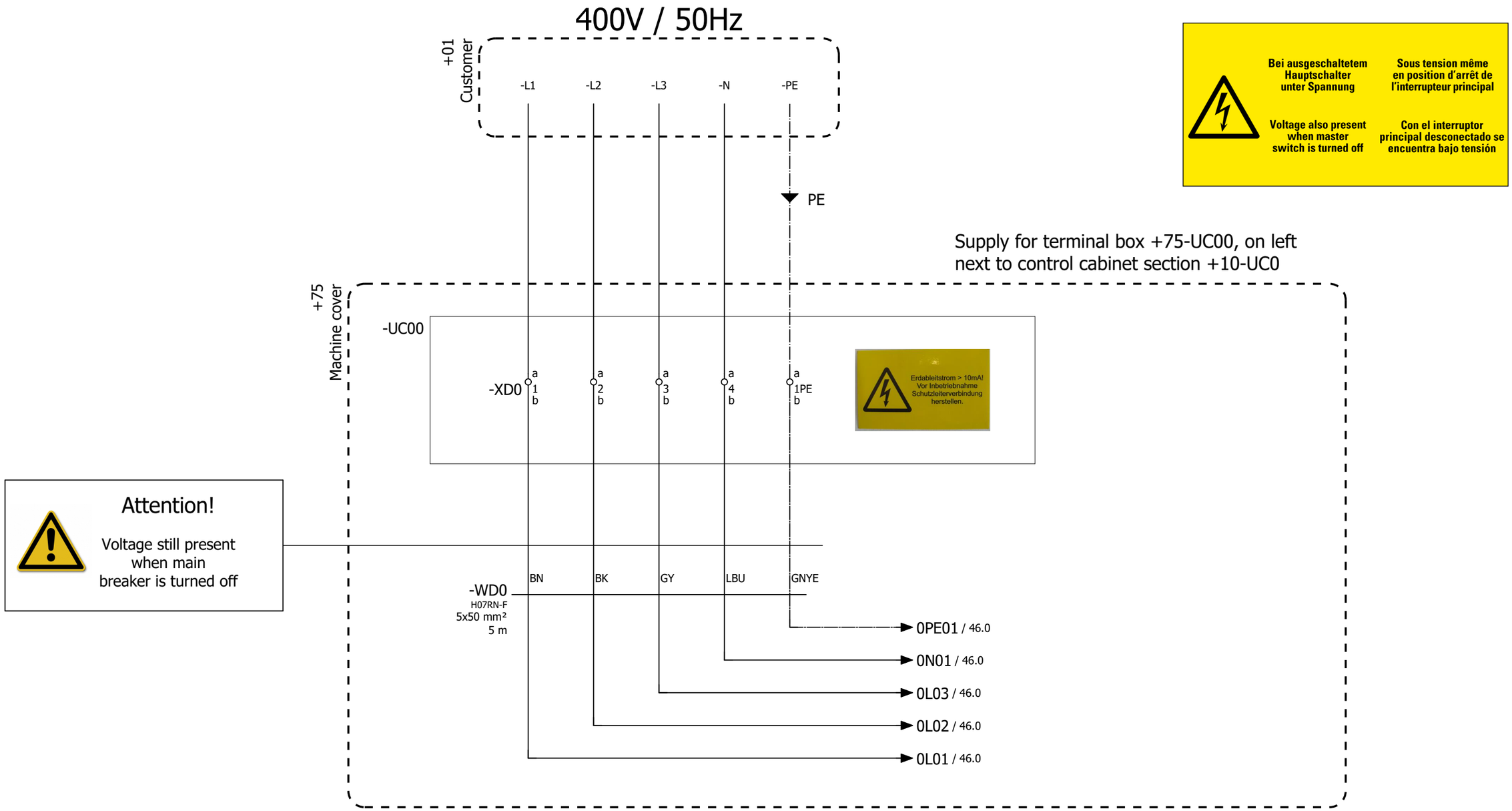
M12-Round plug

+49-XG930.2 = +49-XG930.2 Gap finding sensor Z4-axis 

M12-Round plug

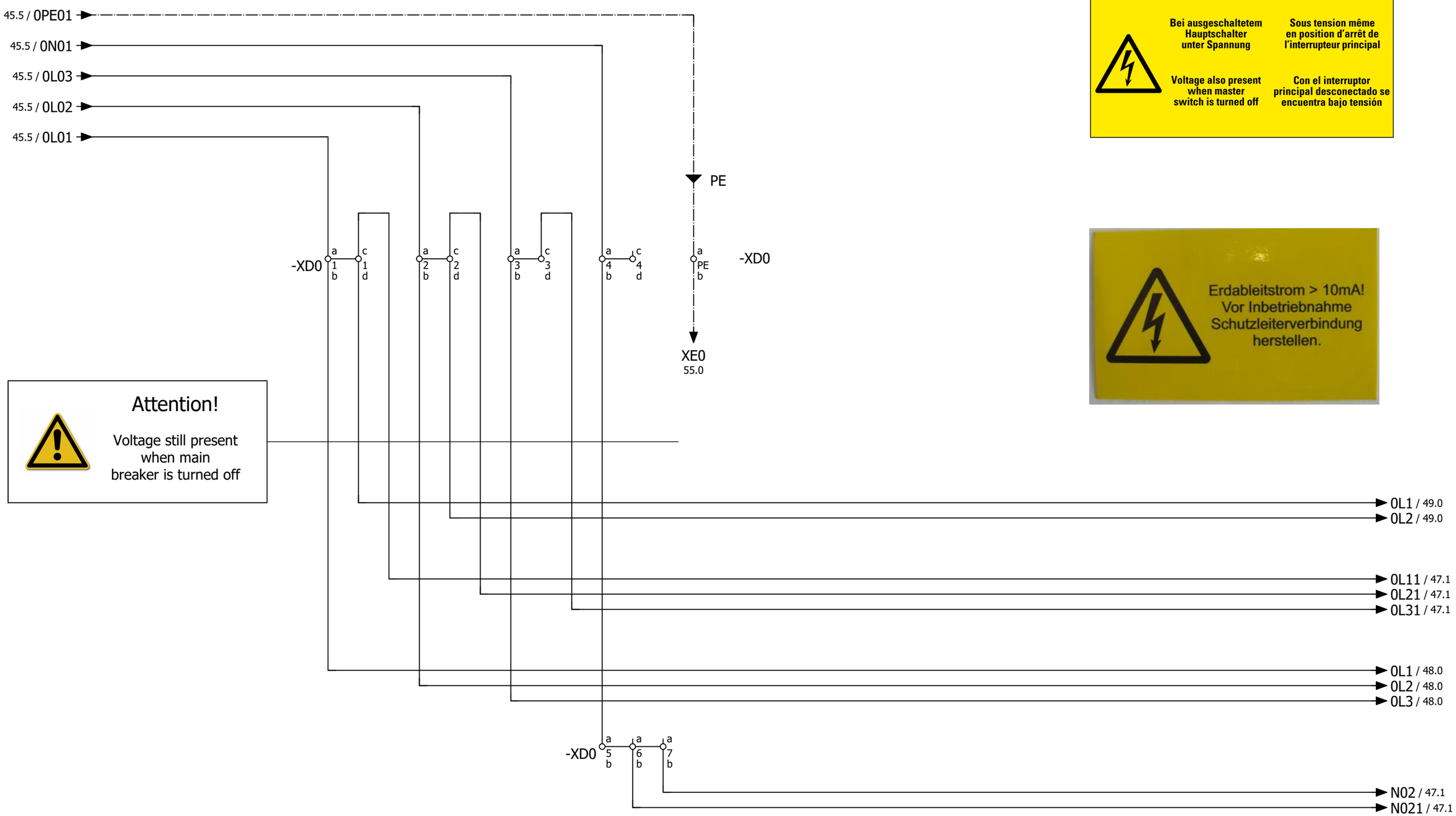
0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Einspeisung Anpasstrafo	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 44
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

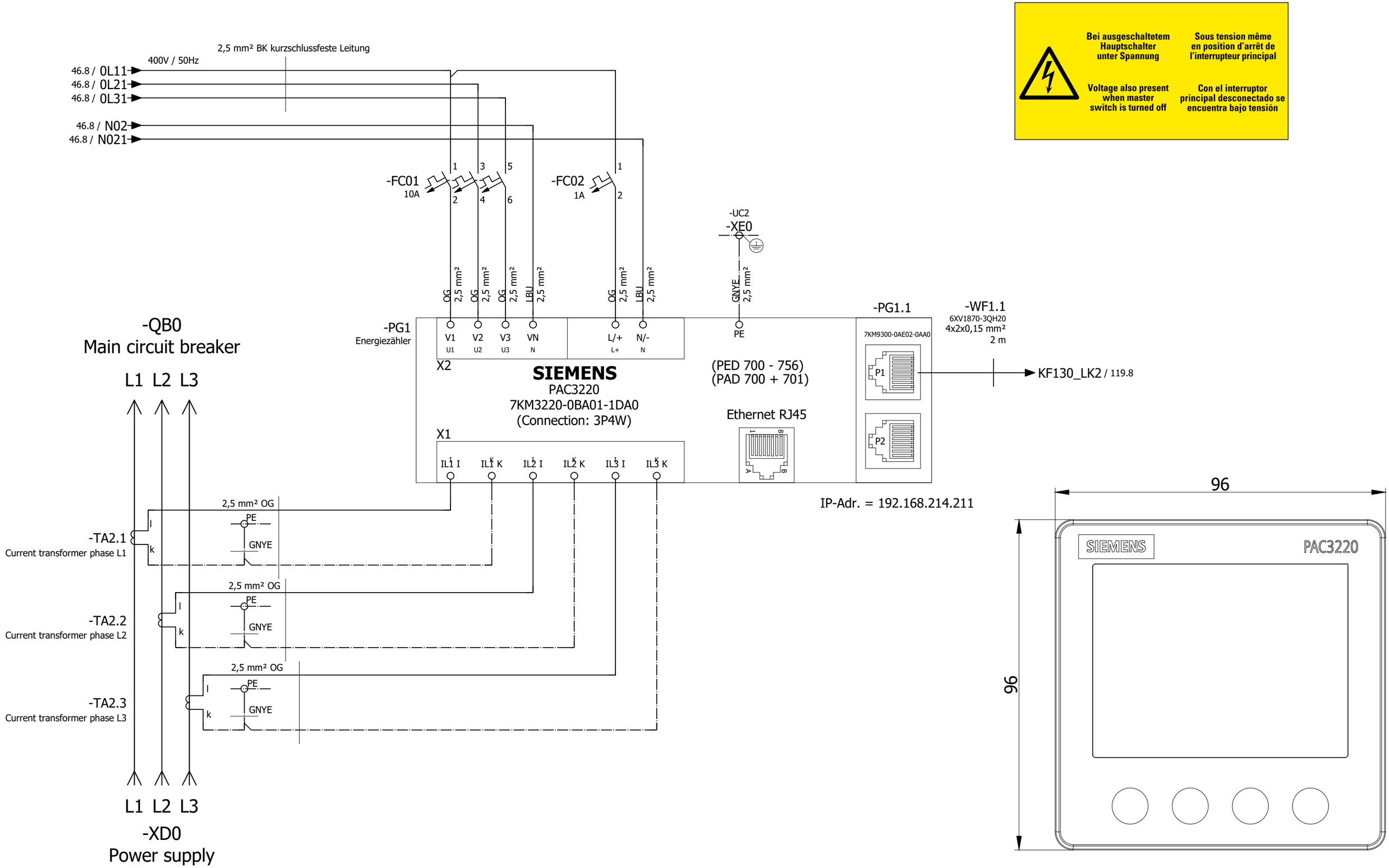


Parameter	Value
Nominal voltage Rated frequency rated current Rated short-circuit current Icc:	3 AC 400 V 50 Hz 50 A 15 kA

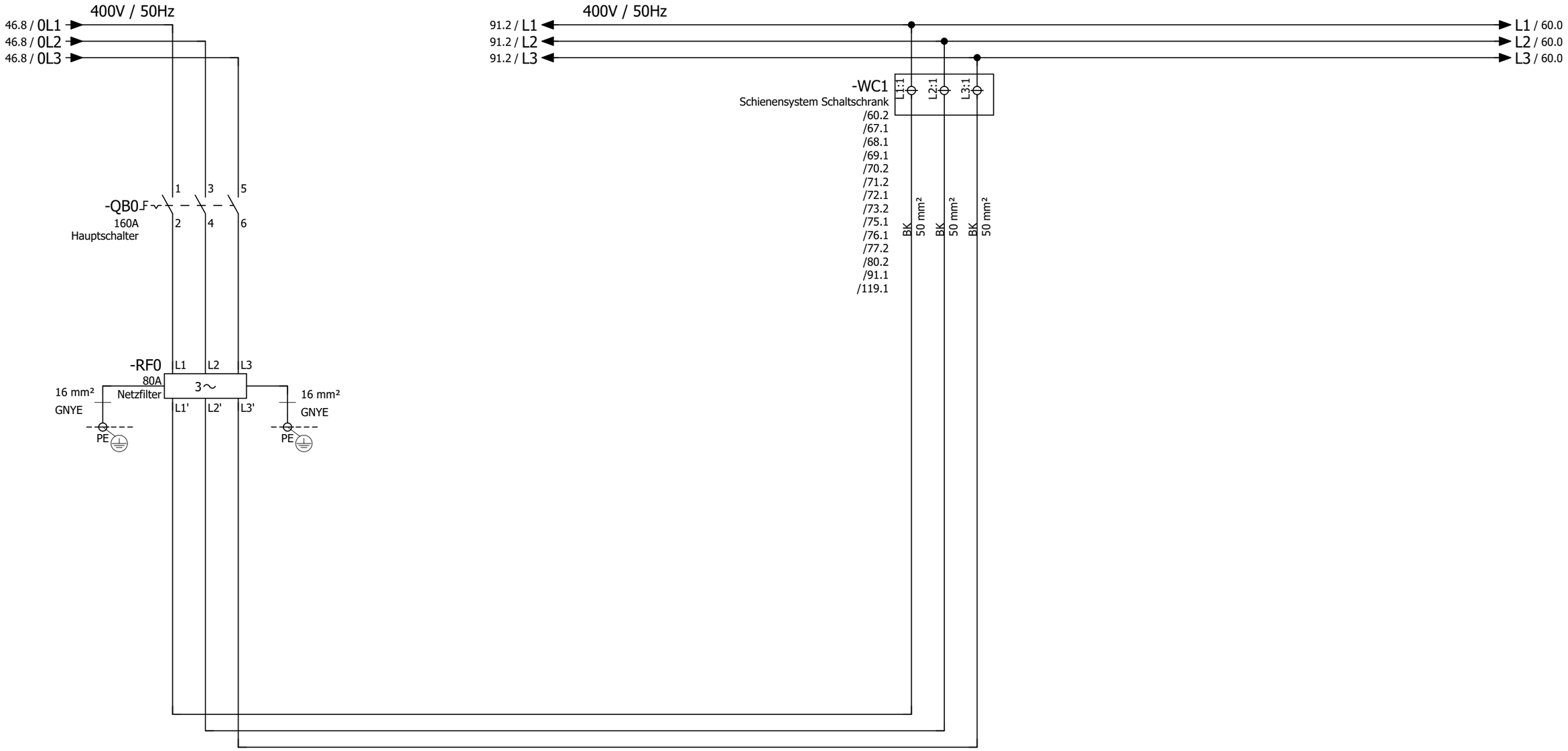
Supply for SV300



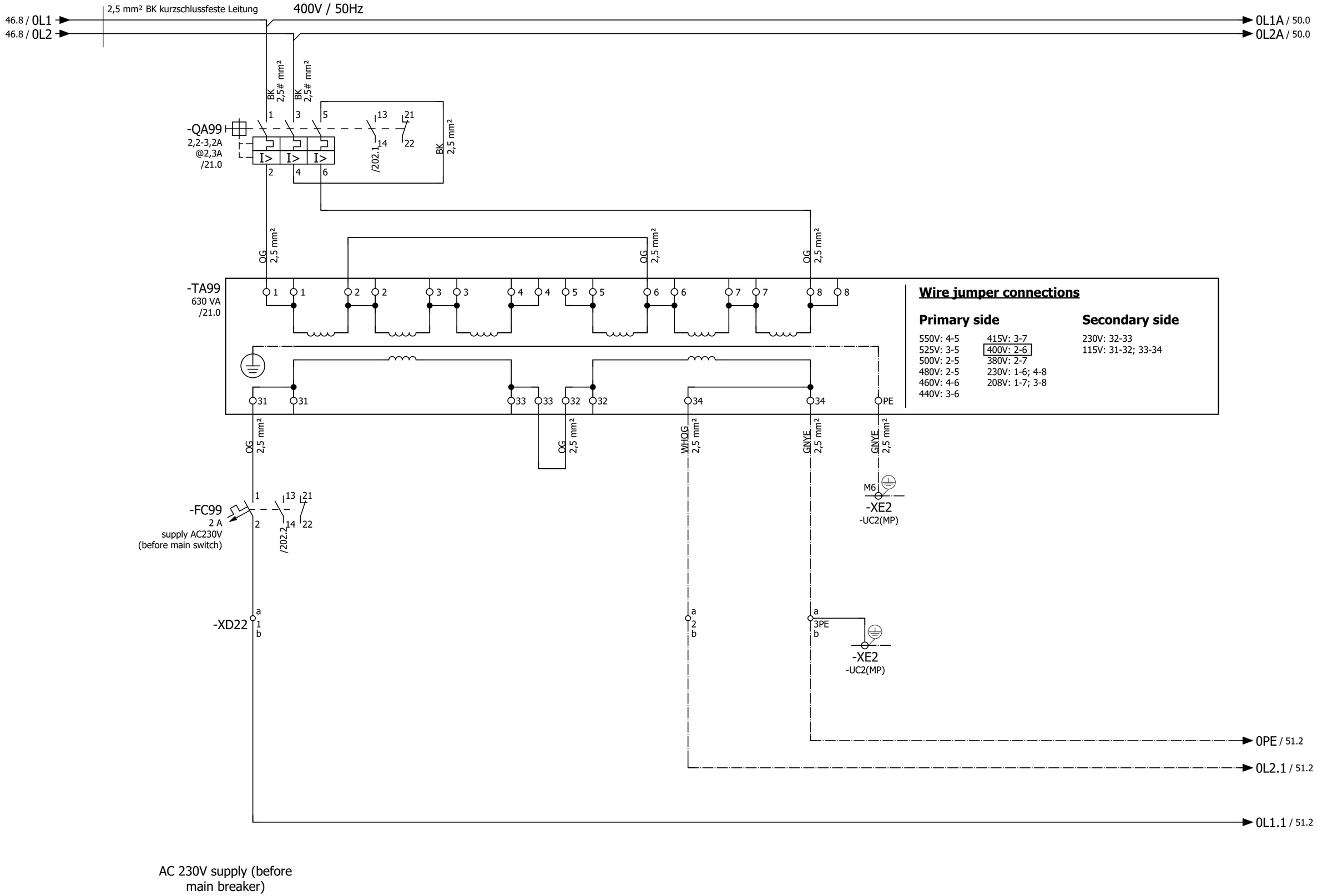
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Supply for control cabinet	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 46
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



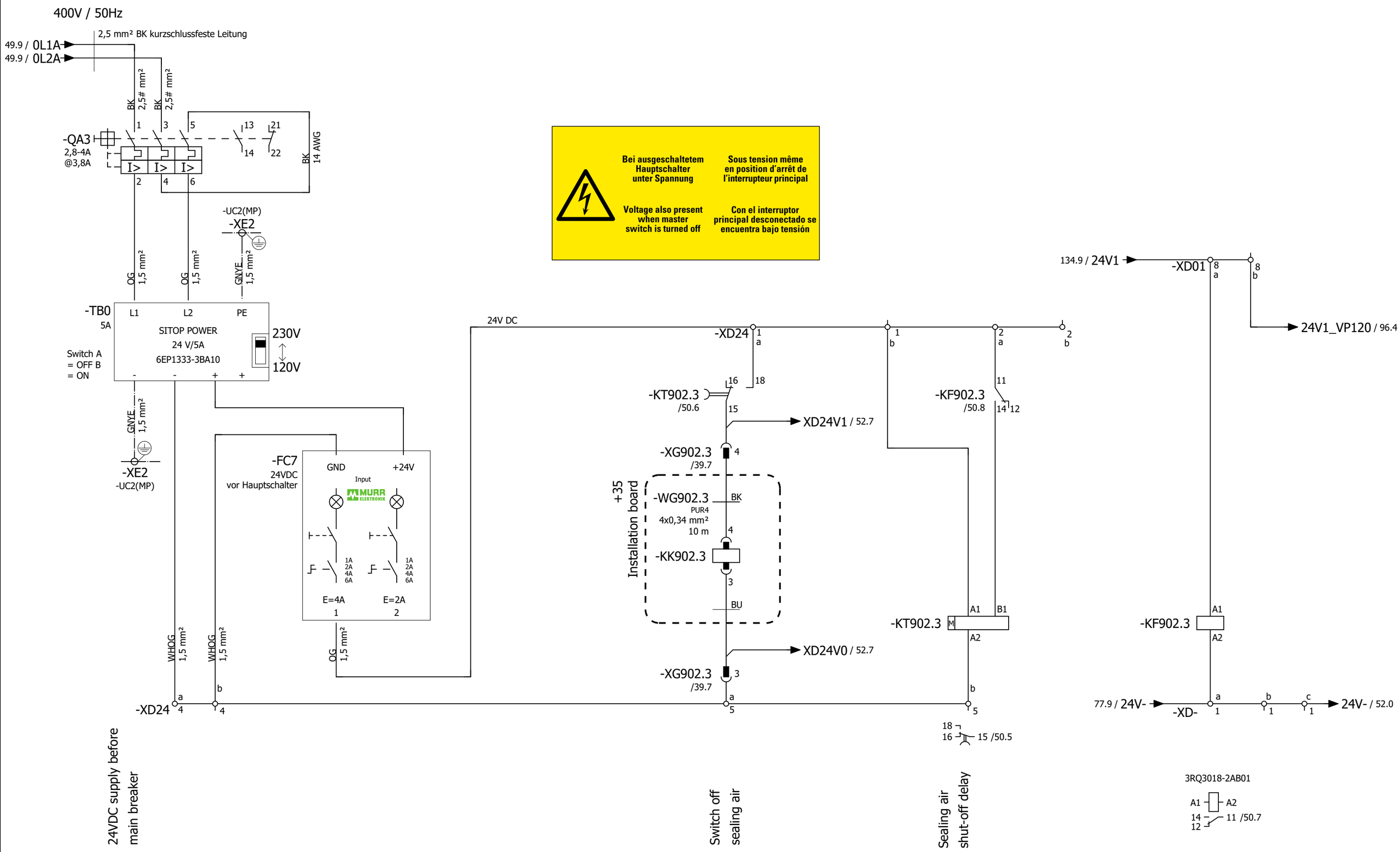
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Energy measuring device	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 47
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



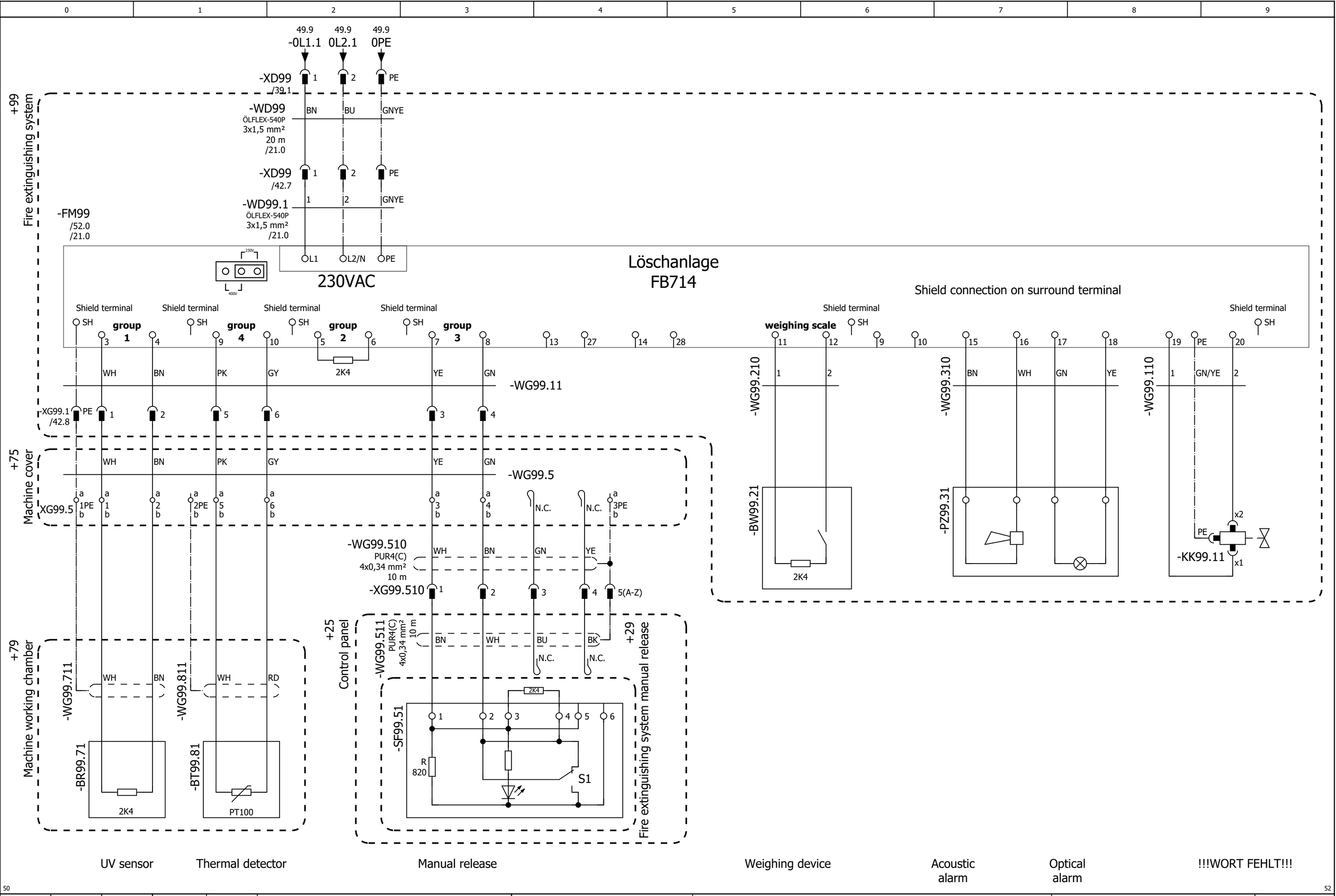
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Main switch	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 48
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



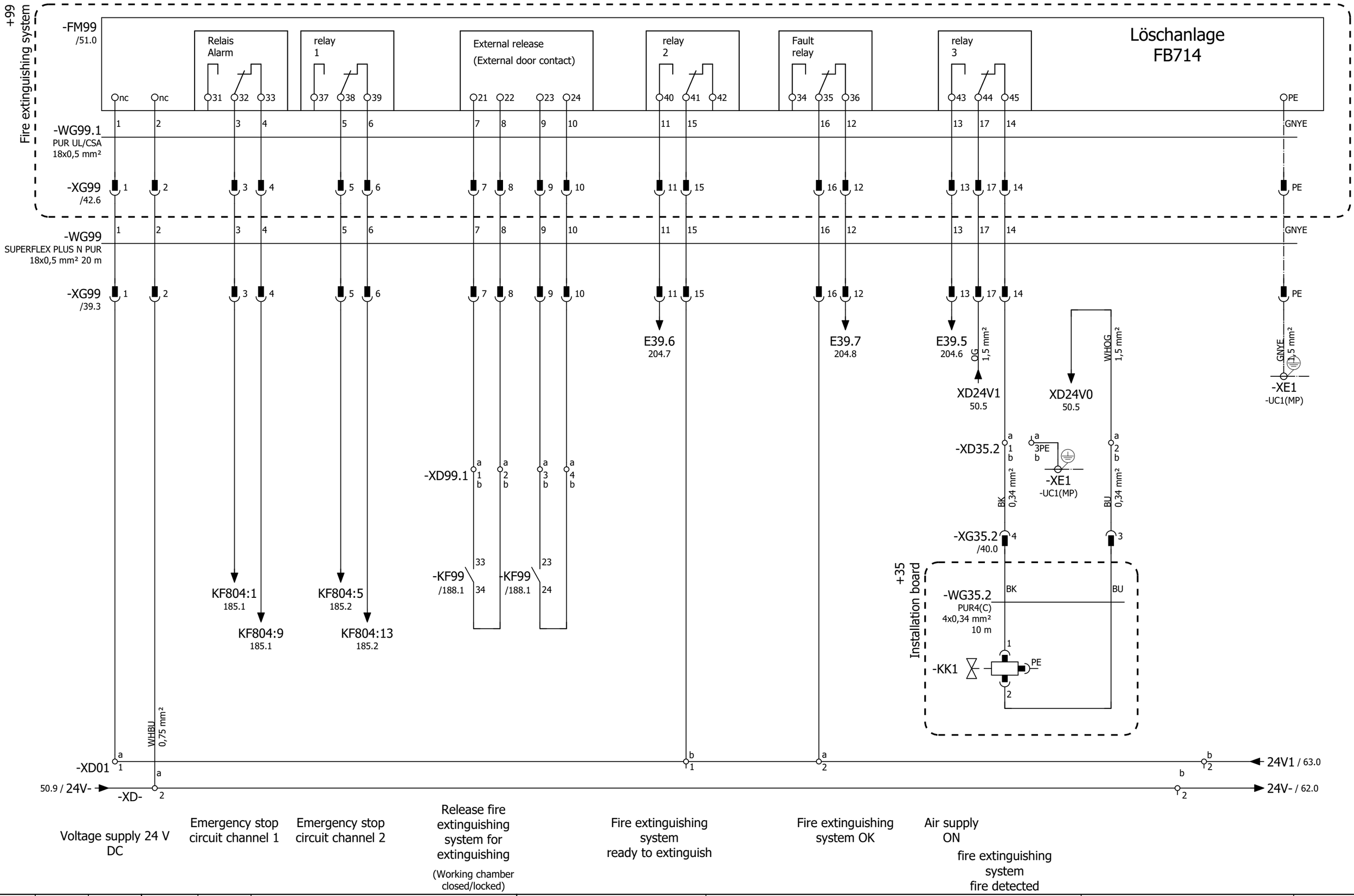
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	230VAC supply (before main breaker)	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 49
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



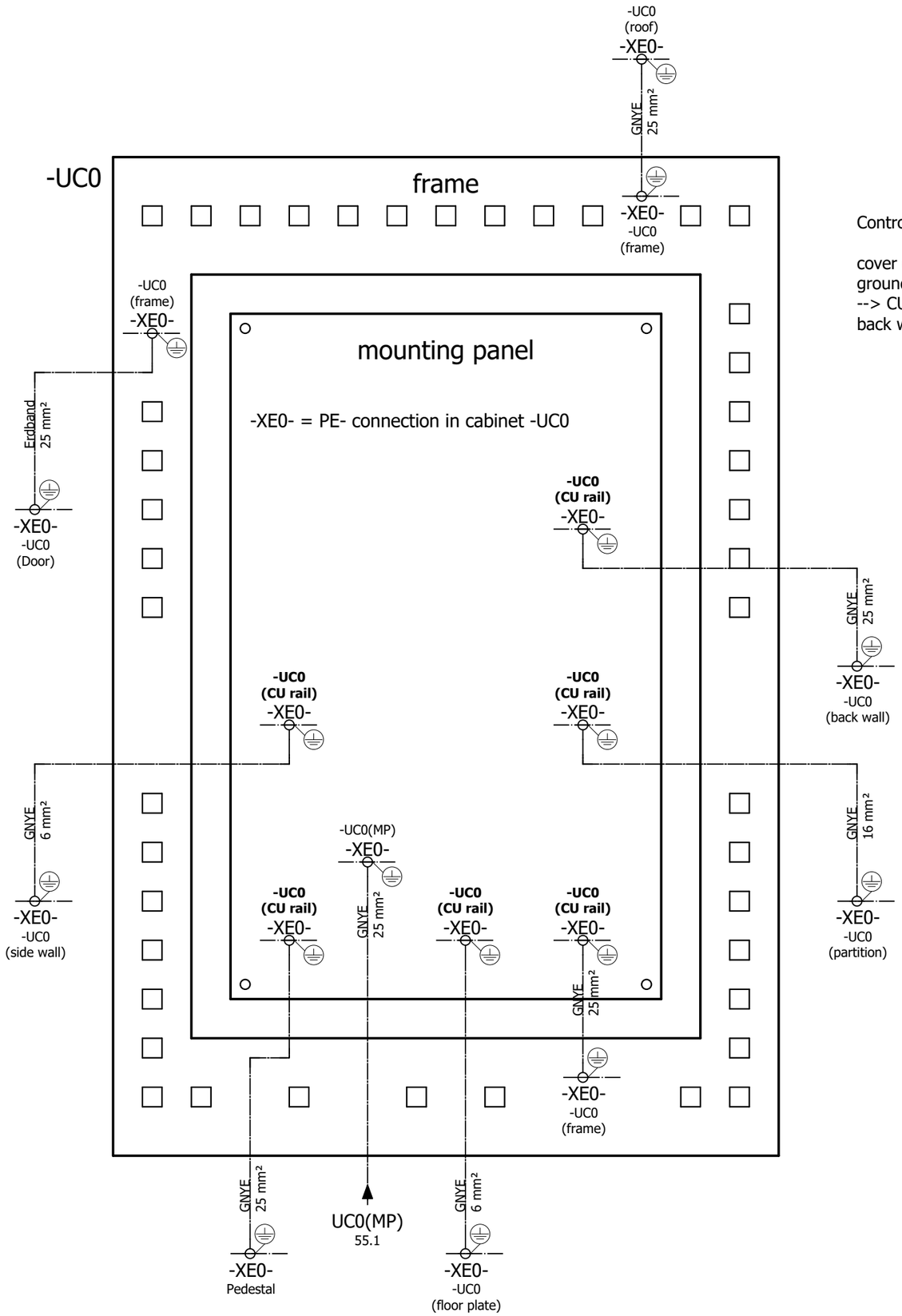
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24VDC supply (before main breaker)	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 50
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Fire extinguishing system	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 51
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

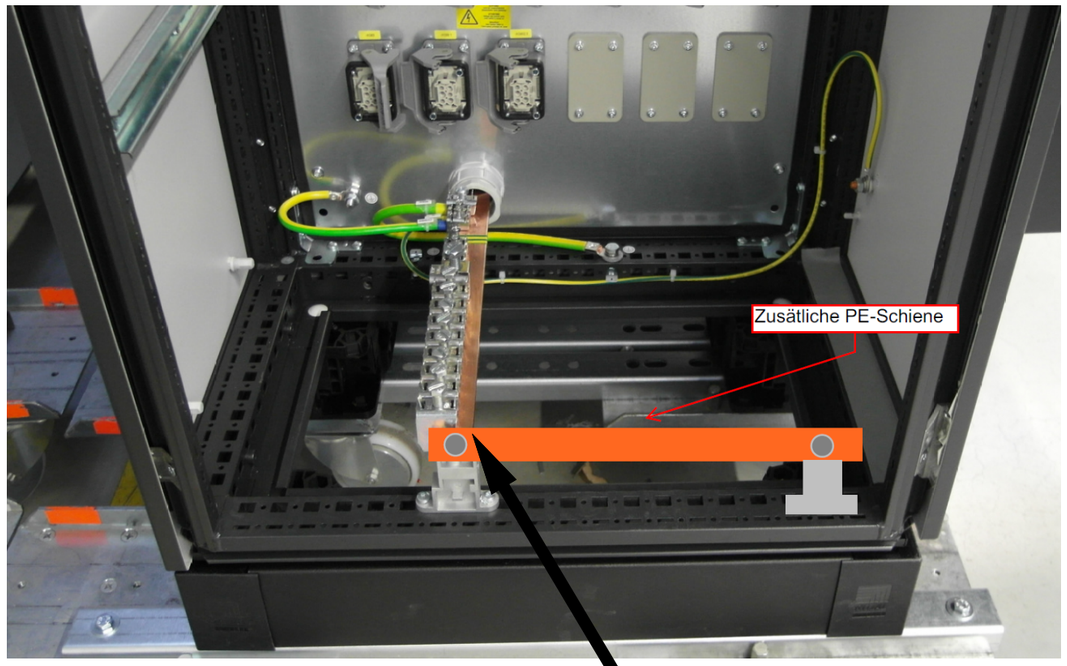


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Fire extinguishing system interface	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 52
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



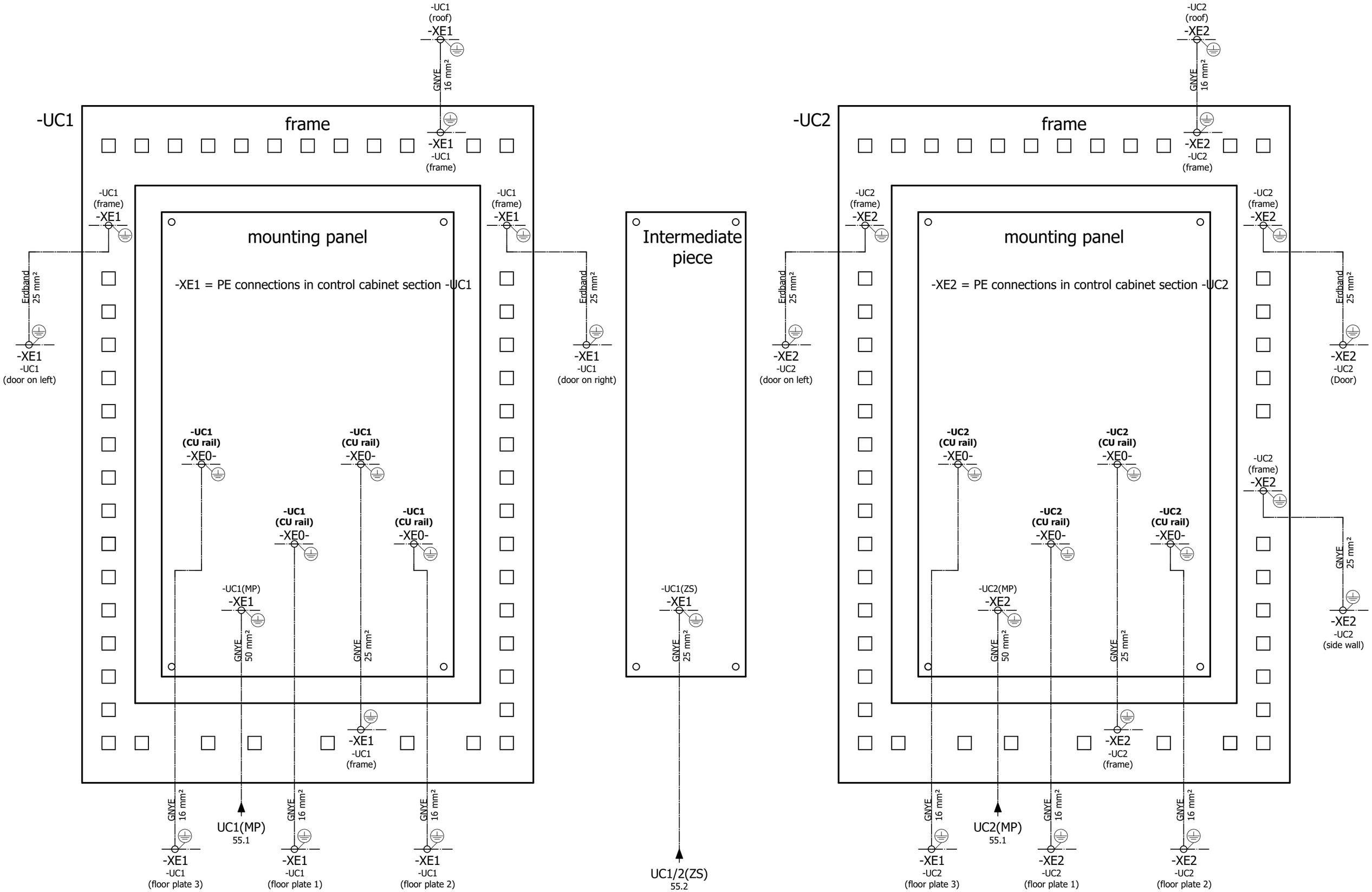
Control cabinet groundings (frame / CU rail)

cover (top) --> Door frame --> Frame (with
ground strap !) Floor plates (bottom) --> CU rail side walls (L/R)
--> CU rail mounting plate --> CU rail
back wall --> CU rail



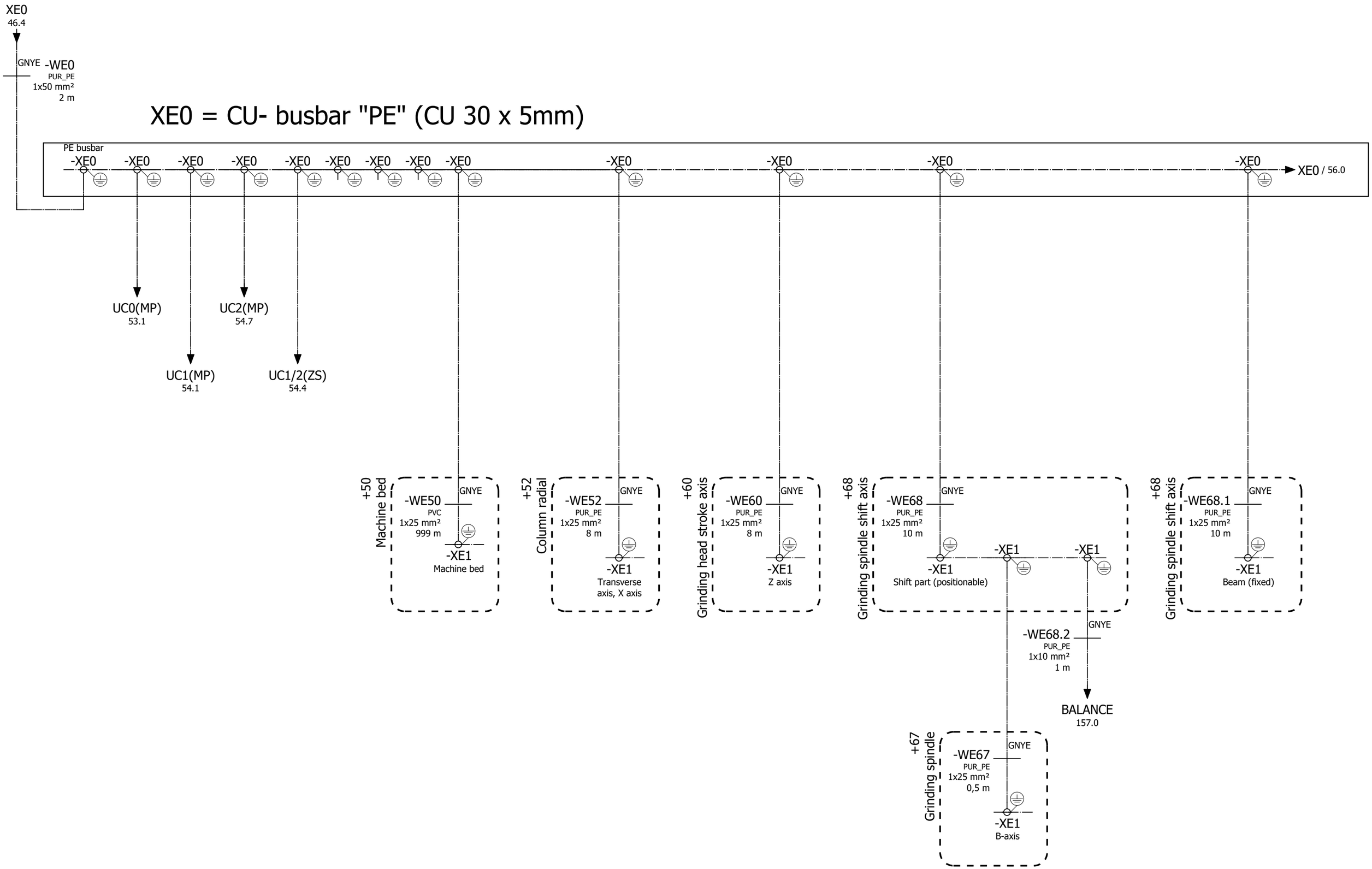
-XE0- = PE- connection in cabinet -UC0

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, control cabinet -UC0	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 53
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



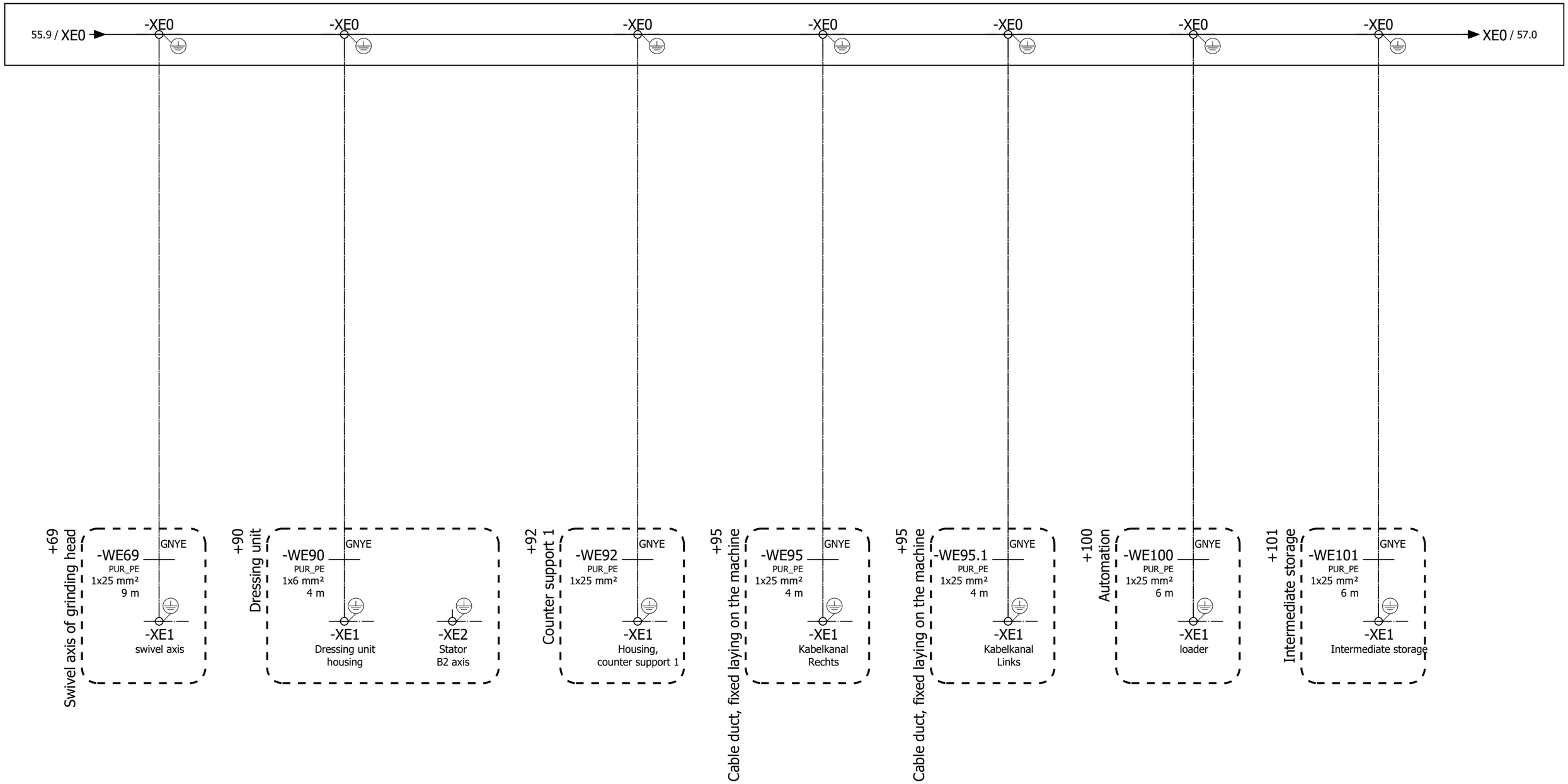
53 55

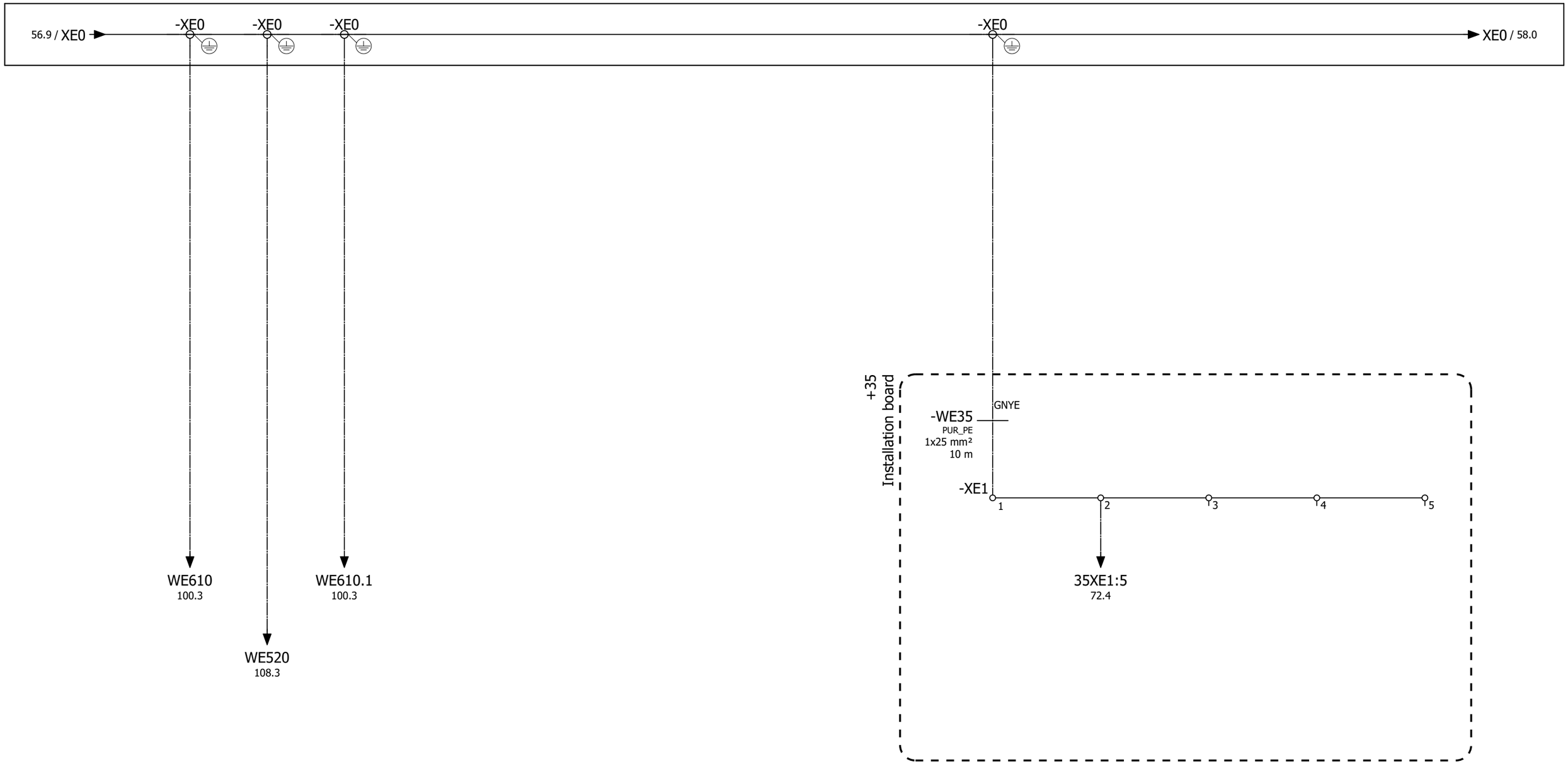
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, control cabinet -UC1 and -UC2	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 54
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



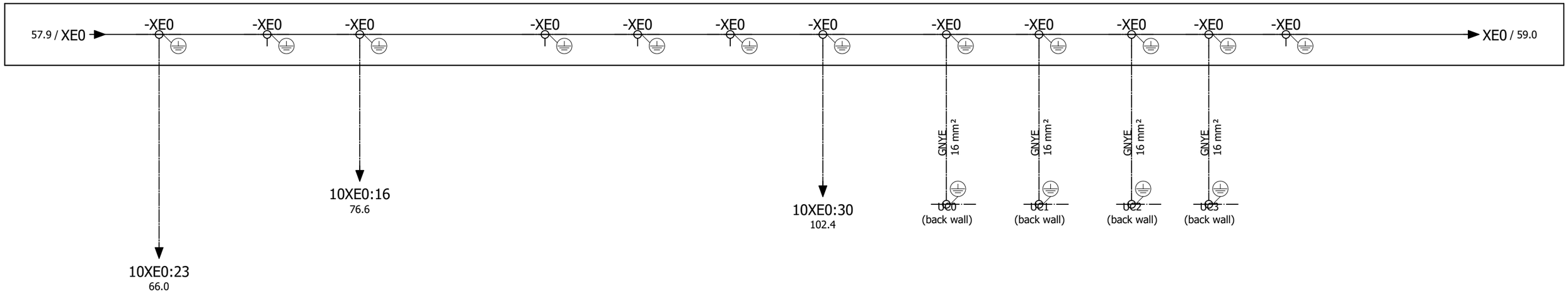
54 56

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 55
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

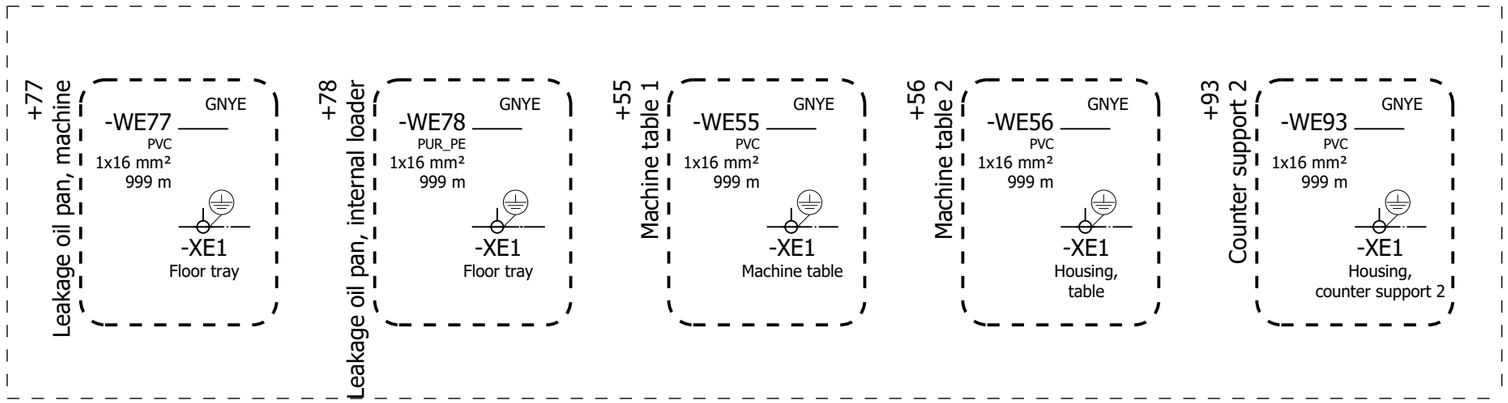

55.9 / XE0
-XE0
-XE0
-XE0
-XE0
-XE0
-XE0
-XE0
XE0 / 57.0
+69
Swivel axis of grinding head
-WE69
GNYE
PUR_PE
1x25 mm²
9 m
-XE1
swivel axis
+90
Dressing unit
-WE90
GNYE
PUR_PE
1x6 mm²
4 m
-XE1
Dressing unit
housing
-XE2
Stator
B2 axis
+92
Counter support 1
-WE92
GNYE
PUR_PE
1x25 mm²
-XE1
Housing,
counter support 1
+95
Cable duct, fixed laying on the machine
-WE95
GNYE
PUR_PE
1x25 mm²
4 m
-XE1
Kabelkanal
Rechts
+95
Cable duct, fixed laying on the machine
-WE95.1
GNYE
PUR_PE
1x25 mm²
4 m
-XE1
Kabelkanal
Links
+100
Automation
-WE100
GNYE
PUR_PE
1x25 mm²
6 m
-XE1
loader
+101
Intermediate storage
-WE101
GNYE
PUR_PE
1x25 mm²
6 m
-XE1
Intermediate storage



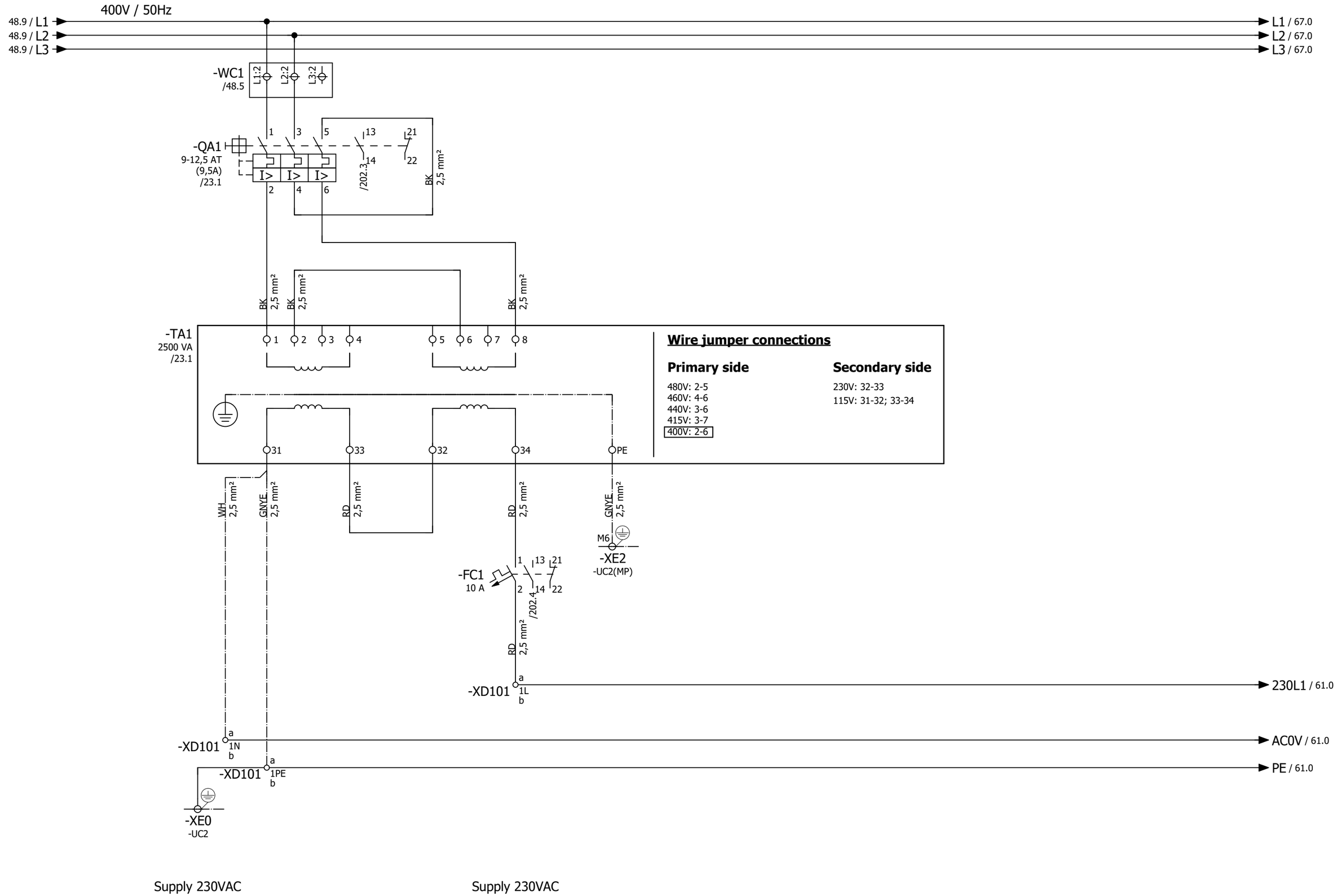
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 57
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



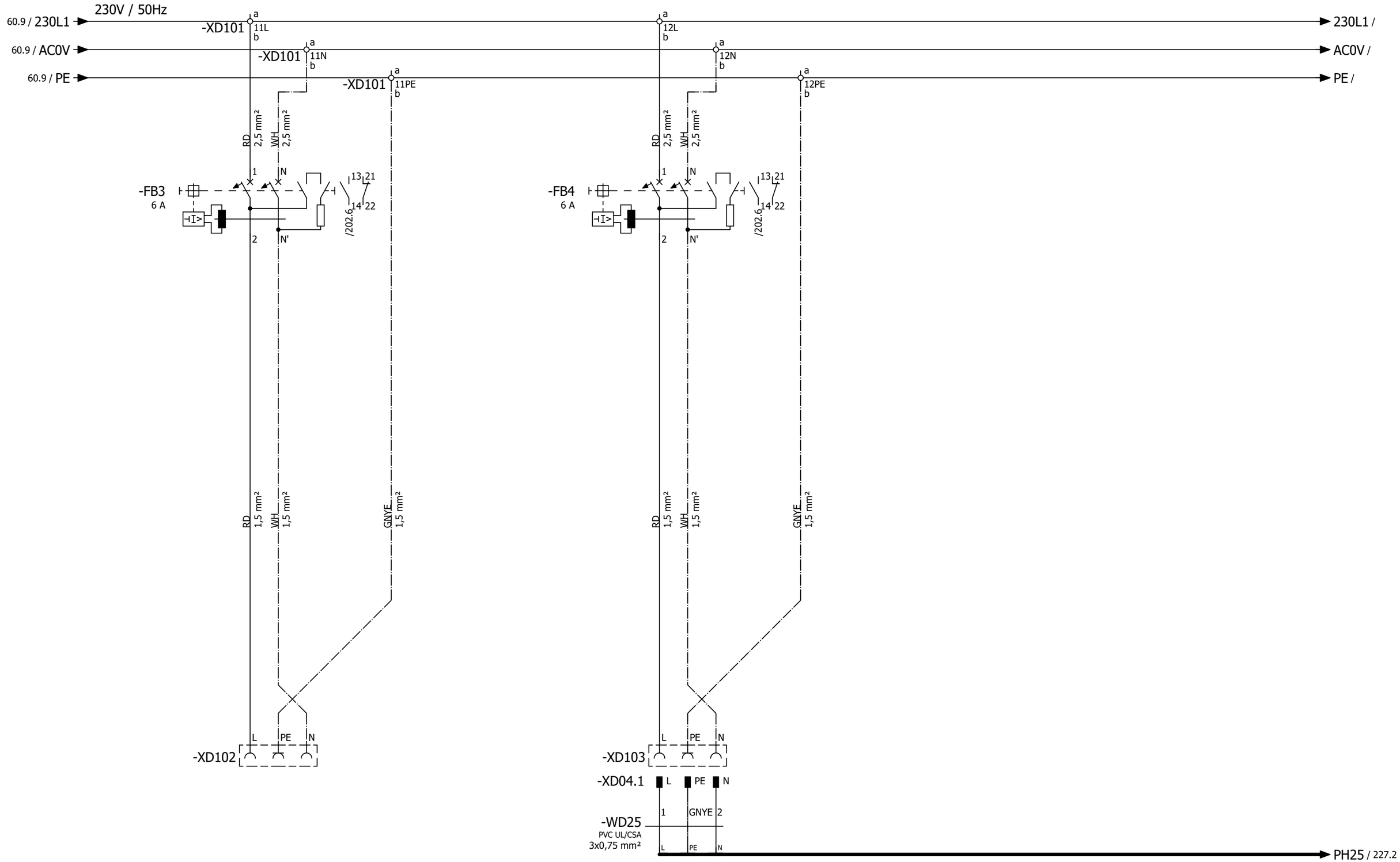
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, internal loader	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 58
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Protective conductor, machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 59
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



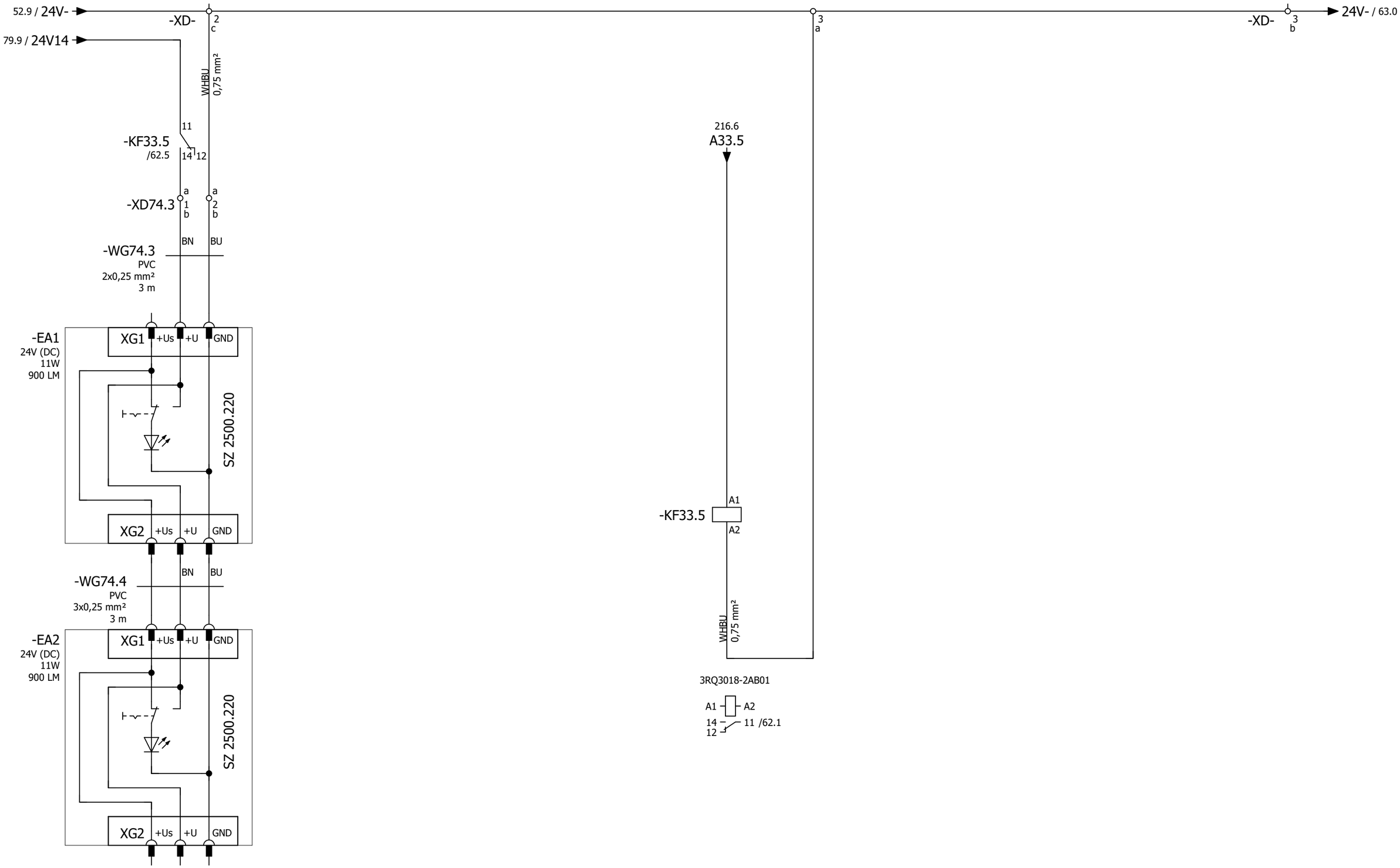
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Supply 230VAC	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 60
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Control cabinet socket

Control cabinet socket

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Sockets	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 61
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



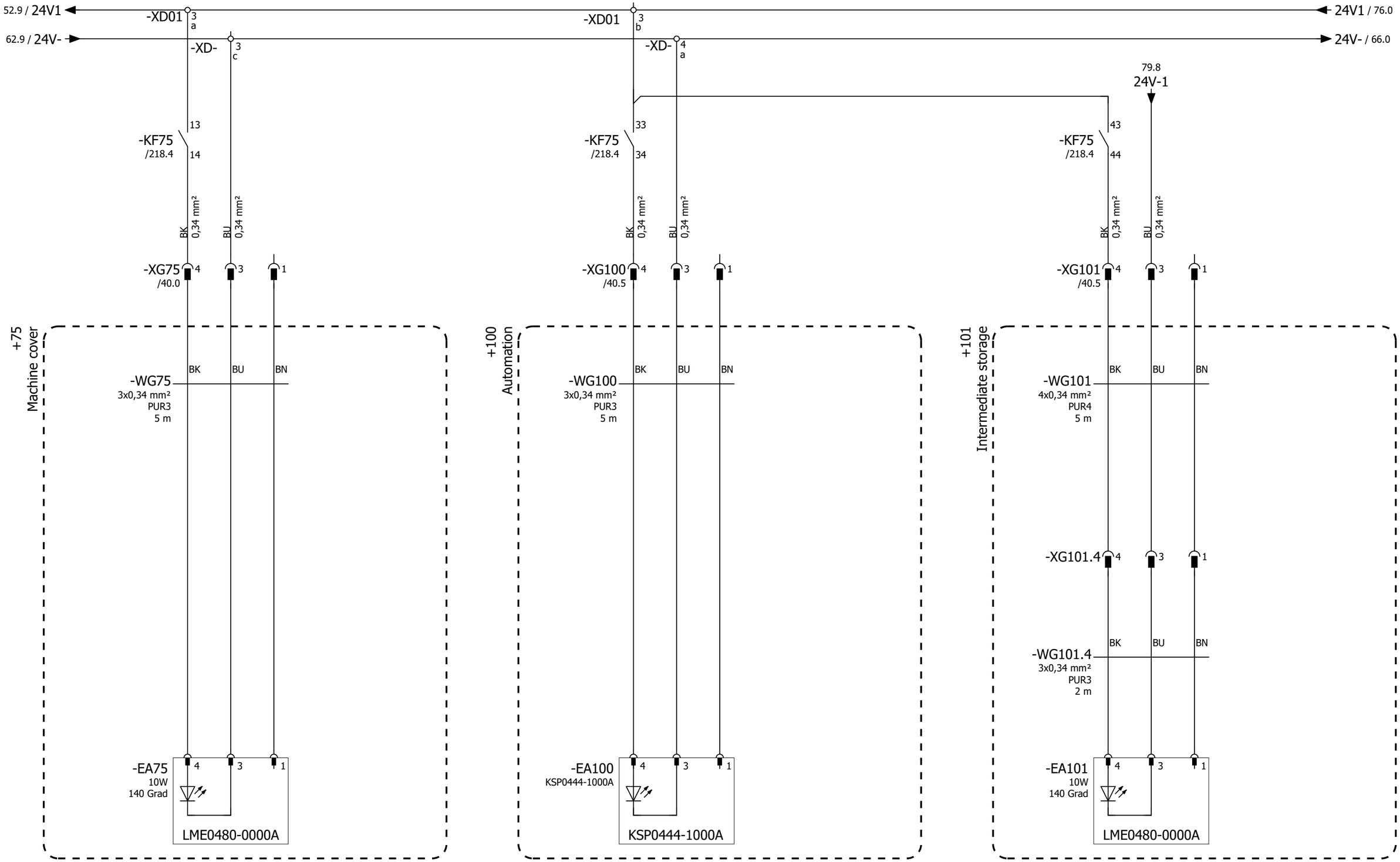
Control cabinet lighting
-UC1 / -UC2

illumination control
cabinet On
-UC1 / -UC2

61

63

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Control cabinet lighting	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 62
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Working chamber lighting

loading device

Intermediate storage

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Working chamber lighting 24V DC	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 63
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

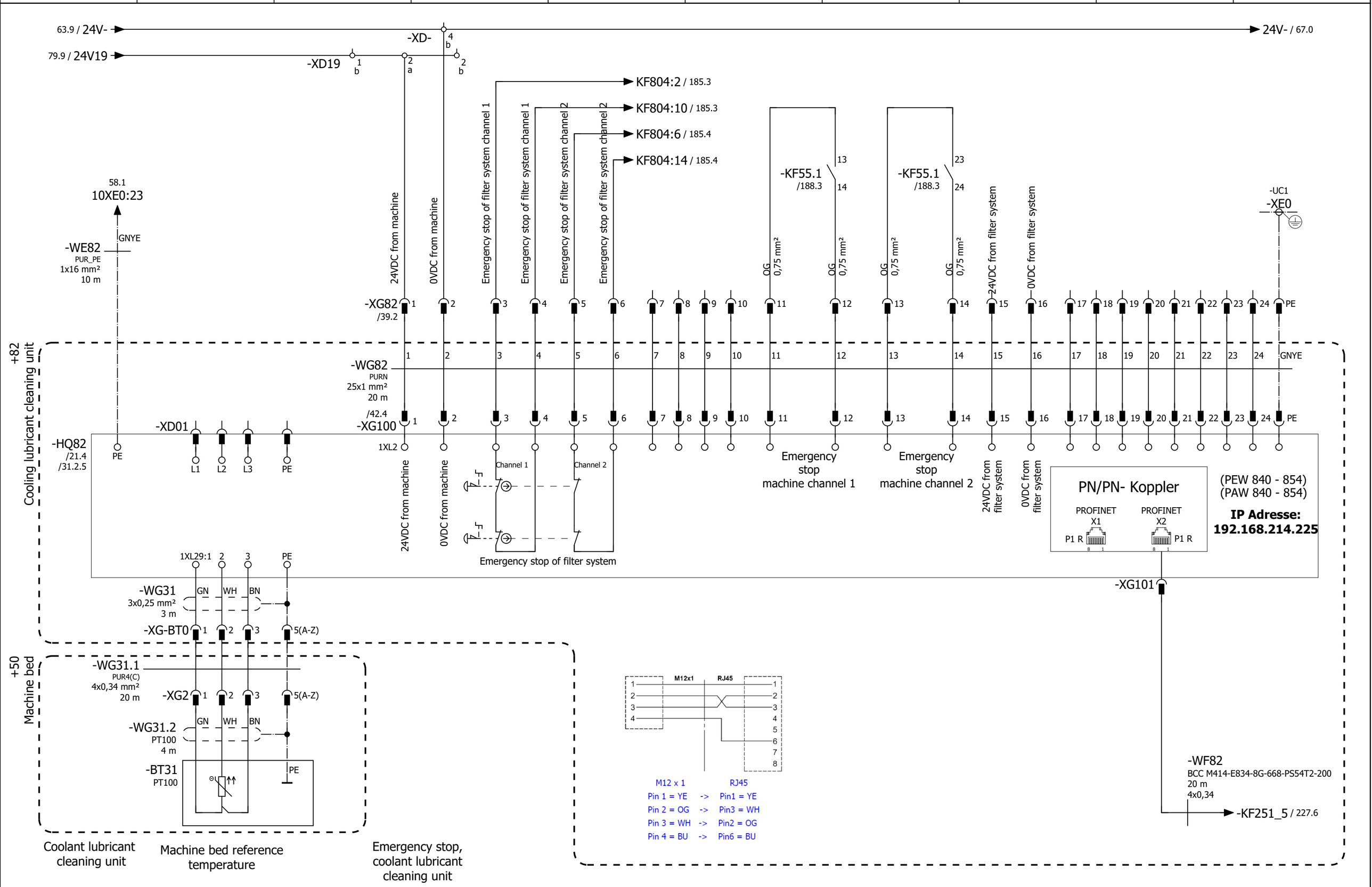
0	1	2	3	4	5	6	7	8	9

Option !!

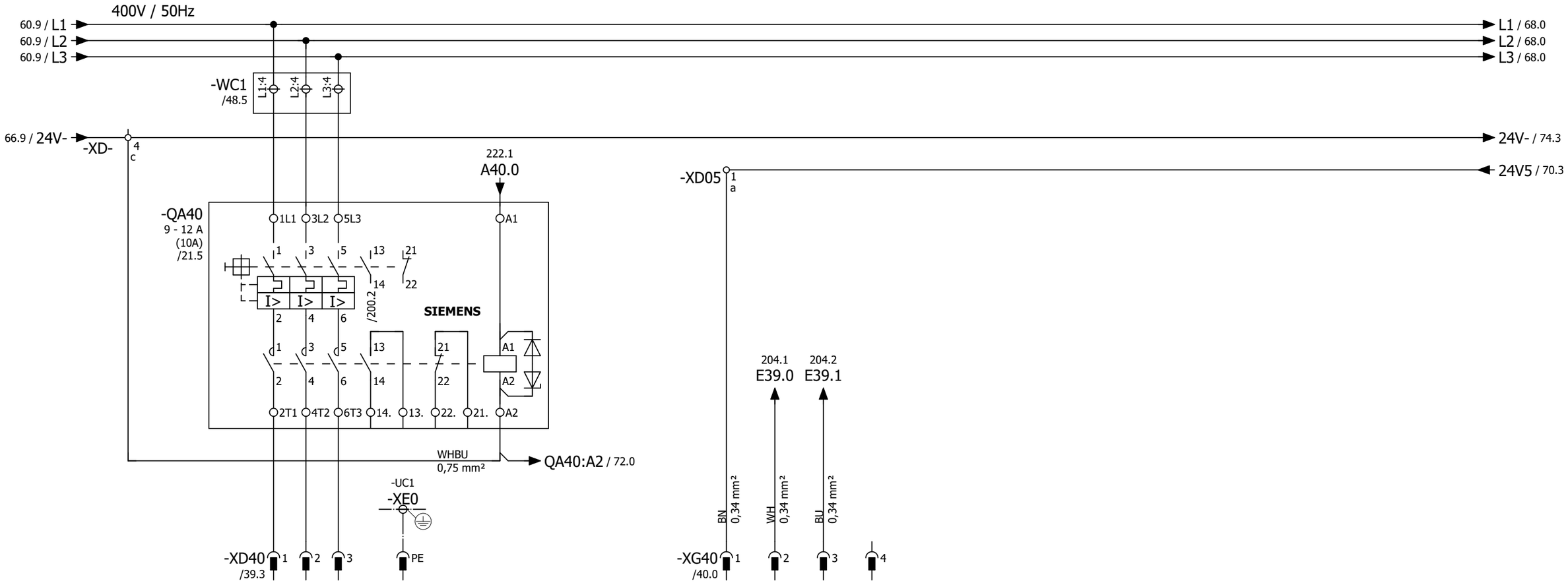
Leakage oil
pump, oil
pan machine

Option !!

Leakage oil
pump, oil
pan internal loader



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Cooling lubricant cleaning unit	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 66
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Cooling unit 1
(machine)

Cooling unit 1
ready for use

Cooling unit 1
collective fault

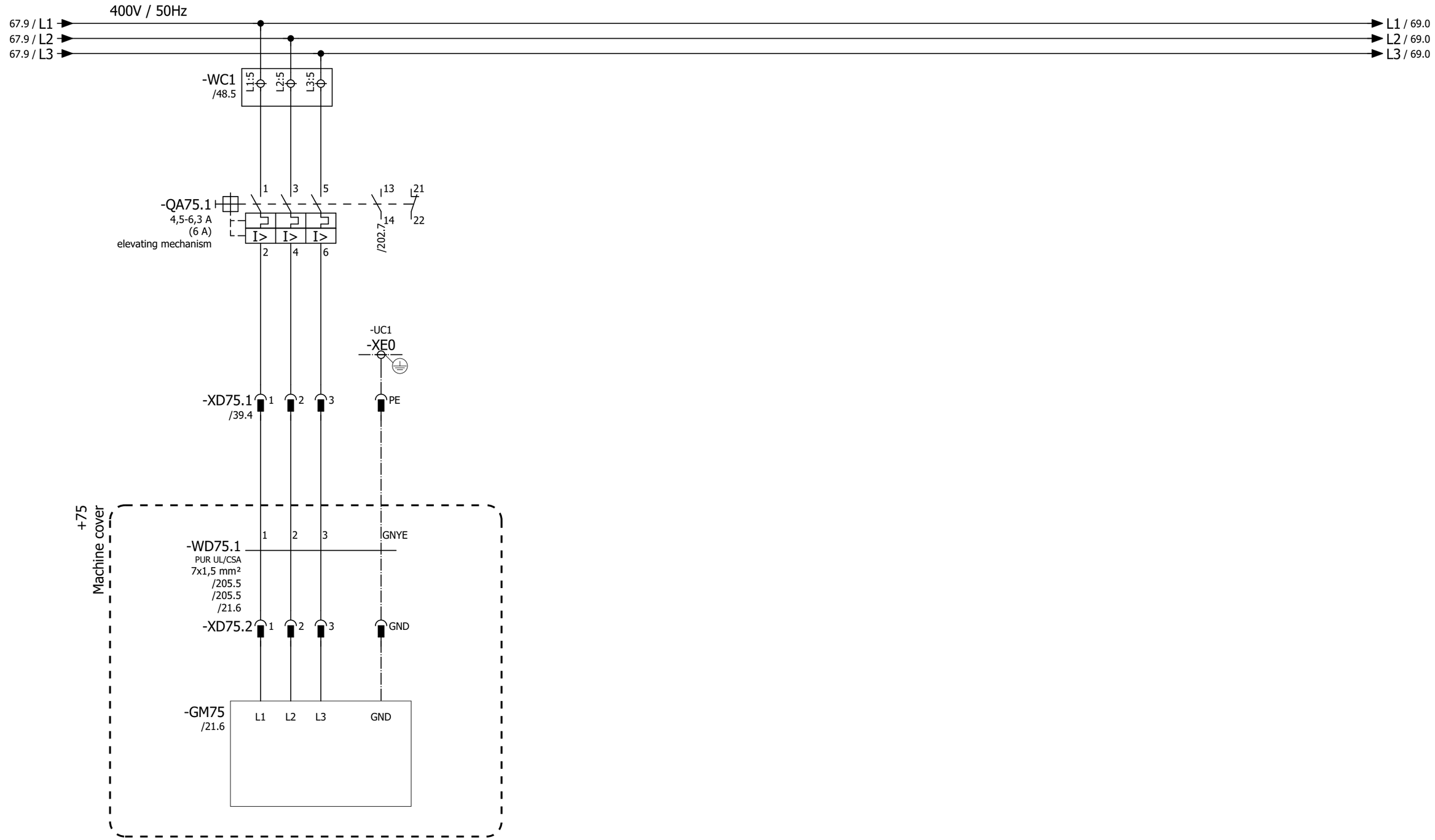
Machine bed
temperature probe

456427$
E-TEILE KÜHLAGGRGAT

66

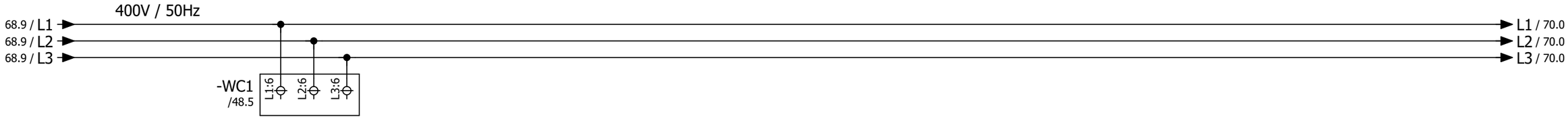
68

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Cooling unit 1	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 67
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Slewing crane

(Option)

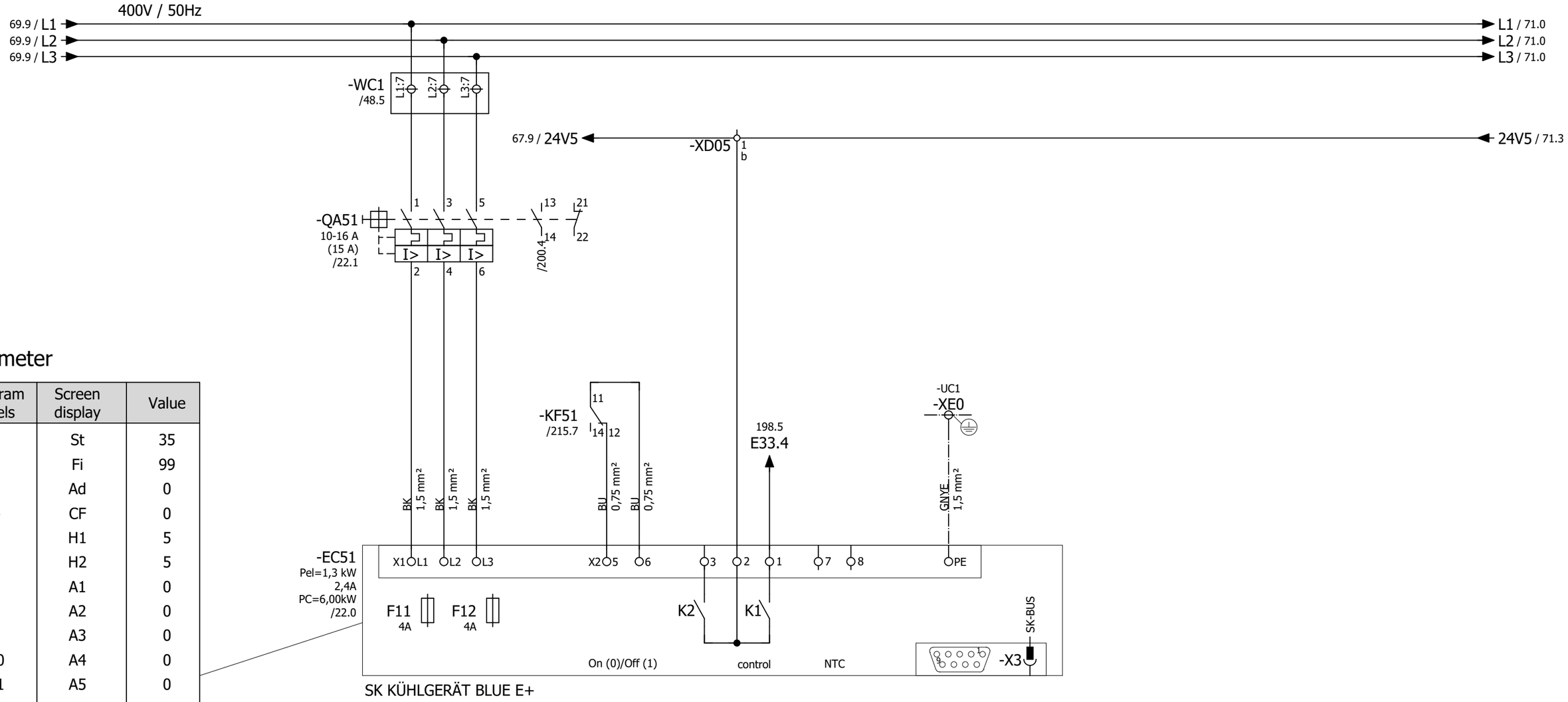


Option !!

Increase in
pressure (grinding oil)

(Option)

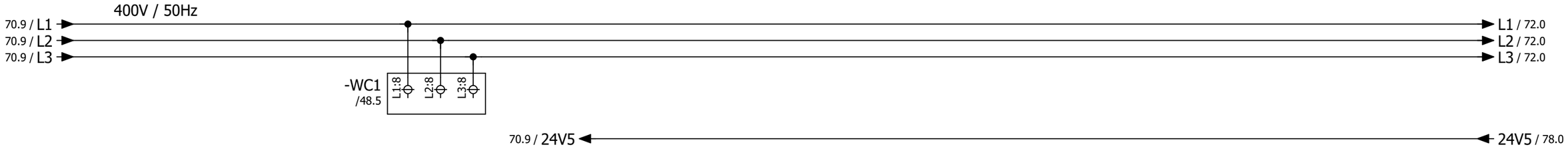
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Increase in pressure	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 69
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



parameter

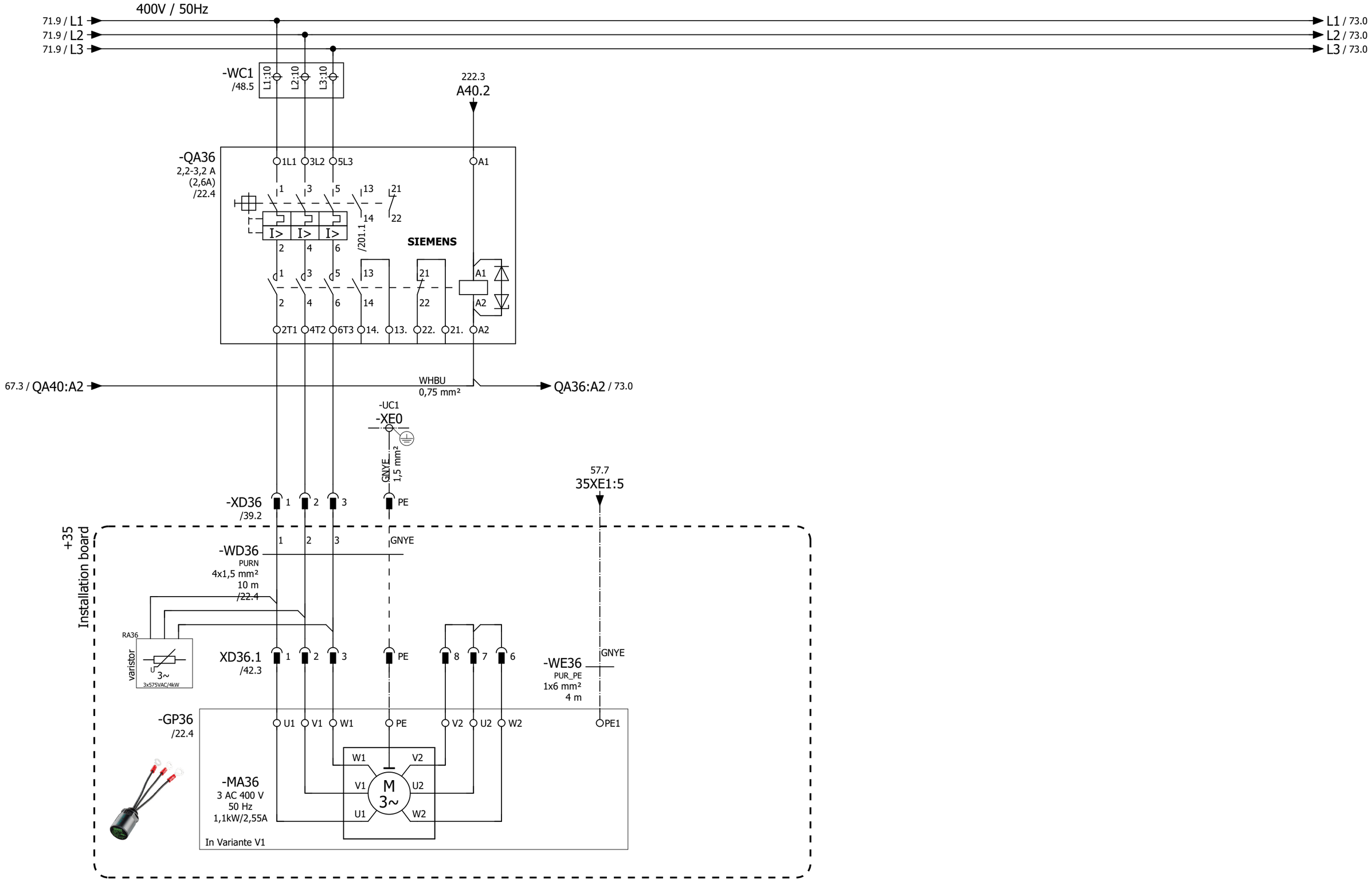
Program levels	Screen display	Value
1	St	35
2	Fi	99
3	Ad	0
4	CF	0
5	H1	5
6	H2	5
7	A1	0
8	A2	0
9	A3	0
10	A4	0
11	A5	0
12	A6	1
13	A7	2
14	A8	1
15	A9	1
16	A10	1
17	A11	2
18	A12	1
19	A13	1
20	A14	1
21	A15	1
22	A16	1
23	A17	1
24	A18	0
25	A19	0
26	ECO	1
Zugriff	Cod	22

Control cabinet
air-conditioning



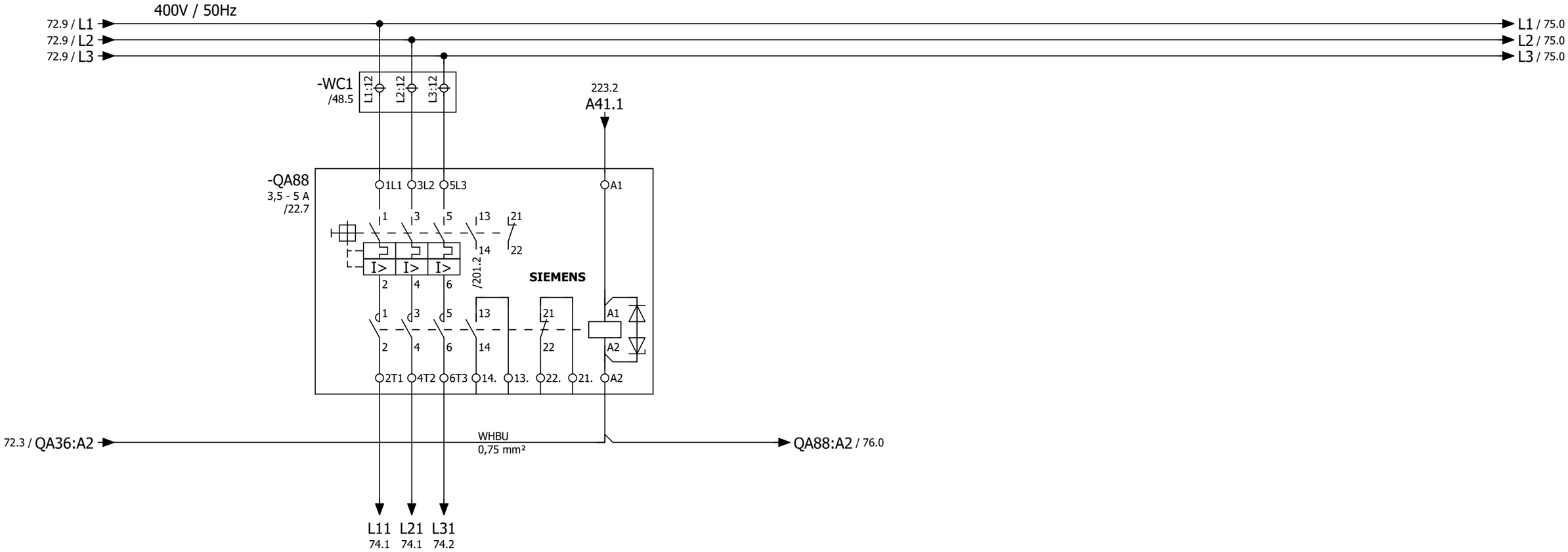
Reserve
control cabinet
air-conditioning

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Control cabinet cooling -UC2	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 71
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



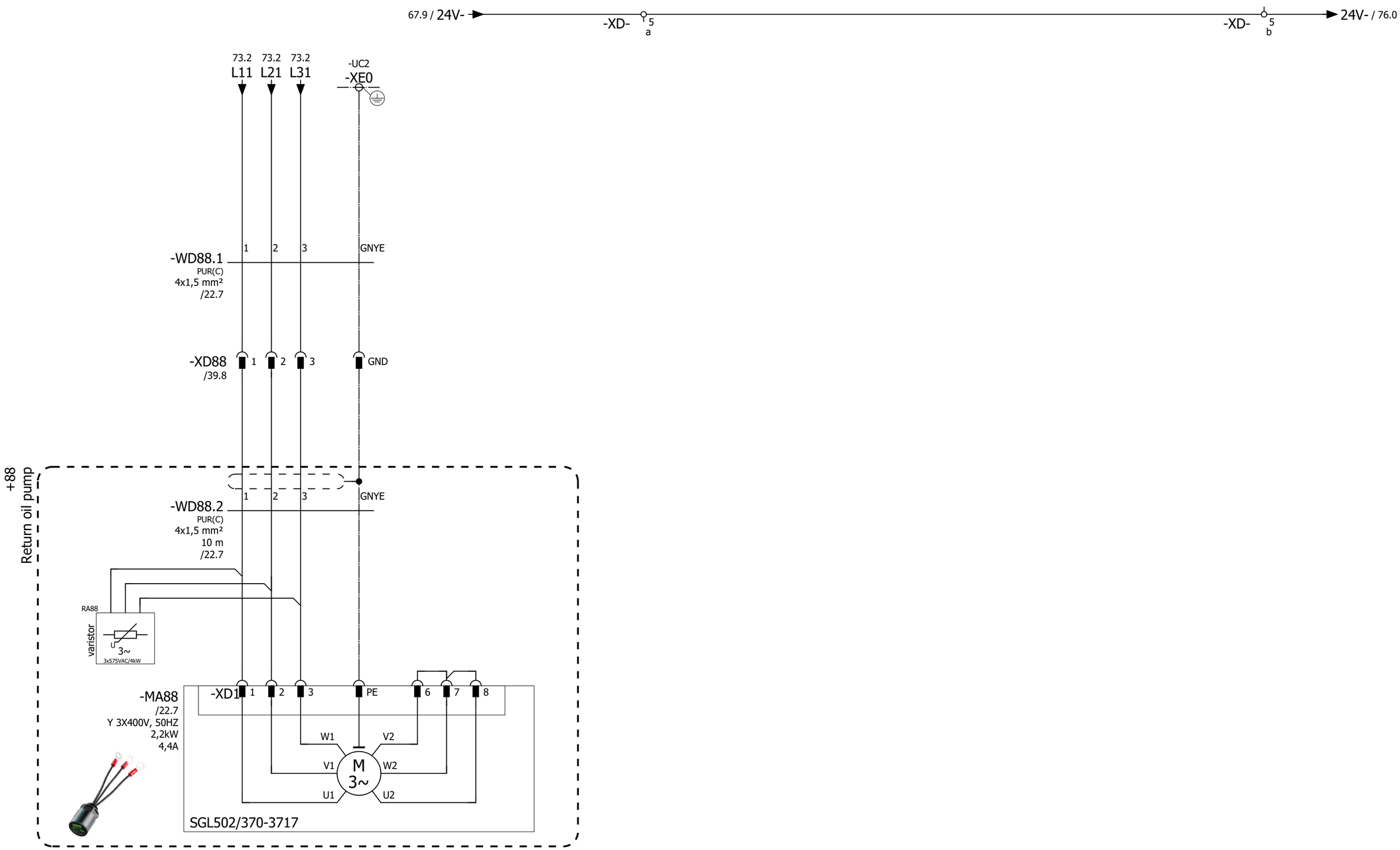
71 73

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	hydraulic unit	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 72
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

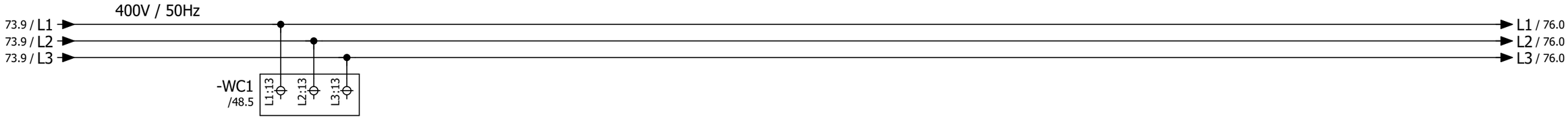


Return oil pump

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Return oil pump	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 73
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



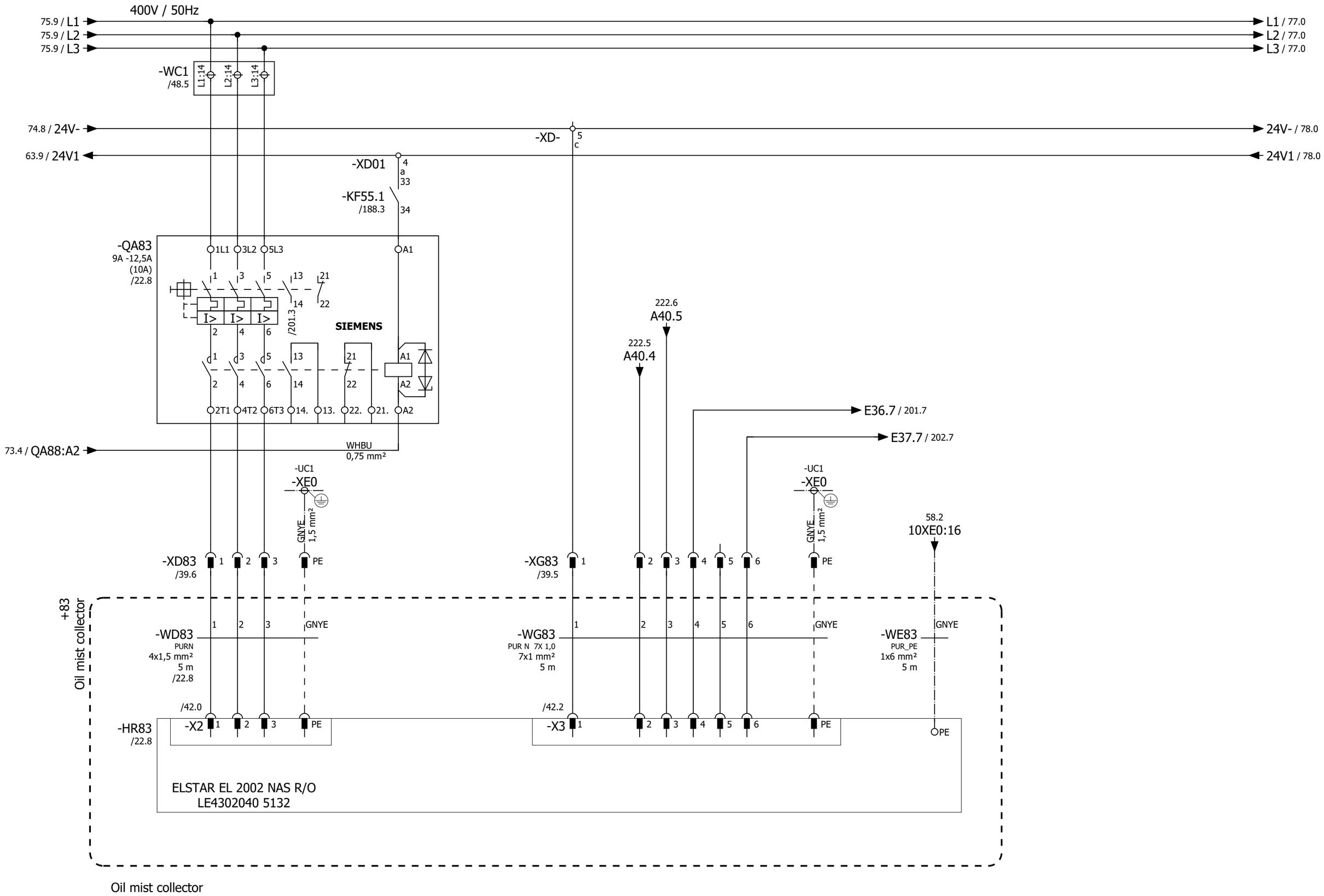
Return oil pump



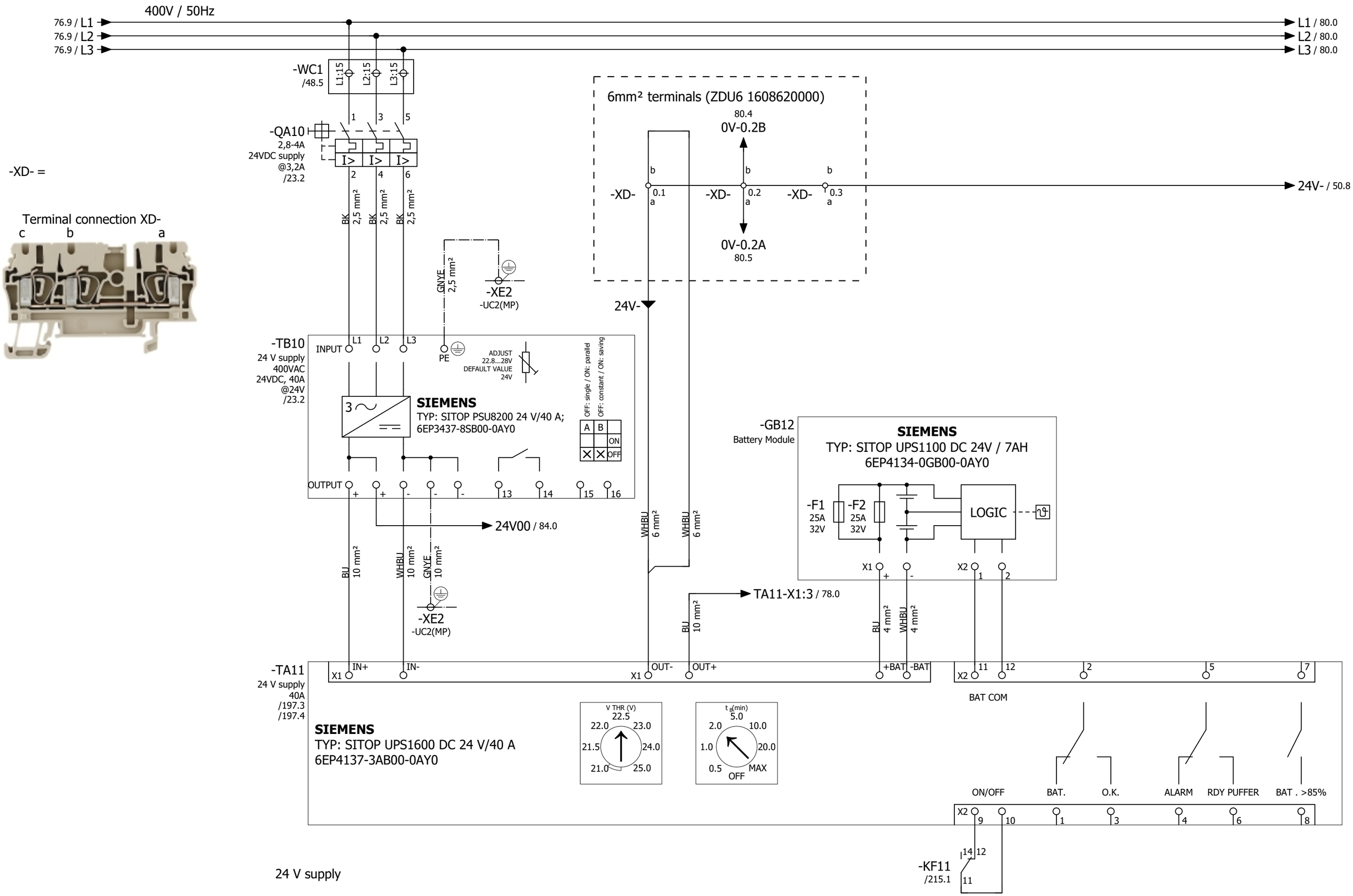
reserve

(Option)

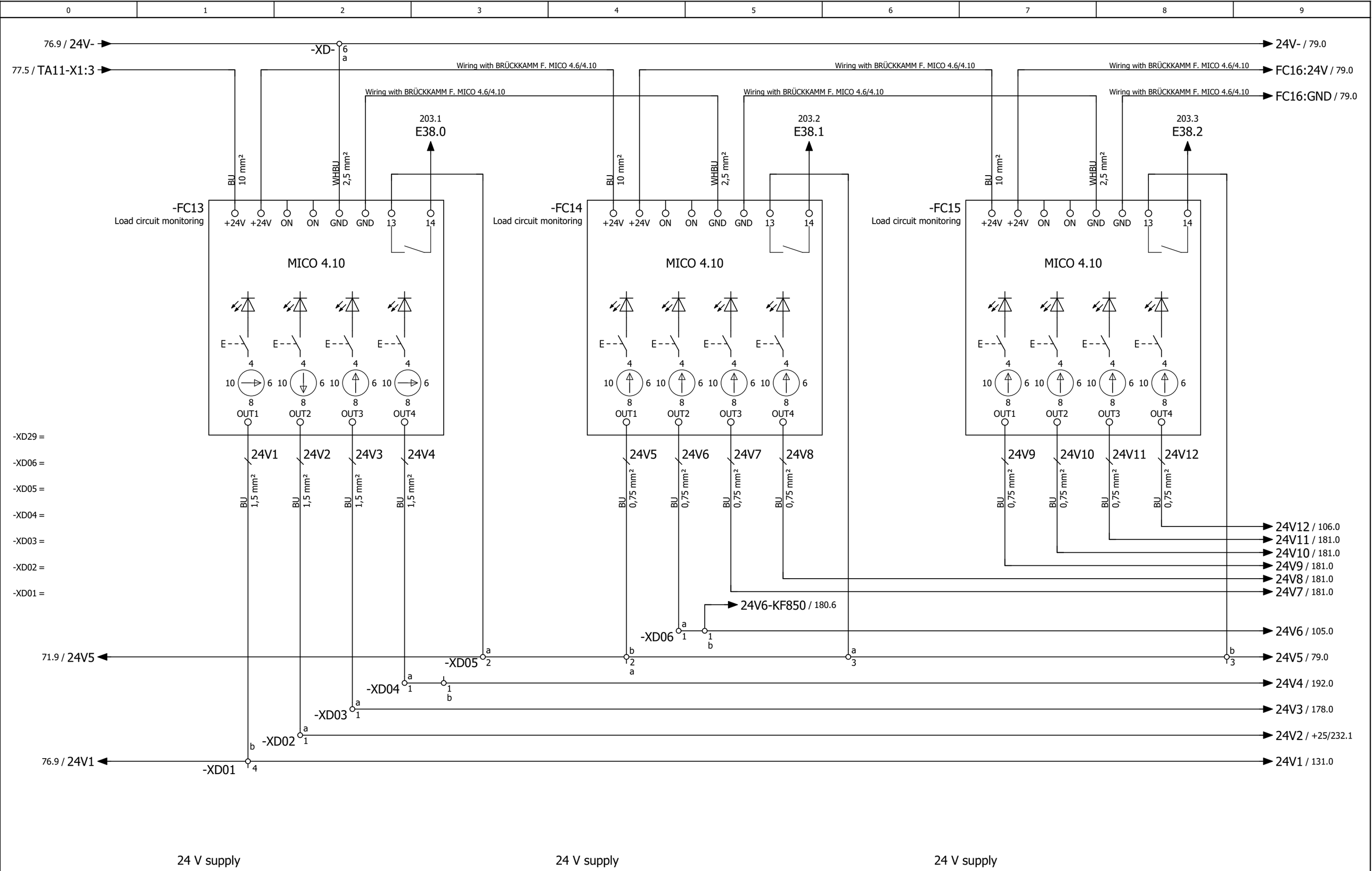
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Elevating mechanism	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 75
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



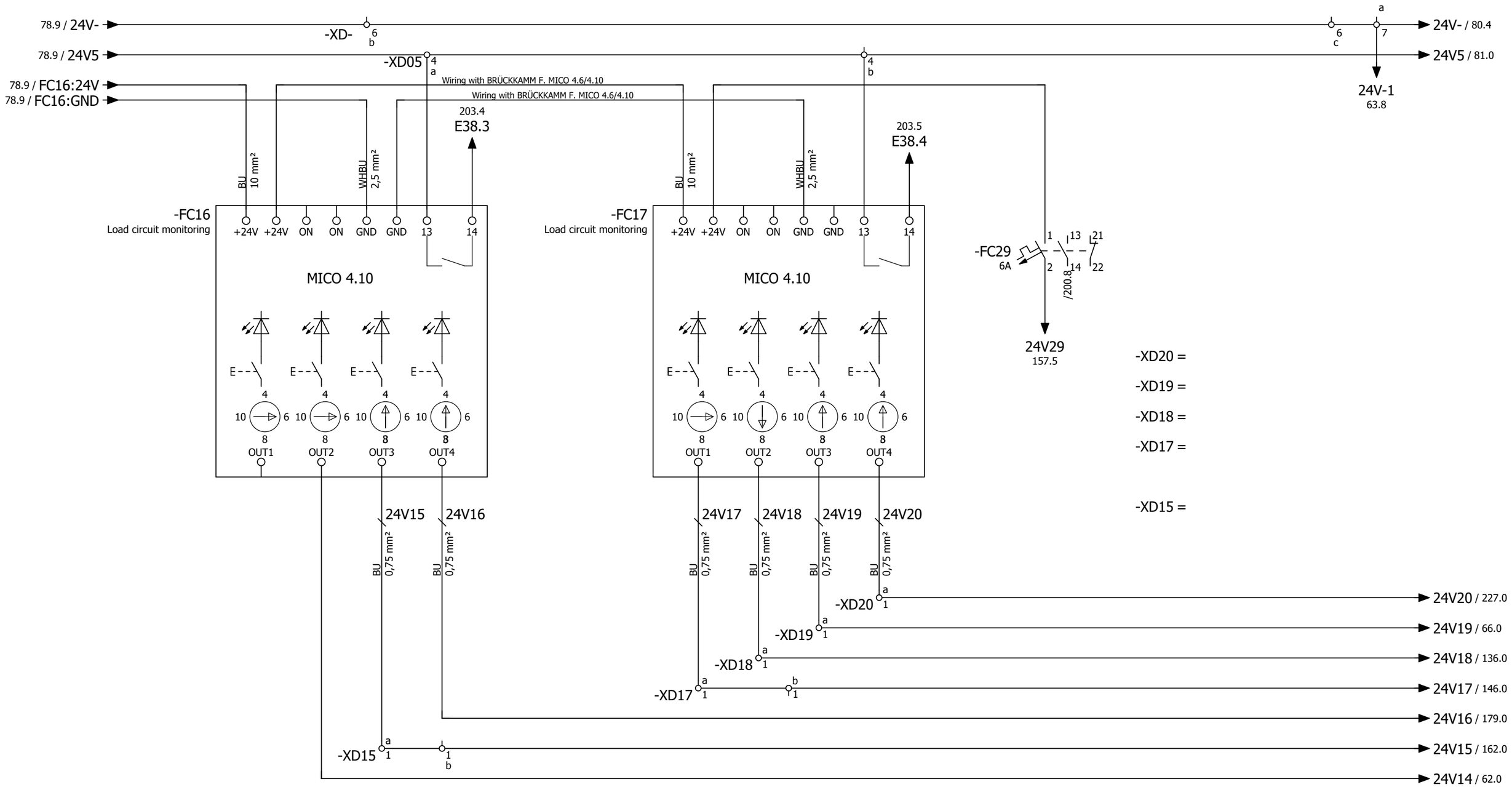
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Oil mist collector	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 76
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 77
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

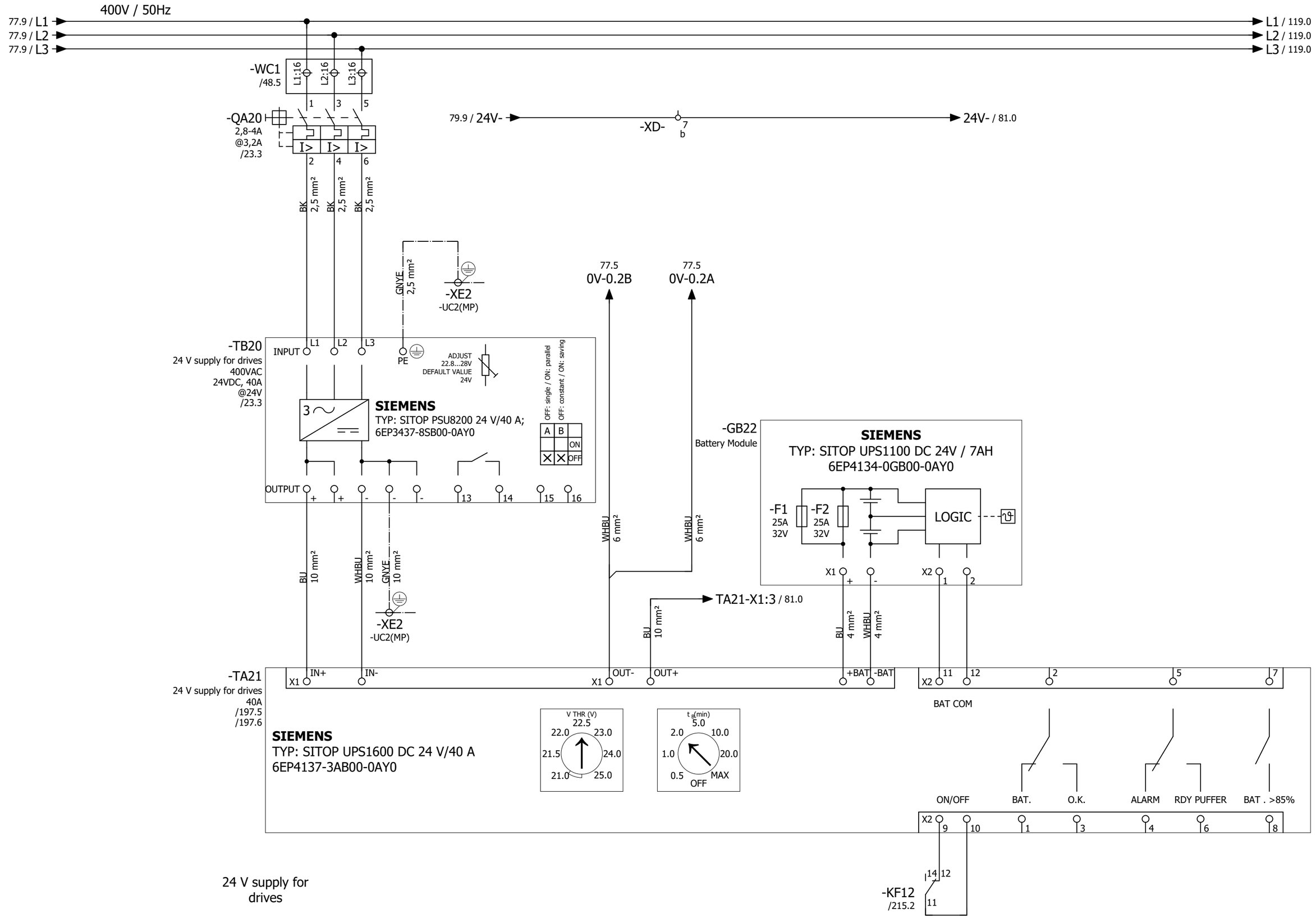


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 78
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

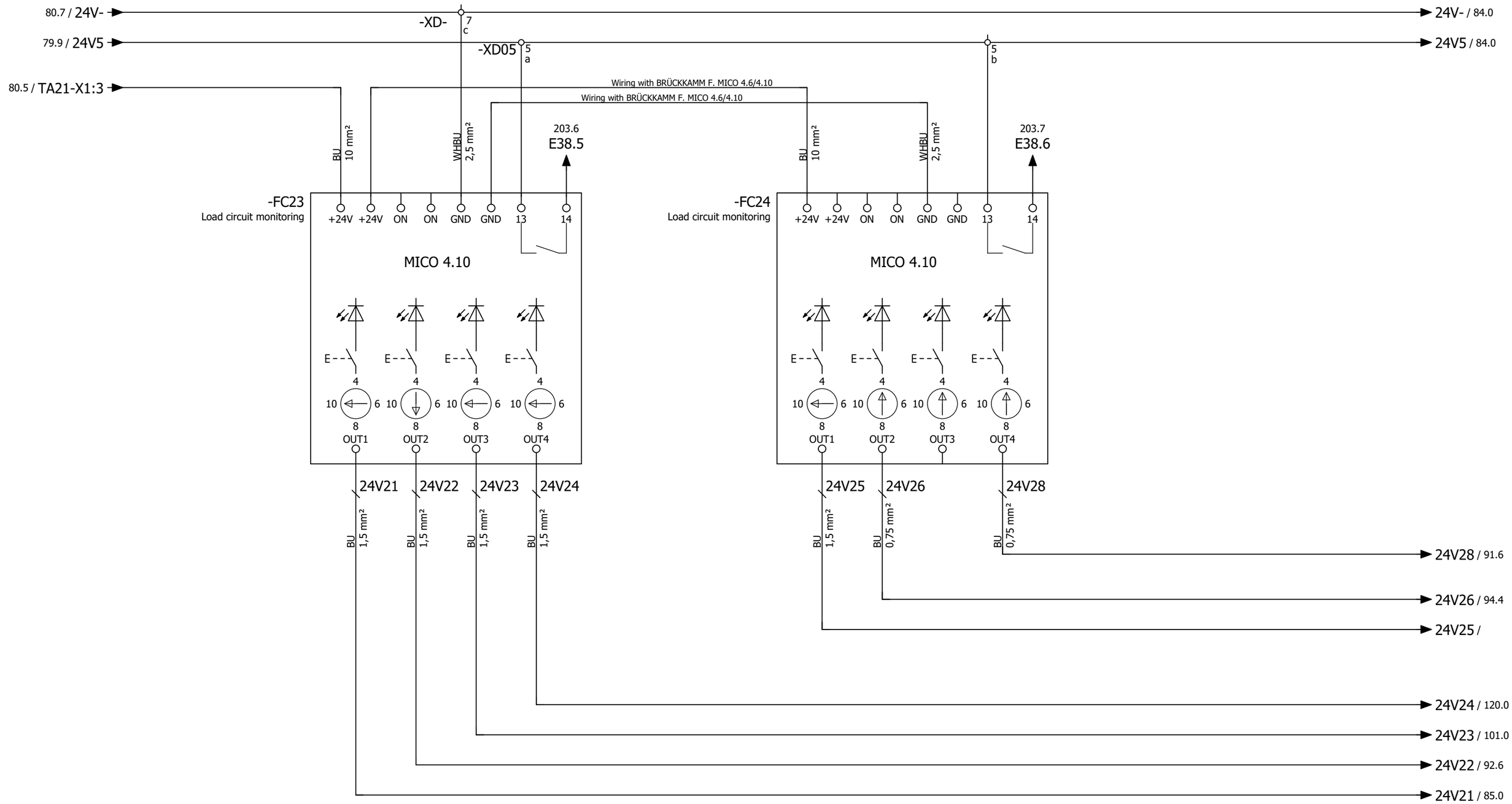


24 V supply

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 79
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply for drives	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 80
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



24 V supply for drives

24 V supply for drives

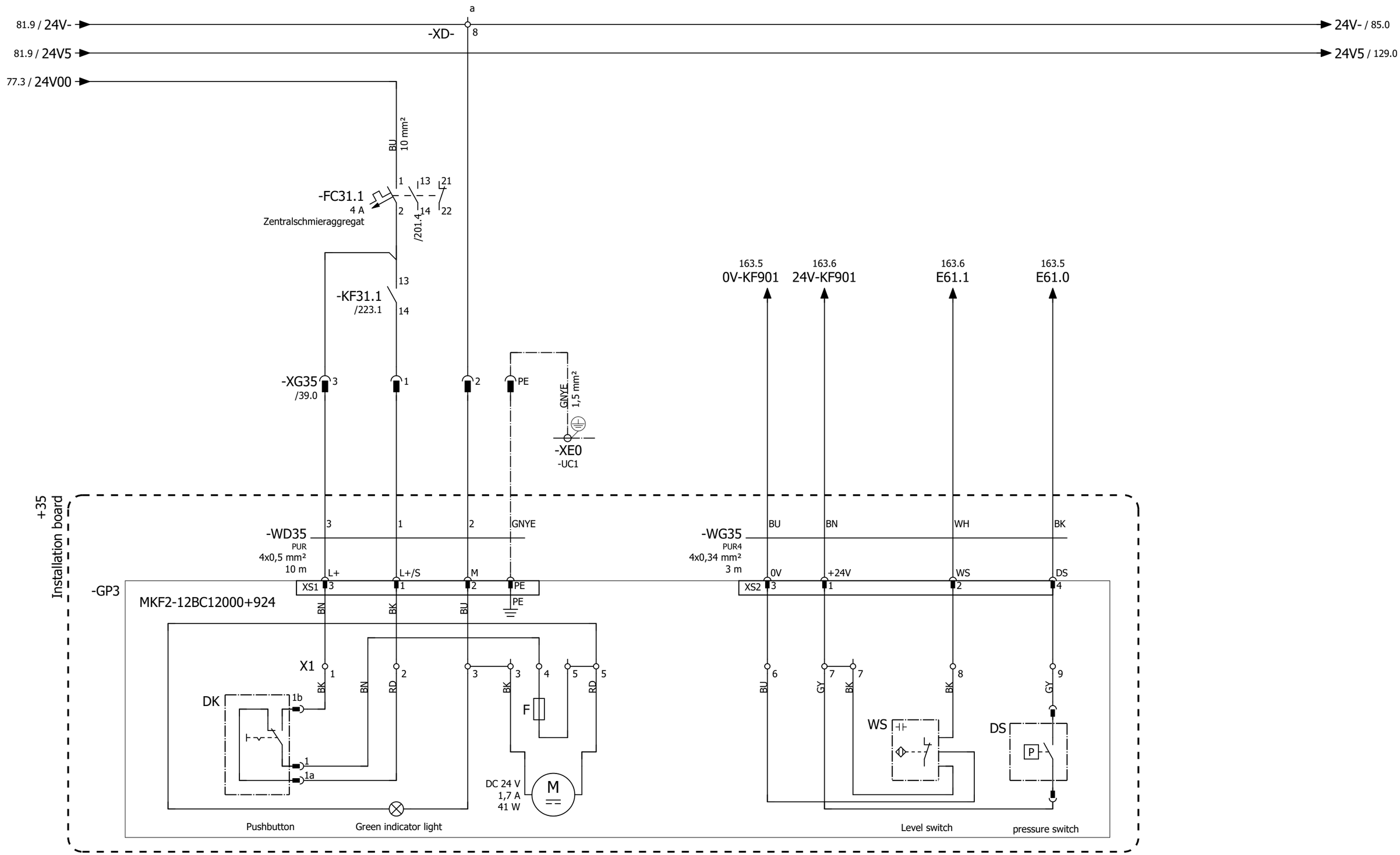
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply for drives	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 81
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 82
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

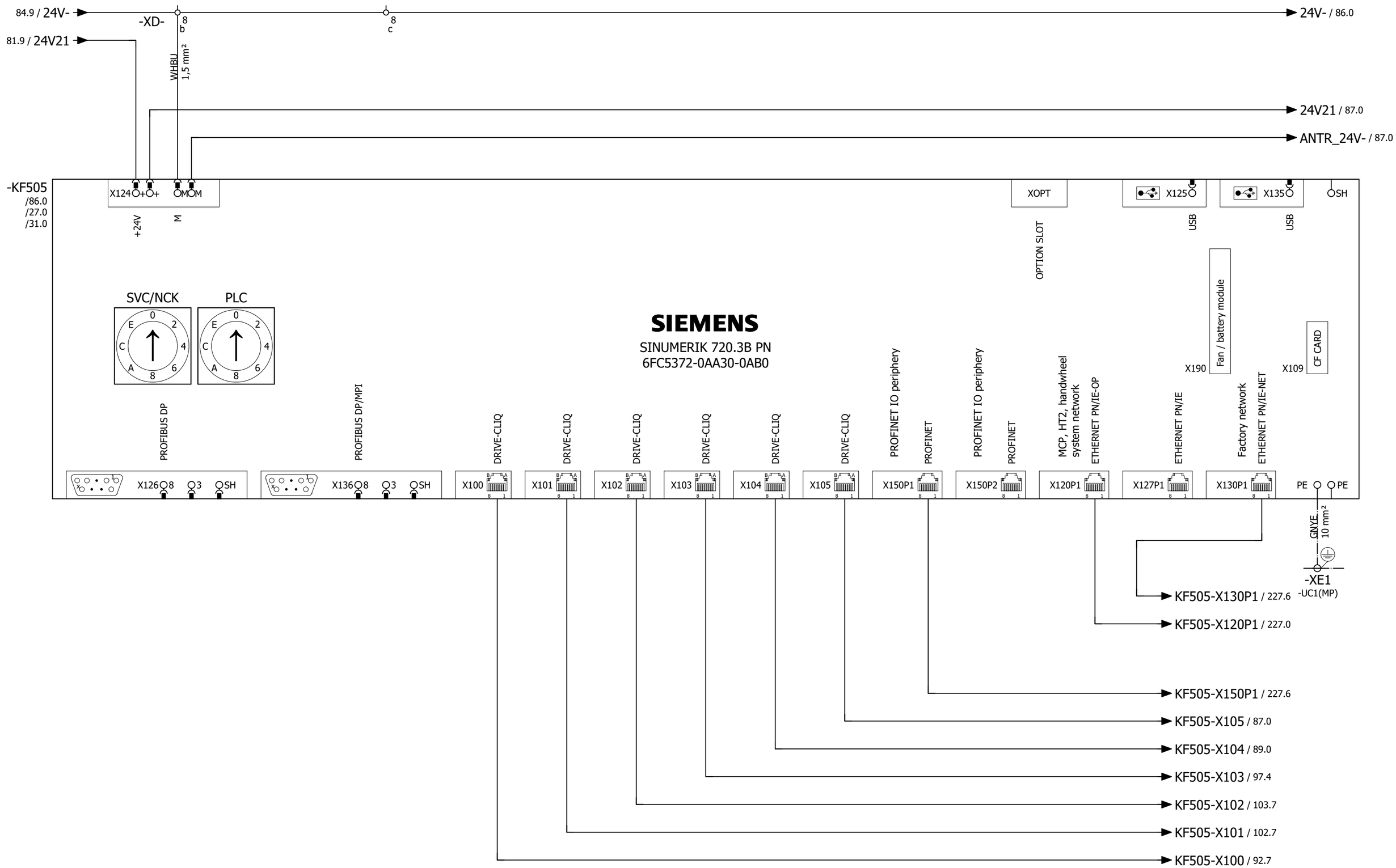
0	1	2	3	4	5	6	7	8	9

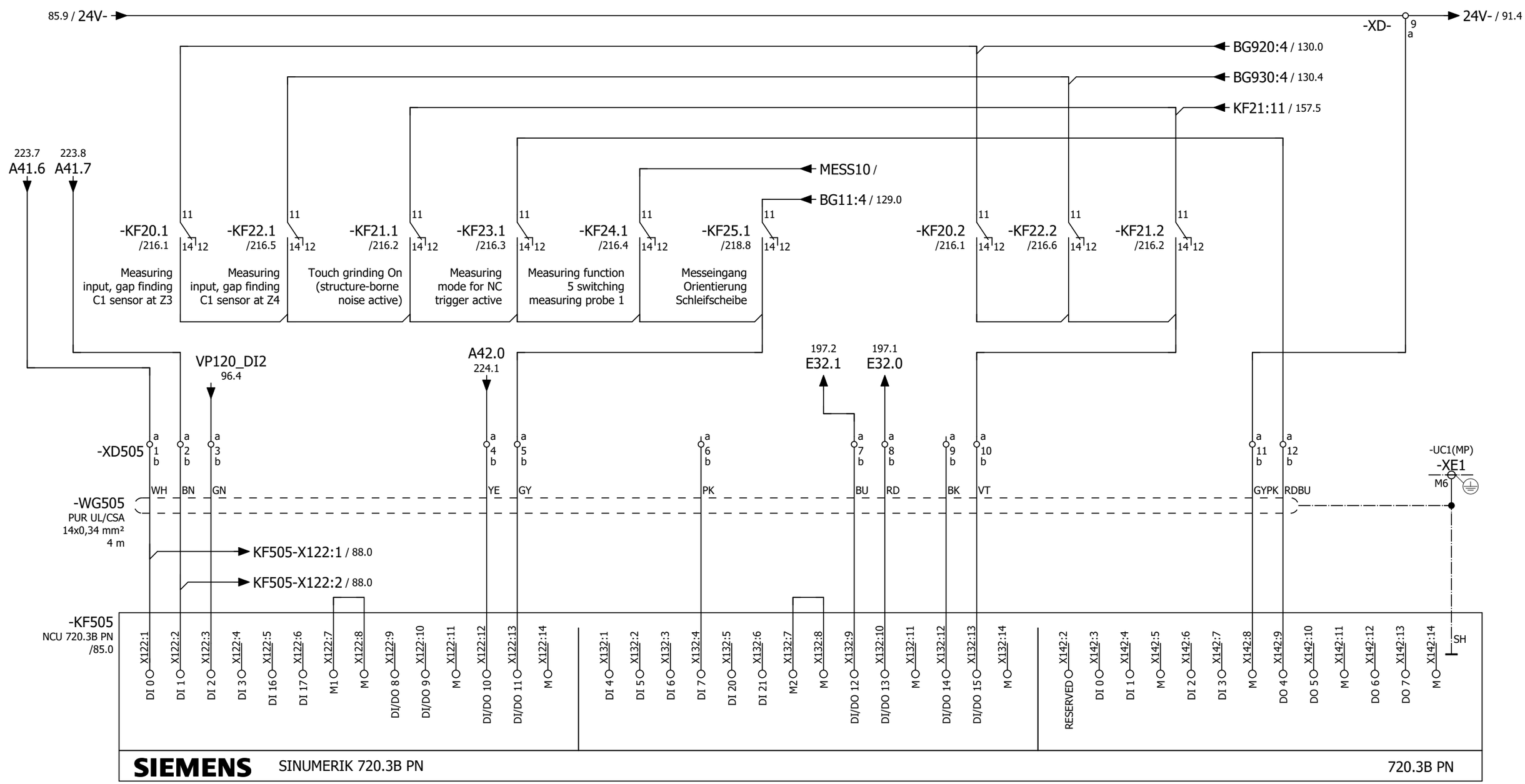
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	24 V supply	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 83
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Central lubrication

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Central lubrication	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 84
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230


84.9 / 24V-
-XD-
8
b
8
c
24V- / 86.0
81.9 / 24V21
WHBU
1,5 mm²
24V21 / 87.0
ANTR_24V- / 87.0
-KF505
/86.0
/27.0
/31.0
X124
+24V
M
XOPT
OPTION SLOT
X125
USB
X135
USB
SH
SVC/NCK
PLC
SIEMENS
SINUMERIK 720.3B PN
6FC5372-0AA30-0AB0
X190
Fan / battery module
X109
CF CARD
PROFIBUS DP
PROFIBUS DP/MPI
DRIVE-CLIQ
PROFINET IO periphery
PROFINET
MCP, HT2, handwheel system network
ETHERNET PN/IE-OP
ETHERNET PN/IE
Factory network
ETHERNET PN/IE-NET
X126
X136
X100
X101
X102
X103
X104
X105
X150P1
X150P2
X120P1
X127P1
X130P1
PE
GNYE
10 mm²
-XE1
-UC1(MP)
KF505-X130P1 / 227.6
KF505-X120P1 / 227.0
KF505-X150P1 / 227.6
KF505-X105 / 87.0
KF505-X104 / 89.0
KF505-X103 / 97.4
KF505-X102 / 103.7
KF505-X101 / 102.7
KF505-X100 / 92.7



Off 1 pulse release

Off 3 controller release

Release A axis clamping

Measuring input 1

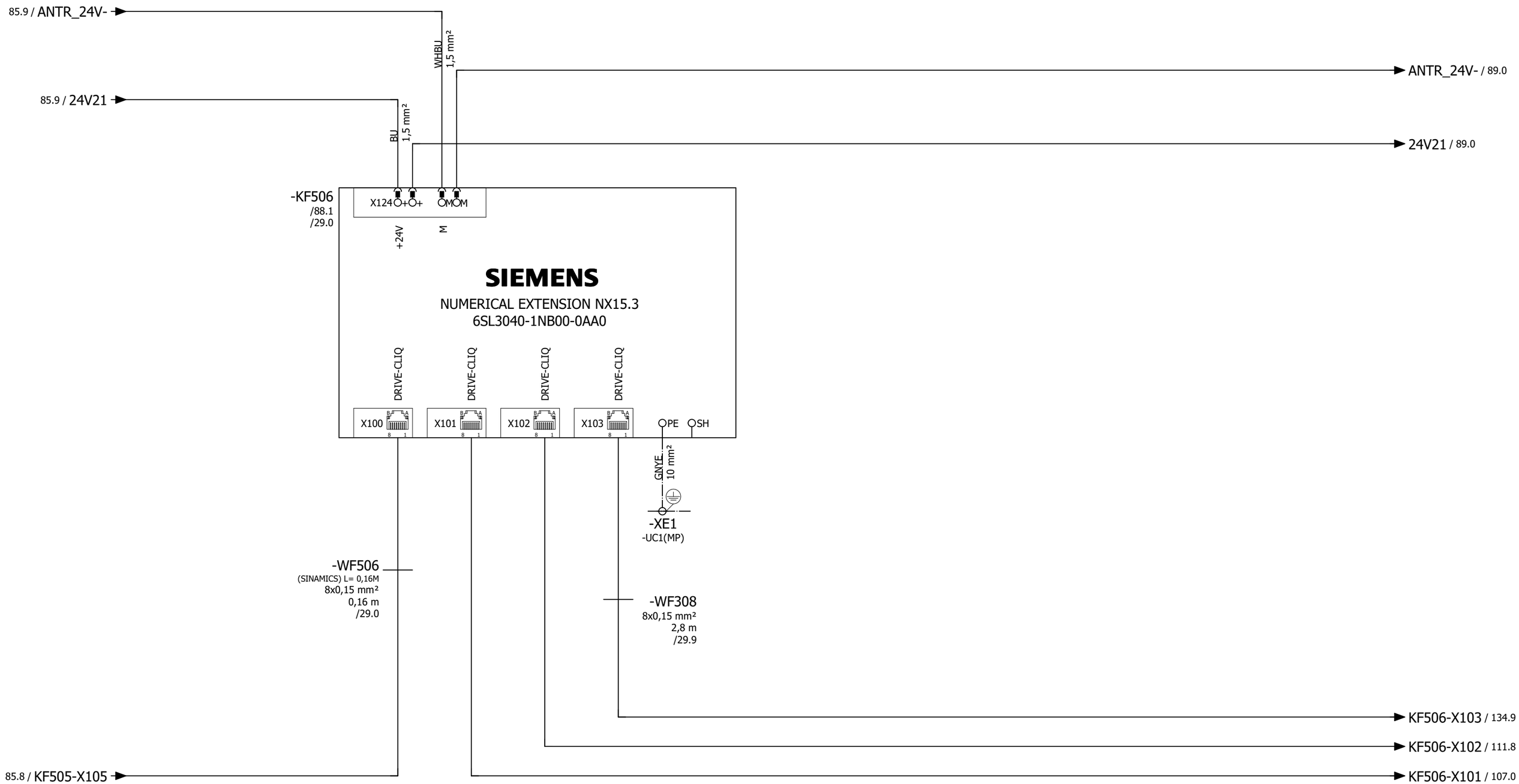
Supply ready for use

Supply ready for switch-on

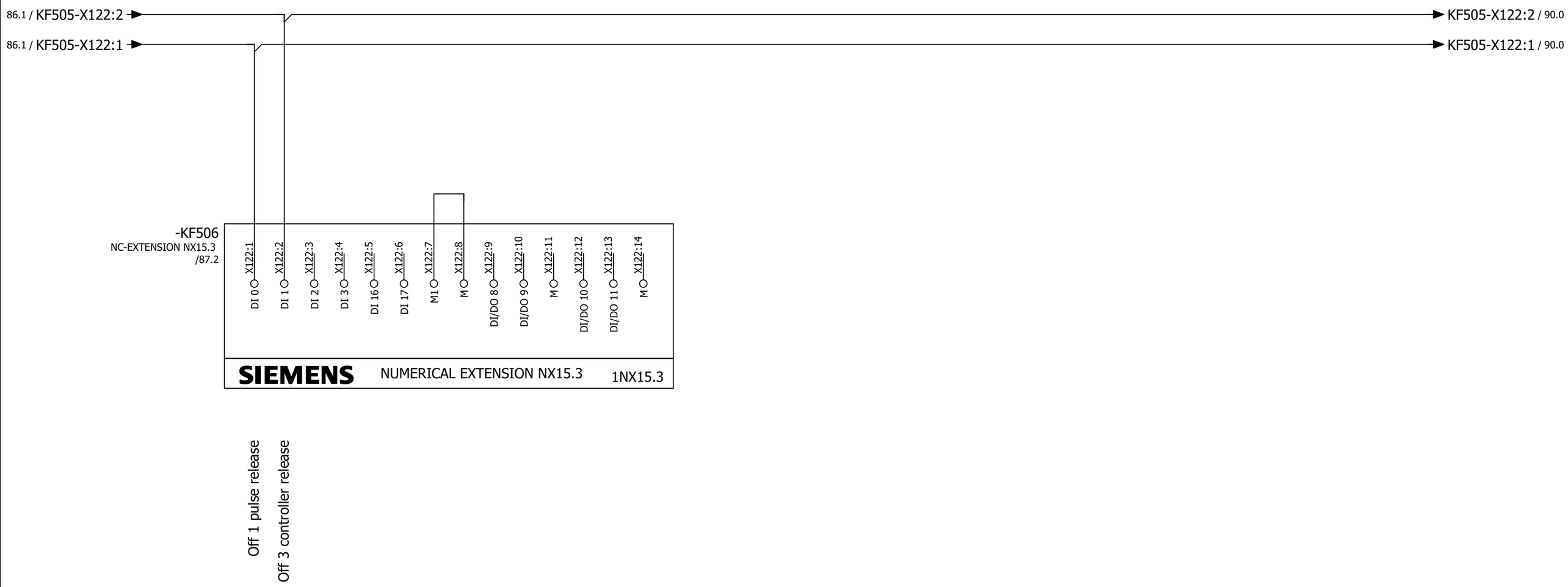
Measuring input 2

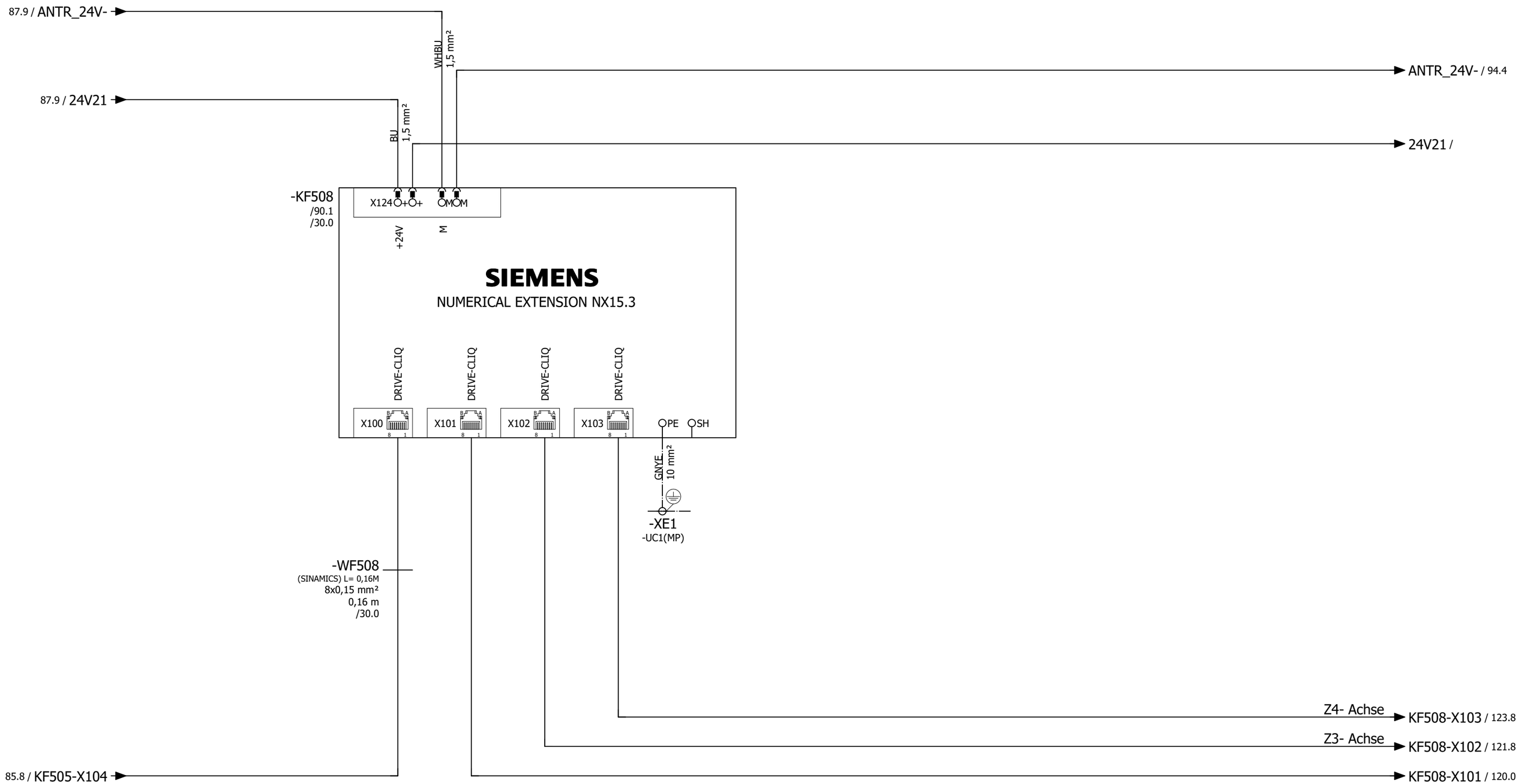
NC trigger measuring input 1

-XD505 =



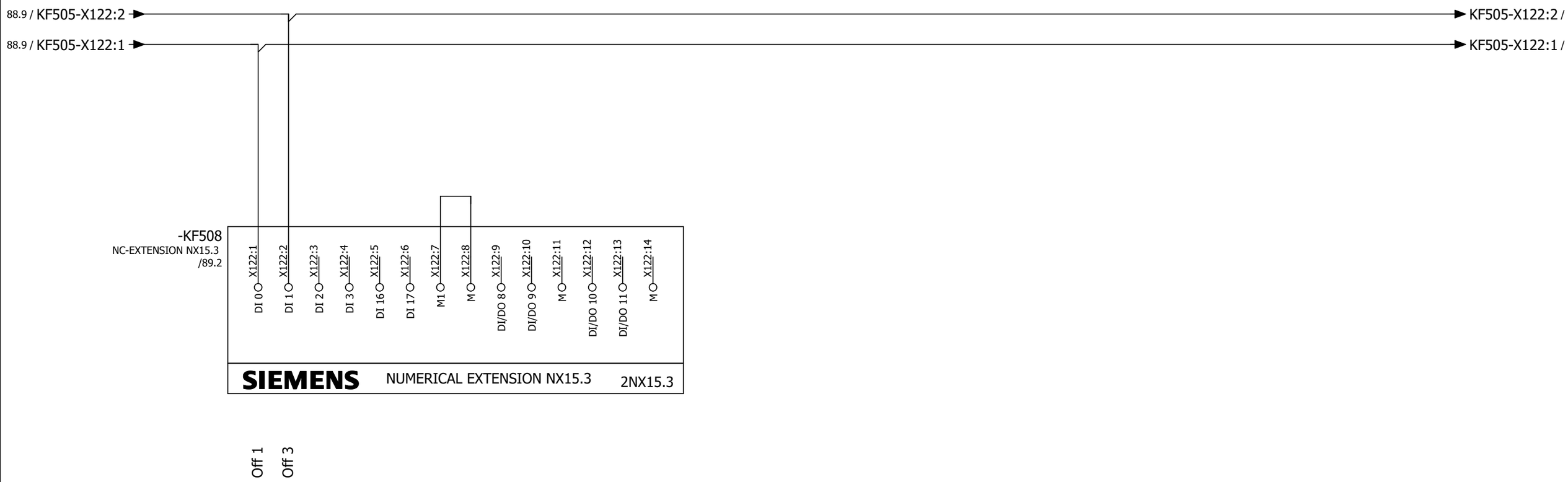
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	SINUMERIK NX 15	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 87
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

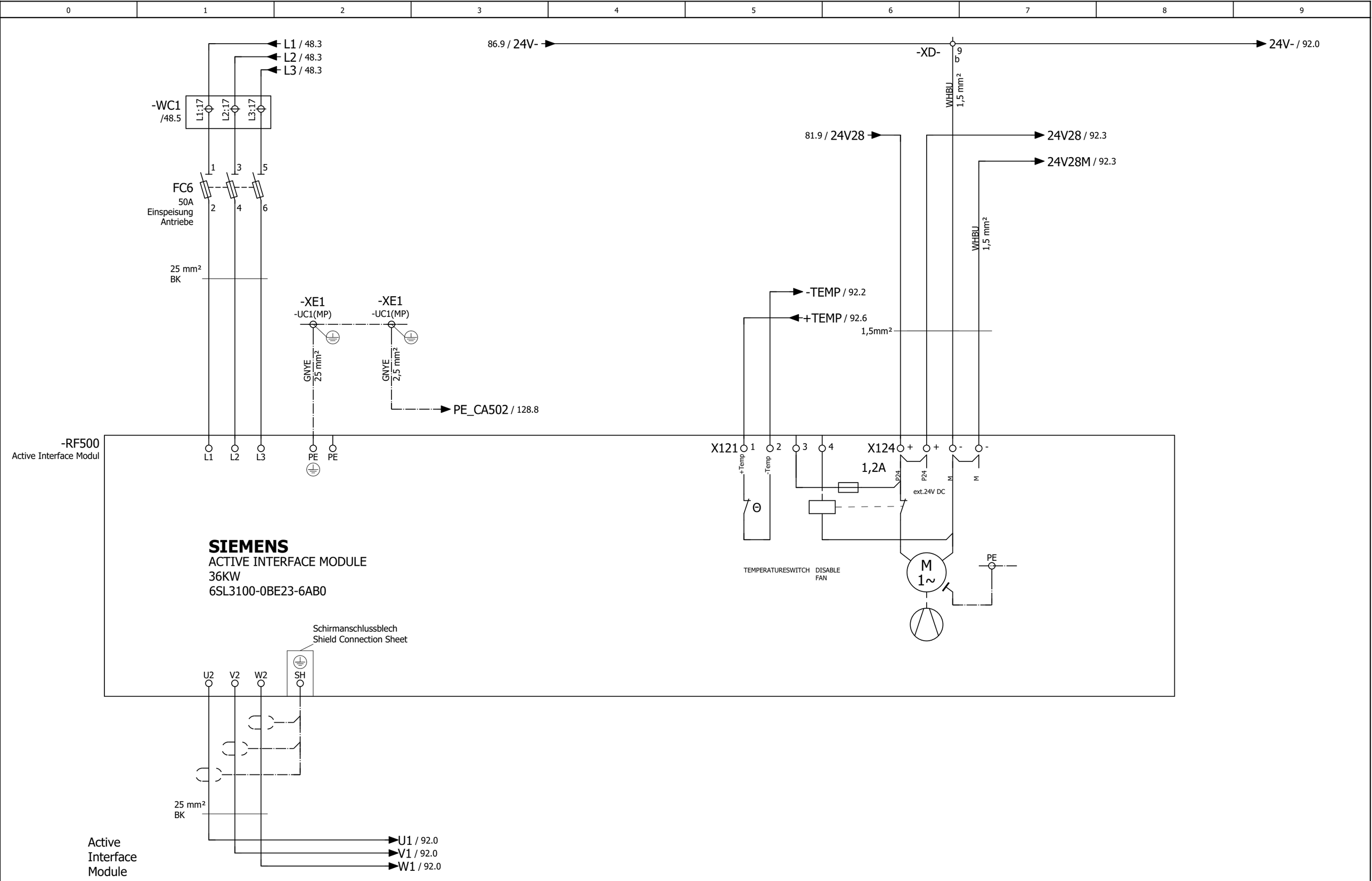

86.1 / KF505-X122:2
86.1 / KF505-X122:1
KF505-X122:2 / 90.0
KF505-X122:1 / 90.0
-KF506
NC-EXTENSION NX15.3
/87.2
DI 0 X122:1
DI 1 X122:2
DI 2 X122:3
DI 3 X122:4
DI 16 X122:5
DI 17 X122:6
M1 X122:7
M X122:8
DI/DO 8 X122:9
DI/DO 9 X122:10
M X122:11
DI/DO 10 X122:12
DI/DO 11 X122:13
M X122:14
SIEMENS
NUMERICAL EXTENSION NX15.3
1NX15.3
Off 1 pulse release
Off 3 controller release

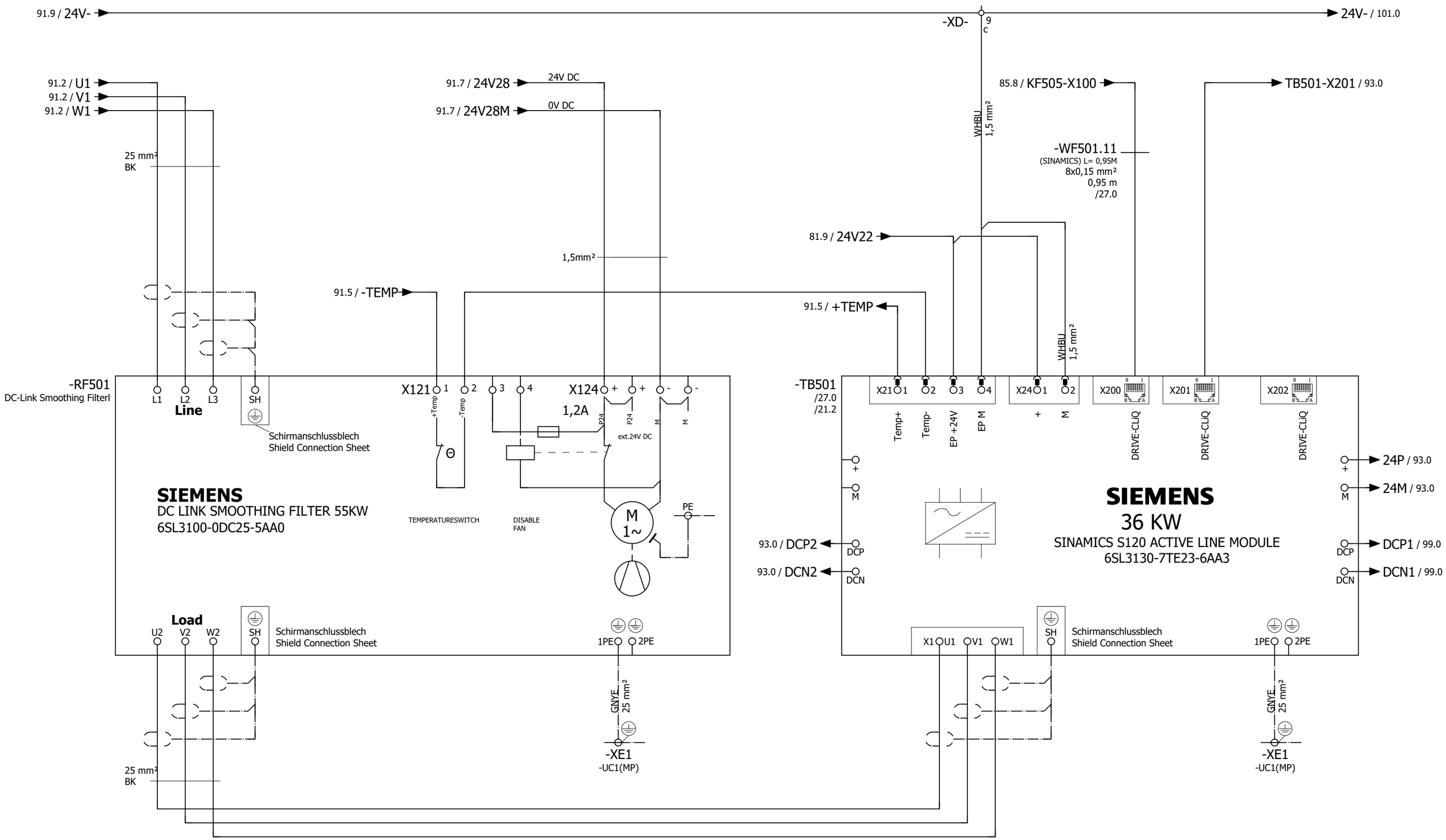


88 90

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	SINUMERIK NX 15	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 89
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230


88.9 / KF505-X122:2
88.9 / KF505-X122:1
KF505-X122:2 /
KF505-X122:1 /
-KF508
NC-EXTENSION NX15.3
/89.2
DI 0 X122:1
DI 1 X122:2
DI 2 X122:3
DI 3 X122:4
DI 16 X122:5
DI 17 X122:6
M1 X122:7
M X122:8
DI/DO 8 X122:9
DI/DO 9 X122:10
M X122:11
DI/DO 10 X122:12
DI/DO 11 X122:13
M X122:14
SIEMENS
NUMERICAL EXTENSION NX15.3
2NX15.3
Off 1
Off 3


L1 / 48.3
L2 / 48.3
L3 / 48.3
-WC1
/48.5
L1:17
L2:17
L3:17
FC6
50A
Einspeisung
Antriebe
25 mm²
BK
86.9 / 24V-
-XD-
24V- / 92.0
WHBU
1,5 mm²
81.9 / 24V28
24V28 / 92.3
24V28M / 92.3
-TEMP / 92.2
+TEMP / 92.6
1,5mm²
-XE1
-UC1(MP)
GNYE
25 mm²
2,5 mm²
PE_CA502 / 128.8
-RF500
Active Interface Modul
L1
L2
L3
PE
X121
X124
+Temp
-Temp
1,2A
P24
M
ext.24V DC
TEMPERATURESWITCH
DISABLE
FAN
M
1~
SIEMENS
ACTIVE INTERFACE MODULE
36KW
6SL3100-0BE23-6AB0
Schirmanschlussblech
Shield Connection Sheet
U2
V2
W2
SH
Active
Interface
Module
U1 / 92.0
V1 / 92.0
W1 / 92.0

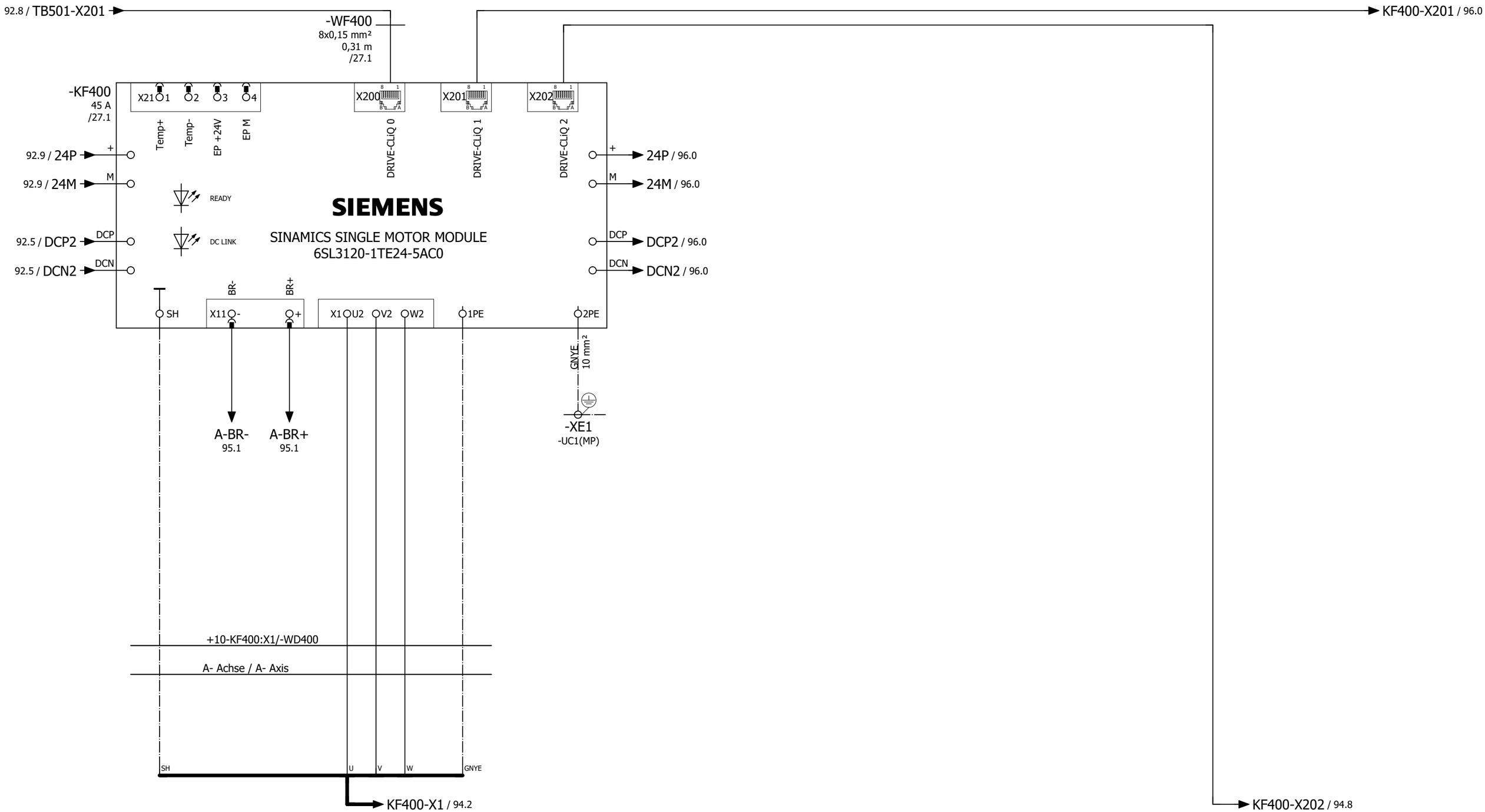


DC-Link Smoothing Filter

Supply for drives

91 93

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Active Line Module	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 92
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



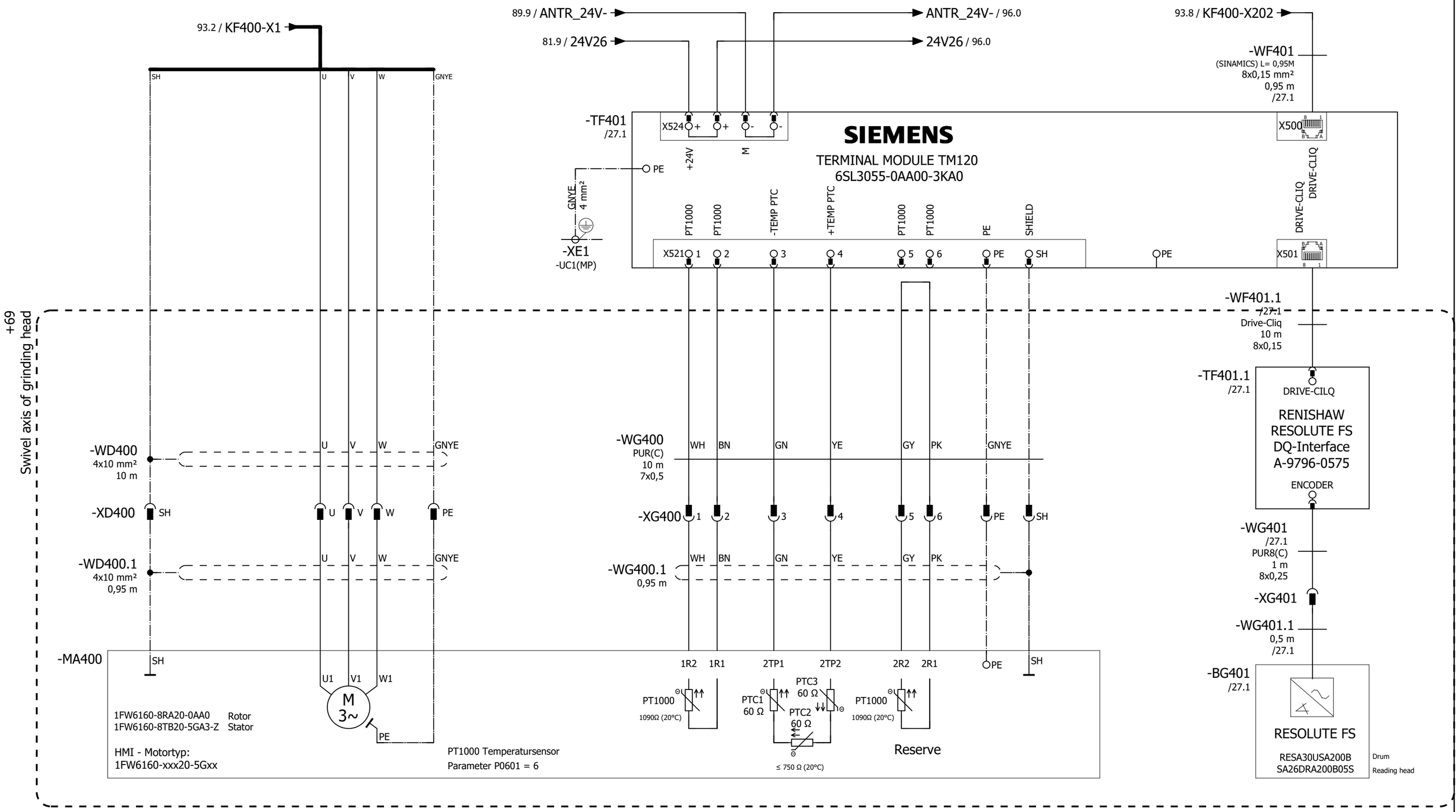
A axis,
inverter

A axis,
motor encoder

92

94

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	A axis, swivel grinding head	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 93
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



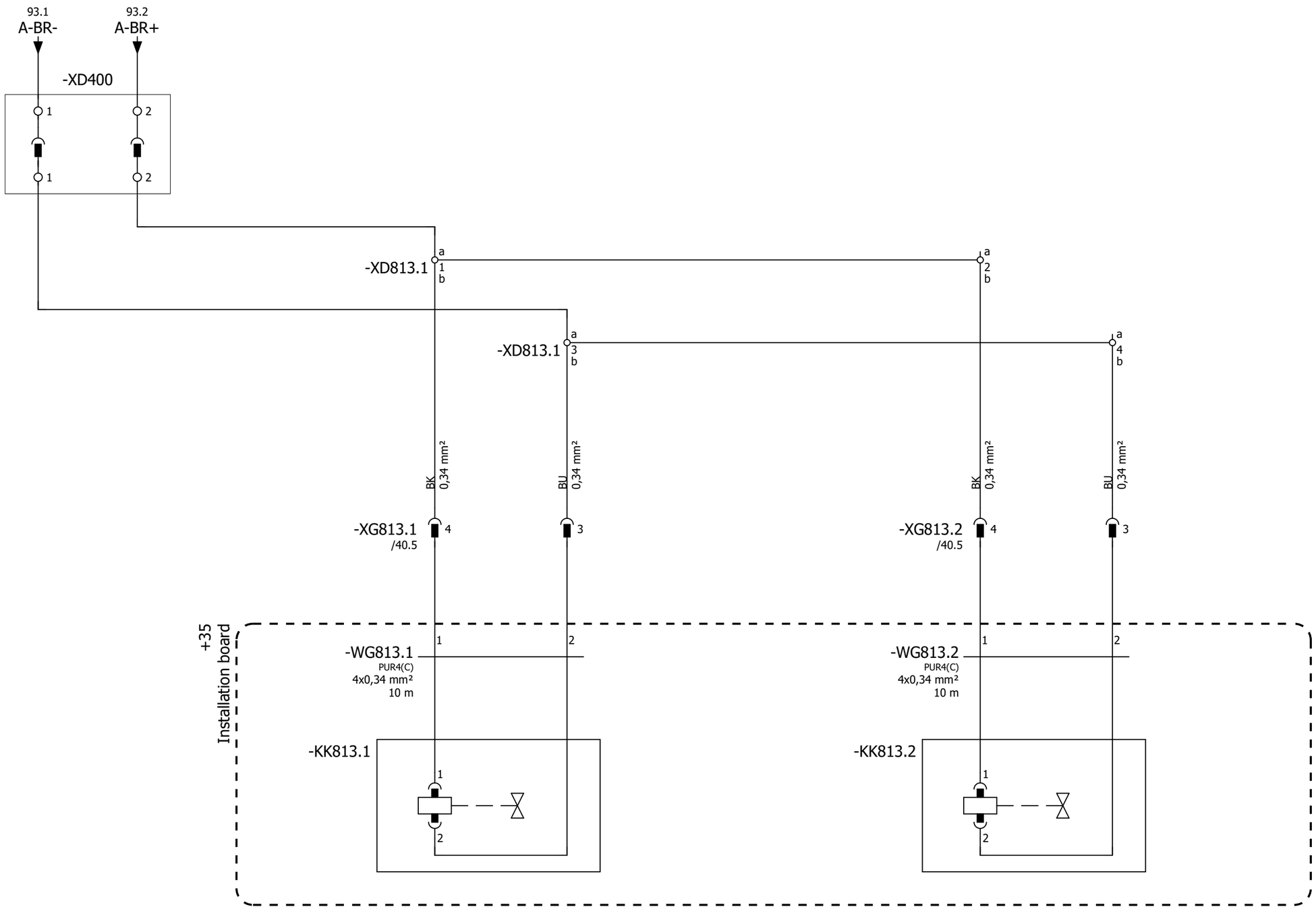
A axis,
motor

A axis,
motor encoder

93

95

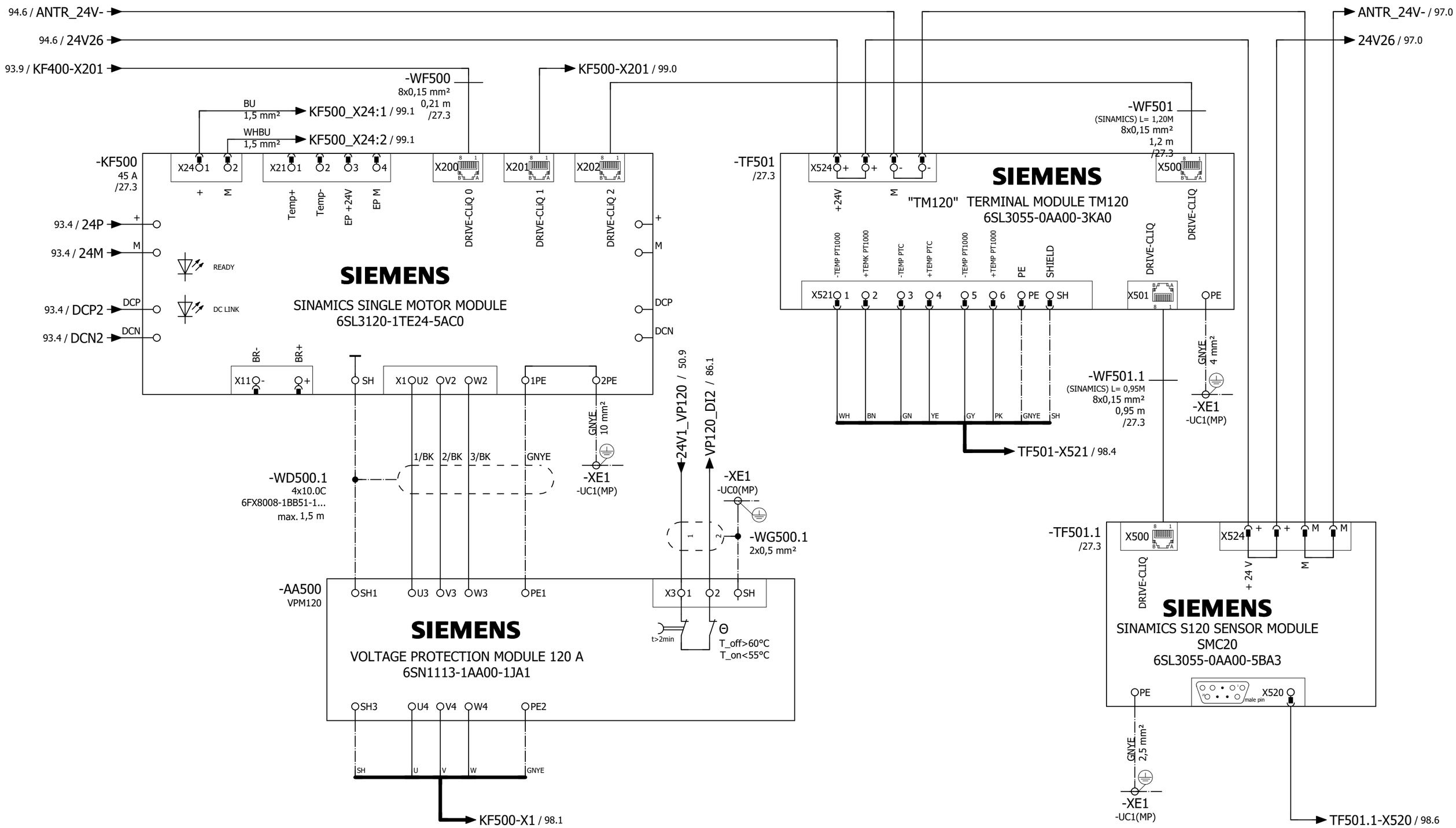
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	A axis, swivel grinding head	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 94
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Unclamping A
axis
valve 1

Unclamping A
axis
valve 2

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	A axis, swivel grinding head unclamping	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 95
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



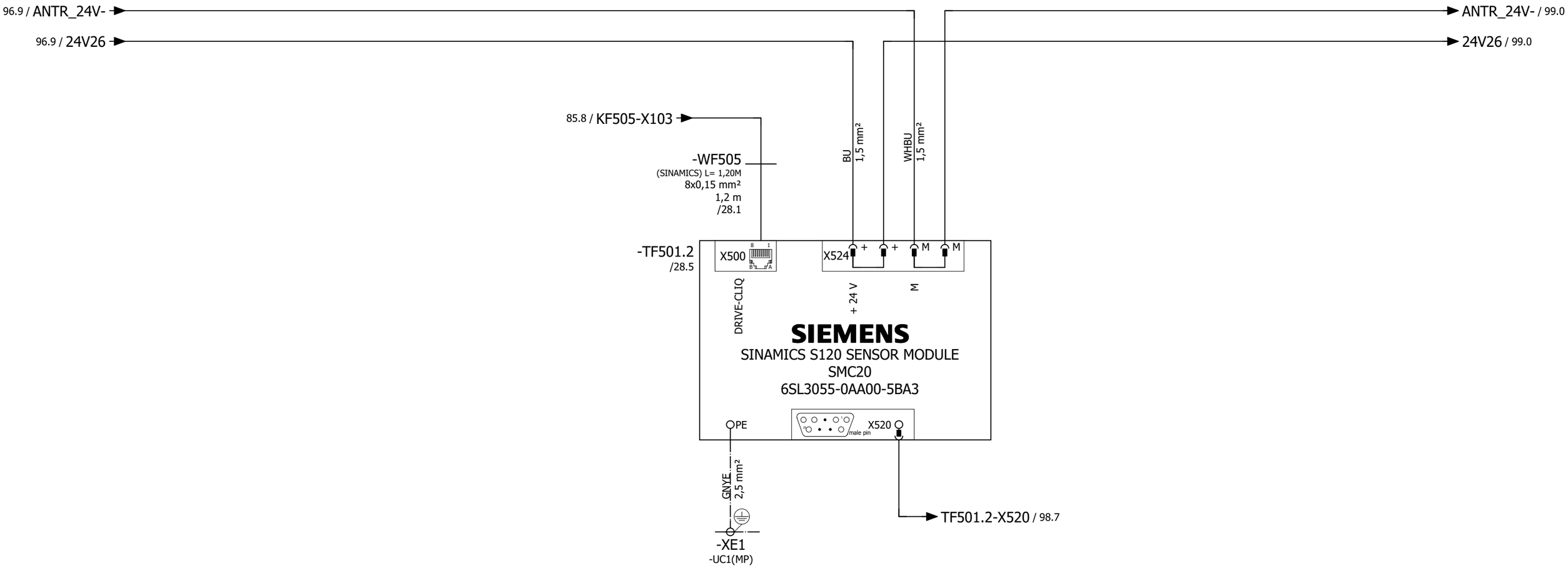
B axis,
inverter

VPM120
B-AXIS

B-AXIS
meas. system 1
scanning head 1

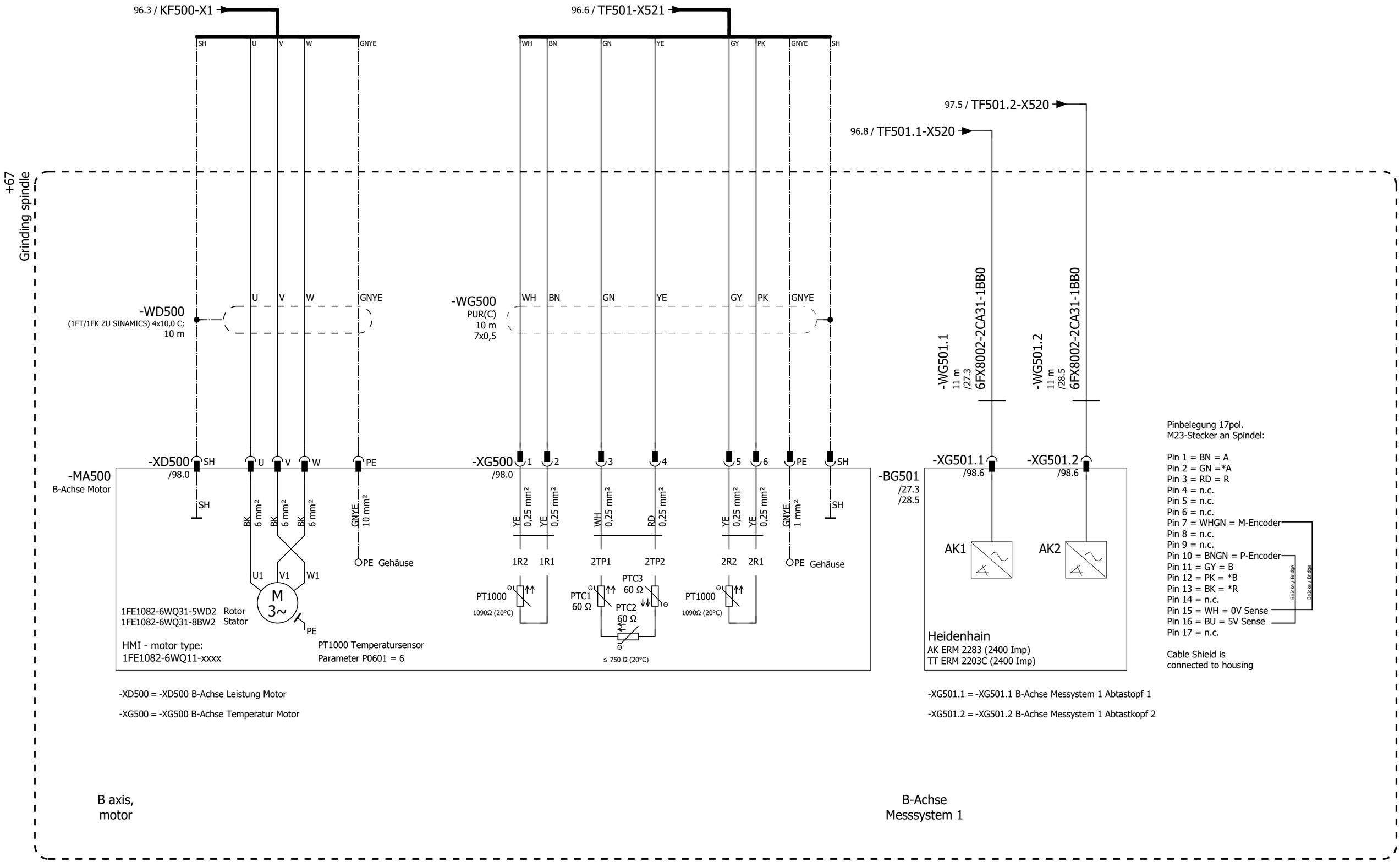
95 97

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	B axis, grinding spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 96
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

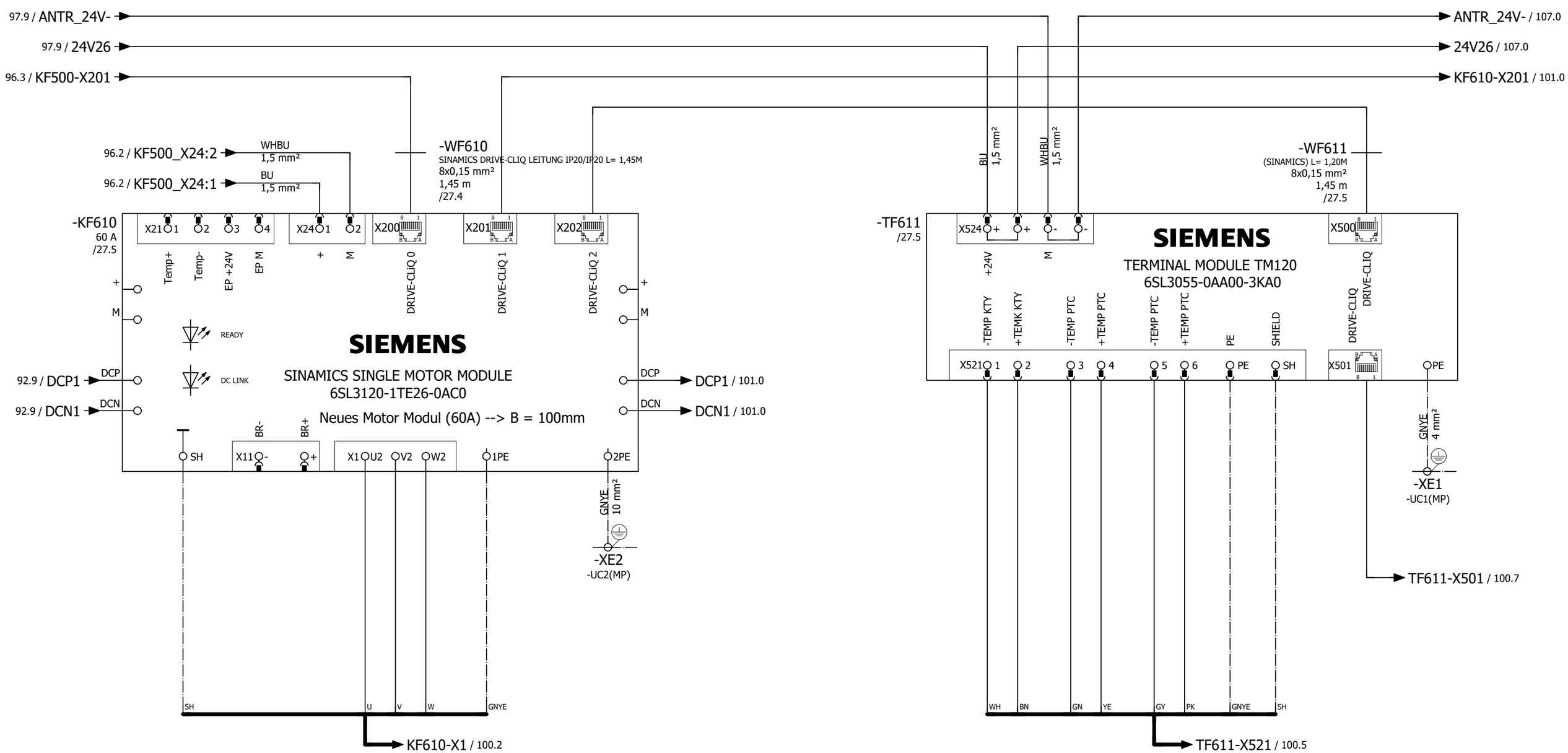


B-AXIS
meas. system 1
scanning head 2

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	B axis, grinding spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 97
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	B axis, grinding spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 98
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

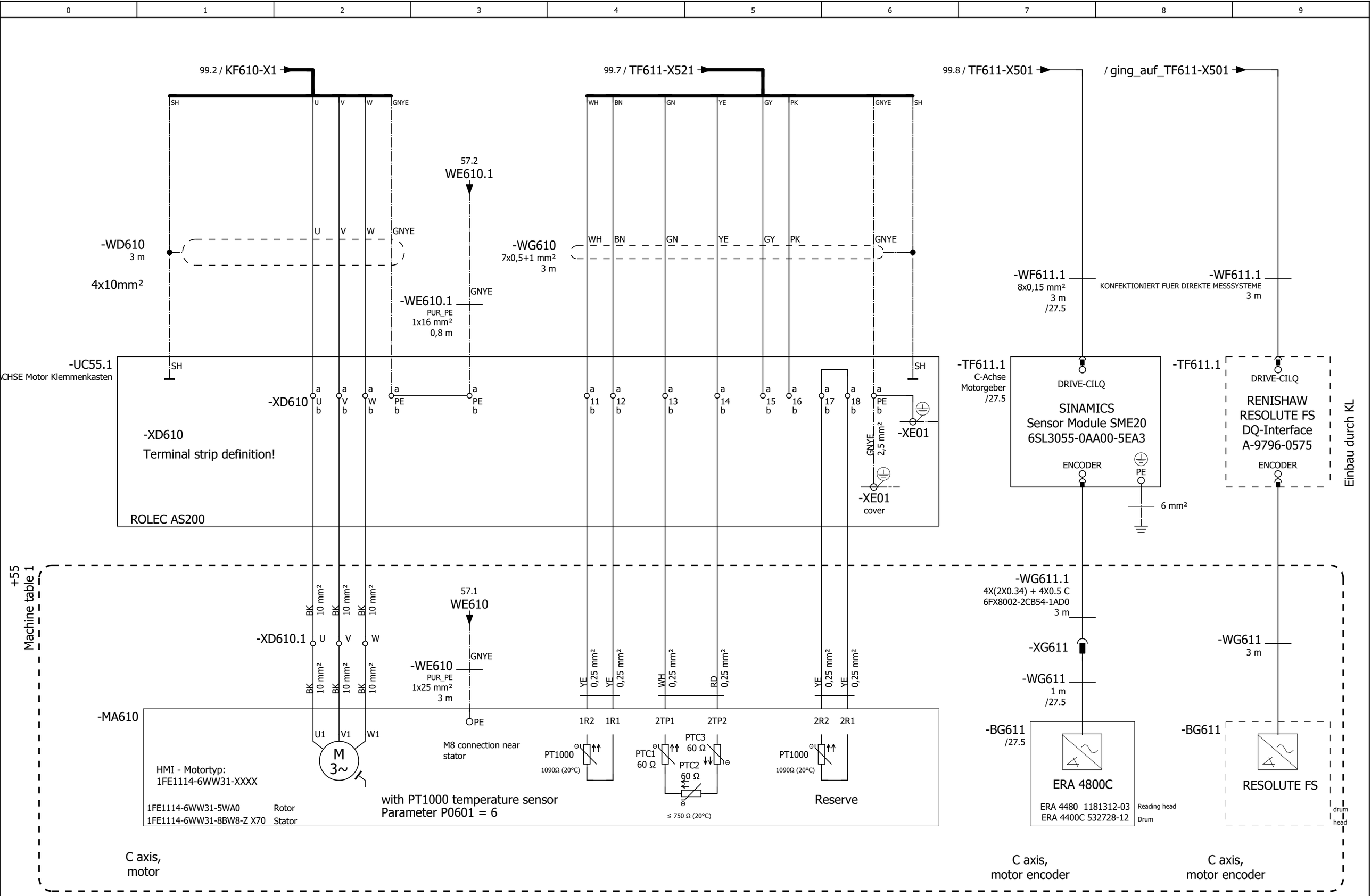


Bauteile "ES"	SV300	max. 2300 RPM	SV180	max. 3000 RPM
Motor	448783A 448784A	STATOR 1FE1114-6WW31-4BW8-Z X70 ROTOR 1FE1114-6WW31-5WA0	448837A 448838A	STATOR 1FE1092-6WR31-8BW0-Z X70 ROTOR 1FE1092-6WR31-5WA0
Antriebsregeler	391412A	SINGLE MOTOR MODULE 6SL3120-1TE24-5AA3 EINGANG: DC 600V; AUSGANG: 3AC 400V; 45A; Preis: 1745 EUR 45A B = 150mm	391694A	SINGLE MOTOR MODULE 6SL3120-1TE26-0AA3 EINGANG: DC 600V; AUSGANG: 3AC 400V; 60A; Preis: 2184 EUR 60A B = 150mm
Messsystem	448562A 448873A	TEILUNGSTROMMEL RESA30USA150B ABTASTKOPF SA26DBA150B30S	448745A 448874A	WINKELMESSSYSTEM RESA30USA115B ABTASTKOPF SA26DBA115B30S

C axis,
inverter

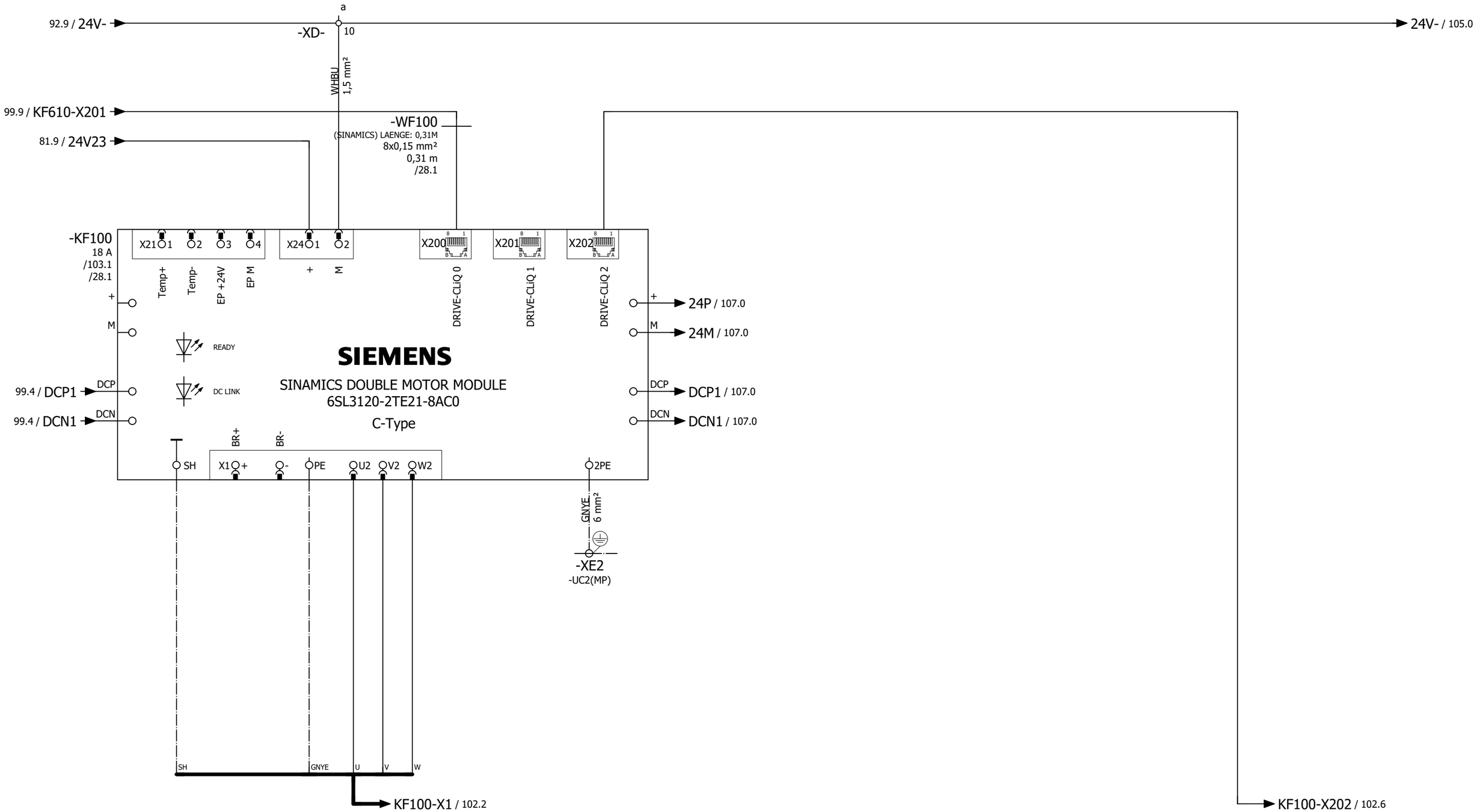
C axis,
motor encoder

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C axis, workpiece spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 99
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



99 101

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C axis, workpiece spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 100
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



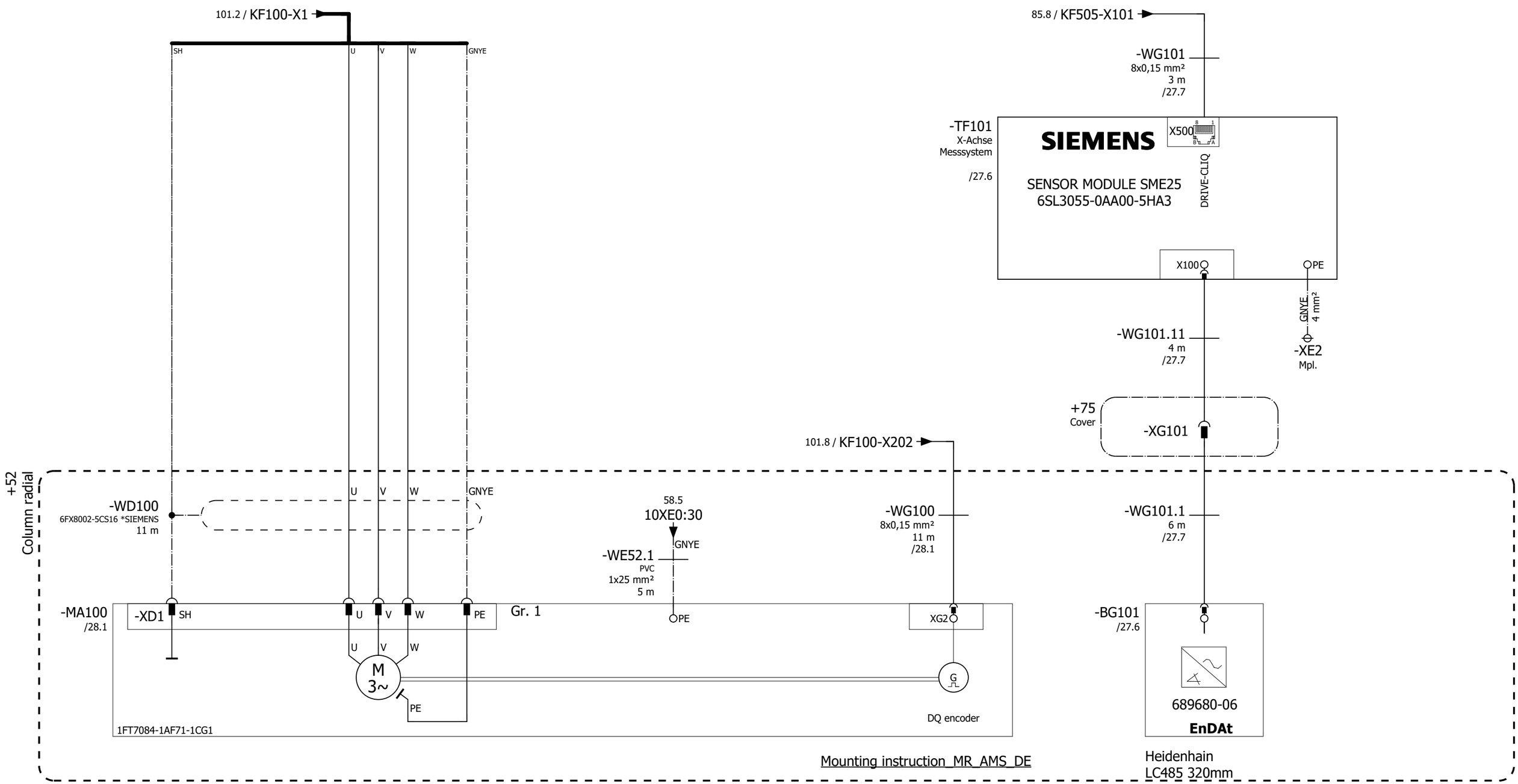
X/Z axis,
inverter

X axis,
motor encoder

100

102

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X axis, column radial	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 101
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



X axis,
motor
(radial slide)

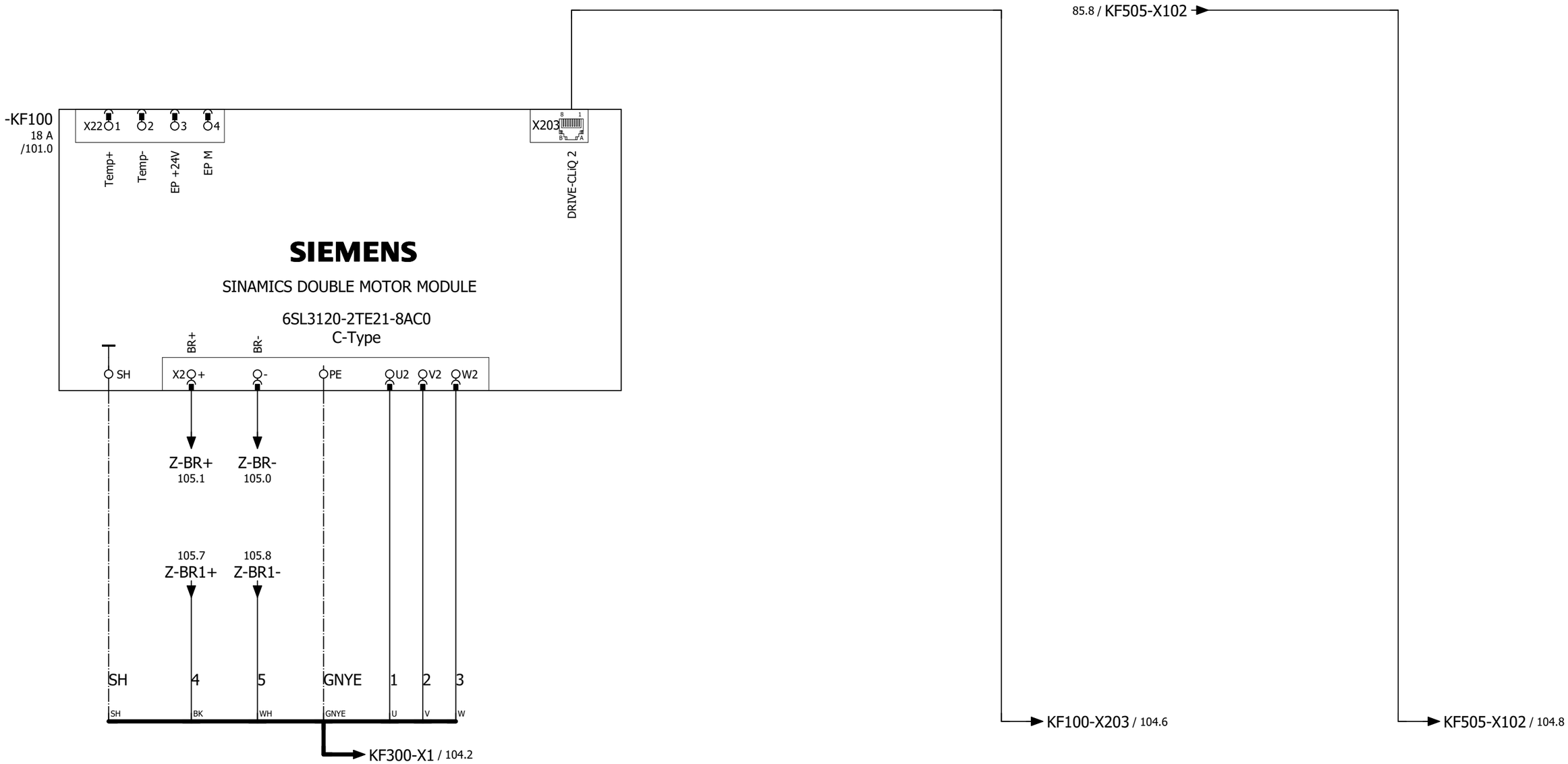
X axis,
motor encoder

X-axis
meas. system

101

103

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X axis, radial slide	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 102
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



X/Z axis,
inverter

Z axis,
brake

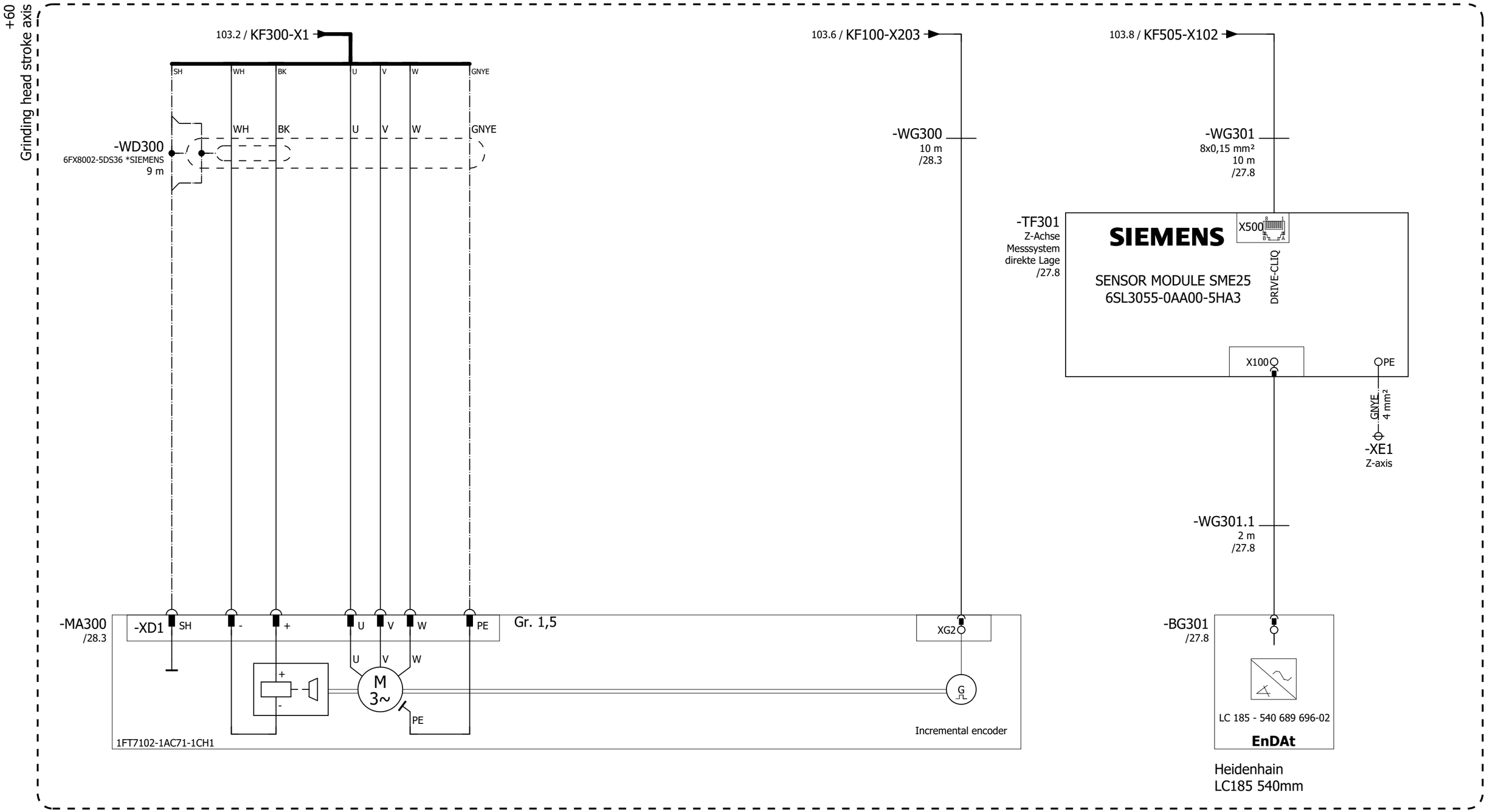
Z axis,
motor encoder

Z axis,
measurement
system, direct position

102

104

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z axis, stroke axis grinding head	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 103
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Z axis,
motor
(stroke axis)

Z axis,
brake

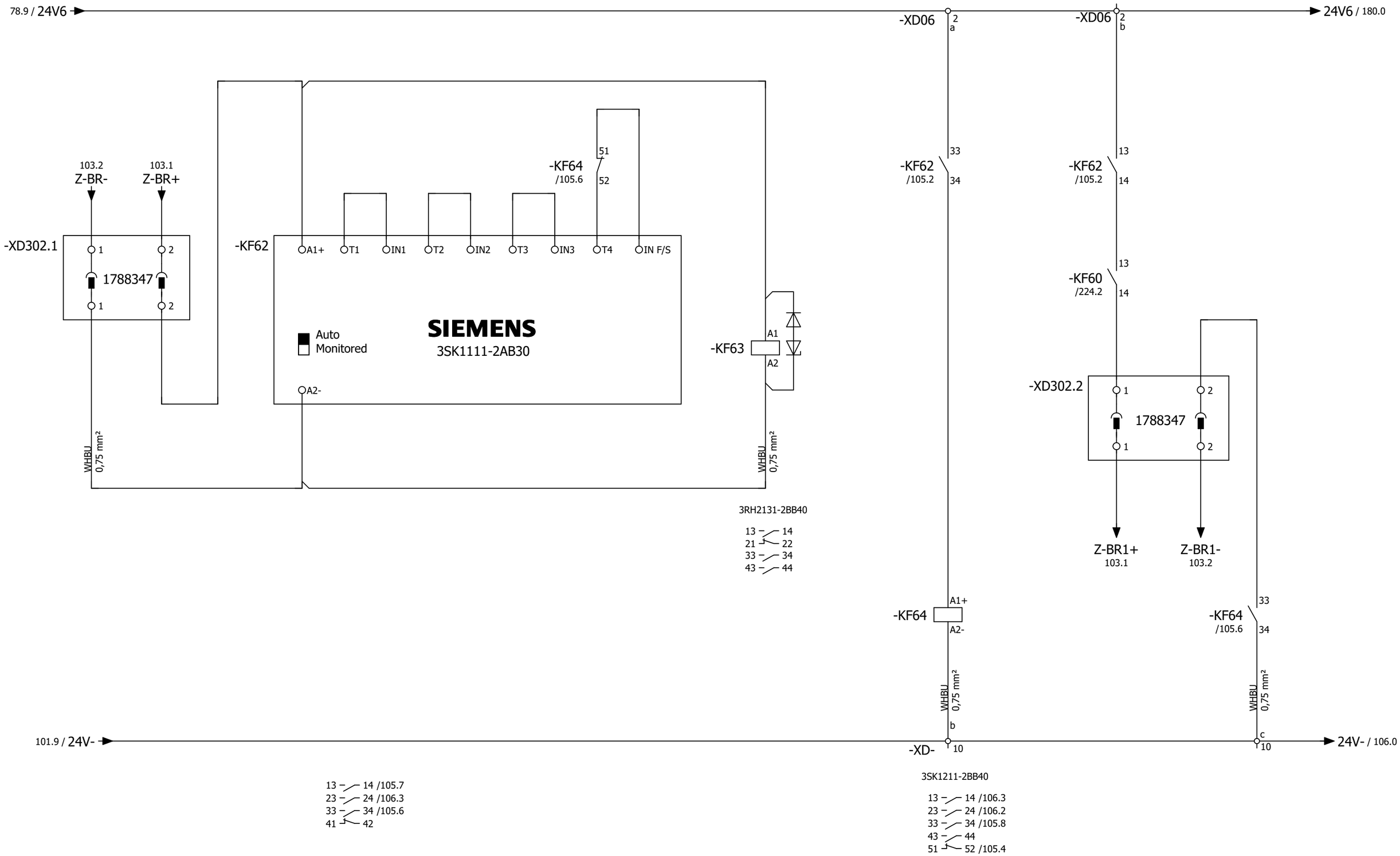
Z axis,
motor encoder

Z axis,
measurement
system, direct position

103

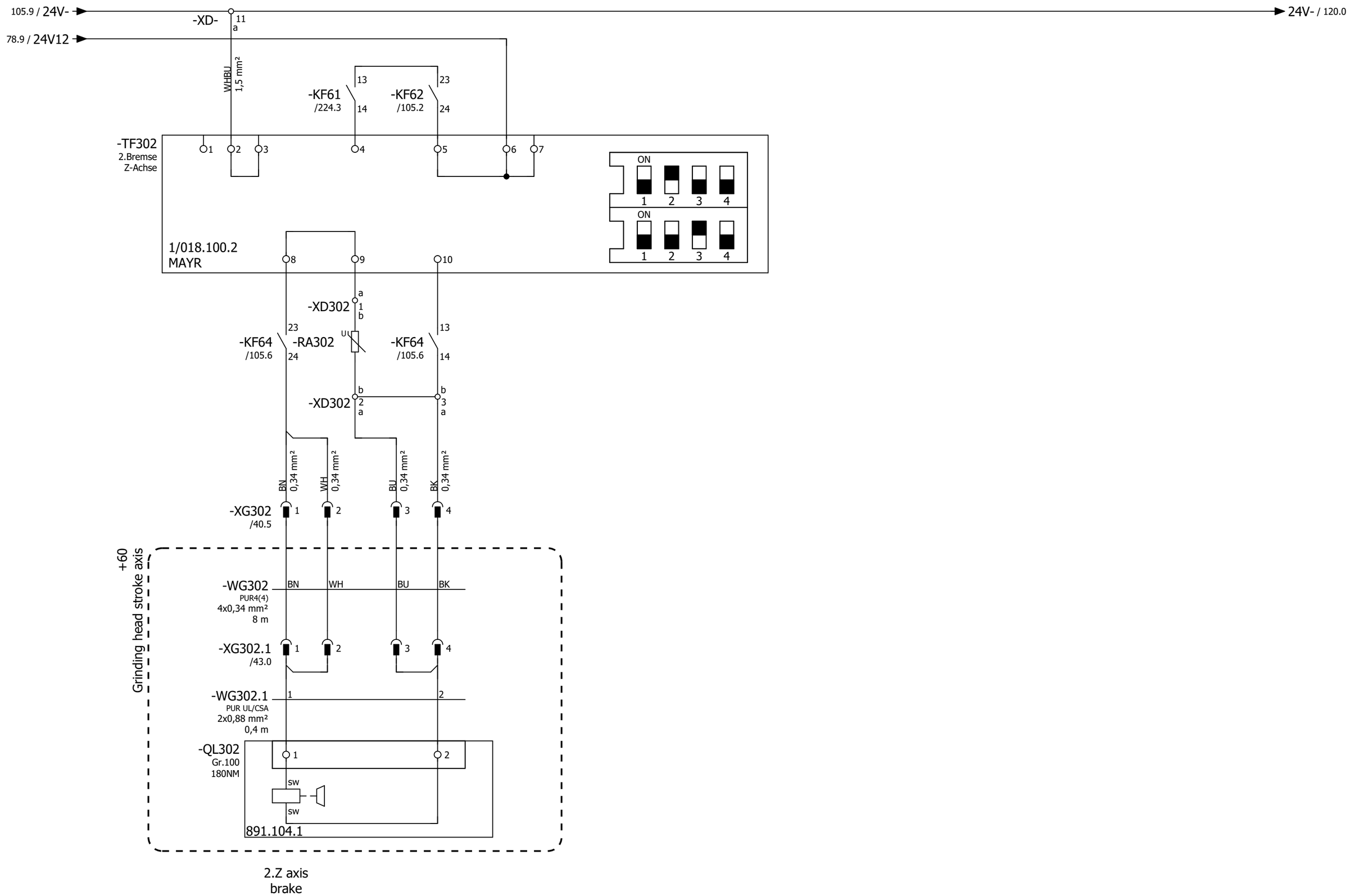
105

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z axis, stroke axis grinding head	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 104
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



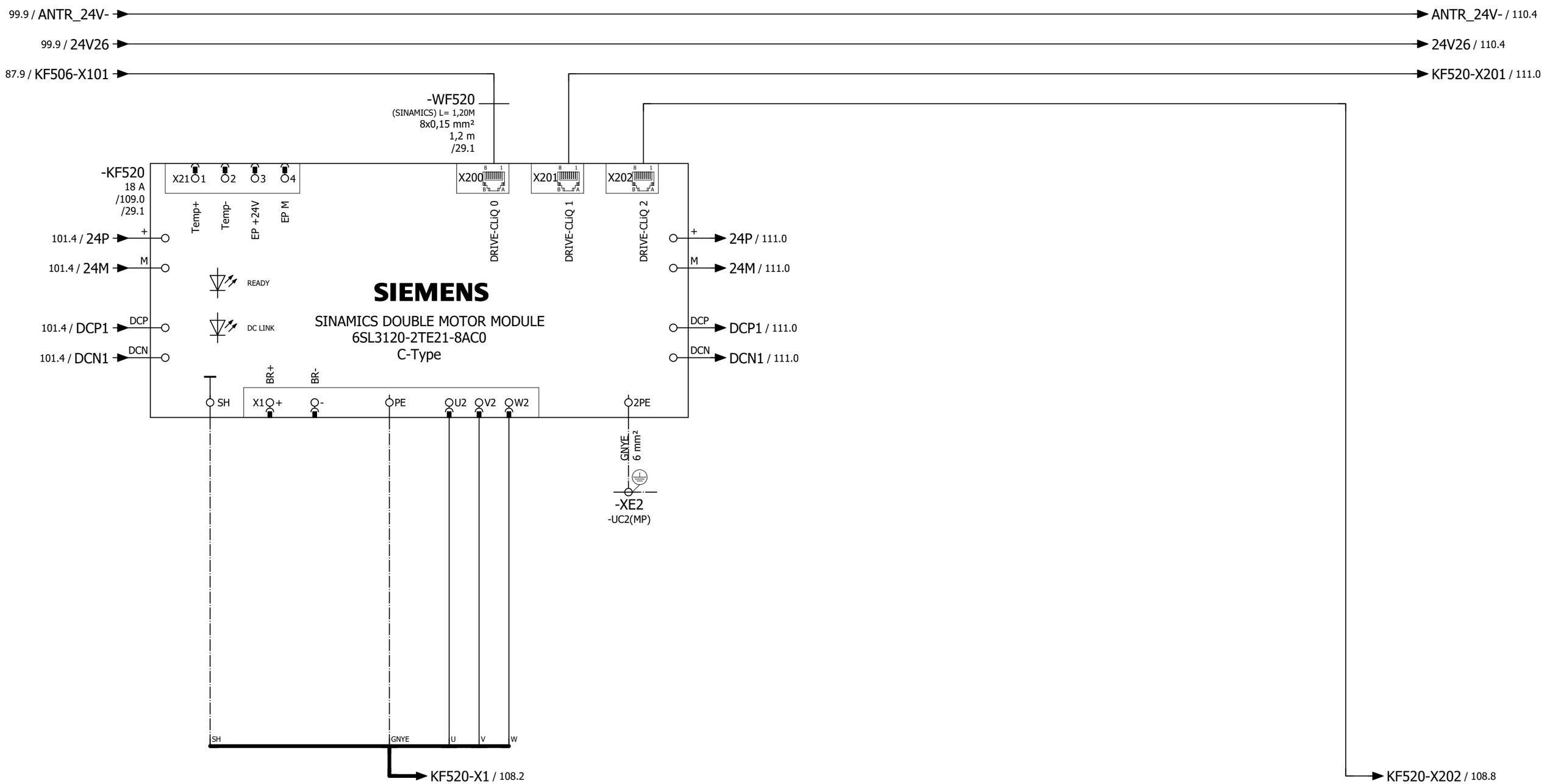
104 106

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z axis, control brake	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 105
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



105 107

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z axis, control safety brake	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 106
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



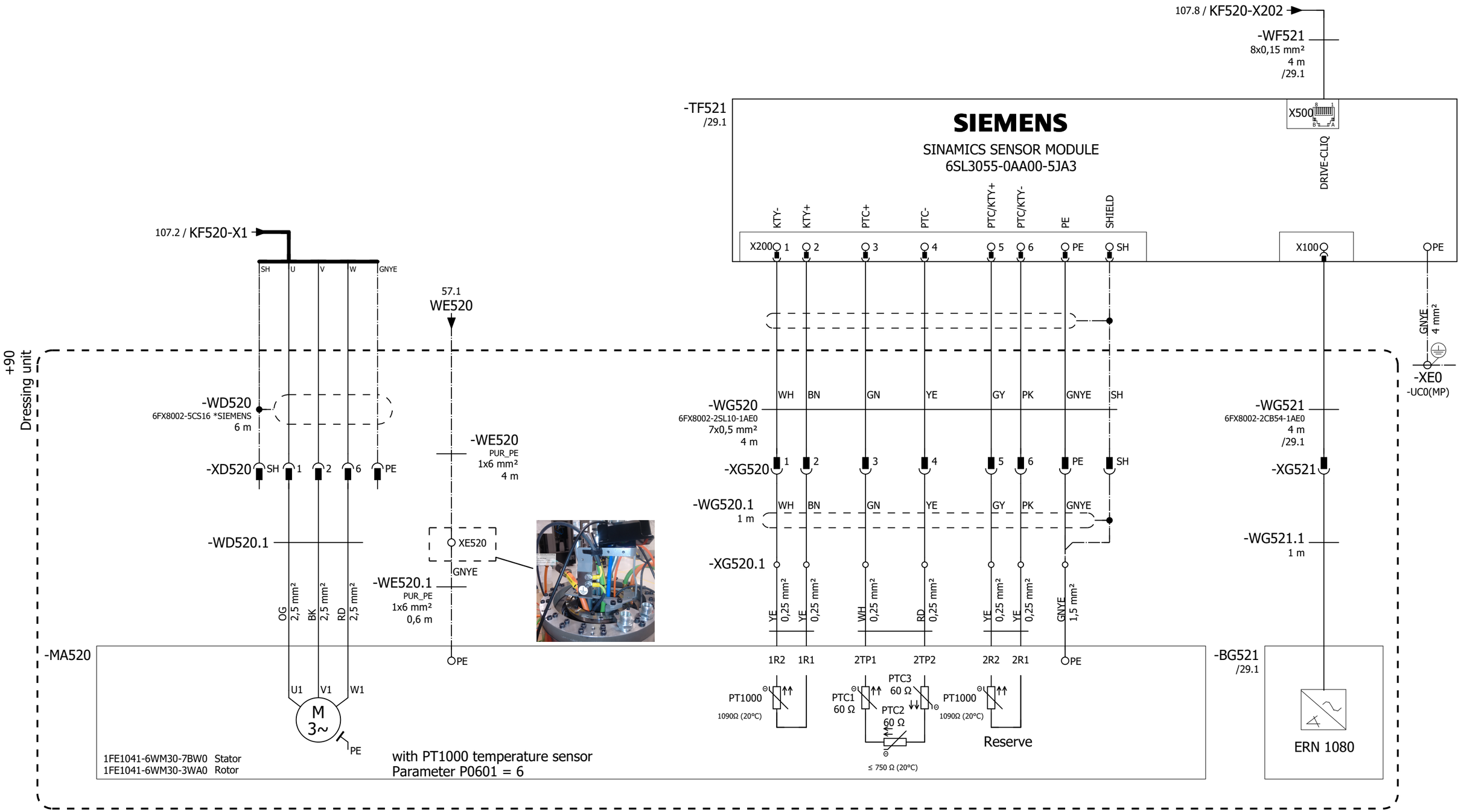
B2/C3 axis,
inverter

B2 axis,
motor encoder

106

108

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	B2 axis, dressing spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 107
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



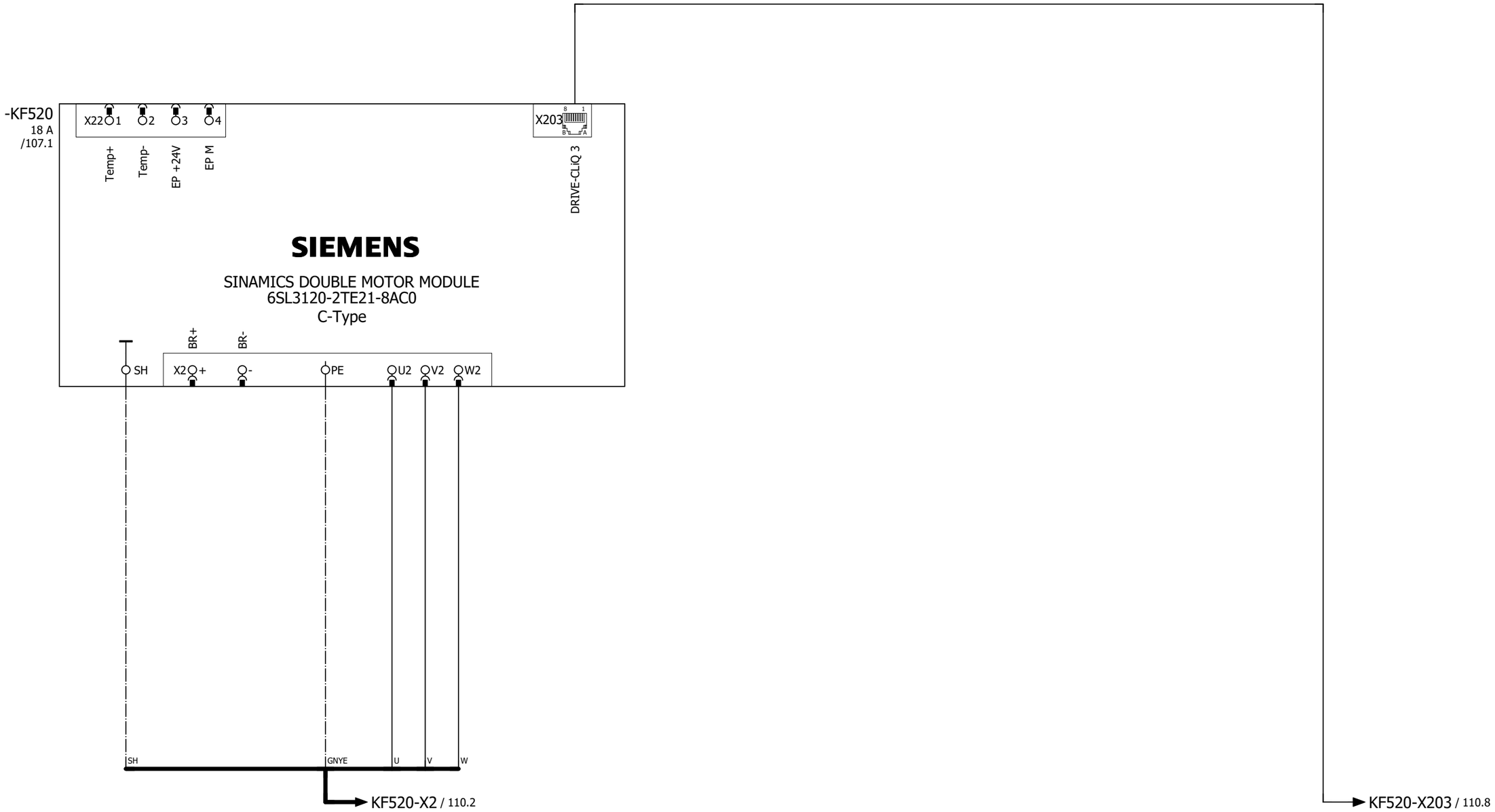
B2 axis,
motor

B2 axis,
motor encoder

107

109

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	B2 axis, dressing spindle	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 108
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



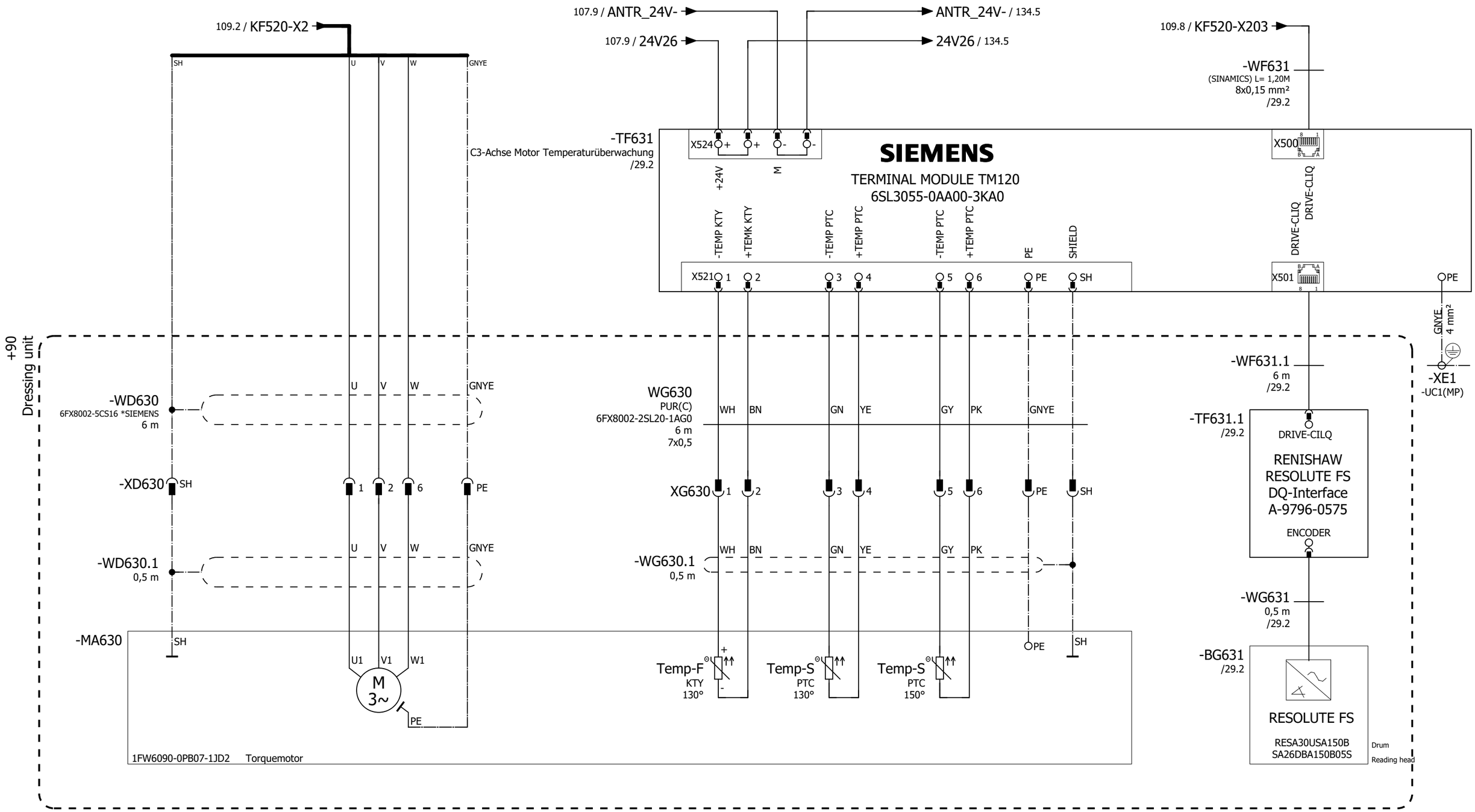
B2/C3 axis,
inverter

C3 axis,
motor encoder

108

110

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C3 axis, rotational axis dressing unit	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 109
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



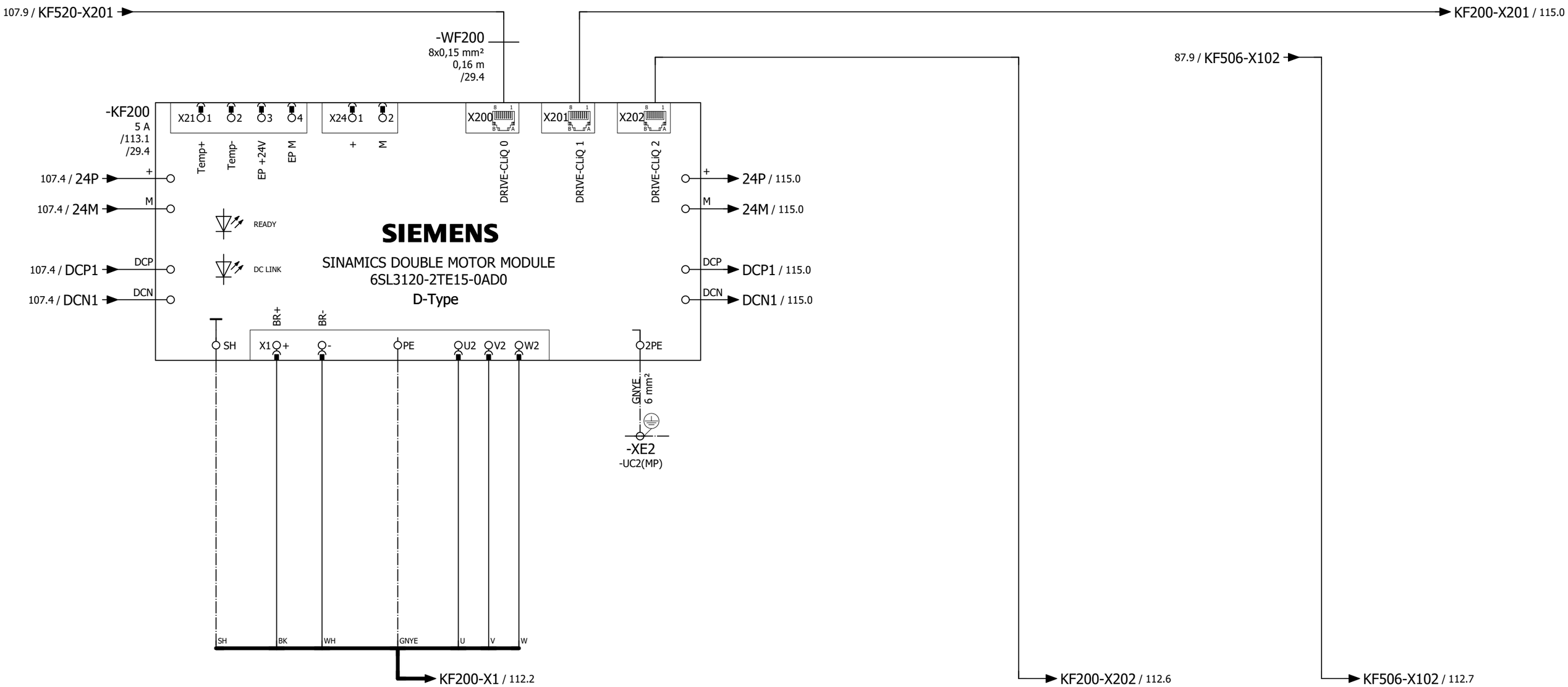
C3 axis,
motor

C3 axis,
motor encoder

109

111

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C3 axis, rotational axis dressing unit	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 110
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

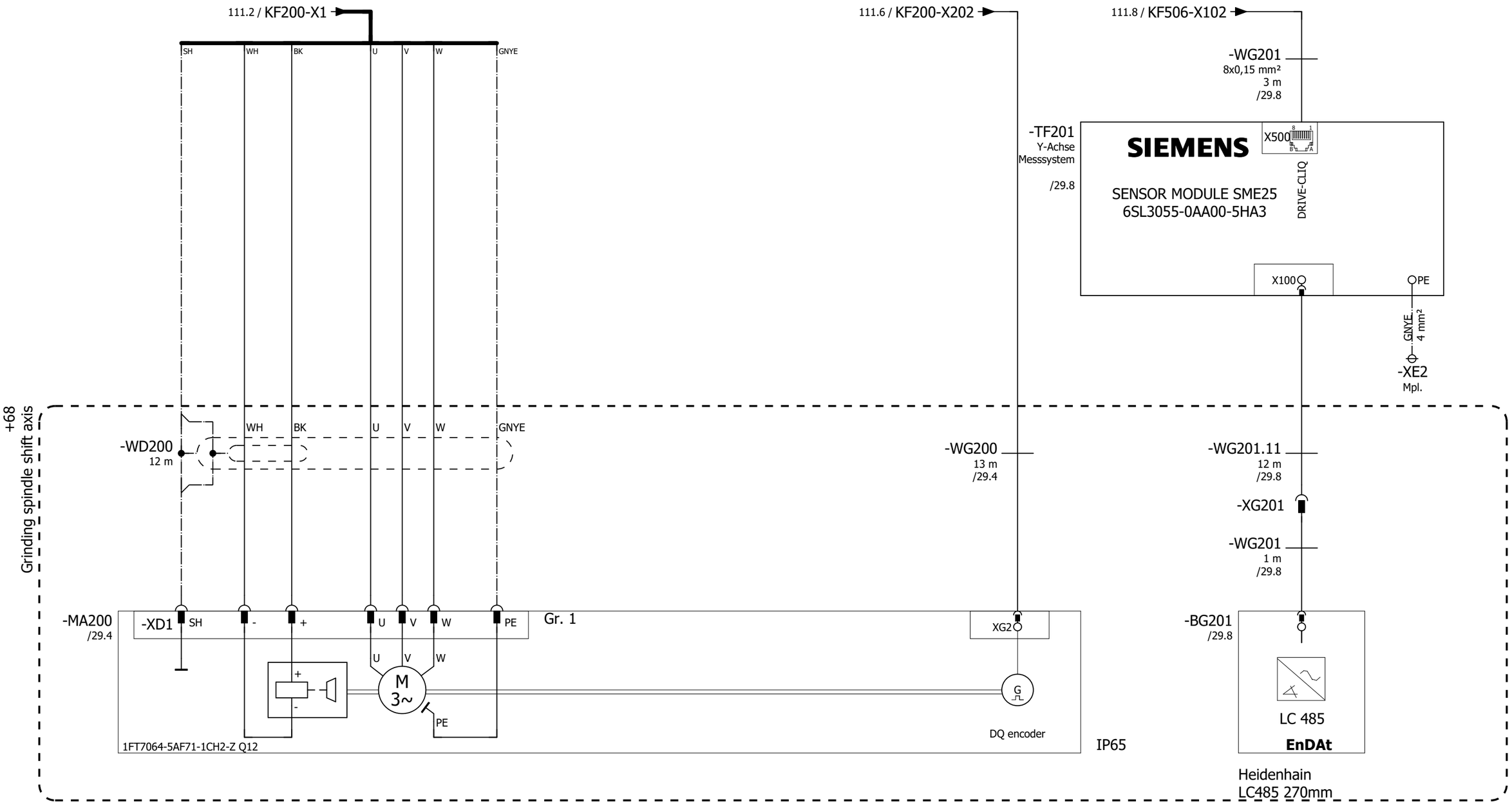


Y/X1 axis,
inverter

Y axis,
brake

Y axis,
motor encoder

Y axis,
measurement
system, direct position



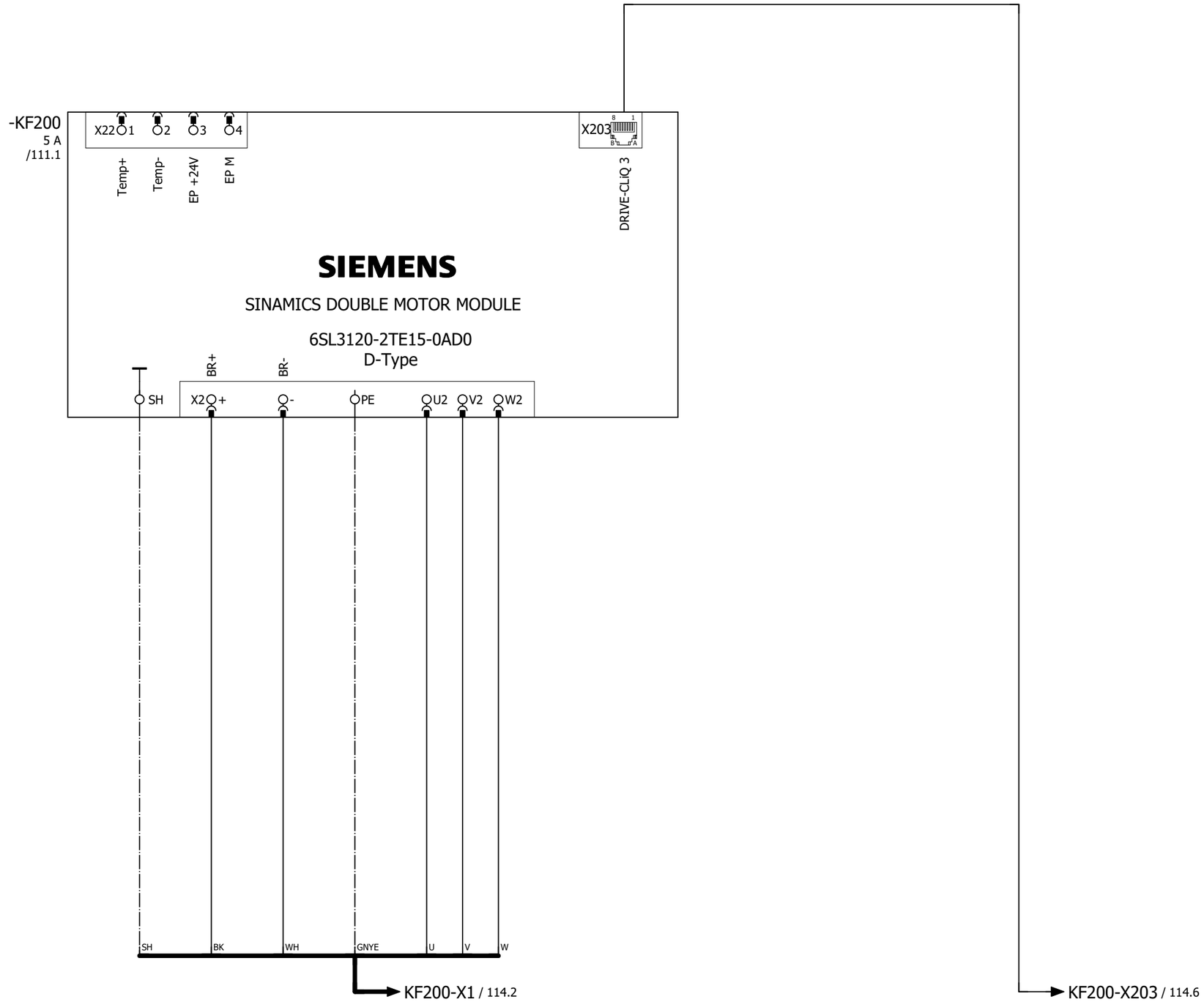
Y axis,
motor

Y axis,
brake

Y axis,
motor encoder

Y-axis
meas. system

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Y axis, shift tool	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 112
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Y/X1 axis,
inverter

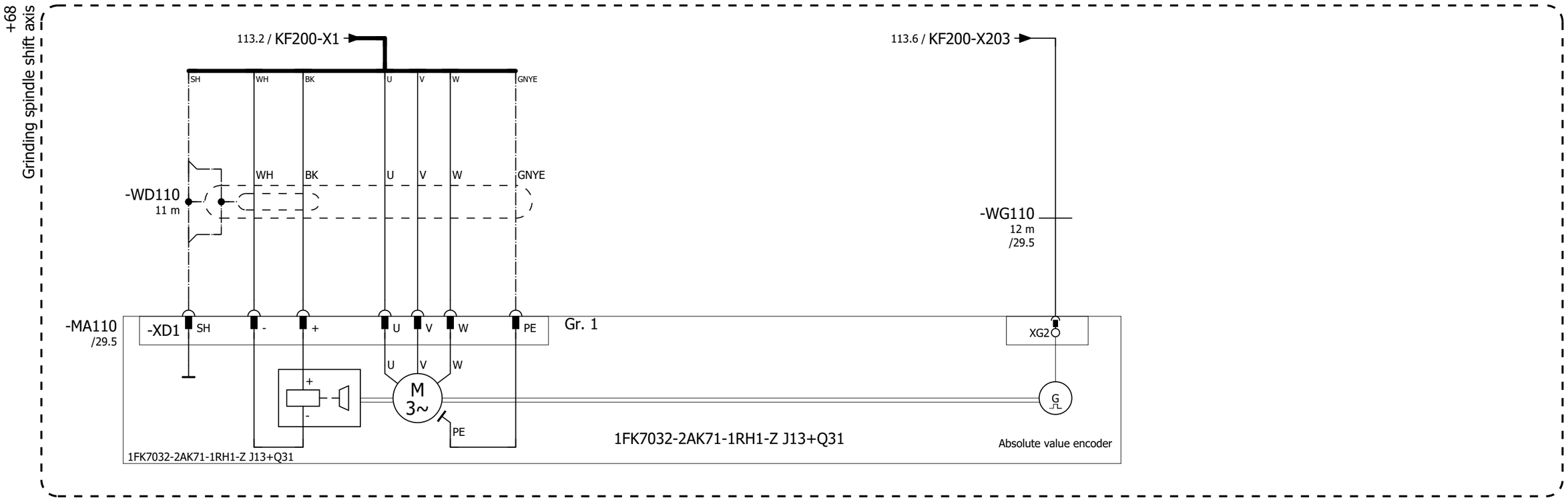
X1 axis,
brake

X1 axis,
motor encoder

112

114

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X1 axis, grinding oil feed	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 113
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

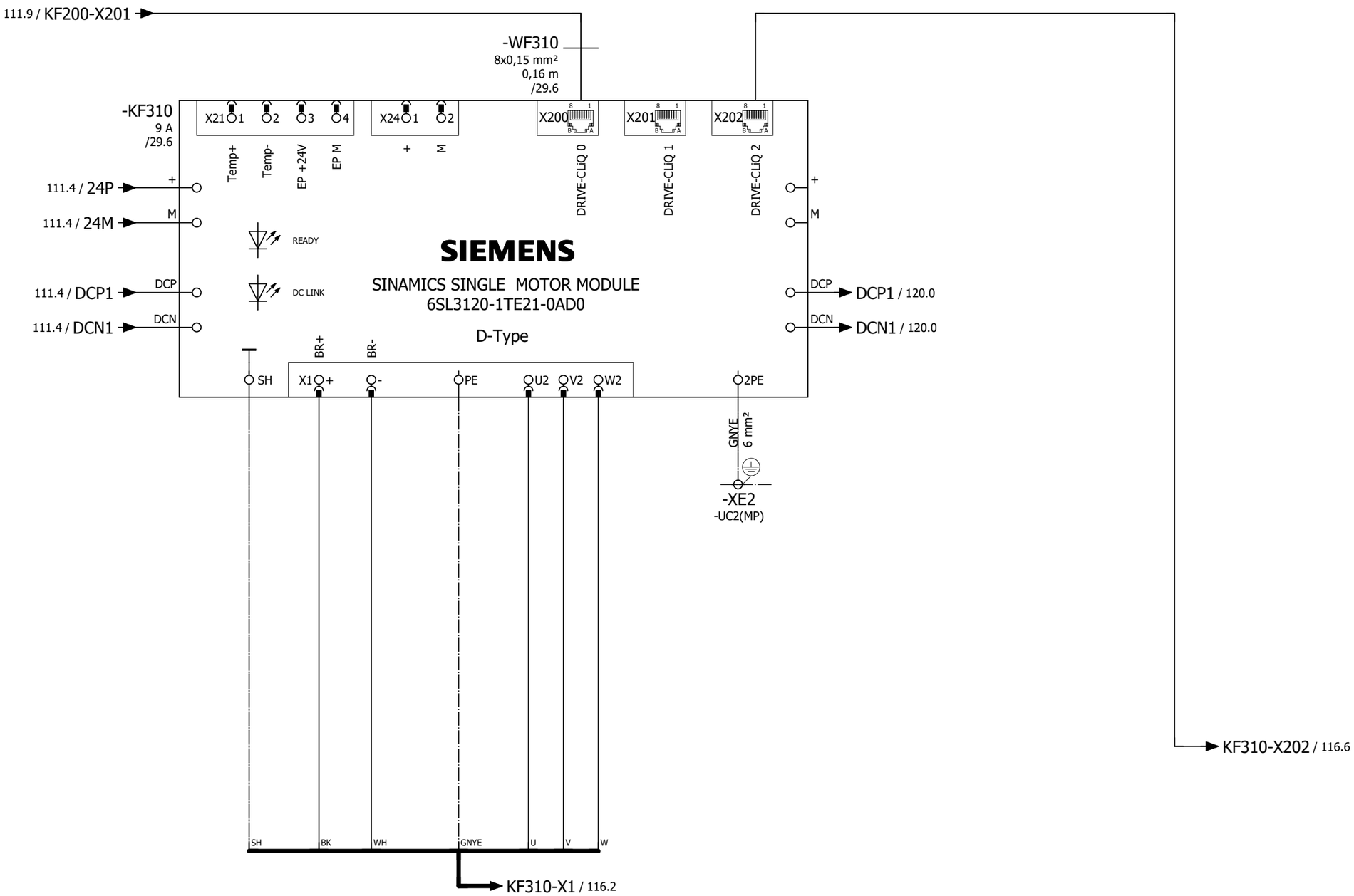


X1 axis, motor

X1 axis, brake

X1 axis, motor encoder

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X1 axis, grinding oil feed	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 114
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Z1 axis,
inverter

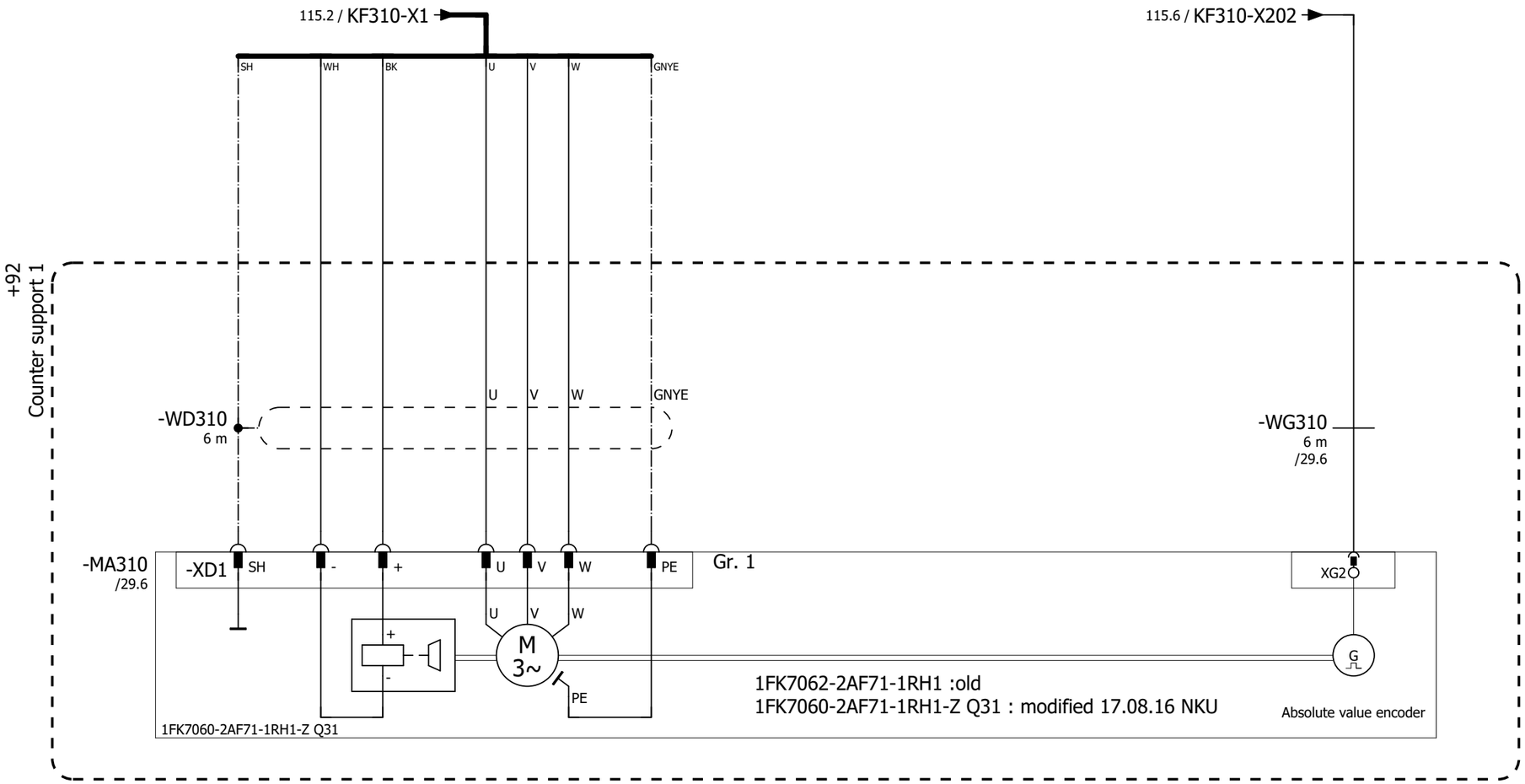
Z1 axis,
brake

Z1 axis,
motor encoder

114

116

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z1 axis, counter support	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 115
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Z1 axis,
motor

Z1 axis,
brake

Z1 axis,
motor encoder

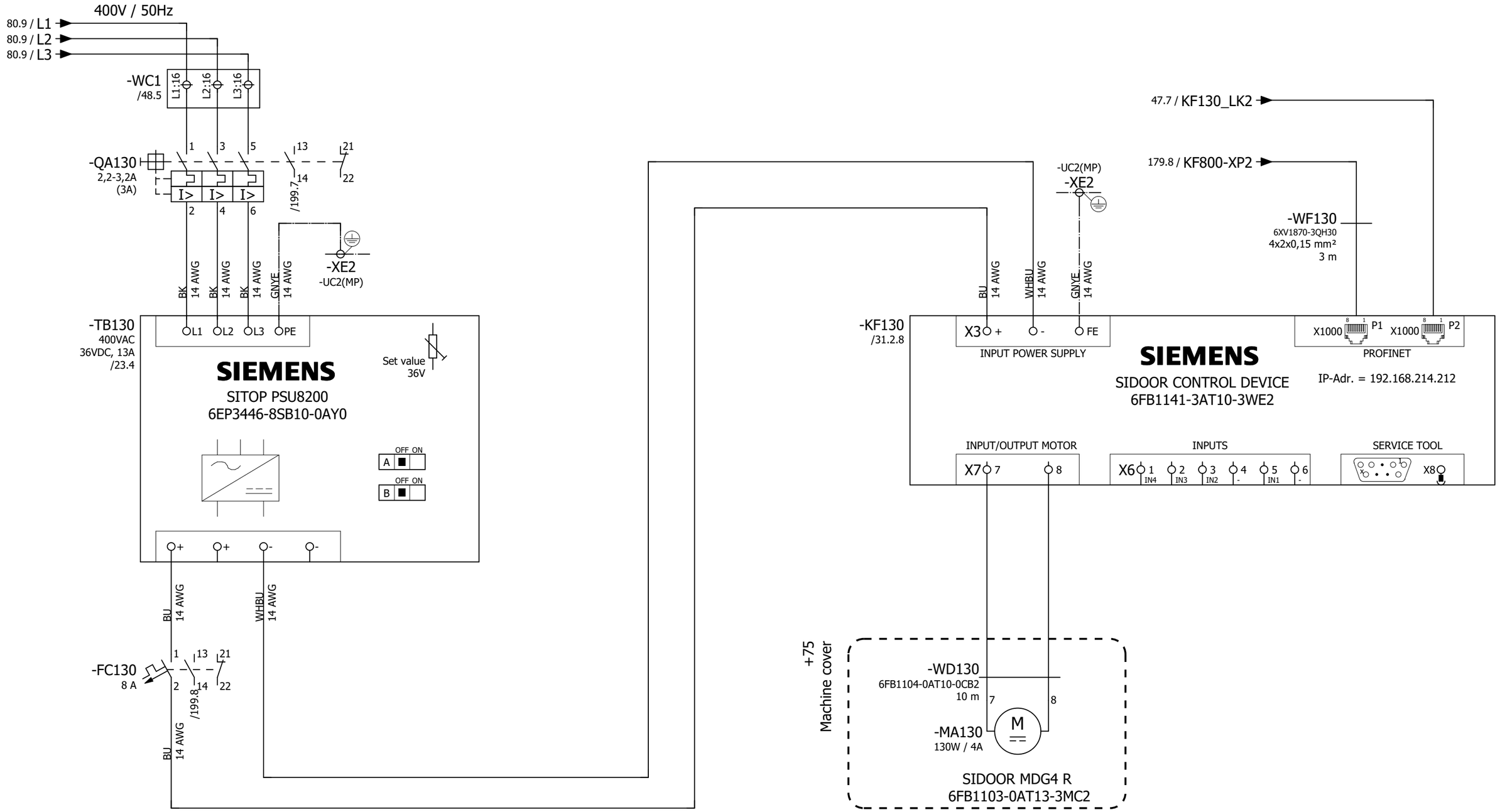
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z1 axis, counter support	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 116
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X3 axis, door axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 117
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X3 axis, door axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 118
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

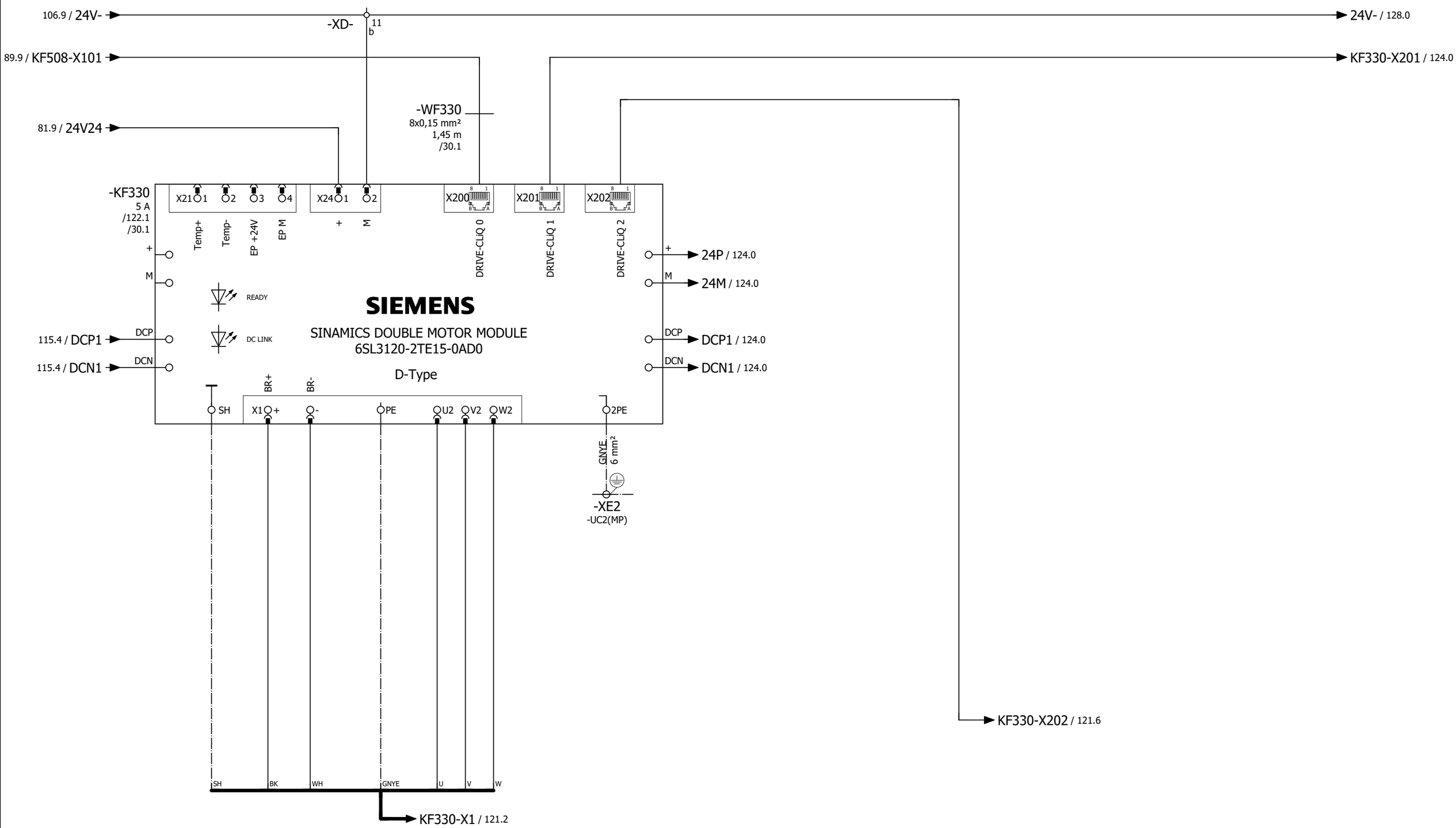


X3 axis,
(Sidoor)
supply

X3 axis,
(Sidoor)
motor

118 120

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X3 axis, door axis Sidoor	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 119
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



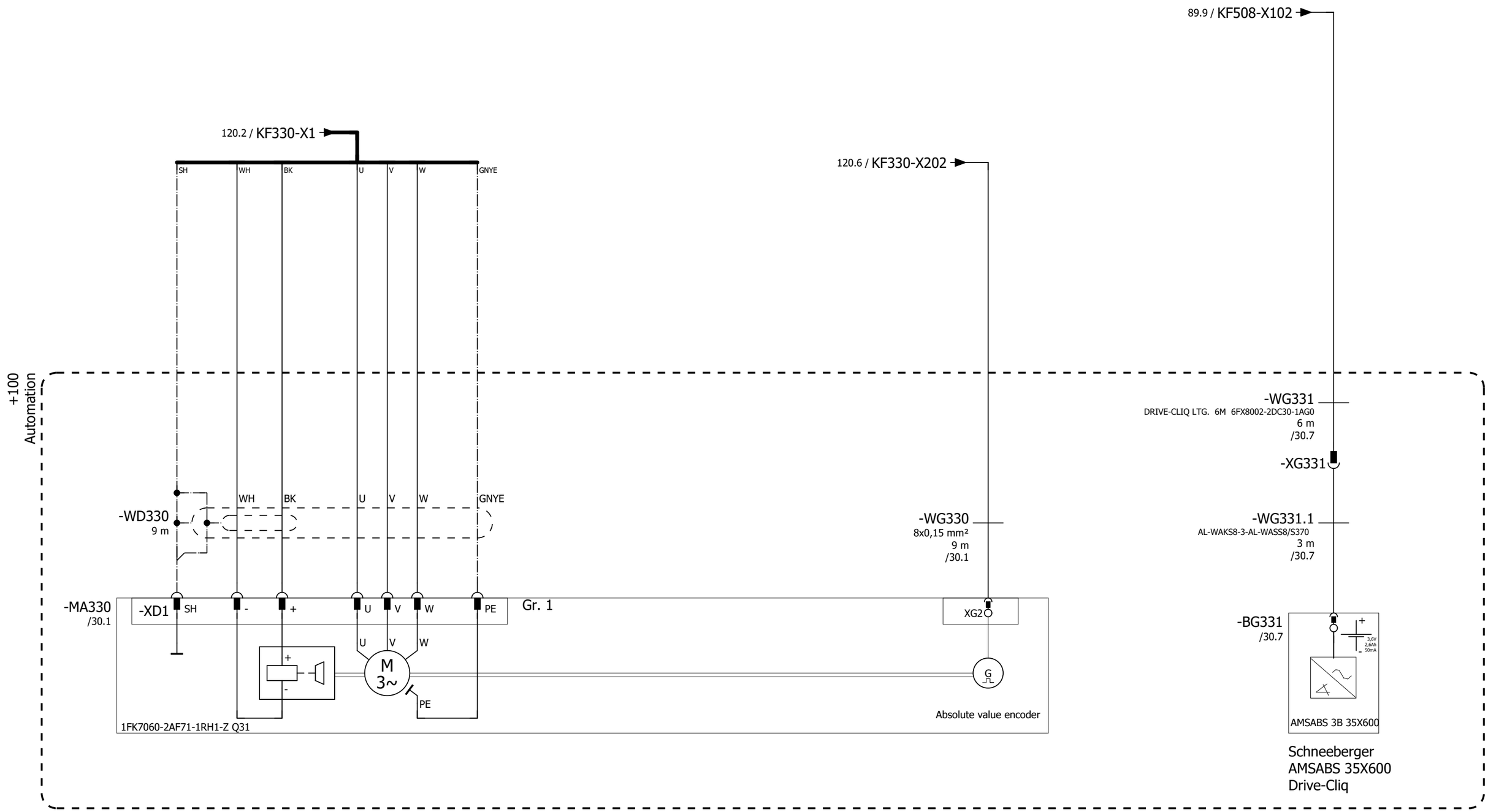
Z3/Z4 axis,
inverter

Z3 axis,
motor encoder

119

121

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z3 axis, stroke axis workpiece change	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 120
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

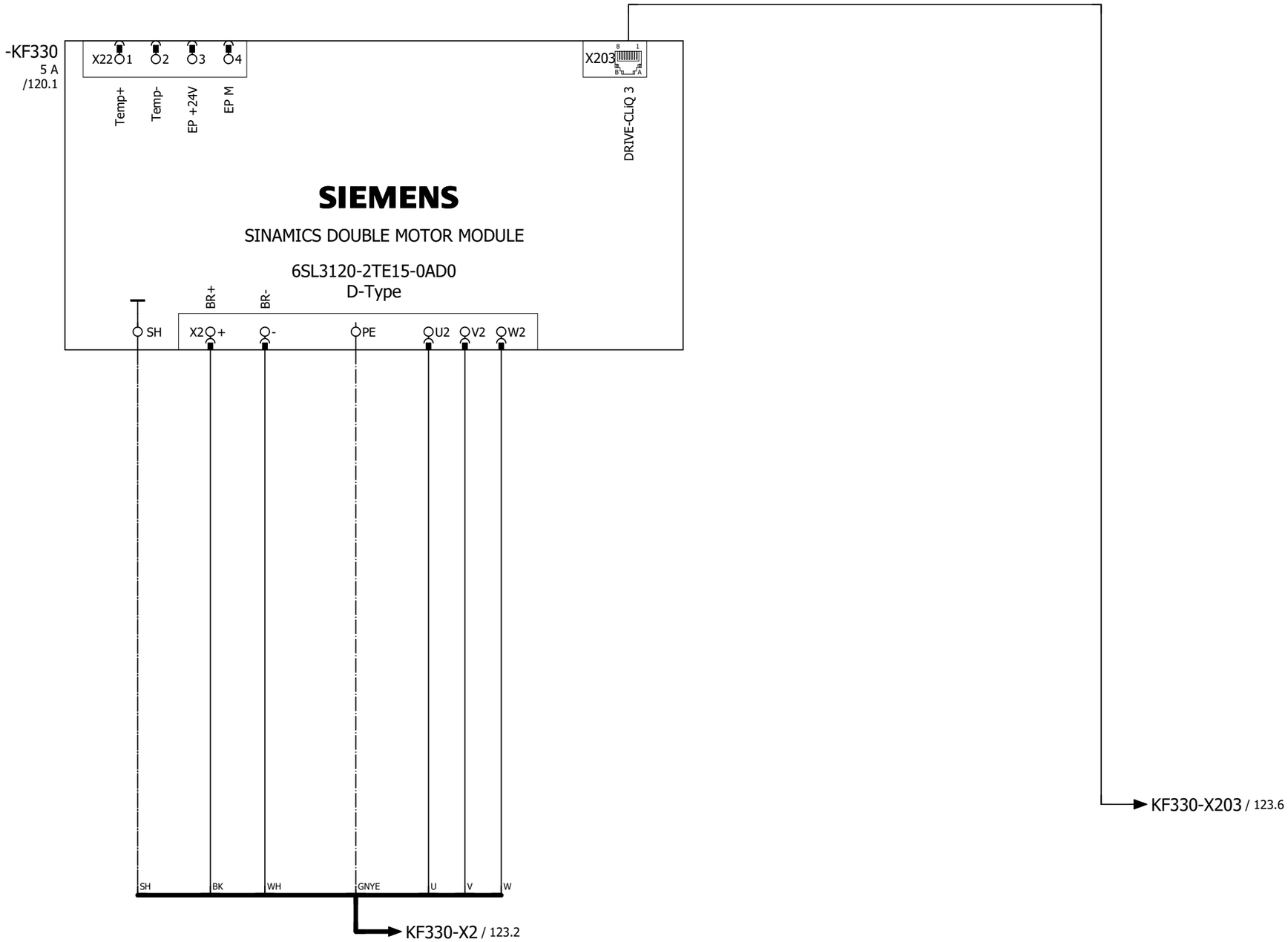


Z3 axis,
motor

Z3 axis,
brake

Z3 axis,
motor encoder

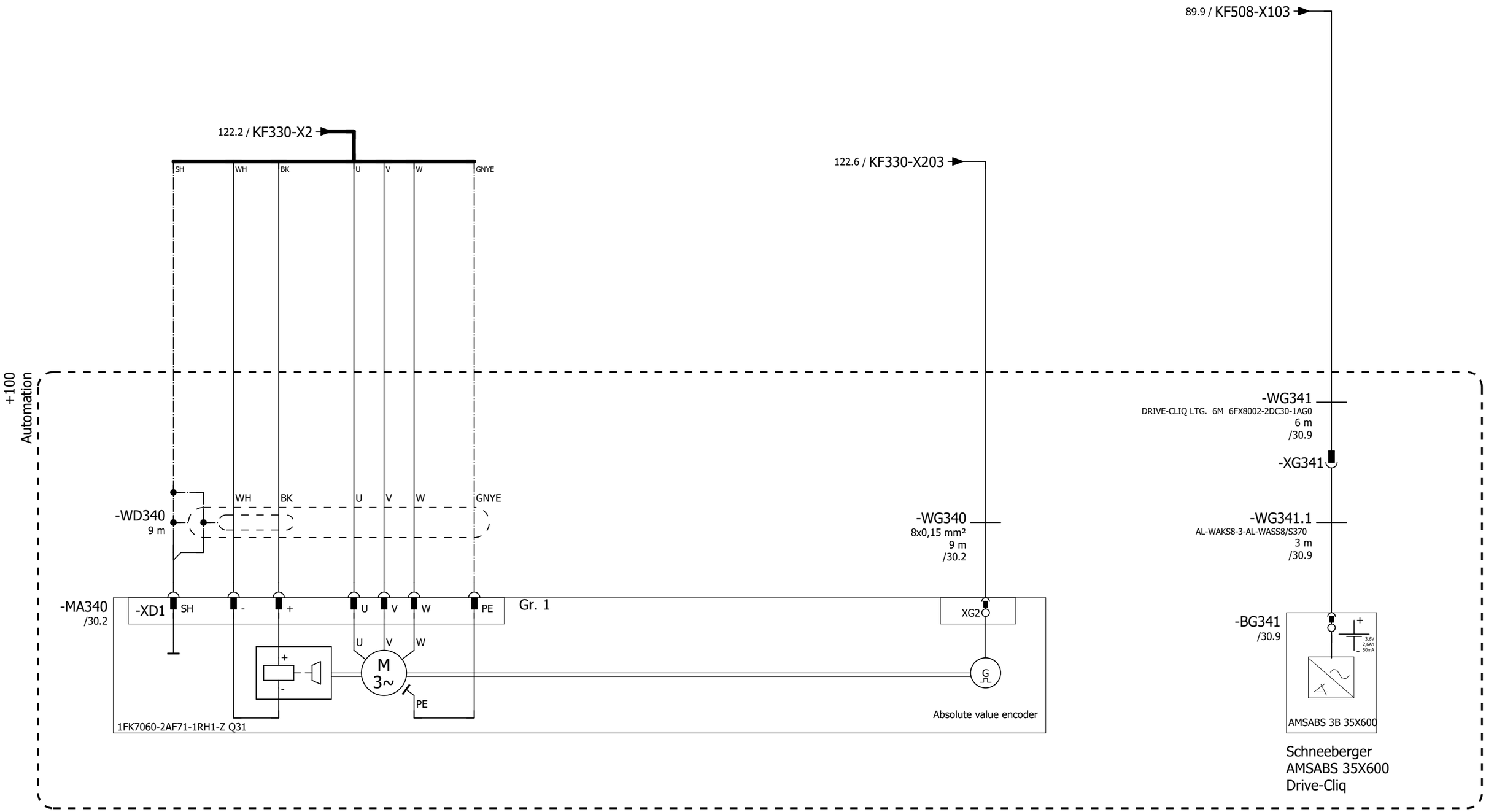
Z3 axis,
external measuring
system



Z3/Z4 axis,
inverter

Z4 axis,
motor encoder

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z4 axis, stroke axis workpiece change	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 122
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



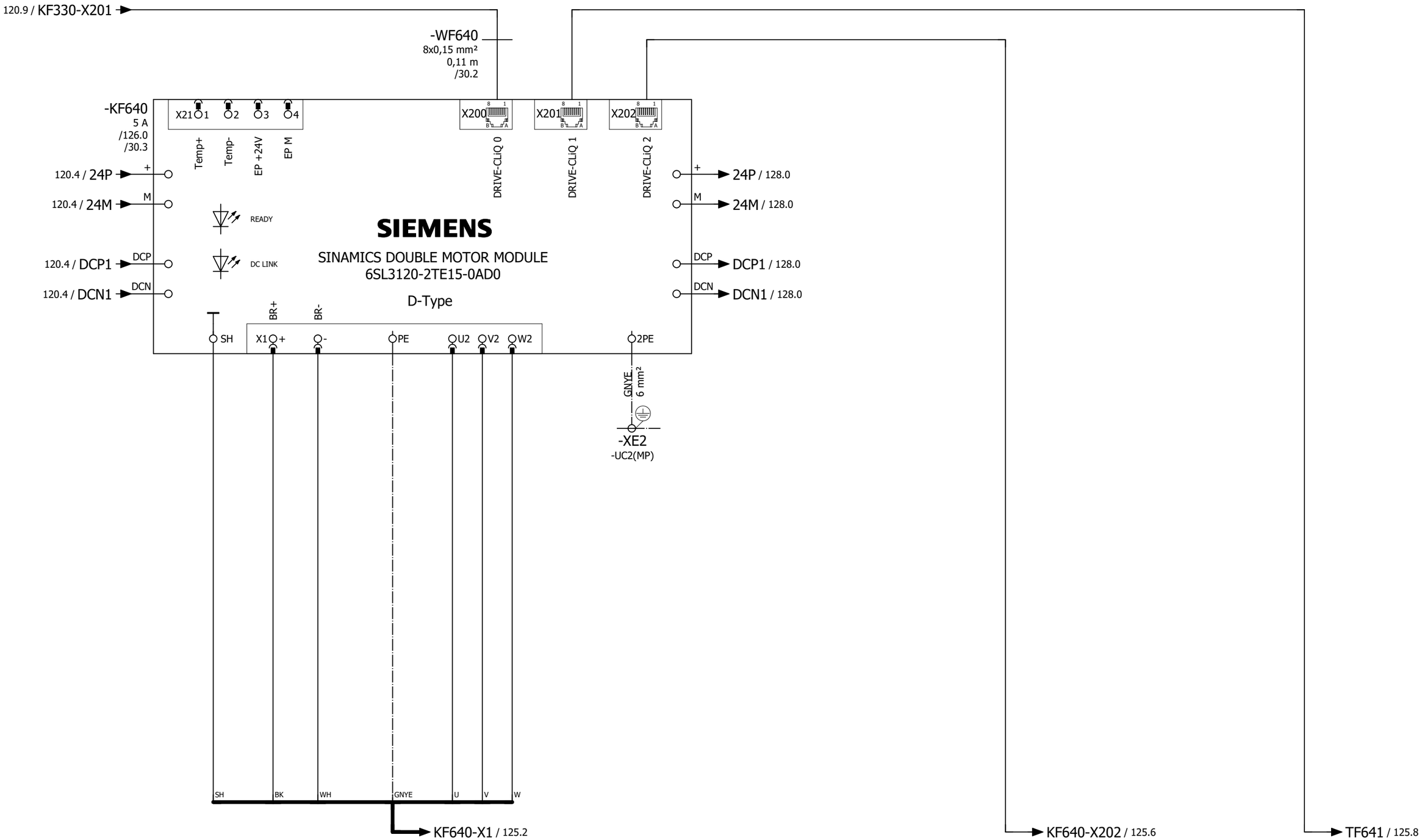
Z4 axis, motor

Z4 axis, brake

Z4 axis, motor encoder

Z4 axis, external measuring system

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Z4 axis, stroke axis workpiece change	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 123
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



C4/X4 axis,
inverter

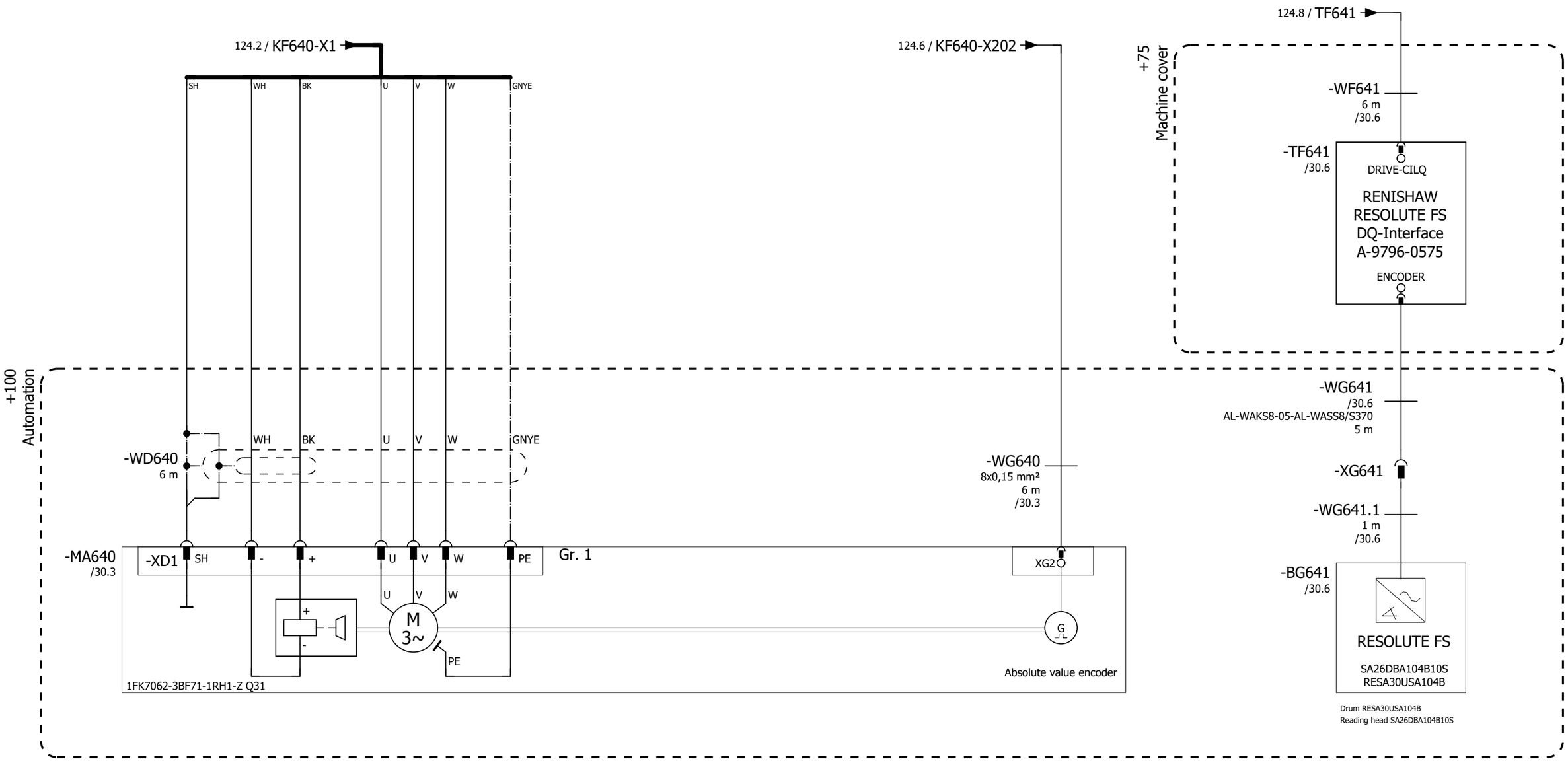
C4 axis,
motor encoder

C4 axis,
external measuring
system

123

125

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C4 axis, swivel axis for loader	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 124
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



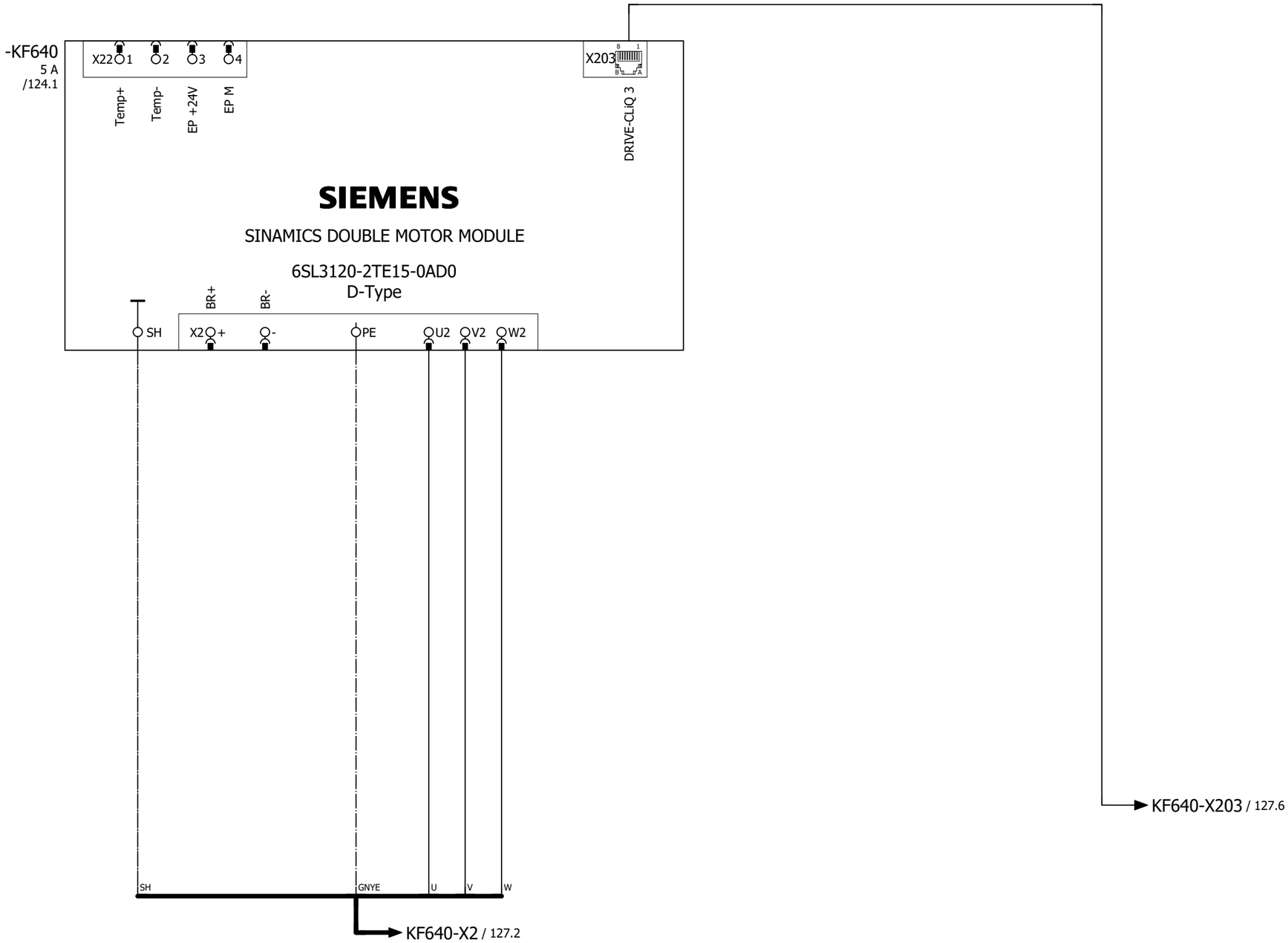
C4 axis, motor

C4 axis, brake

C4 axis, motor encoder

C4 axis, external measuring system

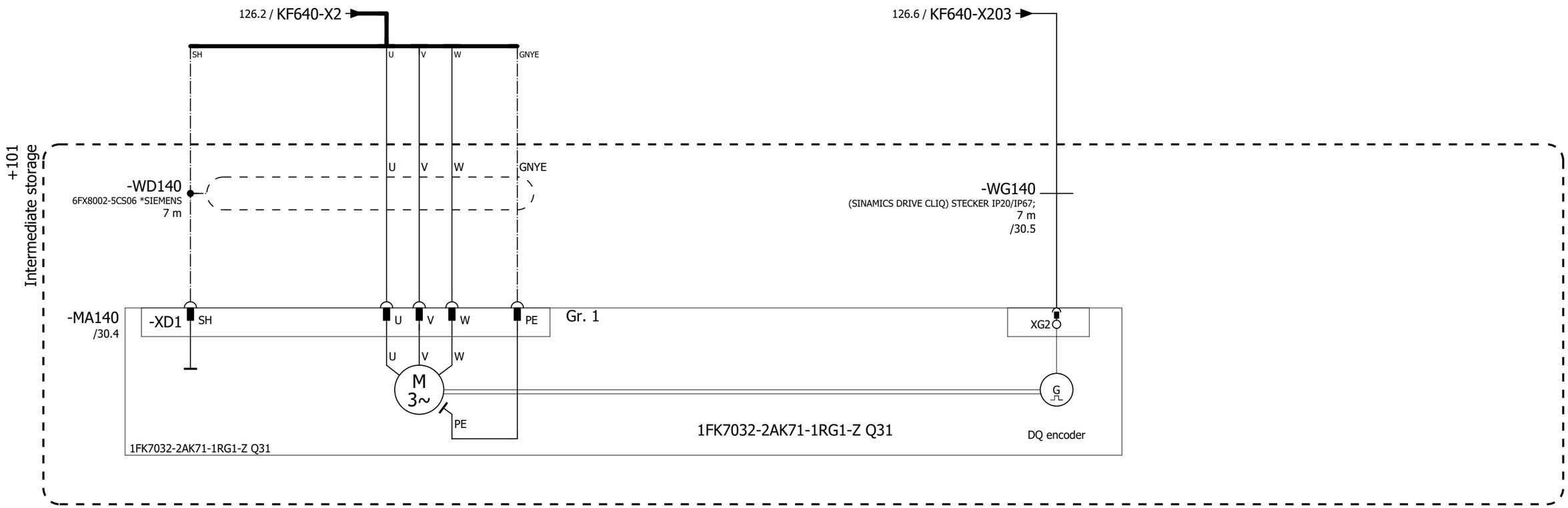
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	C4 axis, swivel axis for loader	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 125
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



C4/X4 axis,
inverter

X4 axis,
motor encoder

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X4 axis, loading door	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 126
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



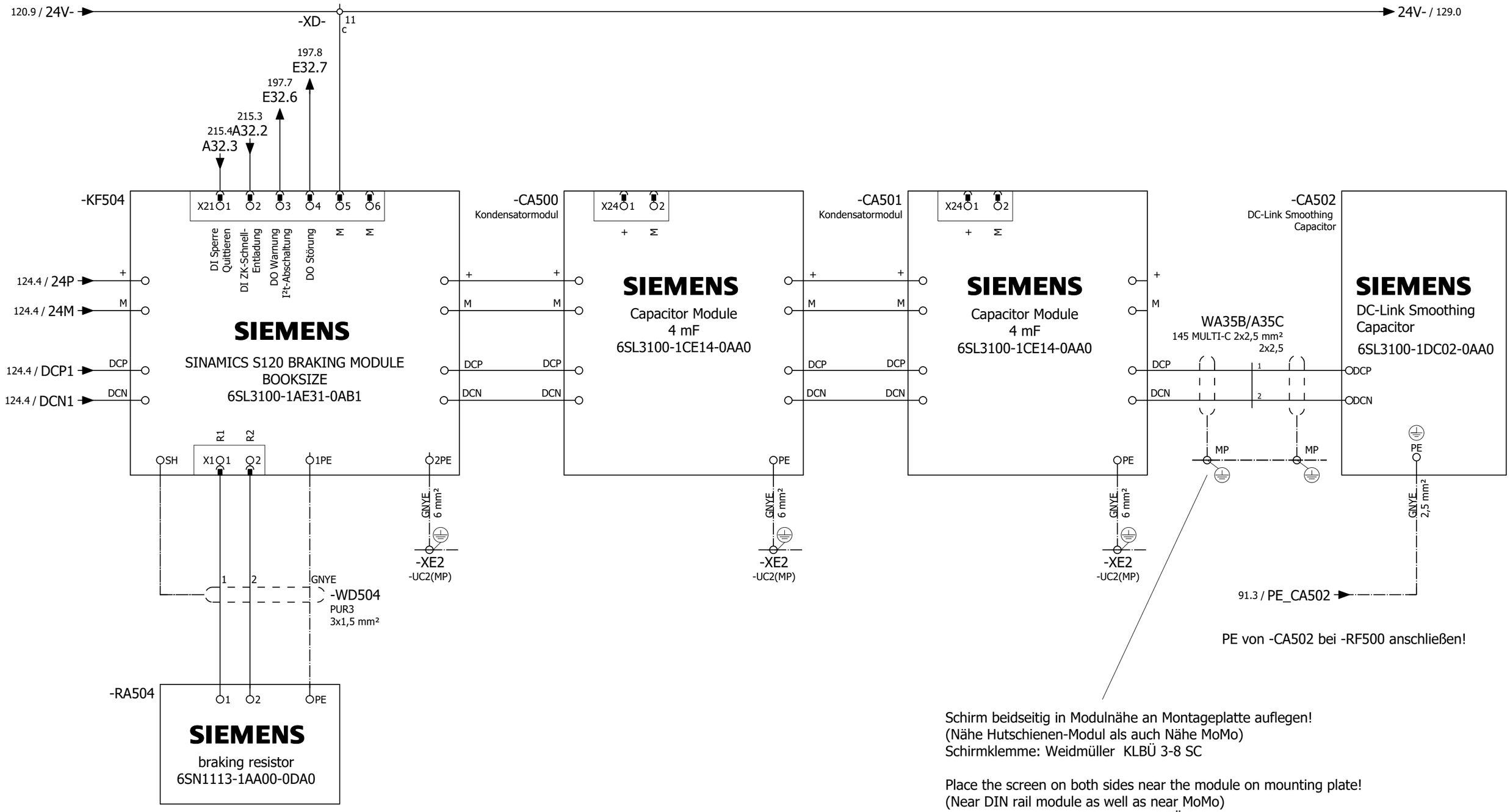
X4 axis,
motor

X4 axis,
motor encoder

126

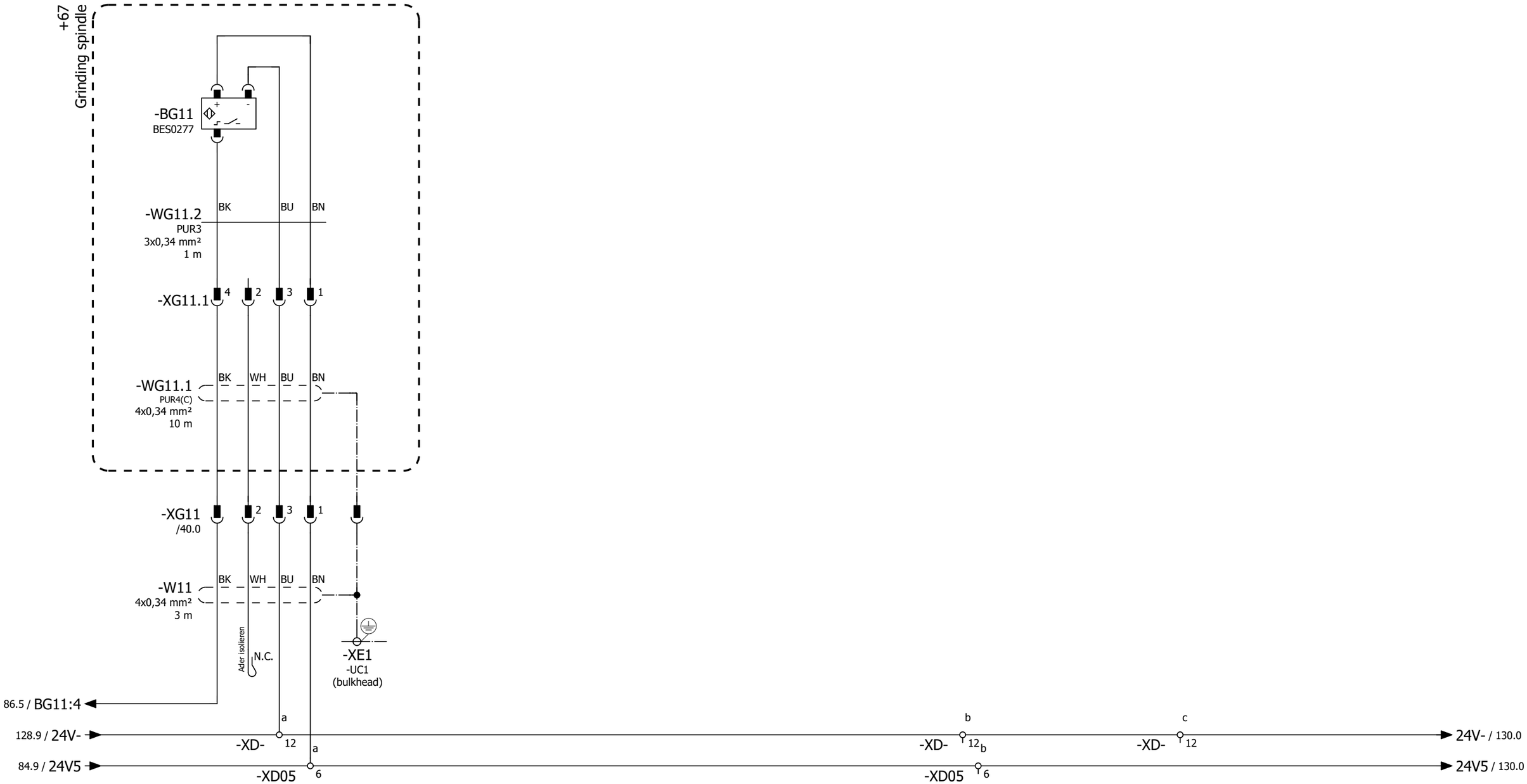
128

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	X4 axis, loading door	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 127
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Schirm beidseitig in Modulnähe an Montageplatte auflegen!
(Nähe Hutschienen-Modul als auch Nähe MoMo)
Schirmklemme: Weidmüller KLBÜ 3-8 SC

Place the screen on both sides near the module on mounting plate!
(Near DIN rail module as well as near MoMo)
Shielding terminals: Weidmüller KLBÜ 3-8 SC

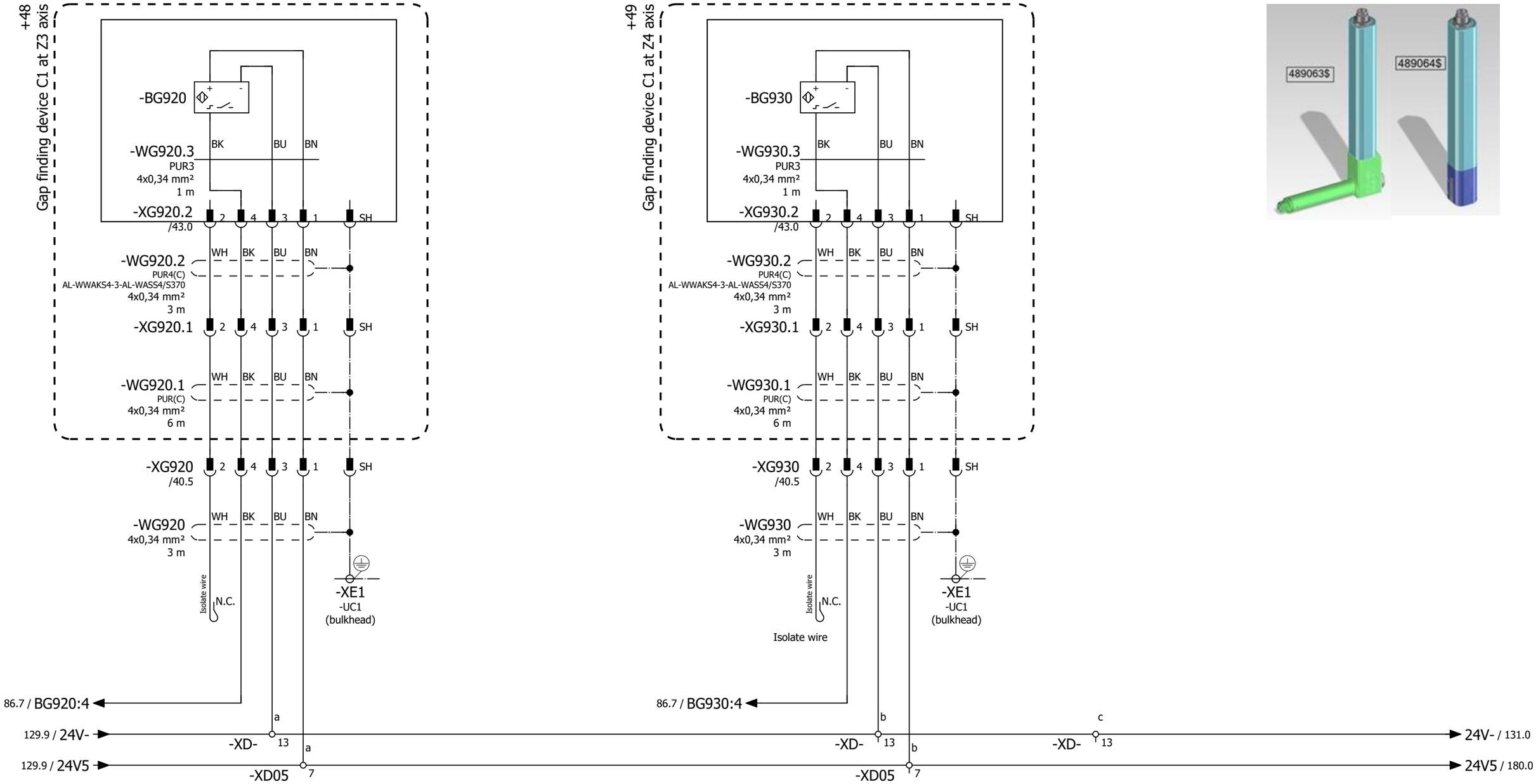


position
acceptance
grinding wheel

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	sensor orientation grinding wheel	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 129
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

Gap finding sensor Z3

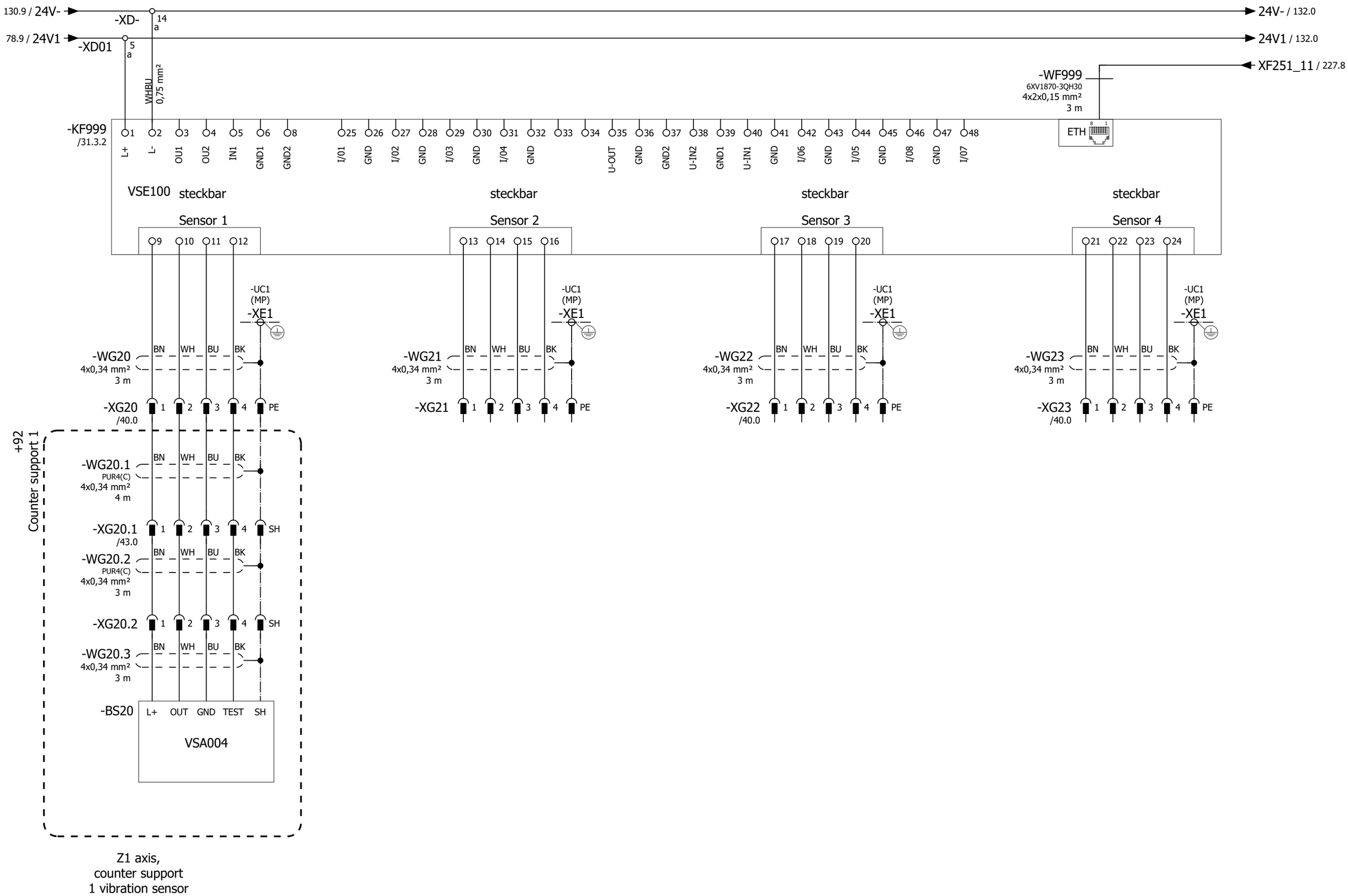
Gap finding sensor Z4



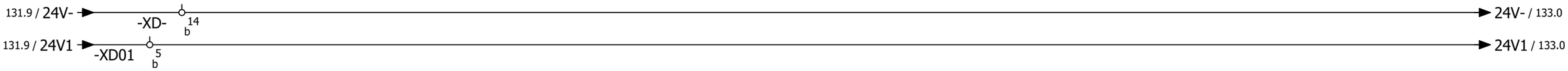
Detection
of gear gap
C1
sensor at Z3

Detection
of gear gap
C1
sensor at Z4

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Gap finding device	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 130
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IFM vibration sensor	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 131
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



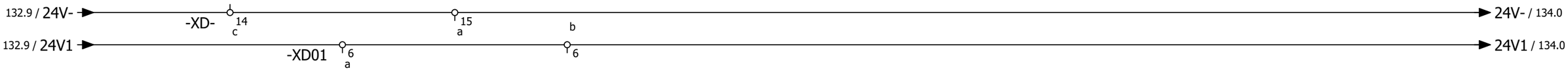
C1 axis,
fixed bearing
vibration sensor

Spare

Spare

Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IFM vibration sensor	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 132
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



C1 axis,
bearing
temperature monitoring

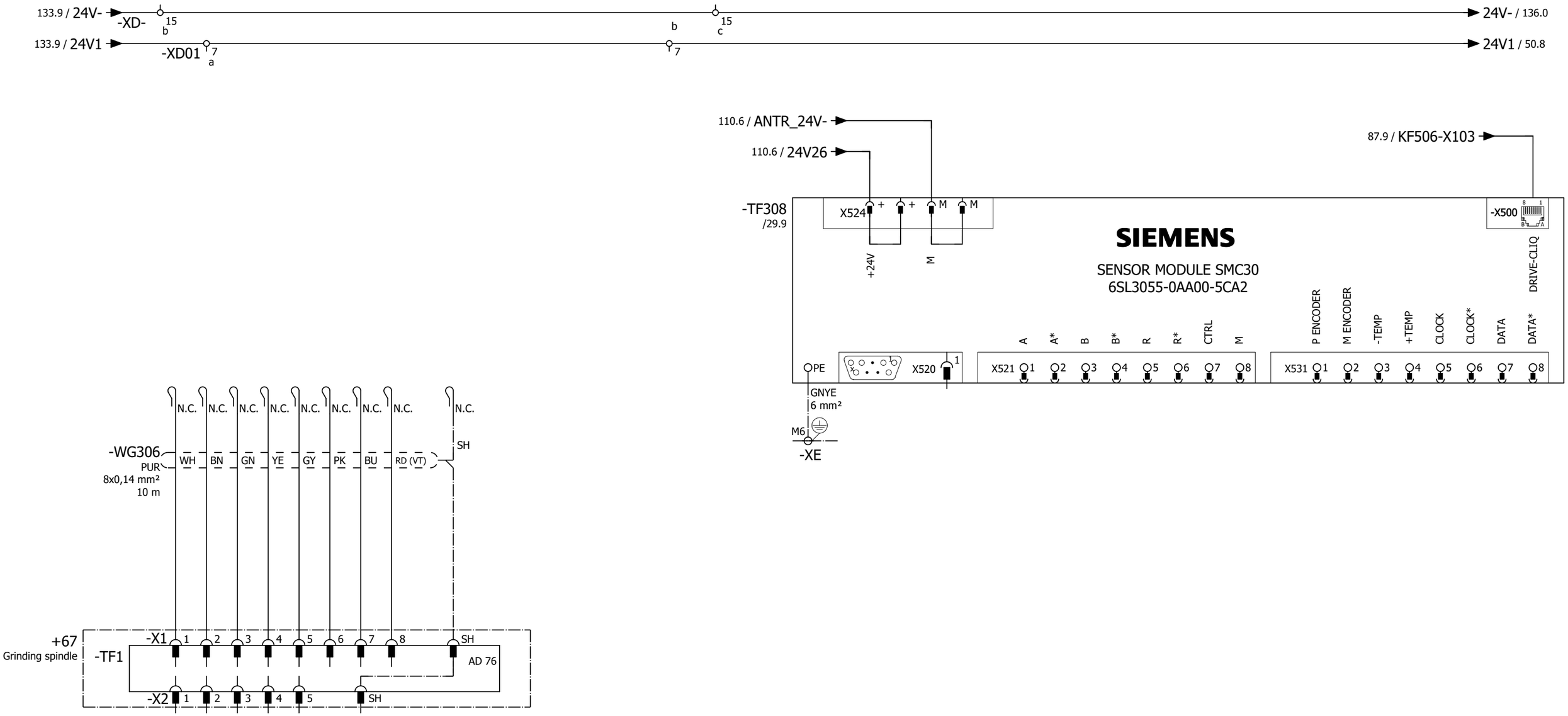
Spare

Spare

Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Temperature monitoring	433021
			edited by	Kusc_Nil				
			Checked					650.01.433021
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number

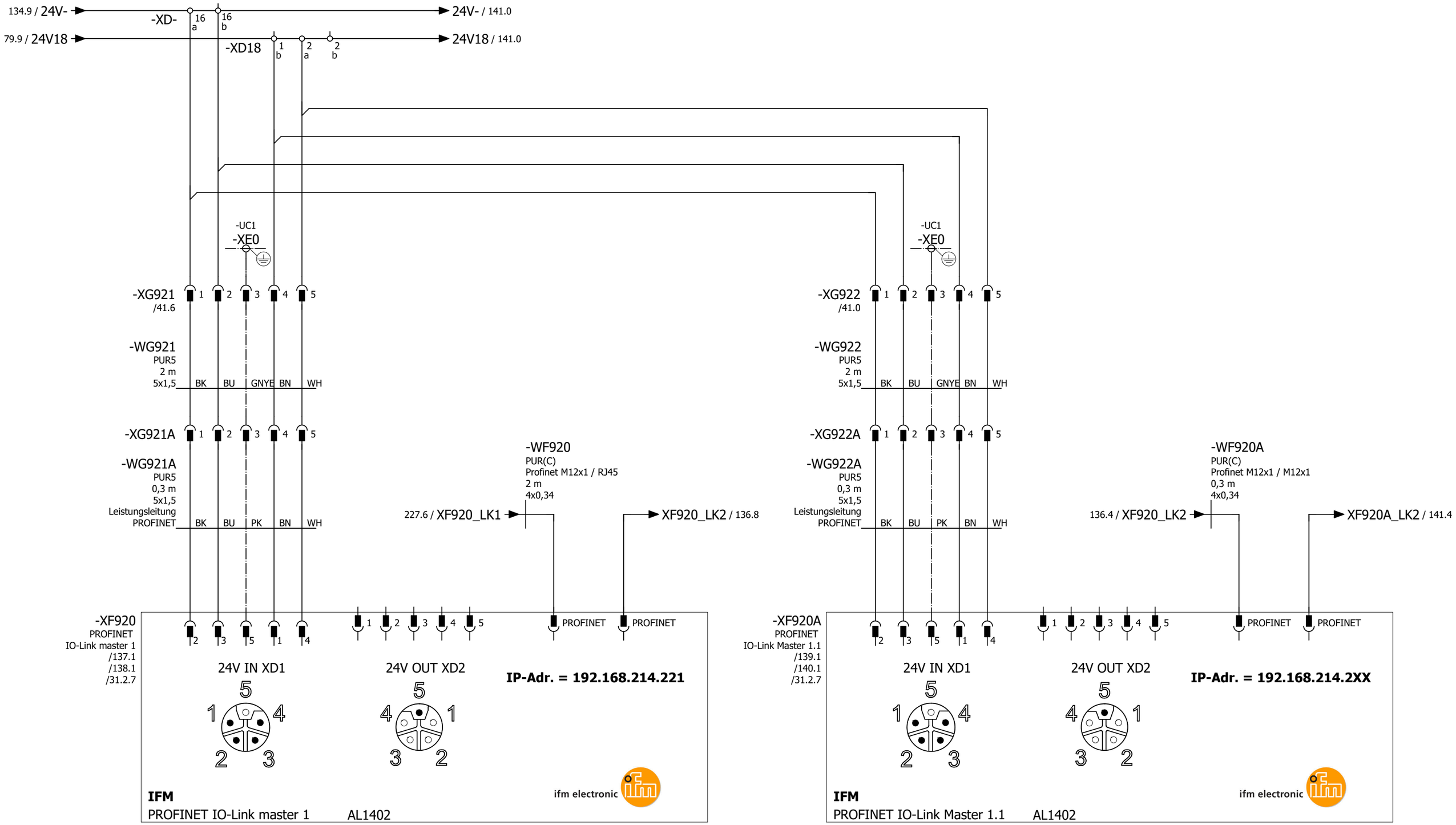
& E01
+ 10
page 133
from 230



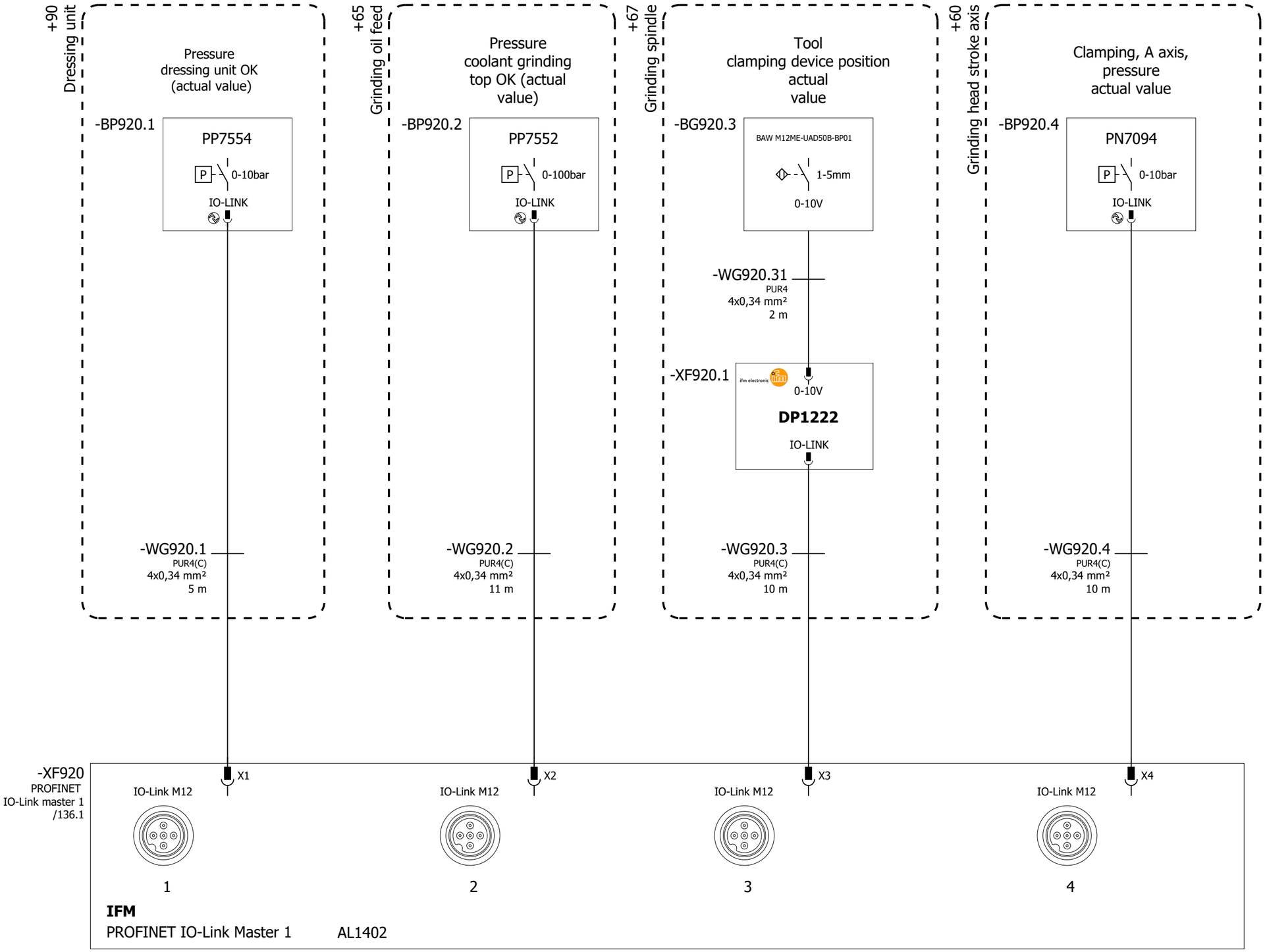
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	BLUM measuring device	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 134
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

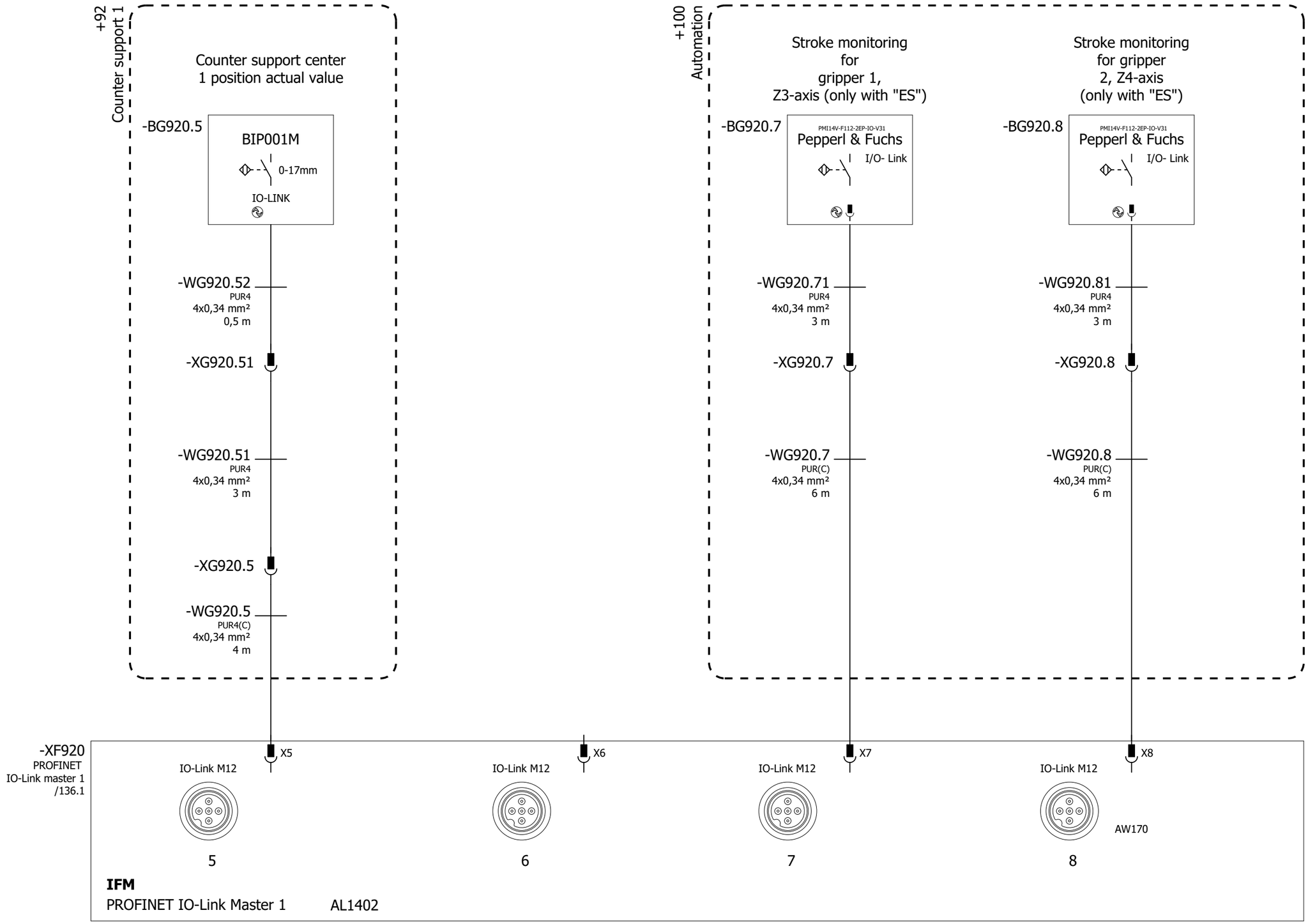
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Reserve (I/O link)	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 135
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



IO link master 1 functions machine



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 1 functions machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 137
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



137

139

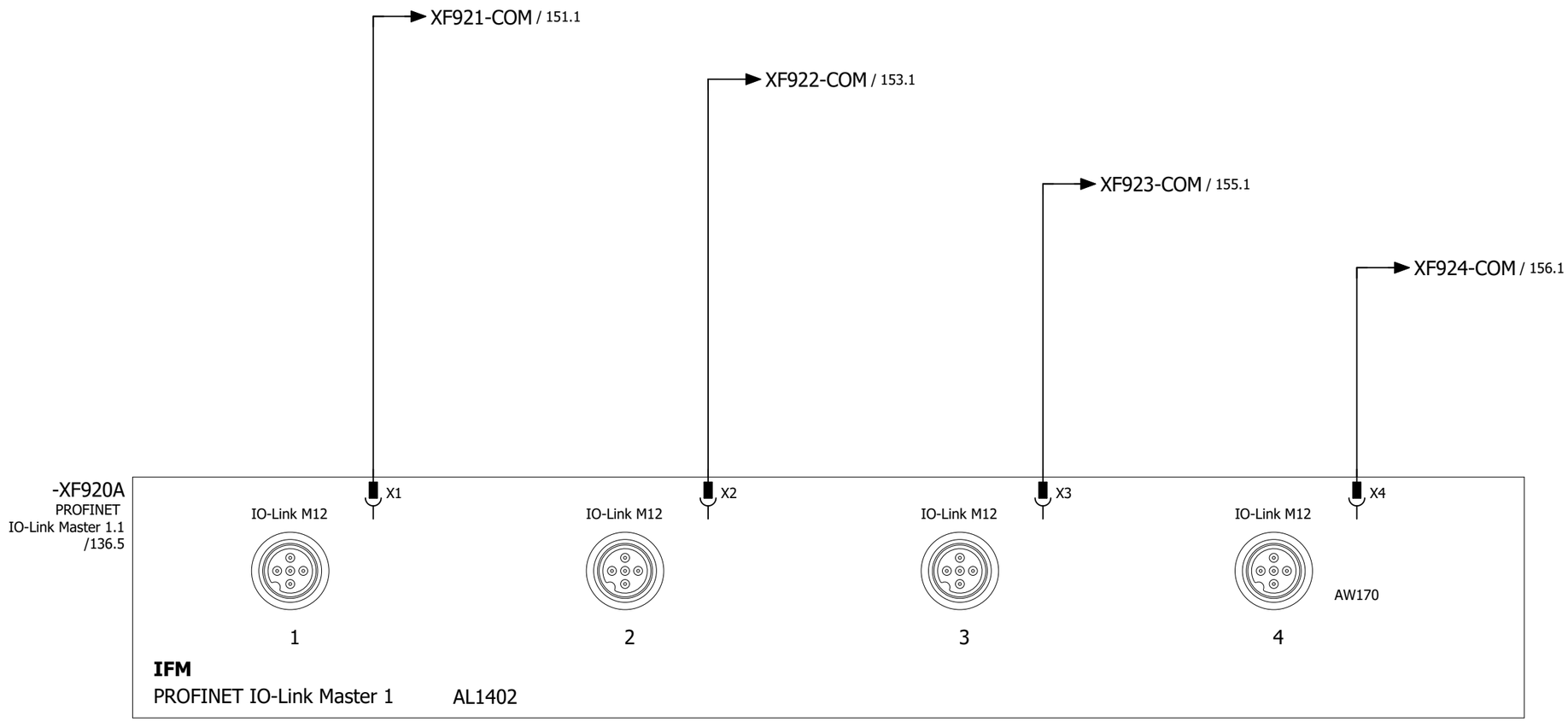
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 1 functions machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 138
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

IO link
sensor
stroke protective cover

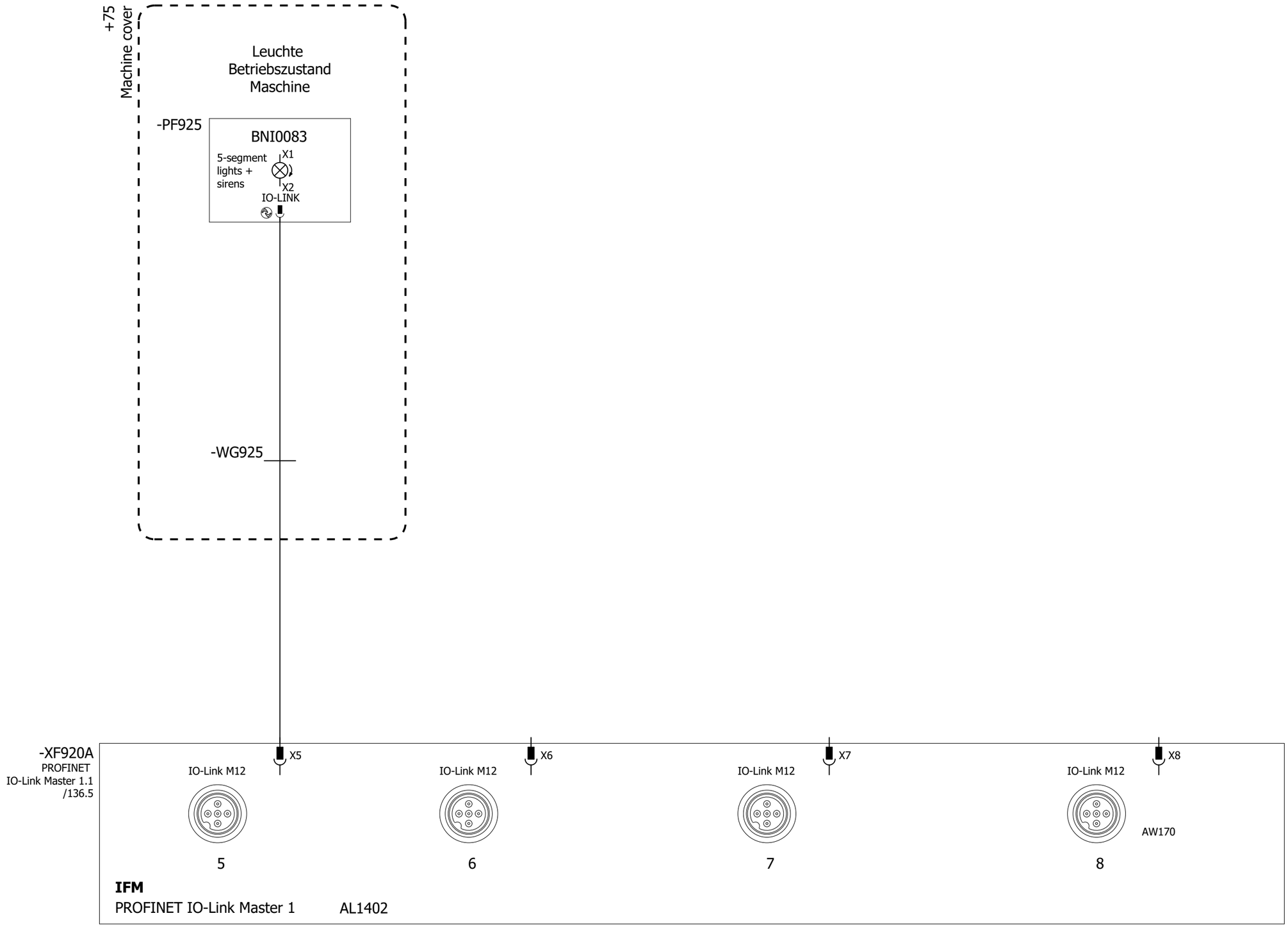
IO link
sensor
stroke Y axis

IO link
sensor
stroke Z3 axis

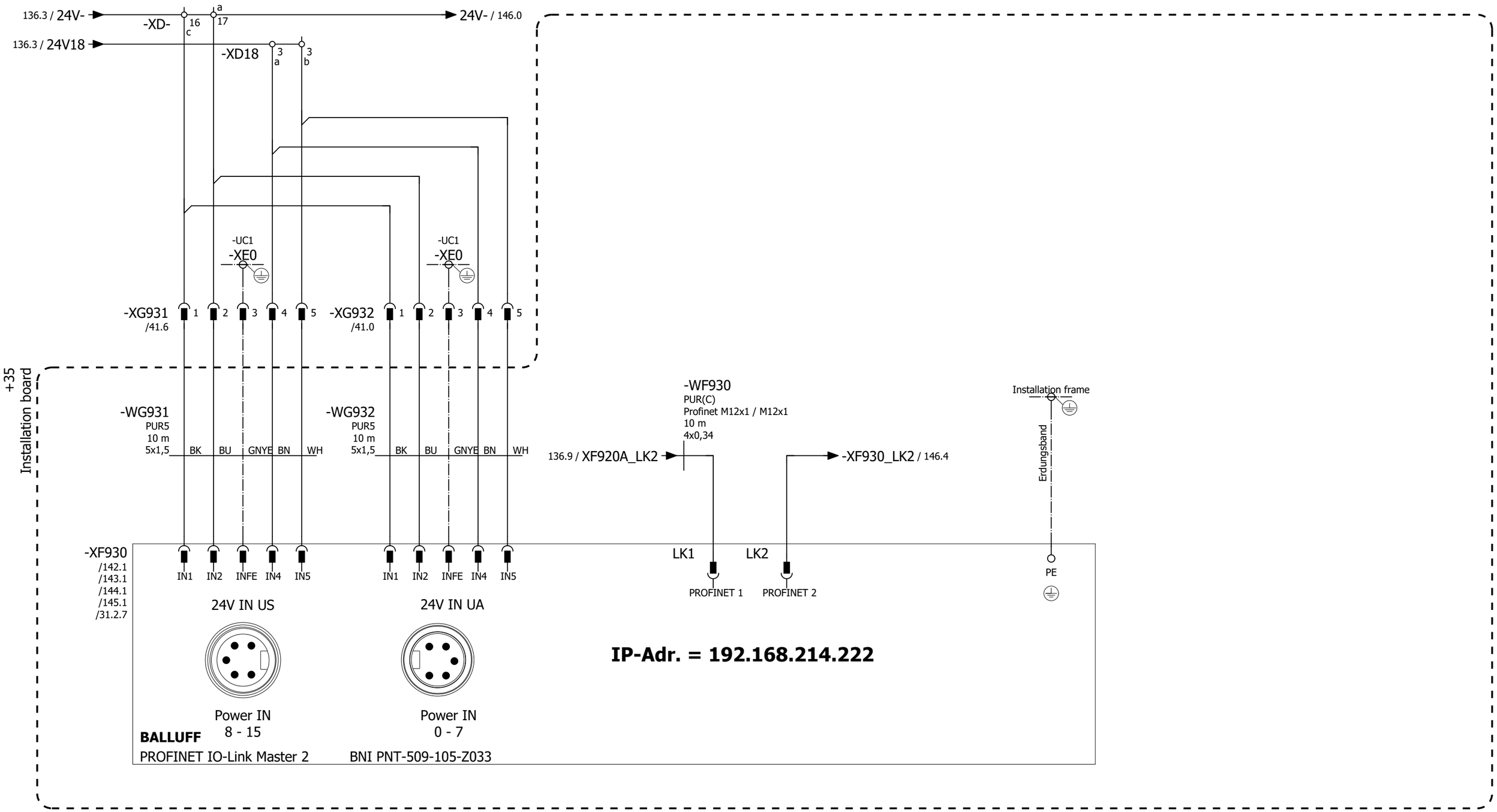
IO link
sensor
stroke Z4 axis



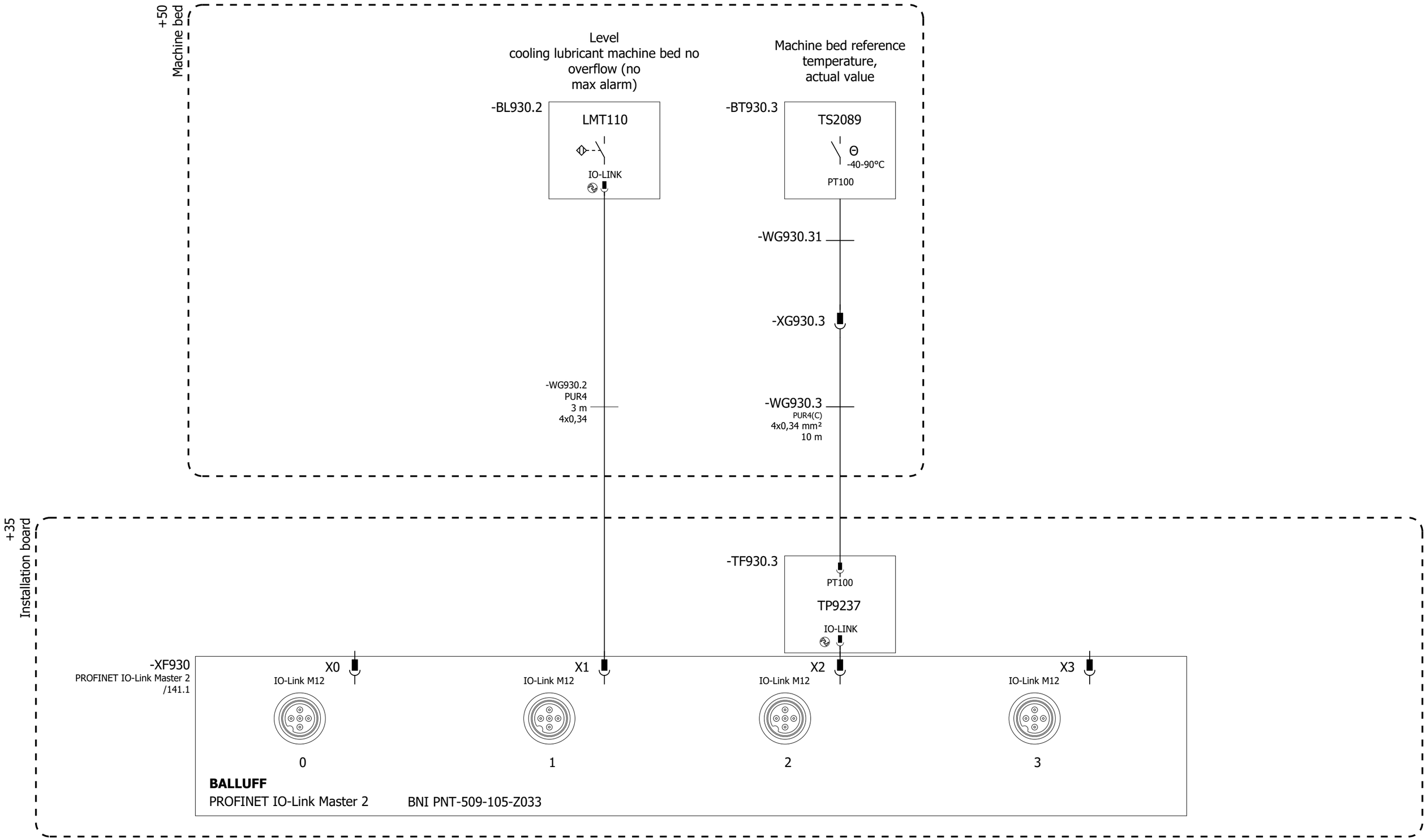
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 1 functions machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 139
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



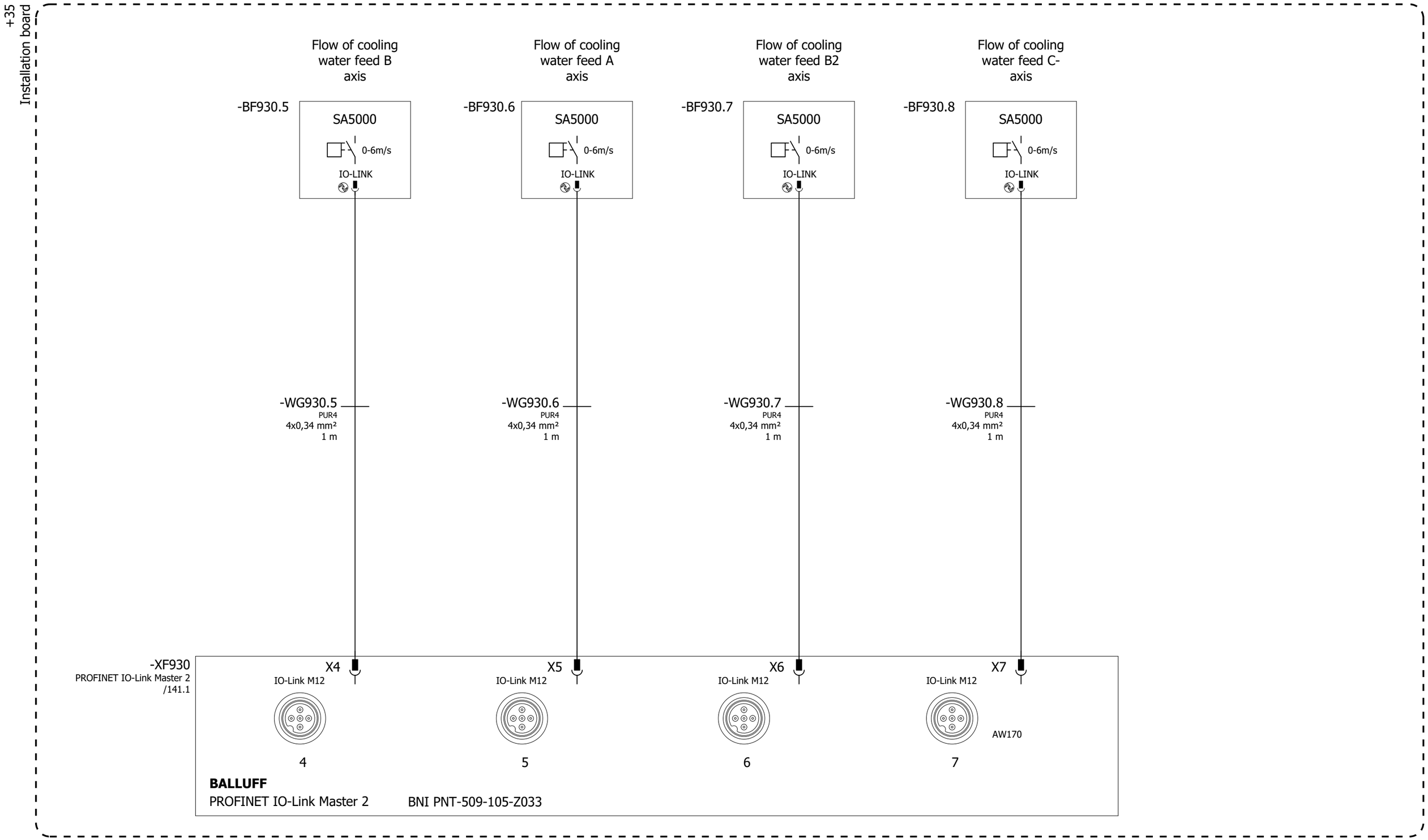
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 1 functions machine	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 140
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



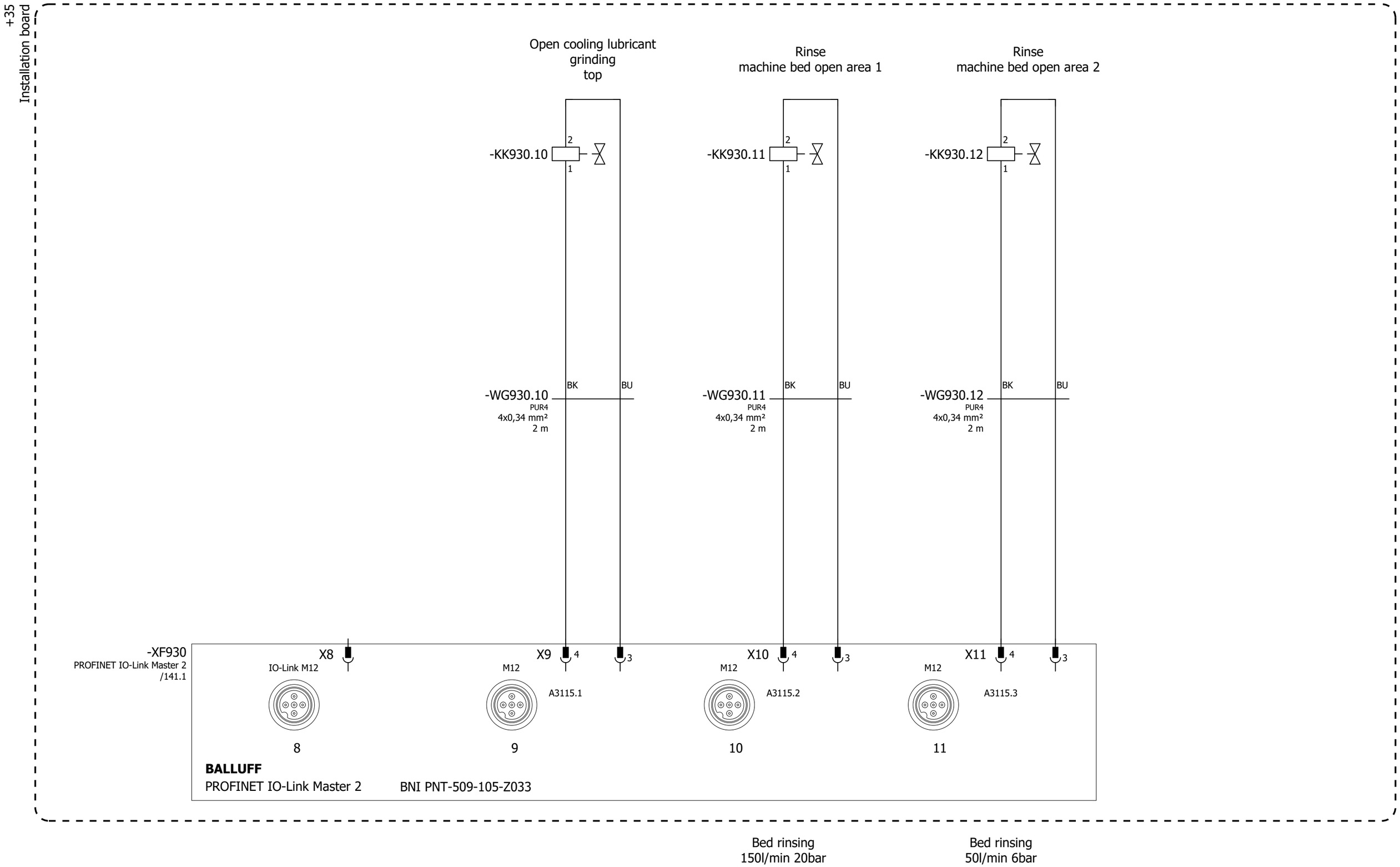
IO link master 2 cooling



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 2 cooling	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 142
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

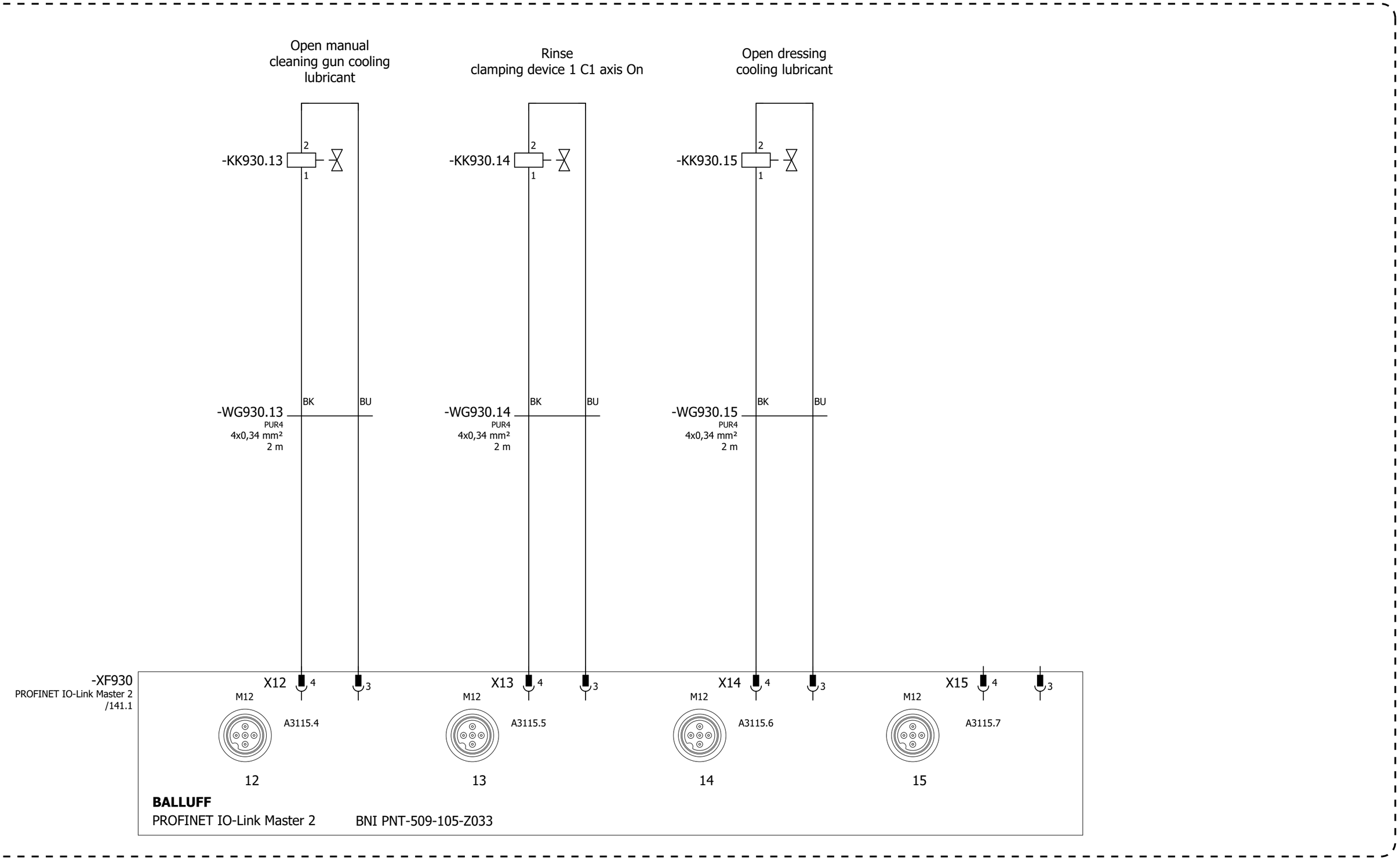


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 2 cooling	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 143
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

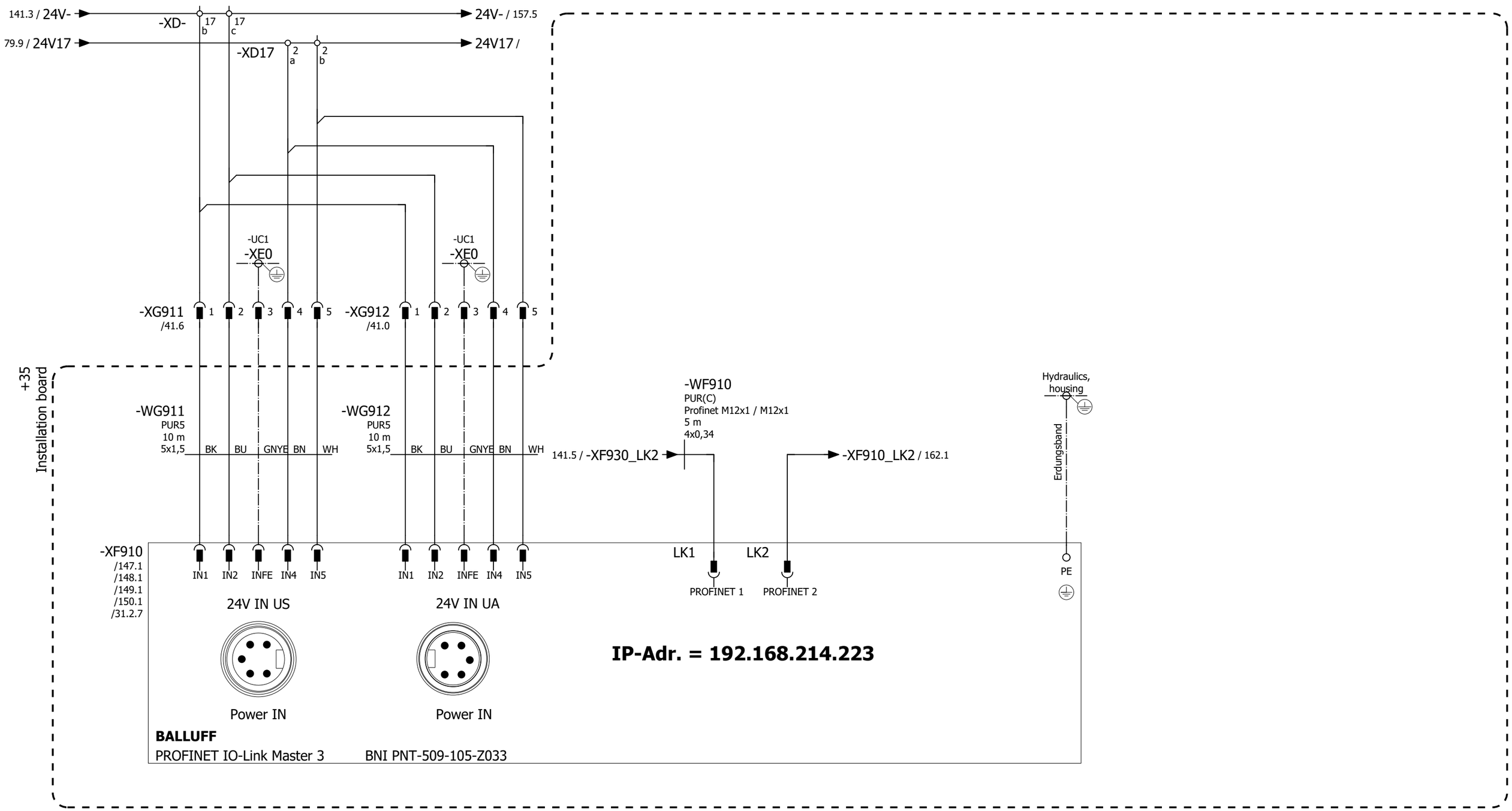


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 2 cooling	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 144
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

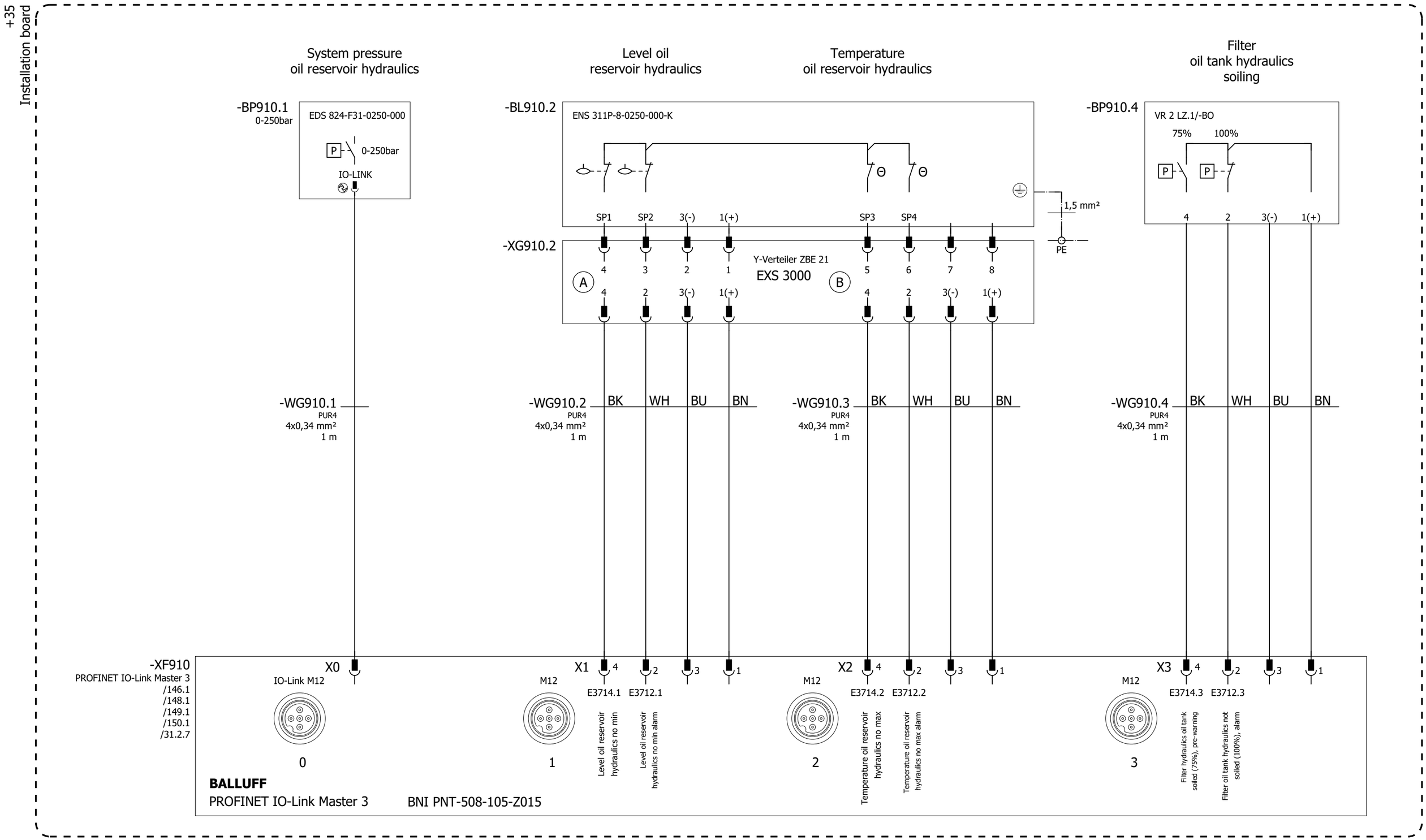
+35
Installation board



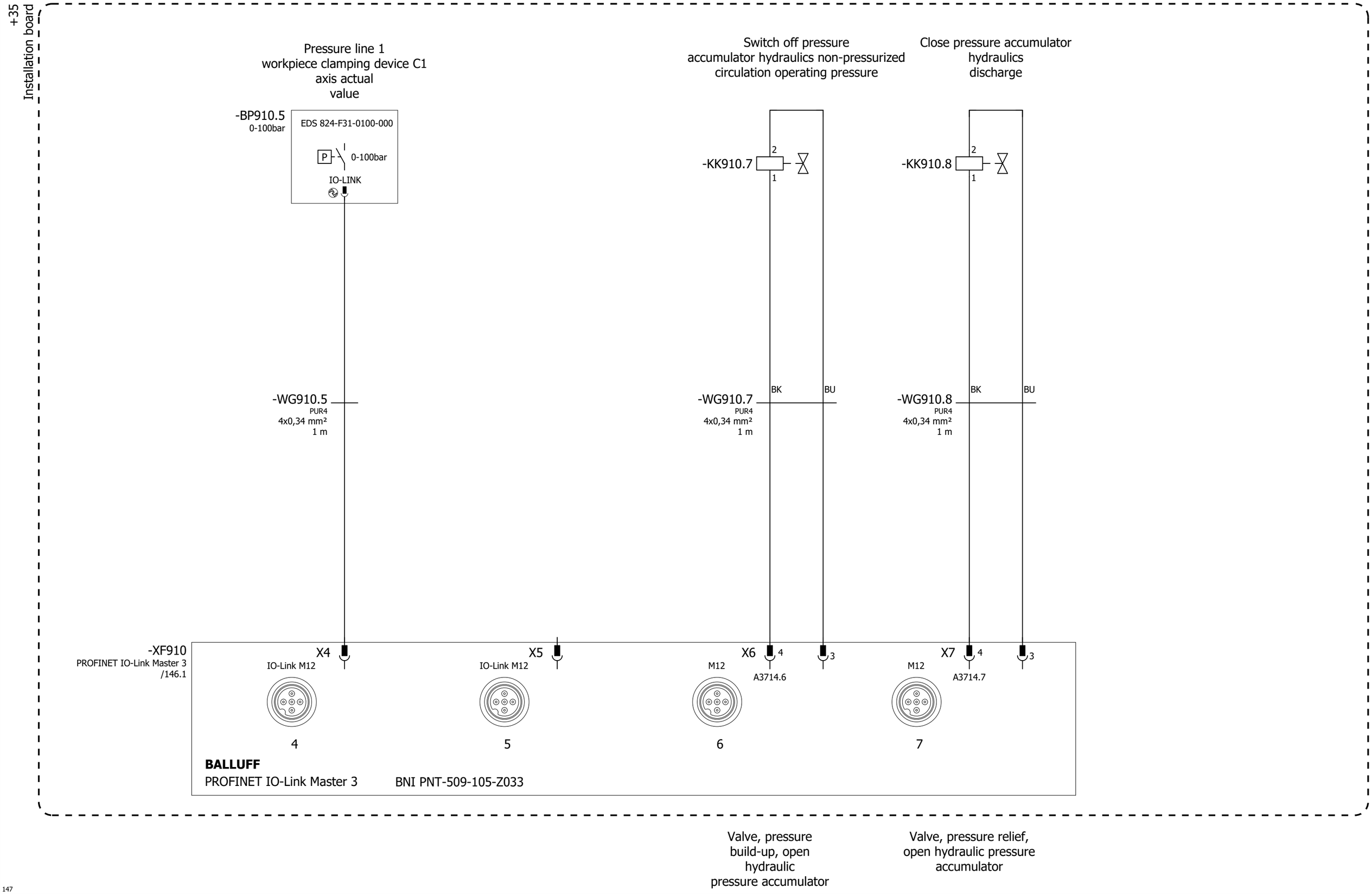
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 2 cooling	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 145
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



IO link master 3 hydraulics

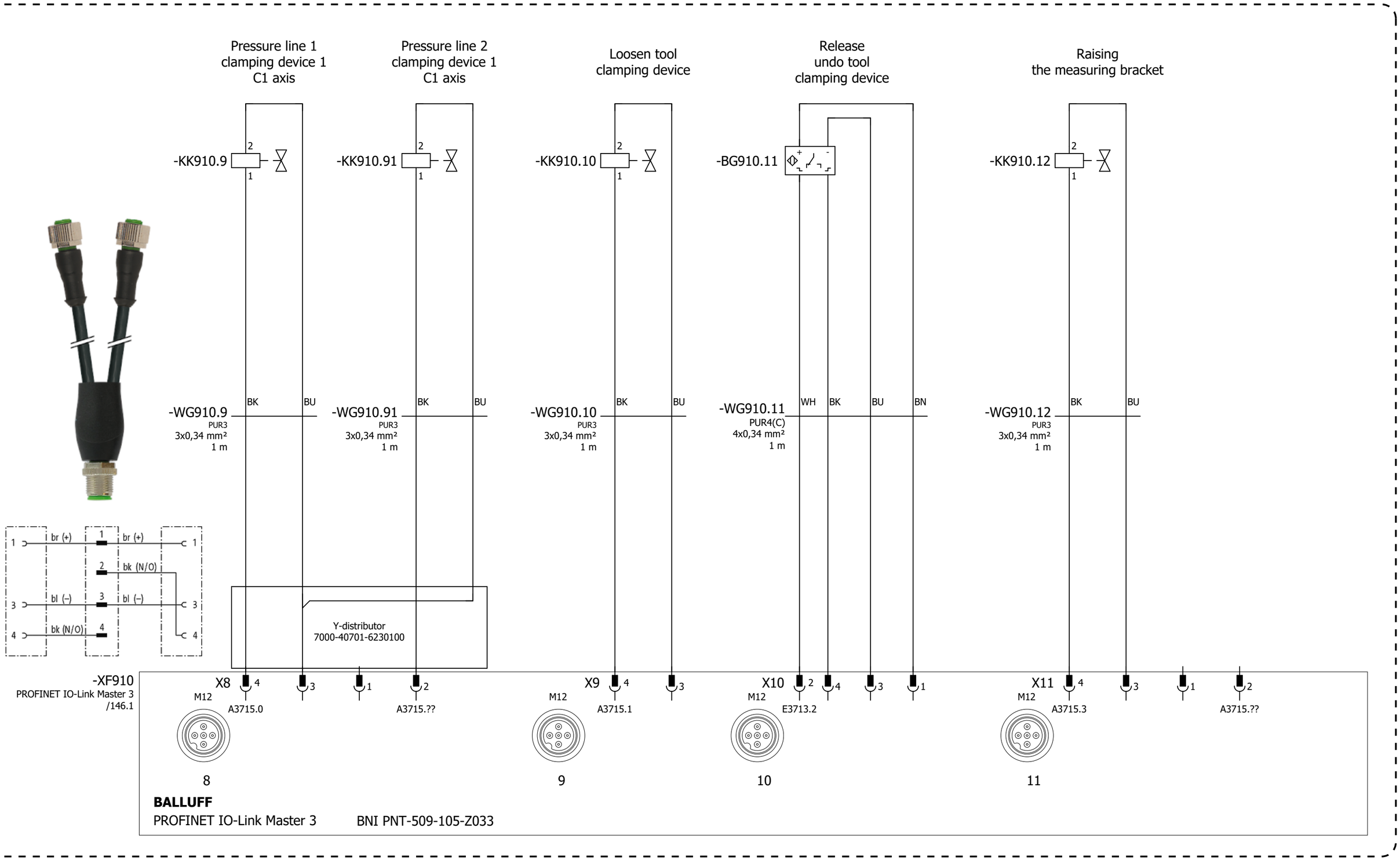


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 3 hydraulics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 147
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 3 hydraulics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 148
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+35
Installation board



148 150

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 3 hydraulics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 149
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+35
Installation board

Measuring device
after operating position

Measuring device
after resting position

Pressure line 2
workpiece clamping device
C1 axis
actual value

Head dressing unit to operating position

!!!WORT FEHLT!!!

-KK910.13 (2 / 1)

-KK910.131 (2 / 1)

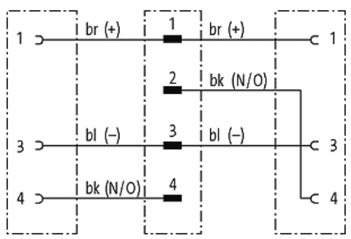
-BP910.14
0-100bar

EDS 824-F31-0100-000
P 0-100bar
IO-LINK

-KK603 (2 / 1)

-BG602.1
Freigabe
Kopfabrichter
in Arbeitsposition

Kolbenüberwachung des
sicheren Hydraulik Ventil
- KK602



-WG910.13 — BK, BU
PUR3
3x0,34 mm²
1 m

-WG910.131 — BK, BU
PUR3
3x0,34 mm²
1 m

-WG910.14
PUR4
4x0,34 mm²
1 m

-WG603 — BK, BU
PUR3
3x0,34 mm²
1 m

-WG602.1 — WH, BK, BU, BN
PUR4(C)
4x0,34 mm²
1 m

Y-distributor
7000-40701-6230100

-XF910
PROFINET IO-Link Master 3
/146.1

X12 M12 — 4, 3, 1, 2
X13 M12
X14 M12 — 4, 3 — A3715.6
X15 M12 — 2, 4, 3, 1 — E3713.7

12 13 14 15

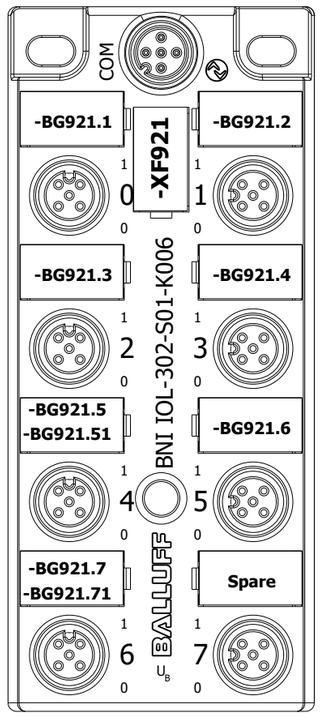
BALLUFF
PROFINET IO-Link Master 3 BNI PNT-509-105-Z033

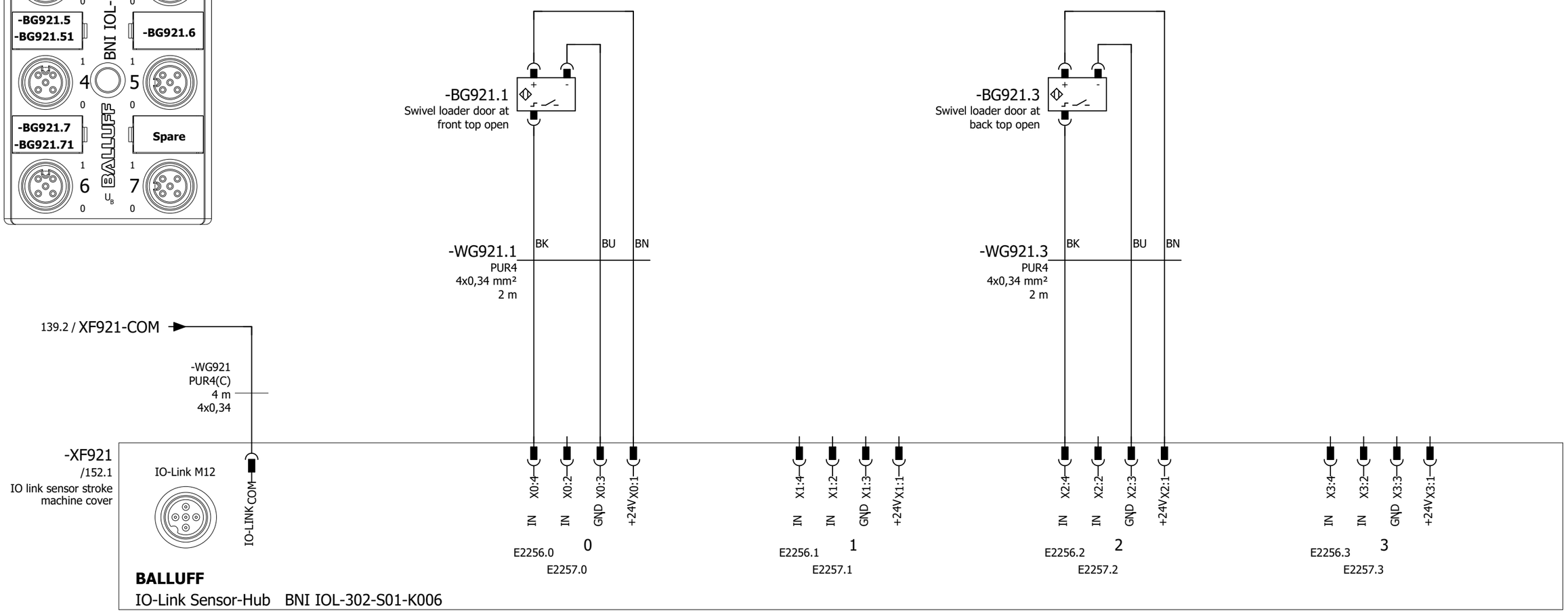
Measuring
bracket forwards

Measuring
bracket backwards

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link master 3 hydraulics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 150
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

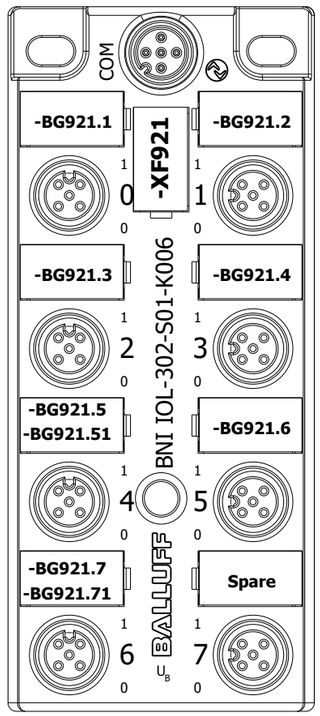
+75
Machine cover



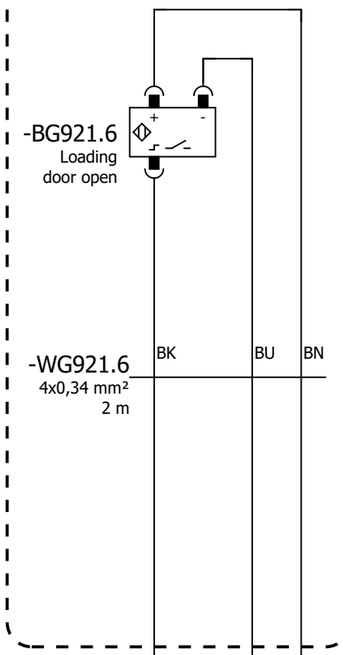


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke protective cover	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 151
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

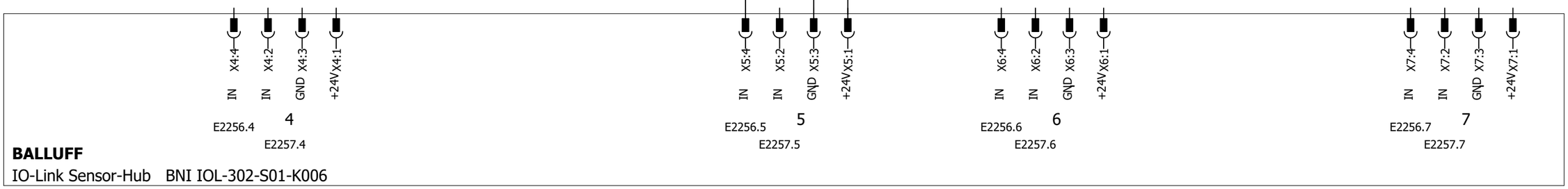
+75
Machine cover



+101
Intermediate storage



-XF921
/151.1
IO link sensor
stroke machine cover

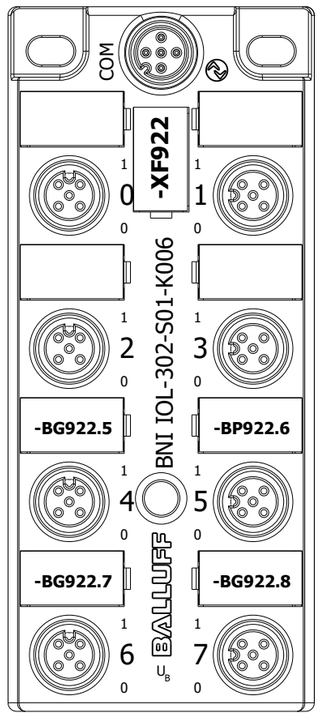


Spare | Spare | Loading door open | Spare | Spare

151 153

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke protective cover	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 152
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+68
Grinding spindle shift axis



139.4 / XF922-COM

-WG922
PUR4(C)
10 m
4x0,34

-XF922
/154.1
IO link sensor stroke
Y axis

IO-Link M12

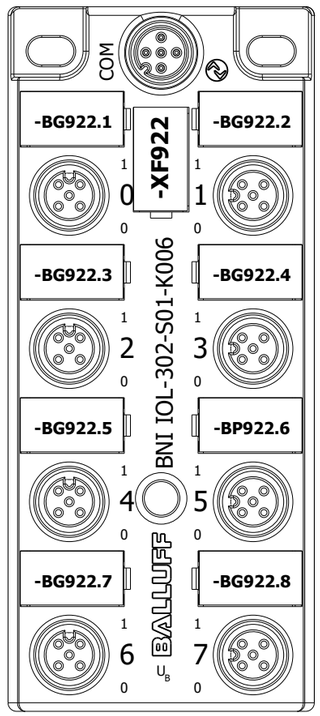
IO-LINK COM

BALLUFF
IO-Link Sensor-Hub BNI IOL-302-S01-K006

	0	1	2	3
	X0:4 IN	X1:4 IN	X2:4 IN	X3:4 IN
	X0:2 IN	X1:2 IN	X2:2 IN	X3:2 IN
	X0:3 GND	X1:3 GND	X2:3 GND	X3:3 GND
	X0:1 +24V	X1:1 +24V	X2:1 +24V	X3:1 +24V
	E2288.0	E2288.1	E2288.2	E2288.3
	E2289.0	E2289.1	E2289.2	E2289.3
	Measuring bracket latched	Measuring bracket raised	Measuring device in base position	Measuring device in operating position

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke Y axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 153
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+68
Grinding spindle shift axis



+65
Grinding oil feed

-BG922.5
Schleifscheibe
Freigabe
Drehen OK

-BP922.6
Lubrication
pressure OK

PN7092
P
4 3(-) 1

-BG922.7
Nozzle adjustment
at front

-BG922.8
Nozzle adjustment
at rear

-WG922.17
PUR3
3x0,34 mm²
1 m
BK BU BN
-XG922.7 4 3 1

-WG922.18
PUR3
3x0,34 mm²
1 m
BK BU BN
-XG922.8 4 3 1

-WG922.5
PUR3
3x0,34 mm²
0,6 m
BK BU BN

-WG922.6
PUR4
4x0,34 mm²
0,6 m
BK BU BN

-WG922.7
PUR4(C)
4x0,34 mm²
5 m
BK BU BN

-WG922.8
PUR4(C)
4x0,34 mm²
5 m
BK BU BN

-XF922
/153.1
IO link sensor
stroke Y axis

	IN	IN	GND	+24V
	X4:4	X4:2	X4:3	X4:1
	X5:4	X5:2	X5:3	X5:1
	X6:4	X6:2	X6:3	X6:1
	X7:4	X7:2	X7:3	X7:1
	E2288.4	E2288.5	E2288.6	E2288.7
	4	5	6	7
	E2289.4	E2289.5	E2289.6	E2289.7

BALLUFF
IO-Link Sensor-Hub BNI IOL-302-S01-K006

Tool clamping device in clamping position

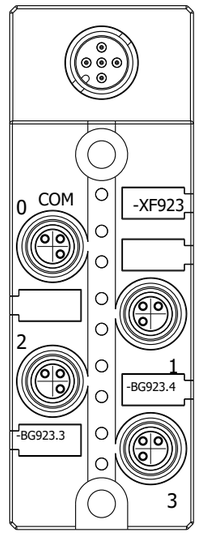
Pressure unit central lubrication grease OK

Position of cooling lubricant adjustment at front

Position of cooling lubricant adjustment at rear

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke Y axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 154
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+100
Automation



+48
Gap finding device C1 at Z3 axis

+48
Gap finding device C1 at Z3 axis

-BG923.3
Thread in workpiece 1, gap finding sensor operating position reached

-BG923.4
Thread in workpiece 1, gap finding sensor base position reached

139.5 / XF923-COM

-WG923.3
PUR3
3x0,34 mm²

-WG923.4
PUR3
3x0,34 mm²

BK BU BN

-WG923
PUR(C)
4x0,34 mm²
6 m

-XG923

-WG923.1
PUR4(C)
4x0,34 mm²
2 m

-XF923

IO-Link M12

IO-LINK COM

IN X0:4 | GND X0:3 | +24V X0:1 — 0 — E 2320.0

IN X1:4 | GND X1:3 | +24V X1:1 — 1 — E 2320.1

IN X2:4 | GND X2:3 | +24V X2:1 — 2 — E 2320.2

IN X3:4 | GND X3:3 | +24V X3:1 — 3 — E 2320.3

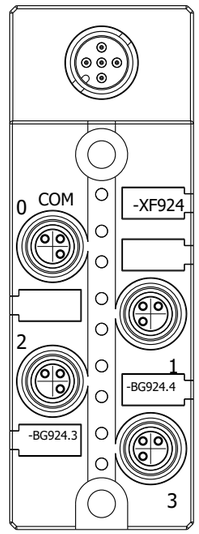
BALLUFF
IO-Link Sensor-Hub BNI IOL-101-S01-K018

Gap finding device 1
Z3 axis in
operating position

Gap finding device 1
Z3 axis in
base position

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke Z3 axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 155
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+100
Automation



+49
Gap finding device C1 at Z4 axis

-BG924.3
Thread in workpiece 2, gap finding sensor operating position reached

+49
Gap finding device C1 at Z4 axis

-BG924.4
Thread in workpiece 2, gap finding sensor base position reached

139.7 / XF924-COM

-WG924
PUR(C)
4x0,34 mm²
6 m

-XG924

-WG924.1
PUR4(C)
4x0,34 mm²
2 m

-XF924

IO-Link M12

IO-LINK COM

	-BG924.3	-BG924.4
	BK	BU	BN	BK	BU	BN
-WG924.3 PUR3 3x0,34 mm²						
-WG924.4 PUR3 3x0,34 mm²						

	0	1	2	3
IN	X0:4	X1:4	X2:4	X3:4
GND	X0:3	X1:3	X2:3	X3:3
+24V	X0:1	X1:1	X2:1	X3:1
	E 2352.0	E 2352.1	E 2352.2	E 2352.3

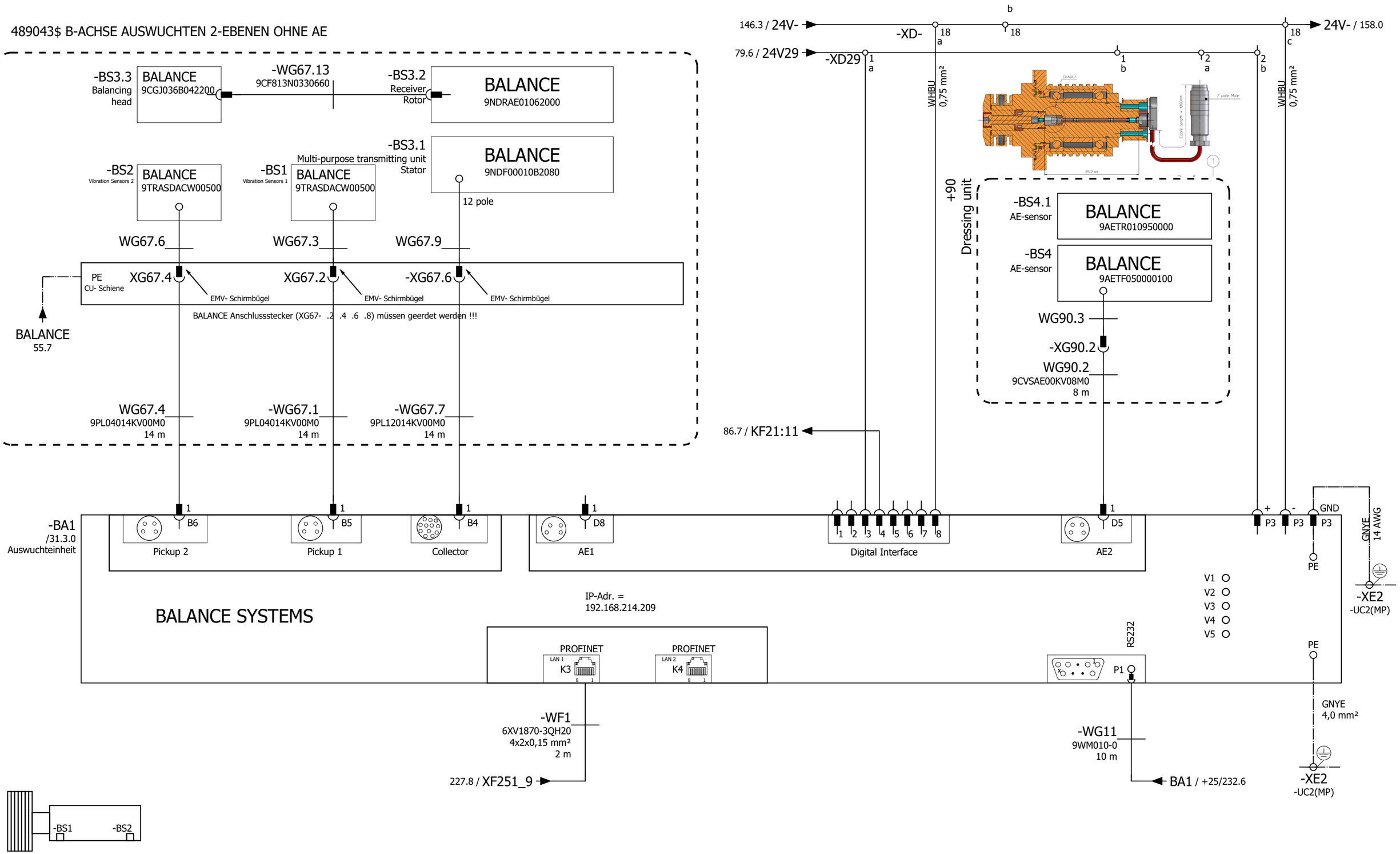
BALLUFF
IO-Link Sensor-Hub BNI IOL-101-S01-K018

Gap finding device 2
Z4 axis in
operating position

Gap finding device 2
Z4 axis in
base position

155 157

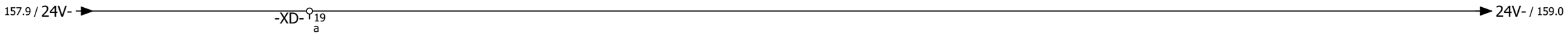
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	IO link stroke Z4 axis	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 156
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Balance module
Balancing

Process monitoring
Touch-grind

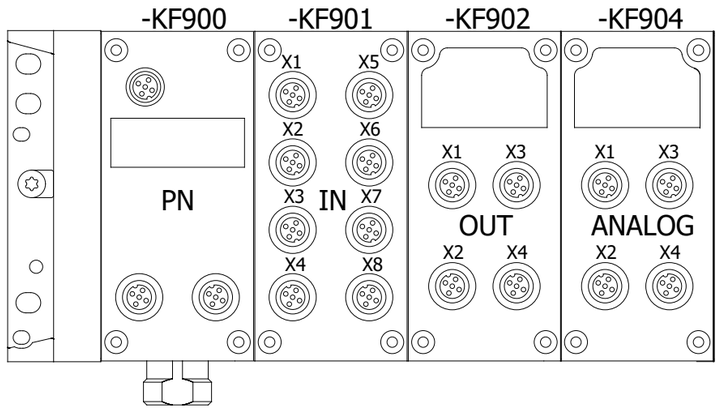
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	balancing unit	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 157
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

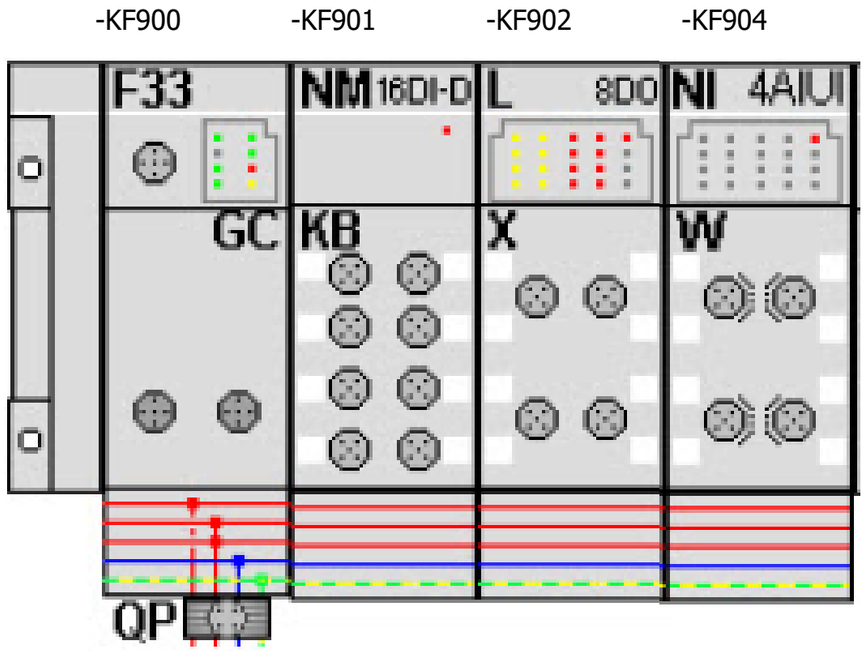


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Flow monitor, grinding oil	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 158
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Flow monitor, dressing oil	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 159
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

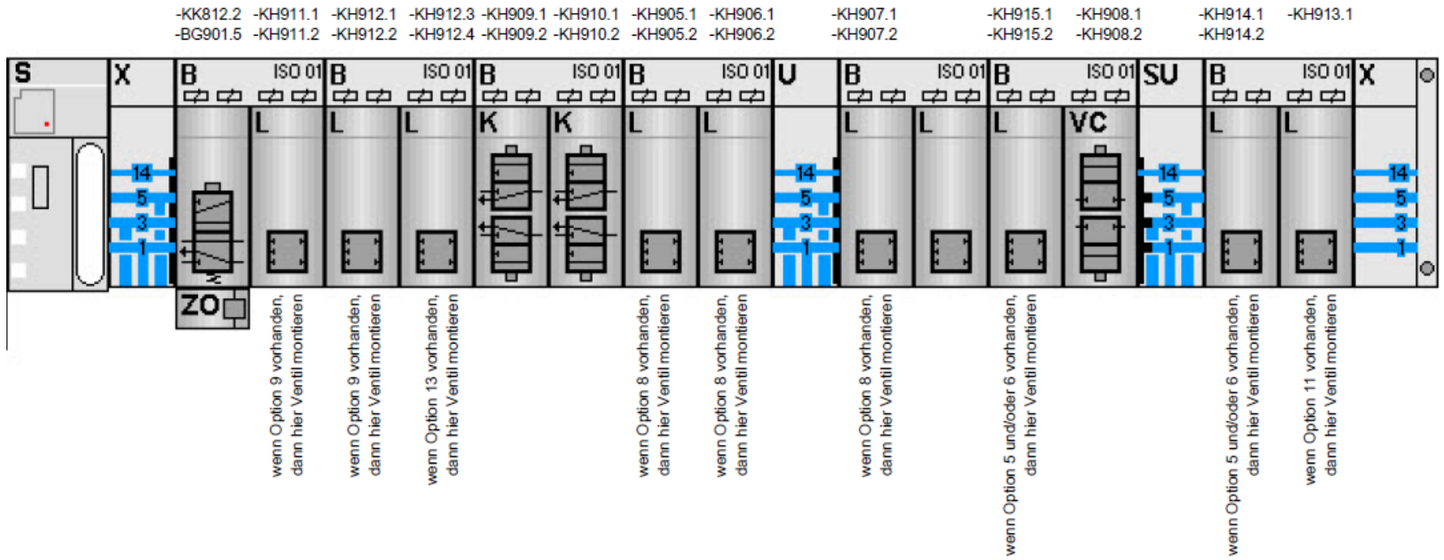
Overview of I/O modules pneumatics



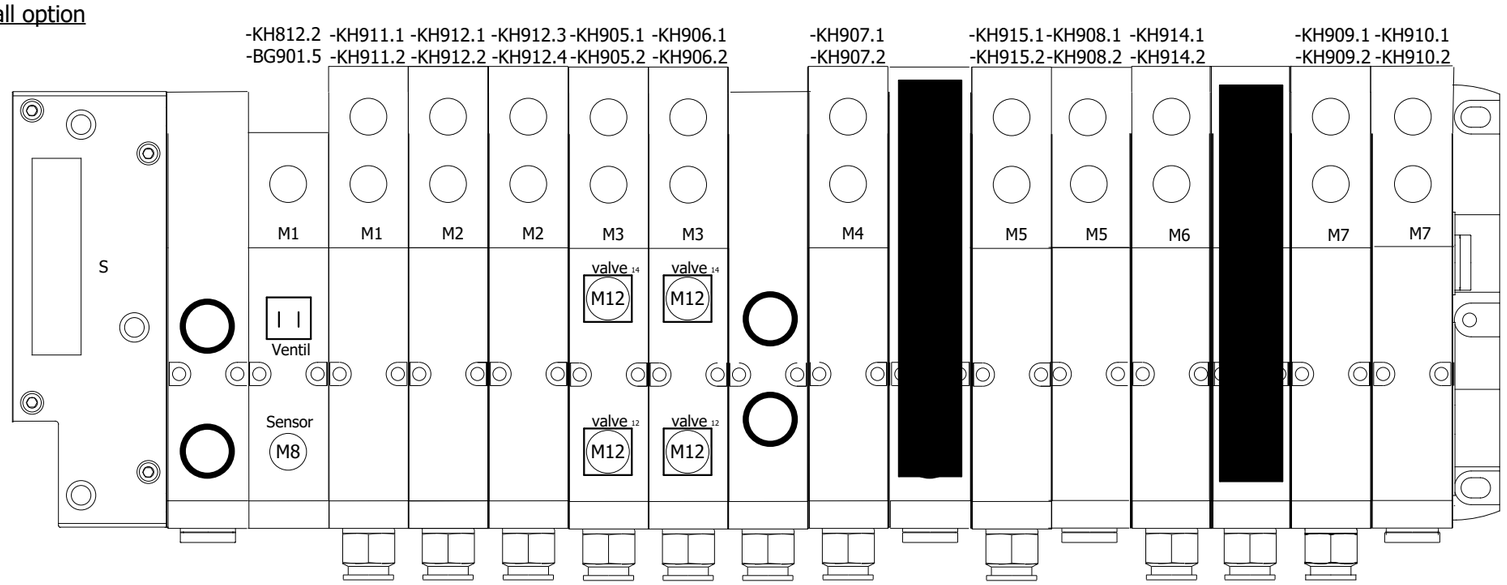


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of I/O modules pneumatics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 160
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

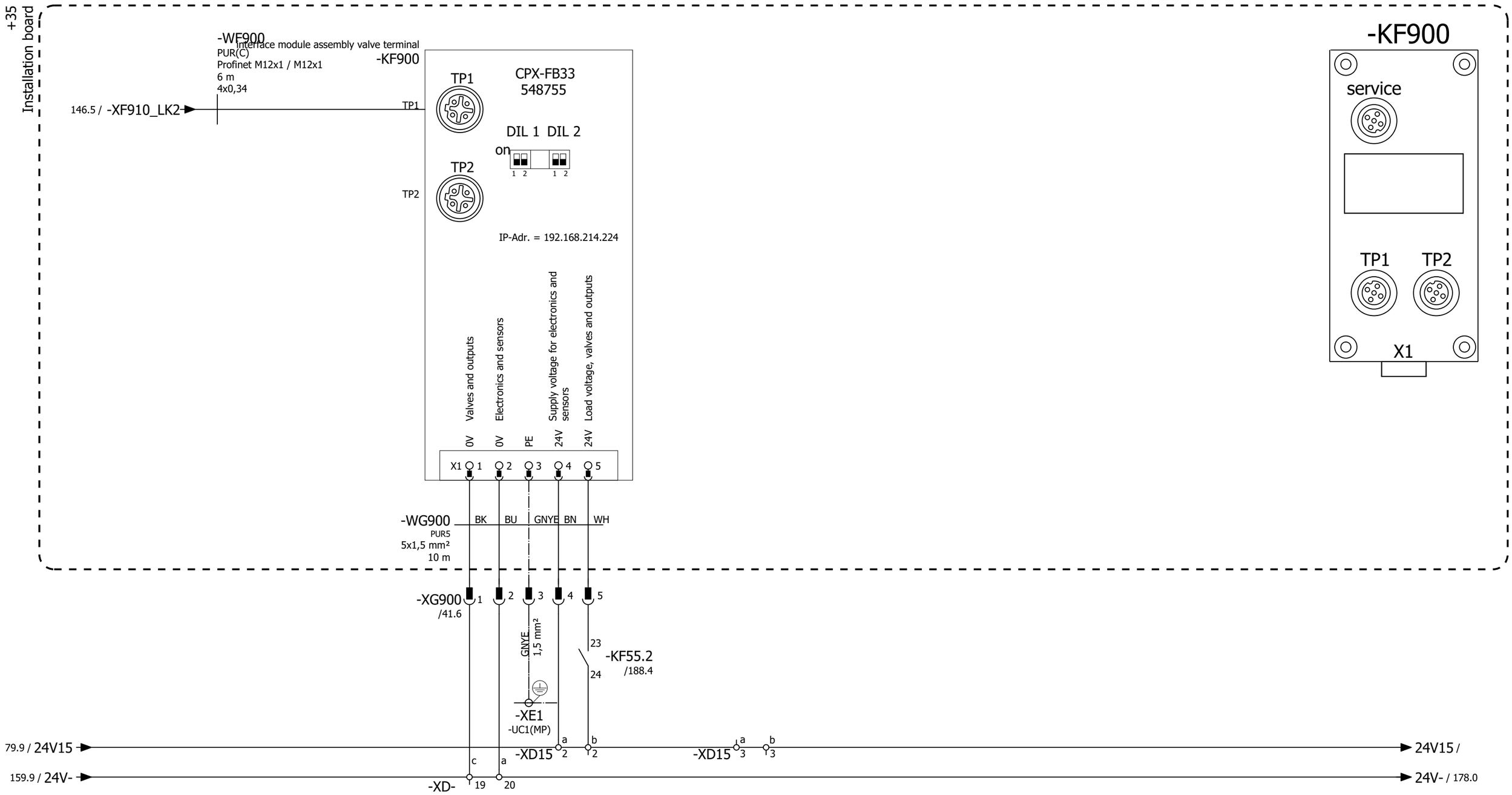
Overview of pneumatic system valve terminal



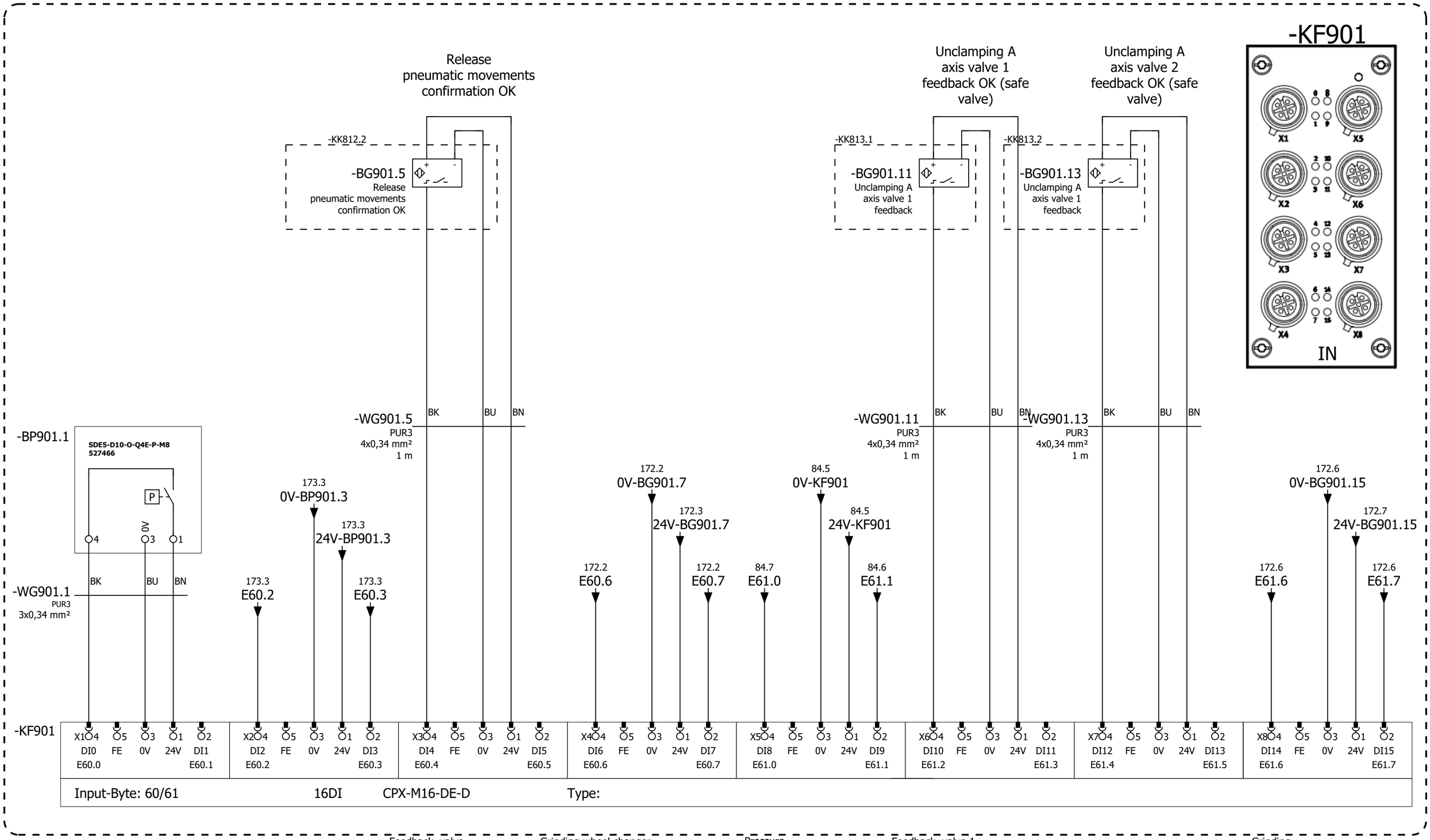
Overview with all option



Valve 1	-KK812.2	-KH911.1	-KH912.1	-KH912.3	-KH905.1 -KH905.2	-KH906.1 -KH906.2		-KH907.1		-KH915.1	-KH908.1	-KH914.1		-KH909.1	-KH910.1	
Coil 1 = 14 --->	**OUTSE 3.3**	**A62.2**	**A62.4**	**A62.6**	**OUTSE 5.1**	**OUTSE 7.3**		**A63.4**		**A64.0**	**A64.2**	**A64.4**		**A65.0**	**A65.2**	
Coil 2 = 12 --->					**OUTSE 6.2**	**OUTSE 8.4**										
Valve 2		-KH911.2	-KH912.2	-KH912.4				-KH907.2		-KH915.2	-KH908.2	-KH914.2		-KH909.2	-KH910.2	
Coil 1 = 14 --->		**A62.3**	**A62.5**	**A62.7**				**A63.5**		**A64.1**	**A64.3**	**A64.5**		**A65.1**	**A65.3**	
Coil 2 = 12 --->																
Sensor -->	-BG901.5															
Sensor -->	**E60.4**															



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Profinet activation I/O modules pneumatics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 162
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

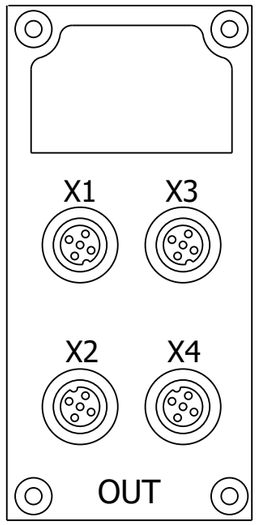


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics digital input module E60.0 - E61.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 163
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+35
Installation board

-KF902

Output-Byte: 60	15-30VDC	8DO/0,25A	CPX-8DA	Type:
DO0 N.C. 0V FE DO1 A60.0 A60.1 X1 4 1 3 5 2	DO2 N.C. 0V FE DO3 A60.2 A60.3 X2 4 1 3 5 2	DO4 N.C. 0V FE DO5 A60.4 A60.5 X3 4 1 3 5 2	DO6 N.C. 0V FE DO7 A60.6 A60.7 X4 4 1 3 5 2	

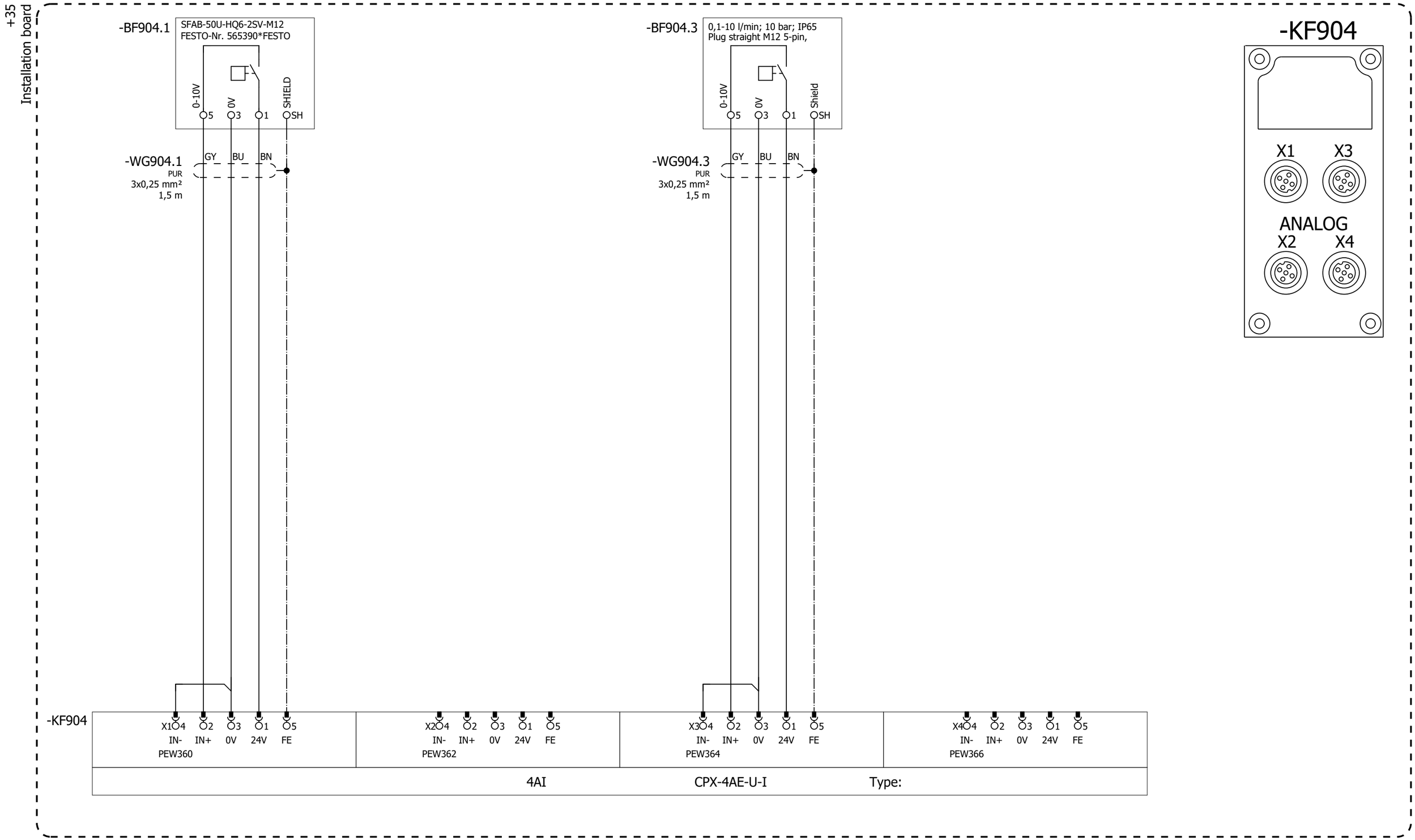


-WG812.1
PUR4
4x0,34 mm²
1 m
BK
BU

-KK812.1
1
2

Pneumatics main pressure On	Spare	Spare	Spare	Spare	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics digital output module A60.0 - A60.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 164
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Air gap
workpiece C1 axis actual
value

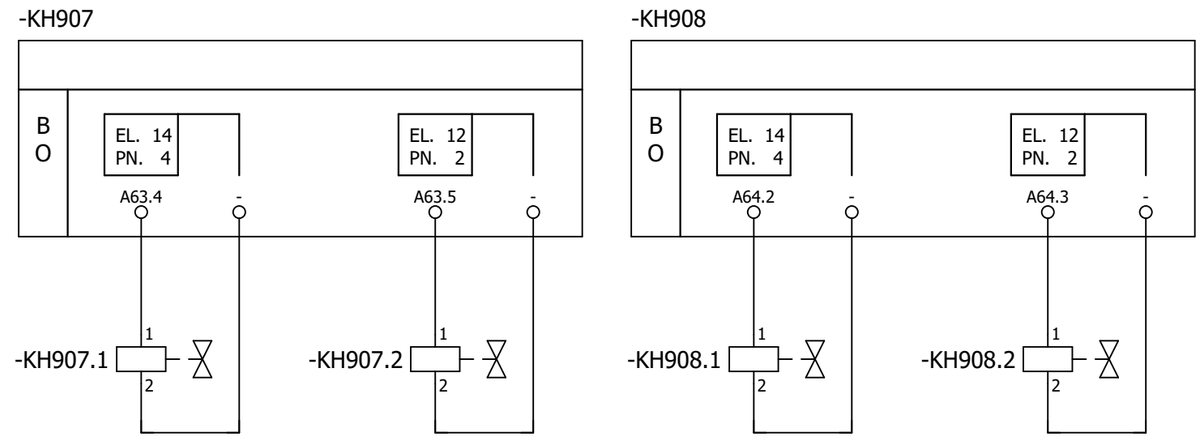
Spare

Flow pneumatics
actual
value

Spare

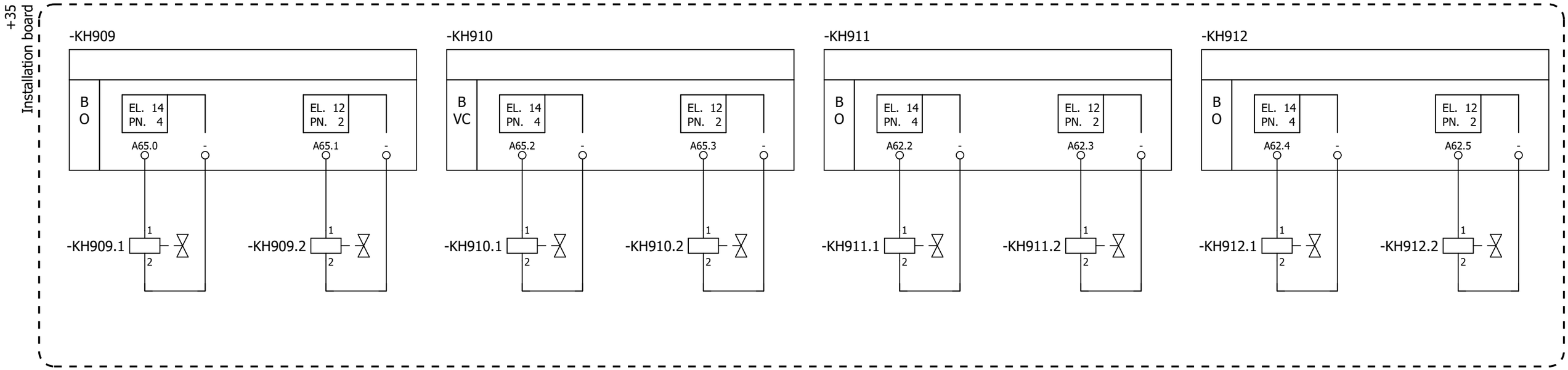
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics analog input module PEW360 - PEW366	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 165
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+35
Installation board



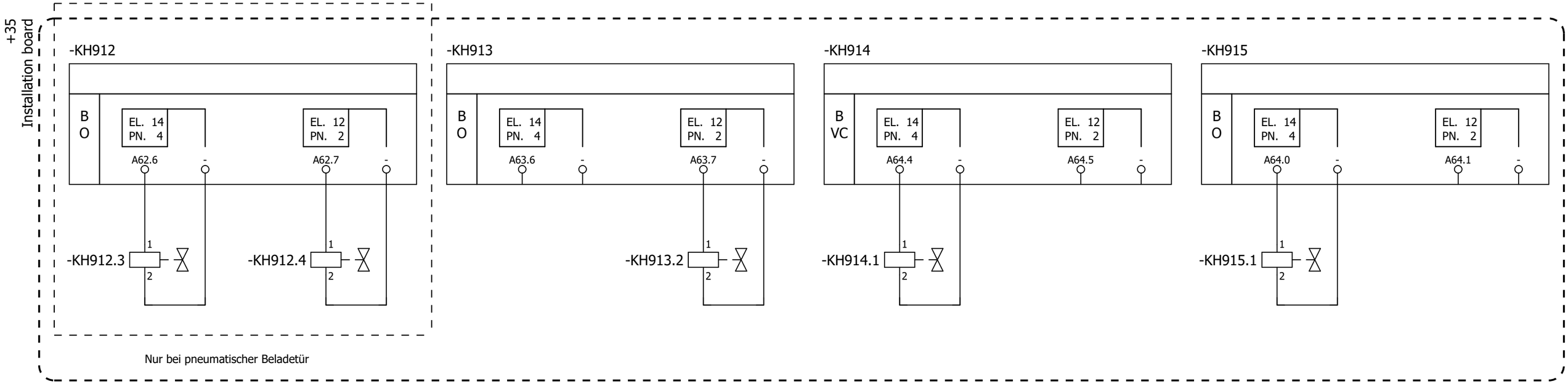
Limit position Z3 axis cleaning On	Limit position Z4 axis cleaning On	Gap finding sensor Z3 axis cleaning On	Gap finding sensor Z4 axis cleaning On

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics digital output module KH905 - KH908	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 166
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Gap finding device 1 Z3 axis to operating position	Gap finding device 1 Z3 axis to base position	Gap finding device 2 Z4 axis to operating position	Gap finding device 2 Z4 axis to base position	Open swivel loader door at front	Close swivel loader door at front	Open swivel loader door at back	Close swivel loader door at back

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics digital output module KH909 - KH912	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 167
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Open loading door	Close loading door	Spare	Close shut-off valve of oil mist collector
Nur bei pneumatischer Beladetür			Option

Air gap control 1 workpiece C1 axis On	Spare	Air gap control 1 workpiece, clean C1 axis

Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	I/O modules pneumatics digital output module KH913 - KH916	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 168
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

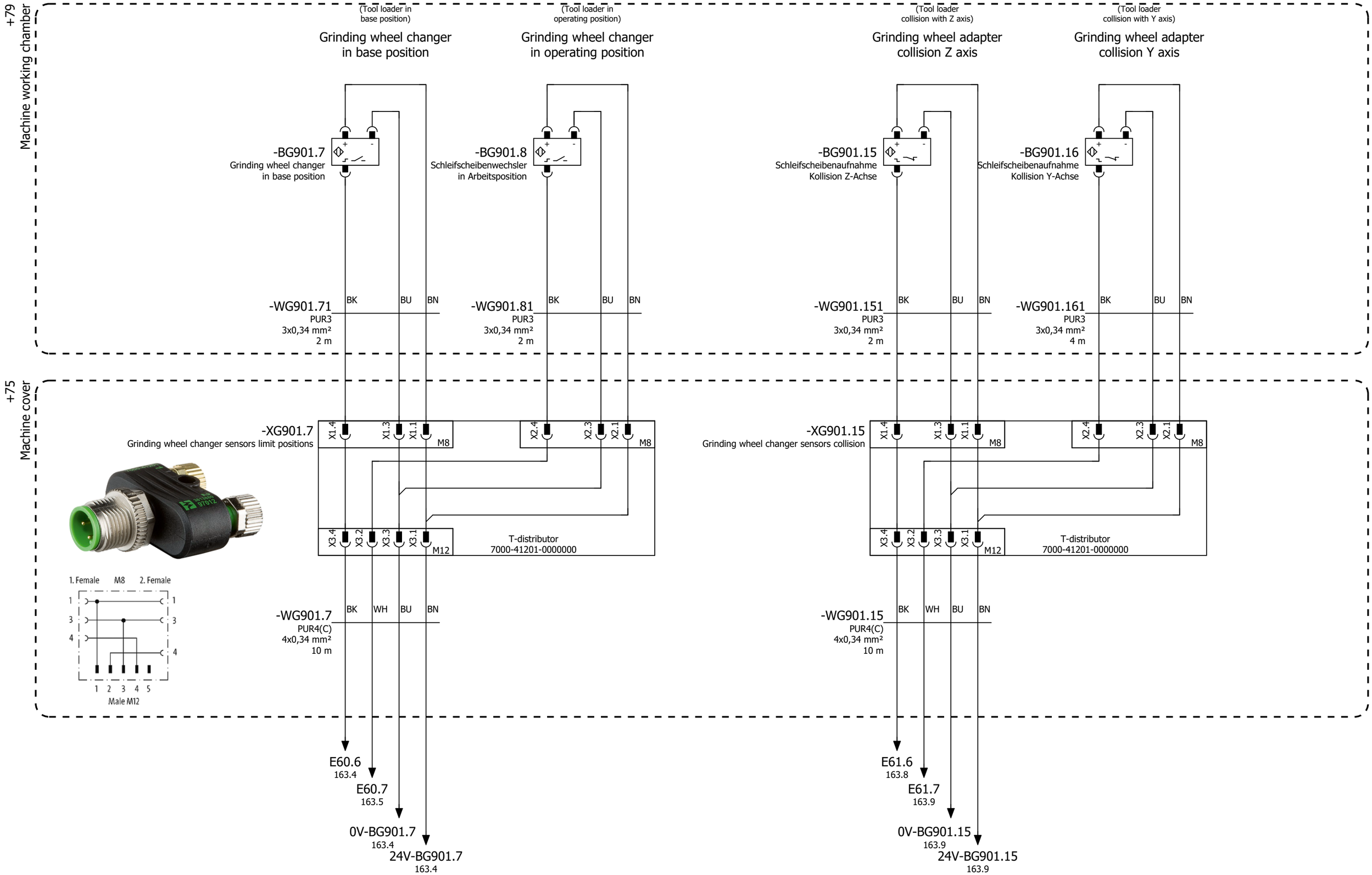
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 169
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 170
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

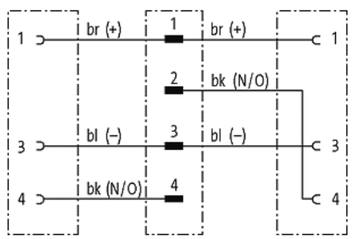
0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 171
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



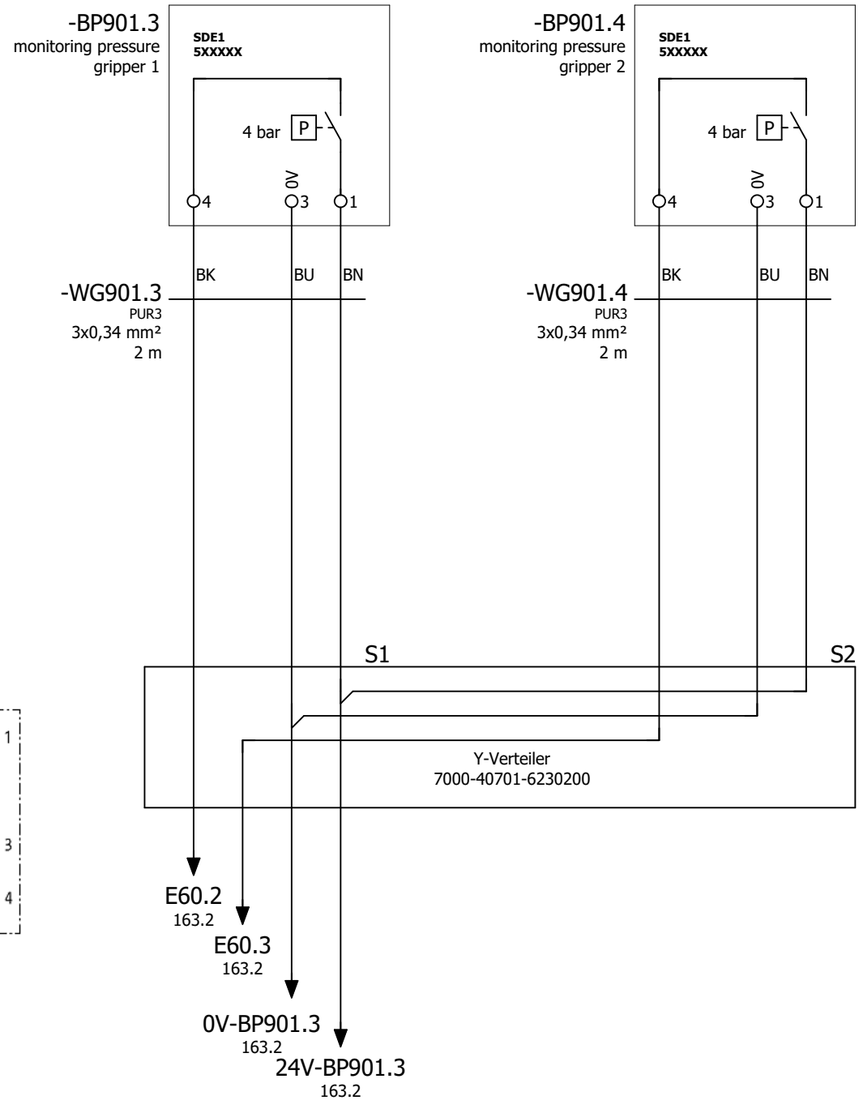
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Loading device for grinding wheel	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 172
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

+35
Installation board



monitoring pressure
gripper 1

monitoring pressure
gripper 2



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Pressure monitoring gripper	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 173
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 174
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

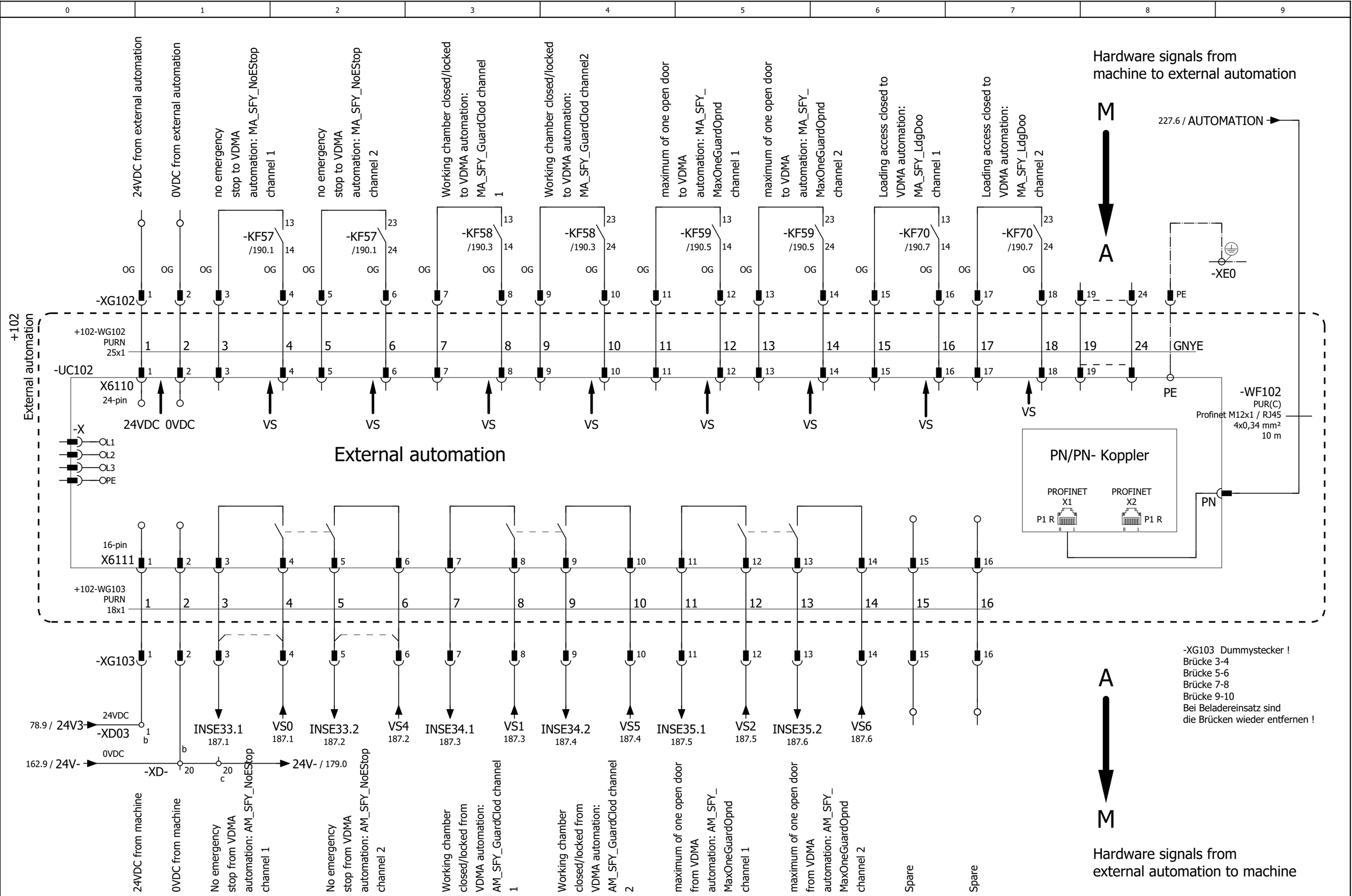
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 175
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

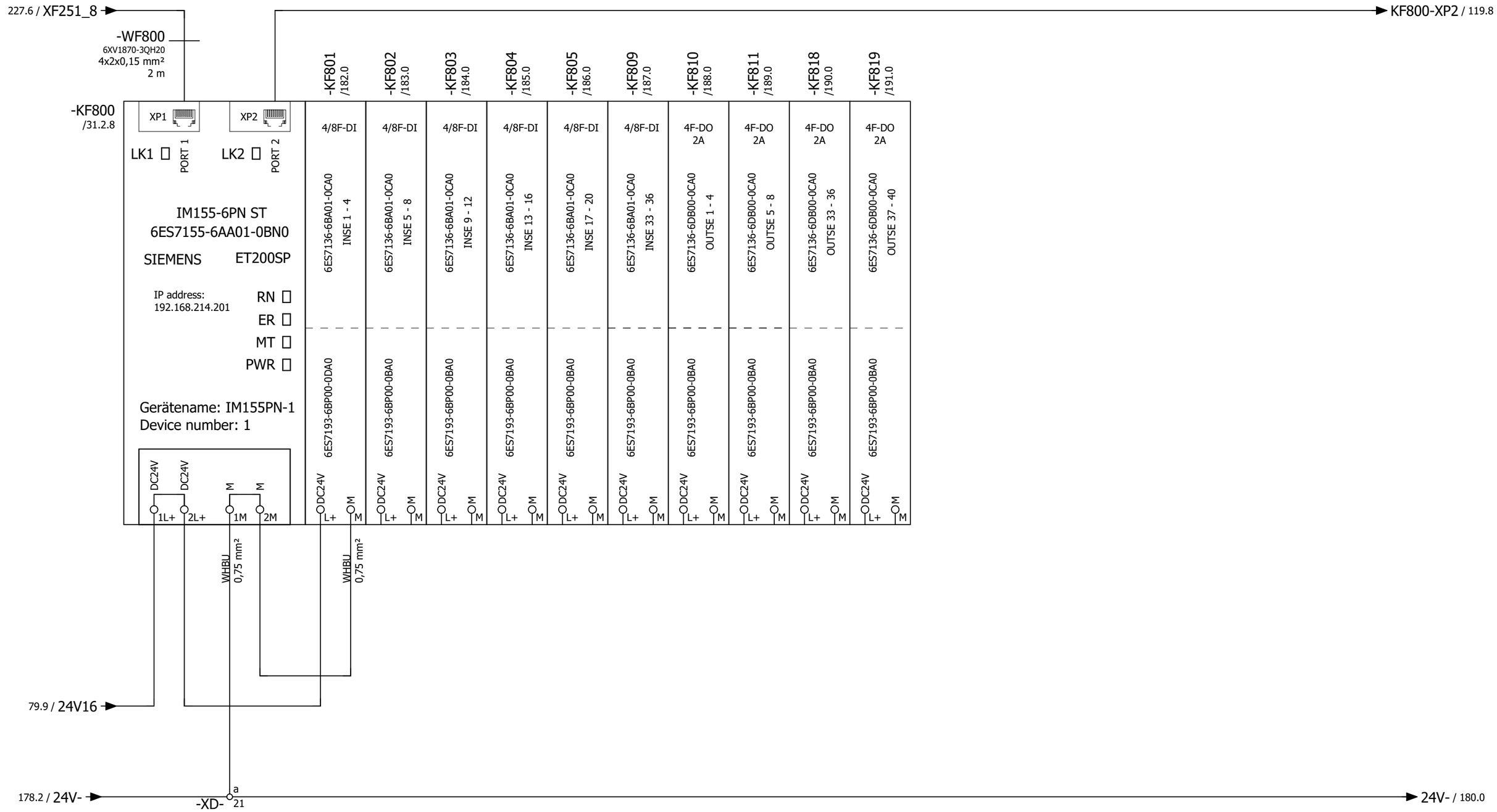
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 176
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

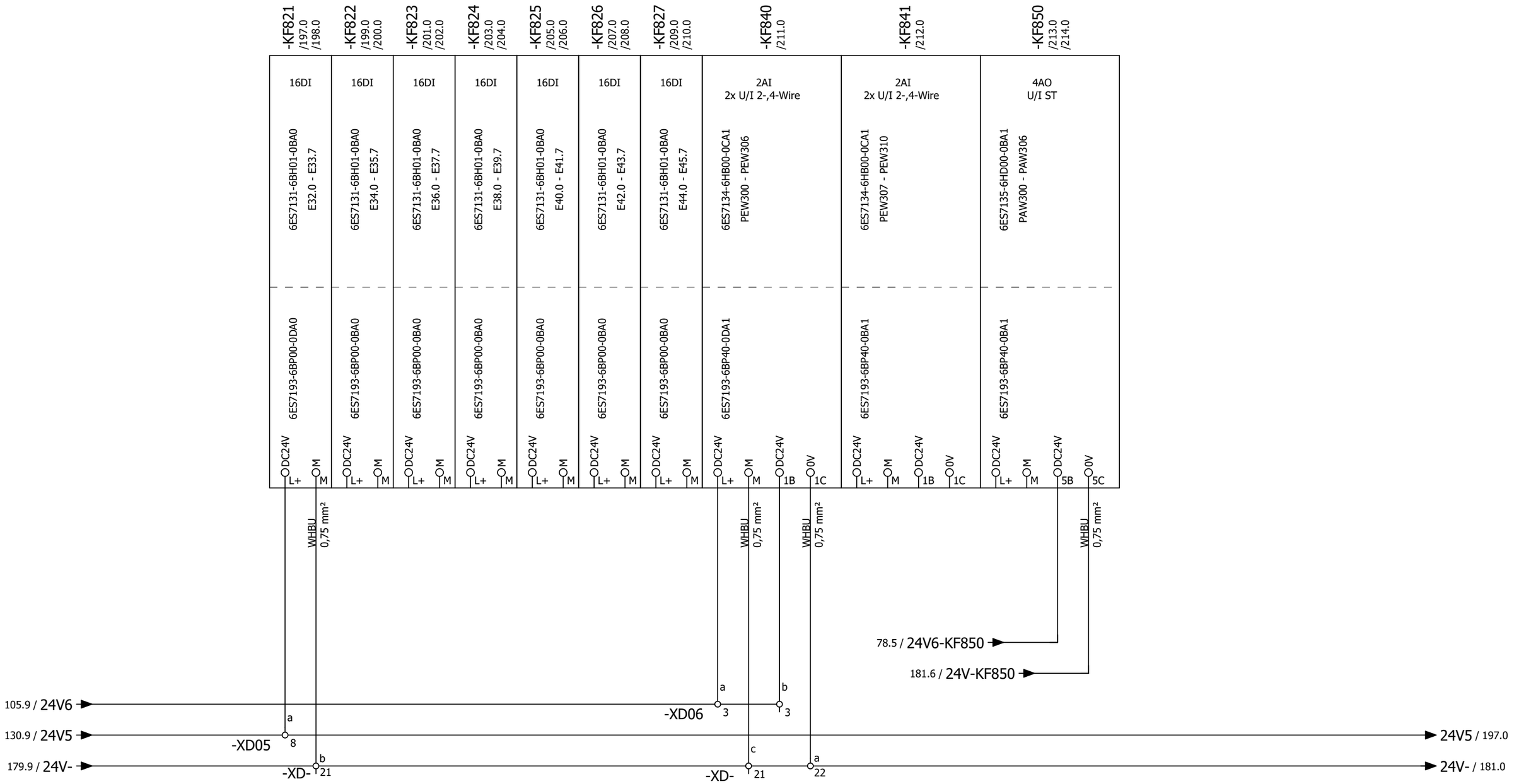
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 177
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



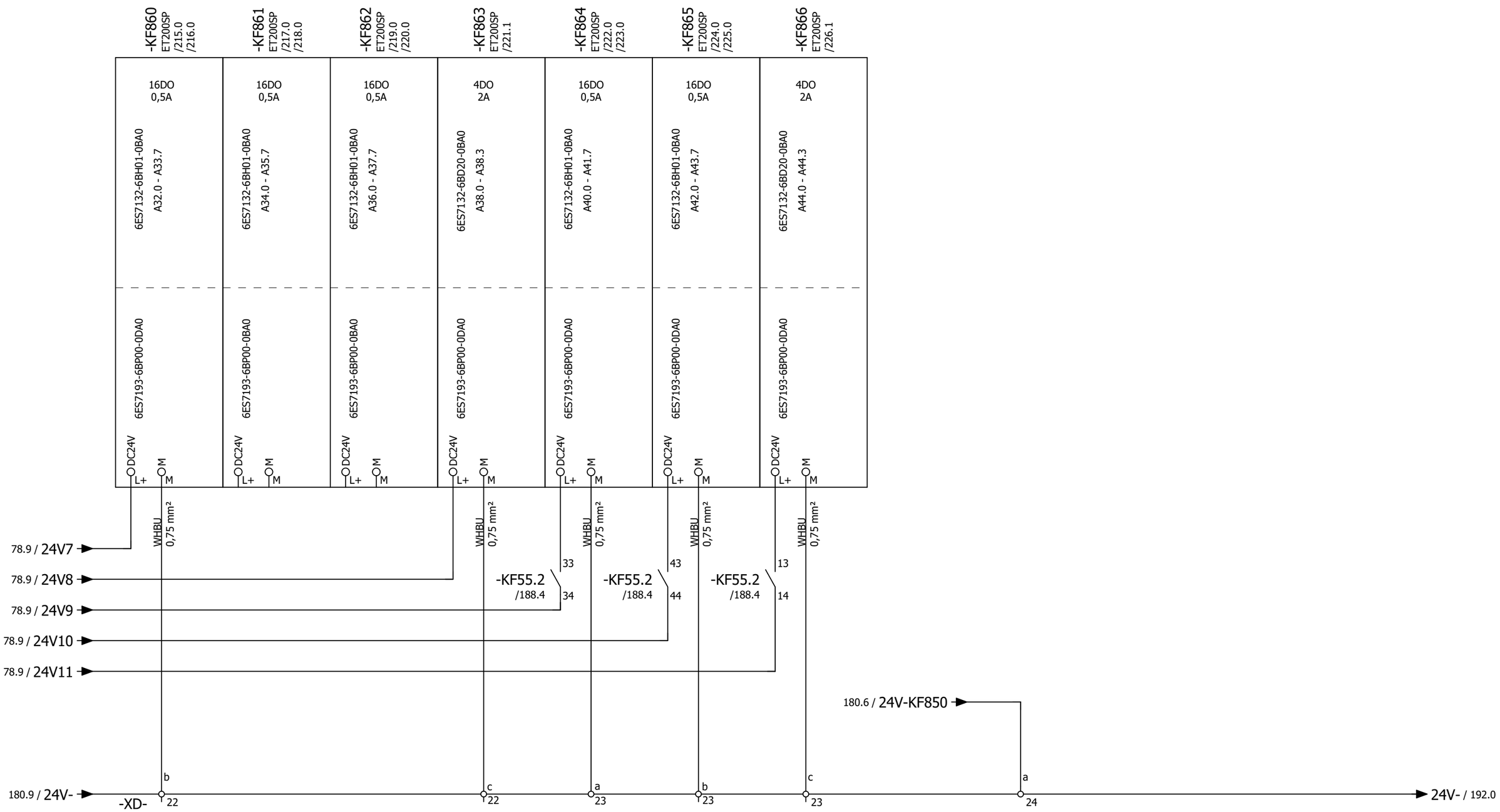
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Loading device interface	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 178
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



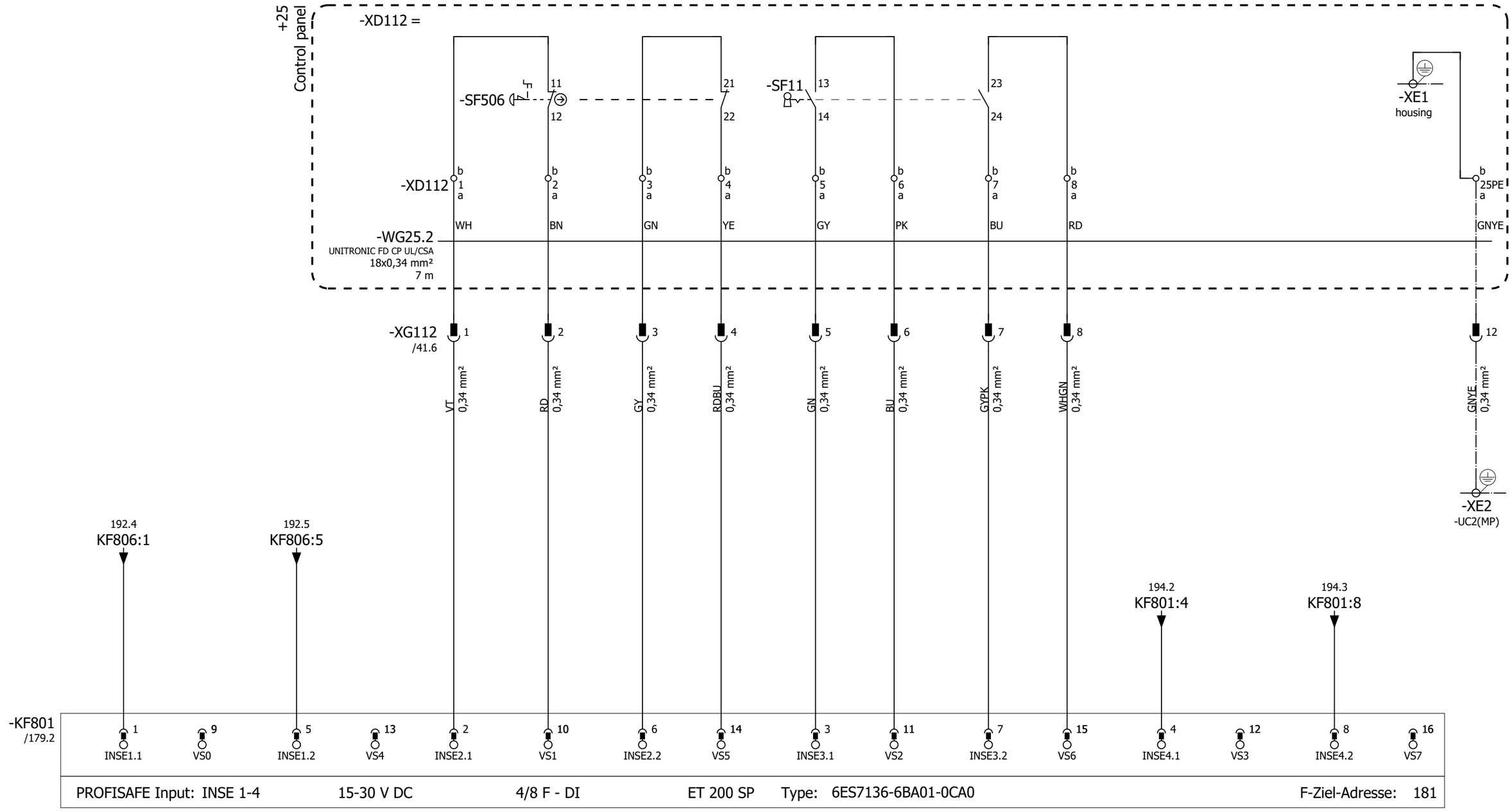
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of PLC	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 179
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



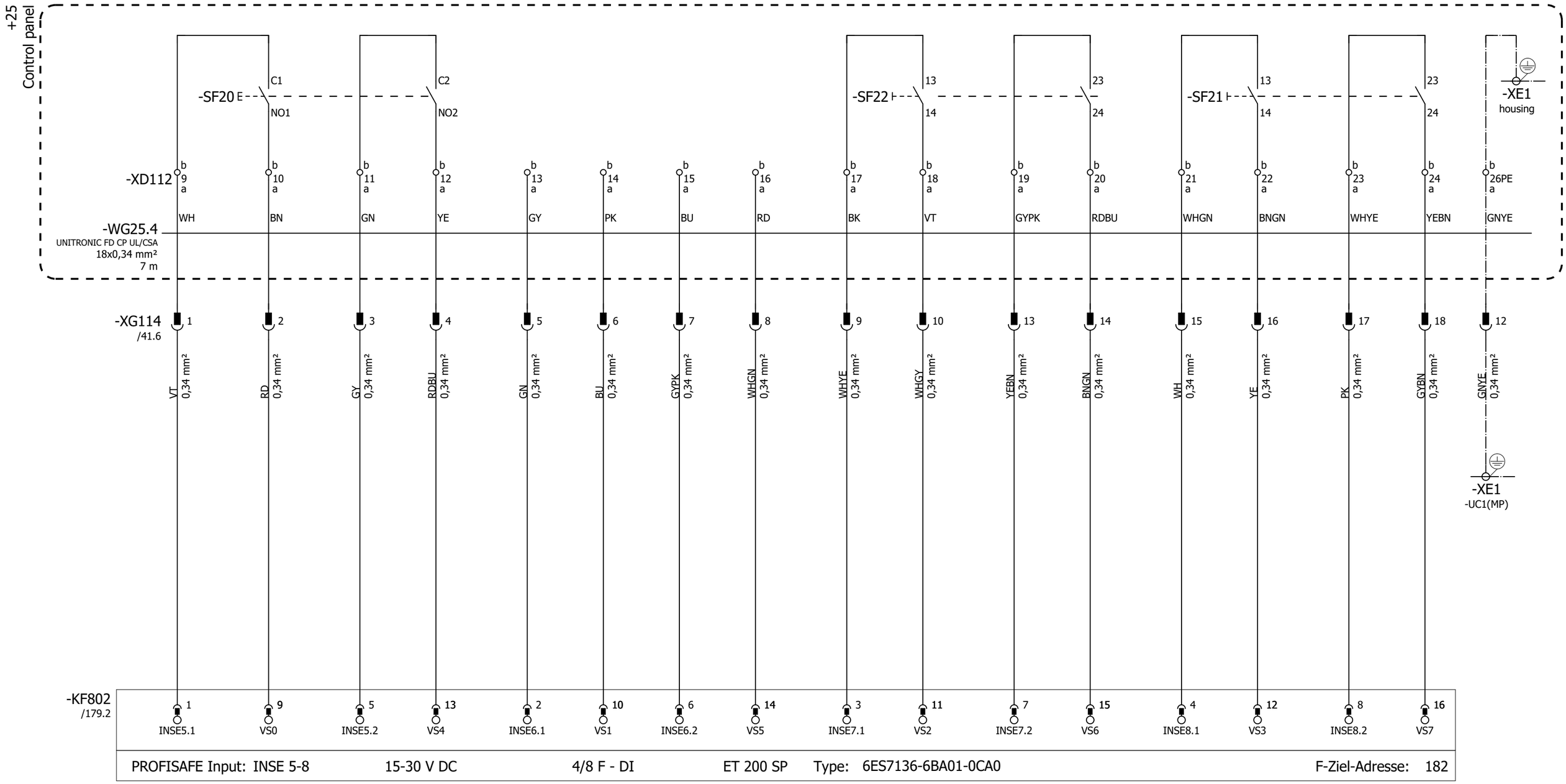
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of PLC	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 180
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



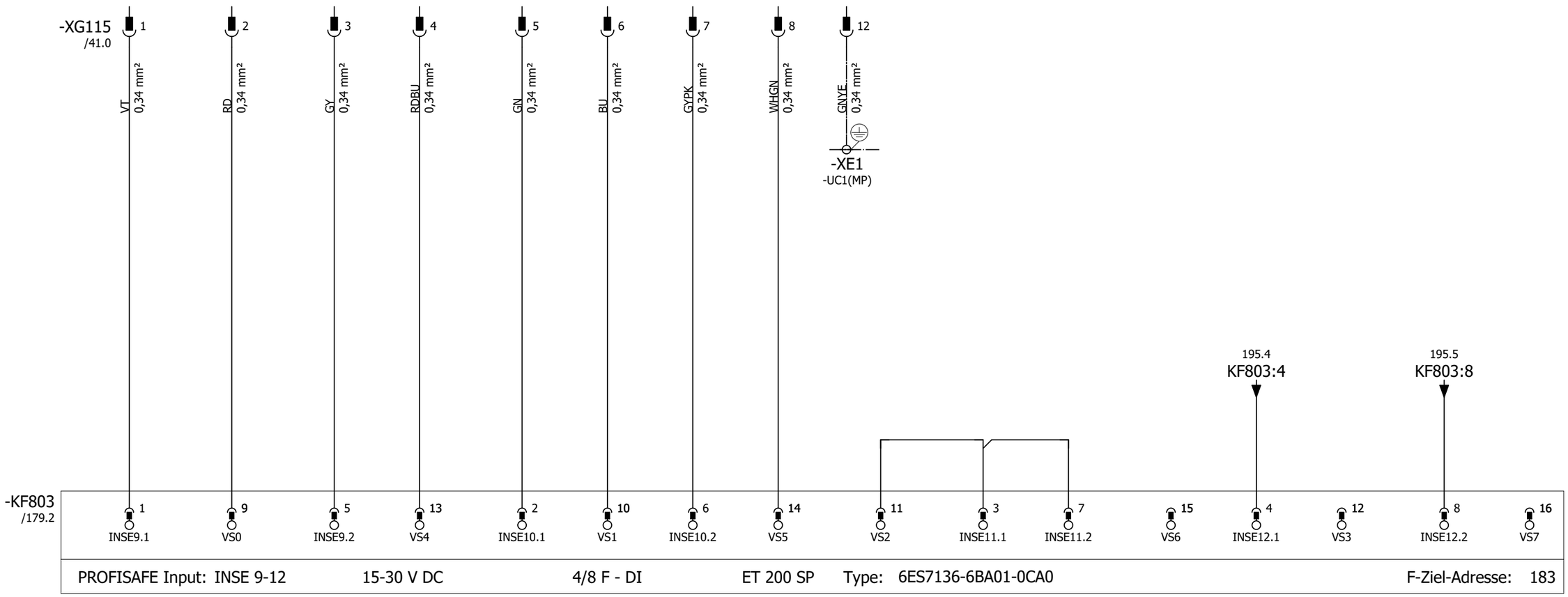
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of PLC	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 181
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Working chamber closed/locked (operator door) channel 1	Working chamber closed/locked (operator door) channel 2	No emergency stop, control panel channel 1	No emergency stop, control panel channel 2	Set up channel 1 (MSO2)
Set up channel 2 (MSO2)	Working chamber closed/locked 2 (service door) channel 1	Working chamber closed/locked 2 (service door) channel 2		

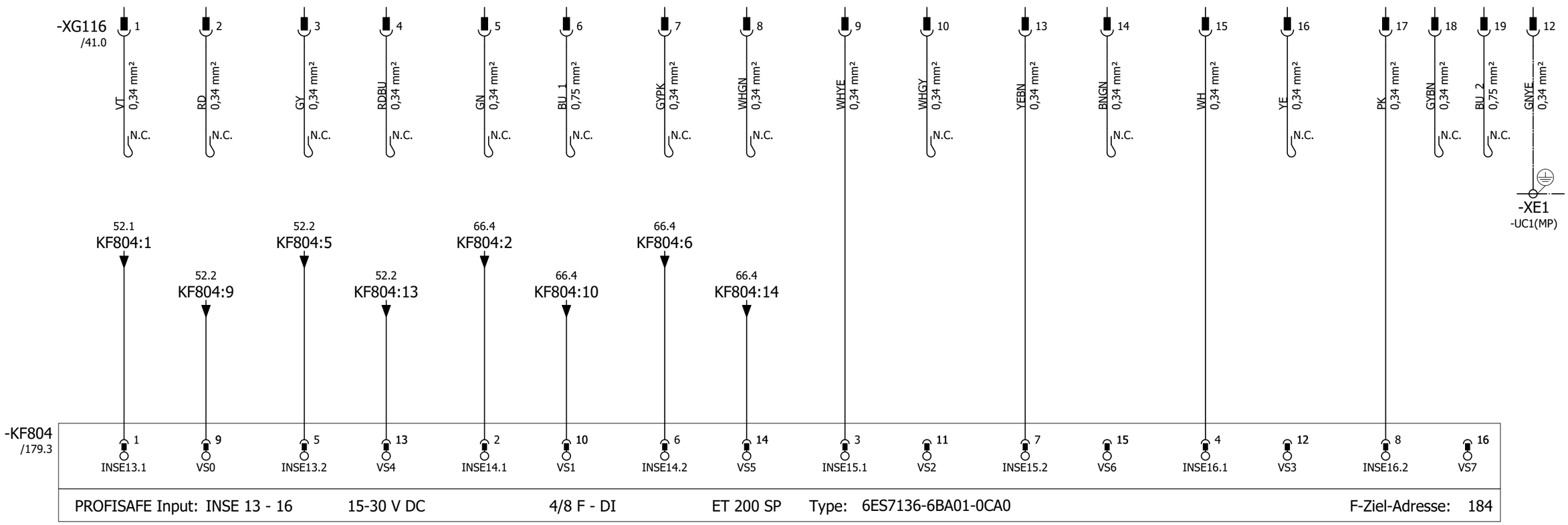


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety input module 2 INSE 5 - 8	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 183
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

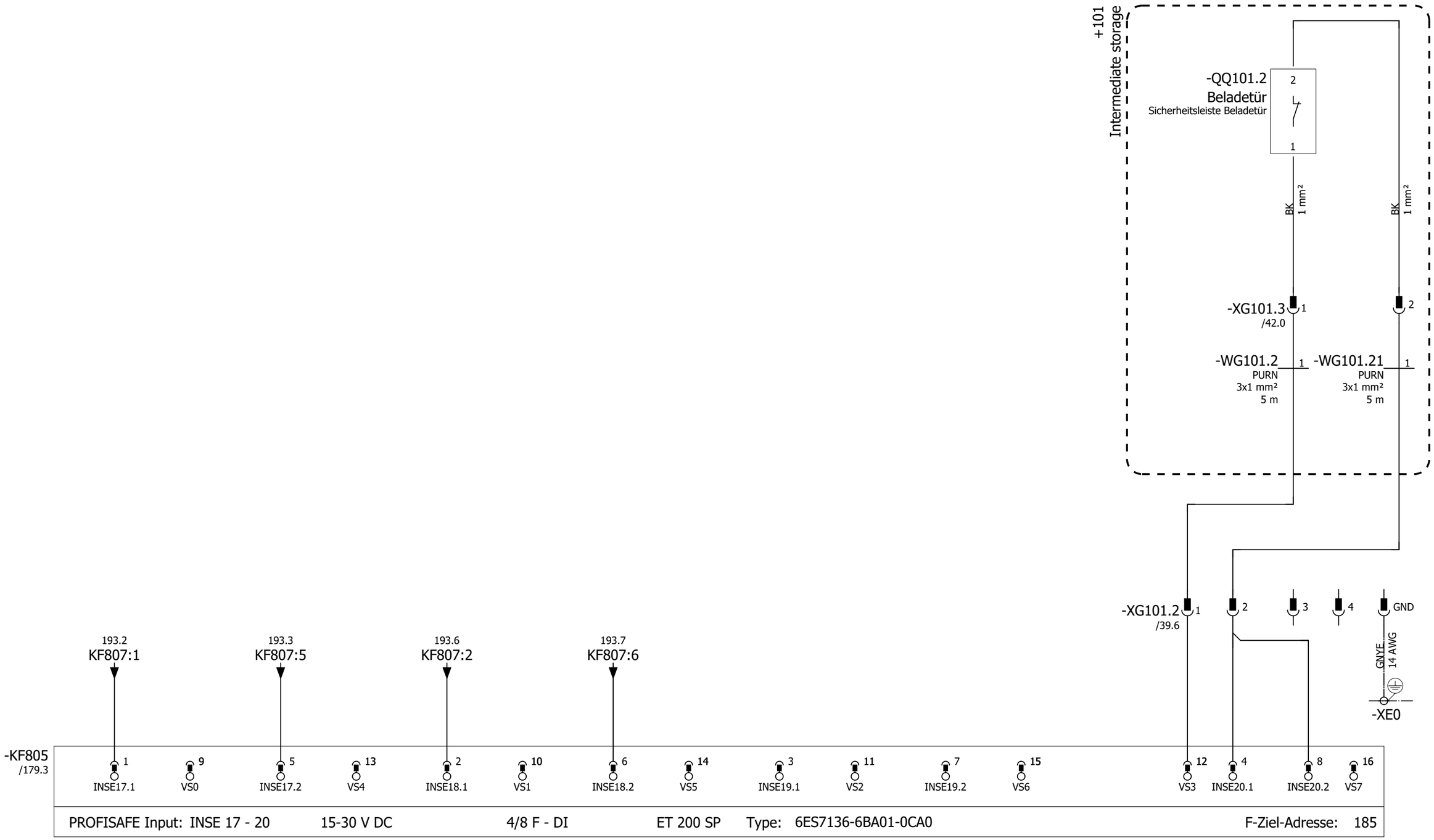


183 185

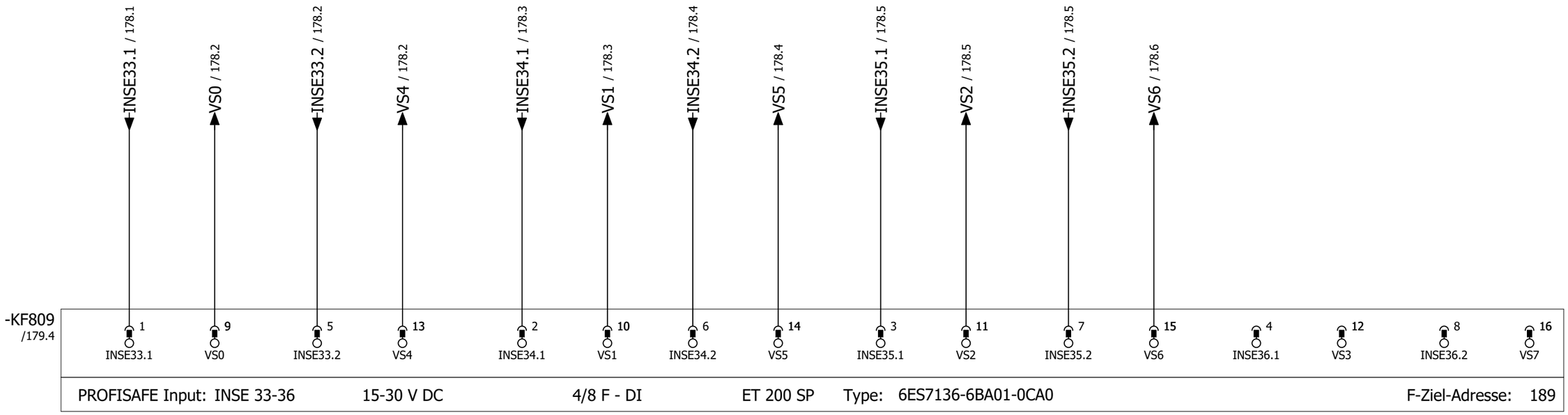
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety input module 3 INSE 9 - 12	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 184
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety input module 4 INSE 13 - 16	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 185
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

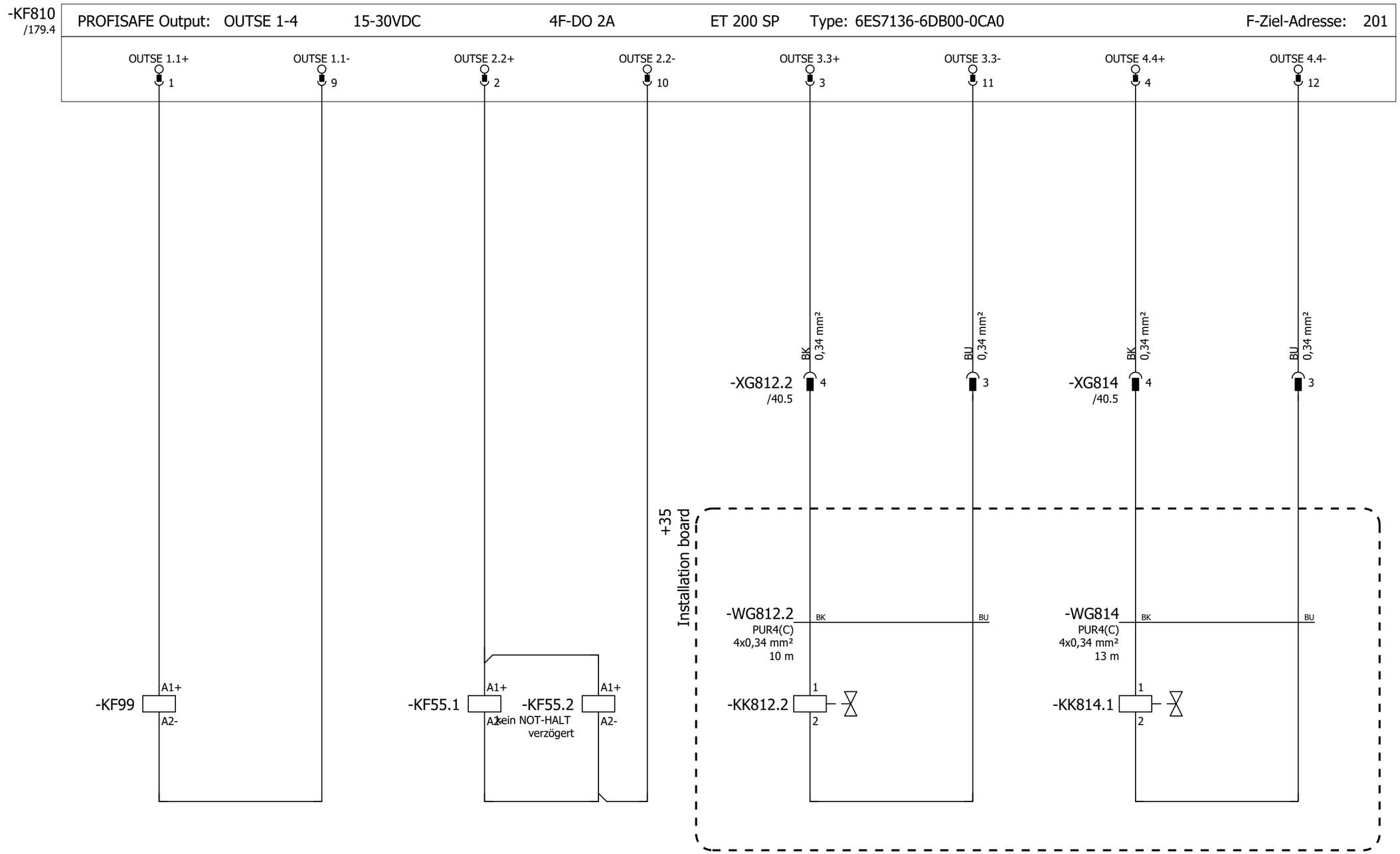


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety input module 5 INSE 17 - 20	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 186
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



No emergency stop from VDMA automation: AM_SFY_NoEStop channel 1	No emergency stop from VDMA automation: AM_SFY_NoEStop channel 2	Working chamber closed/locked from VDMA automation: AM_SFY_GuardClod channel 1	Working chamber closed/locked from VDMA automation: AM_SFY_GuardClod channel 2	maximum of one open door from VDMA automation: AM_SFY_ MaxOneGuardOpnd channel 1	maximum of one open door from VDMA automation: AM_SFY_ MaxOneGuardOpnd channel 2	Spare Beladezugang geschlossen VDMA: AM_SFY_LdgDoorClod	Spare Beladezugang geschlossen VDMA: AM_SFY_LdgDoorClod

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety input module 9 INSE 33 - 36	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 187
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



3SK1211-2BB40

13 — 14
23 — 24 /52.4
33 — 34 /52.3
43 — 44
51 — 52 /199.2

Release fire extinguishing system for extinguishing

3SK1211-2BB40

13 — 14 /66.6
23 — 24 /66.6
33 — 34 /76.3
43 — 44
51 — 52 /199.1

no EMERGENCY STOP delayed

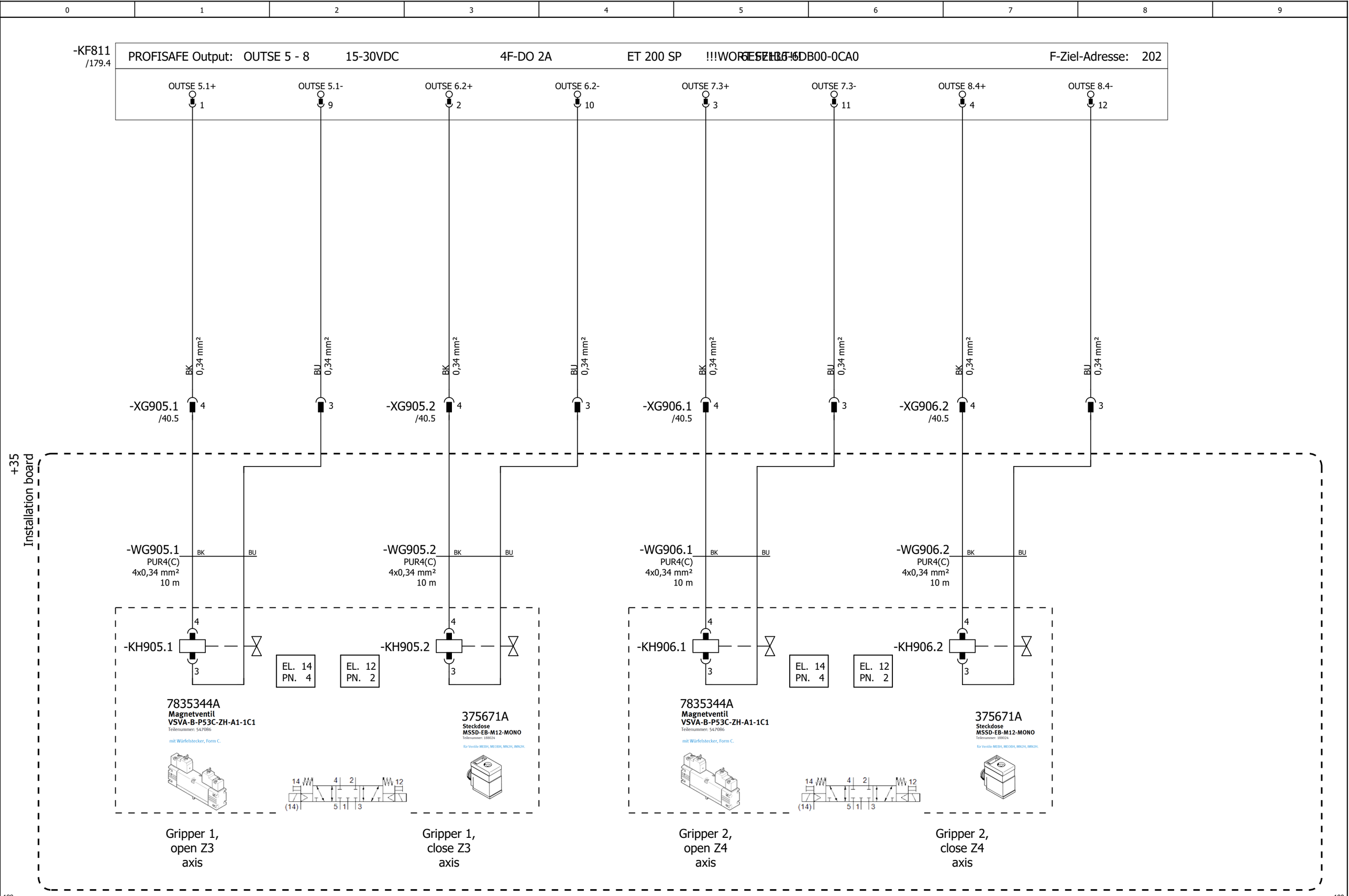
3SK1211-2BB40

13 — 14 /181.5
23 — 24 /162.3
33 — 34 /181.3
43 — 44 /181.4
51 — 52 /199.1

Release pneumatic movements

Release undo tool clamping device

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety output module 1 OUTSE 1 - 4	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 188
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



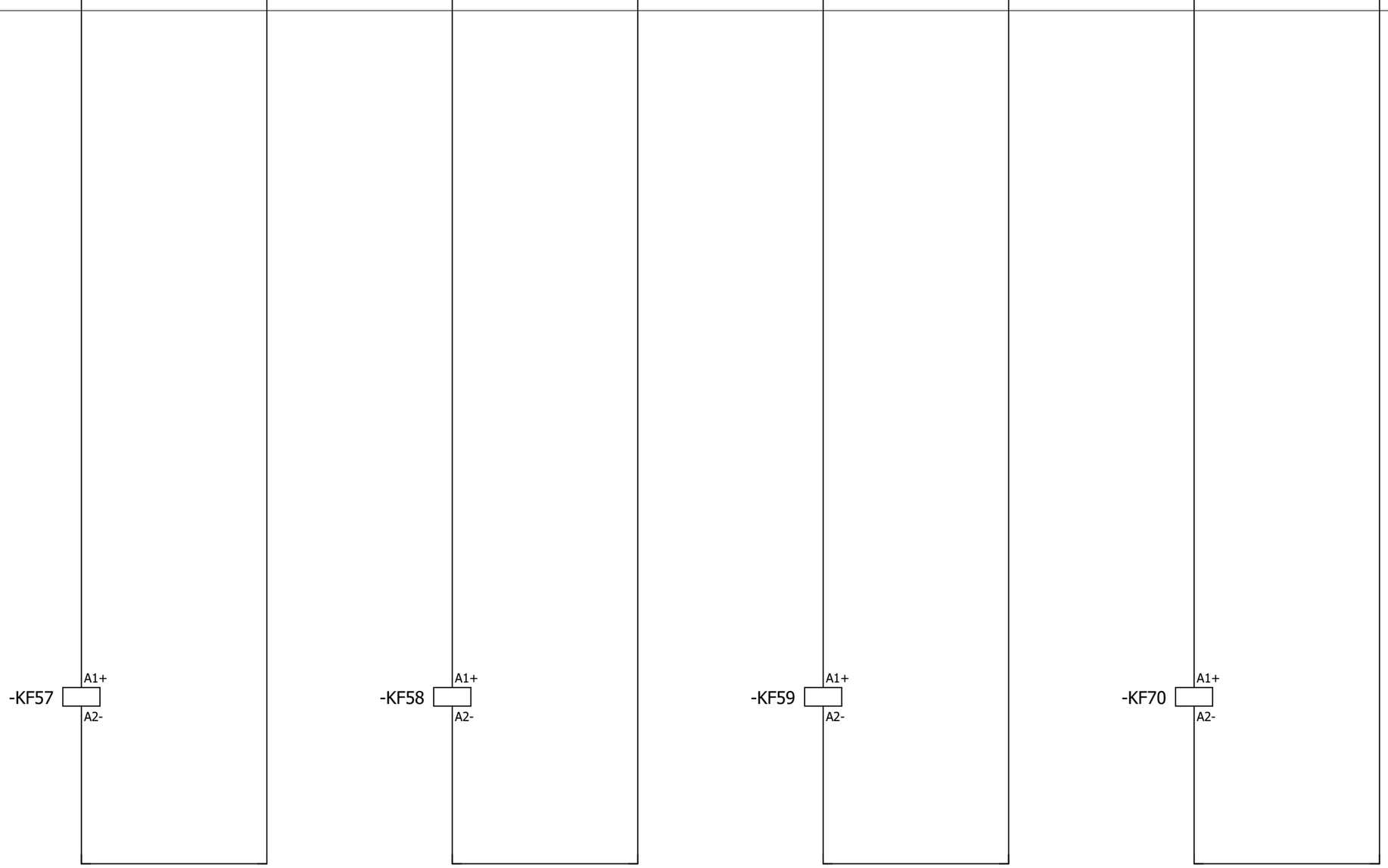
188 190

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety output module 2 OUTSE 5 - 8	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 189
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF818
/179.5

PROFISAFE Output: OUTSE 33 - 36 15-30VDC 4F-DO 2A ET 200 SP Type: 6ES7136-6DB00-0CA0 F-Ziel-Adresse: 209

OUTSE 33.1+	OUTSE 33.1-	OUTSE 34.2+	OUTSE 34.2-	OUTSE 35.3+	OUTSE 35.3-	OUTSE 36.4+	OUTSE 36.4-
1	9	2	10	3	11	4	12



3SK1211-2BB40

13 — 14 /178.2
23 — 24 /178.2
33 — 34
43 — 44
51 — 52 /199.3

No emergency stop to VDMA automation: MA_SFY_NoEStop

3SK1211-2BB40

13 — 14 /178.3
23 — 24 /178.4
33 — 34
43 — 44
51 — 52 /199.4

Working chamber closed/locked to VDMA automation: MA_SFY_GuardClod

3SK1211-2BB40

13 — 14 /178.5
23 — 24 /178.6
33 — 34
43 — 44
51 — 52 /199.5

Maximum of one open door to VDMA automation: MA_SFY_MaxOneGuardOpnd

3SK1211-2BB40

13 — 14 /178.6
23 — 24 /178.7
33 — 34
43 — 44
51 — 52 /199.6

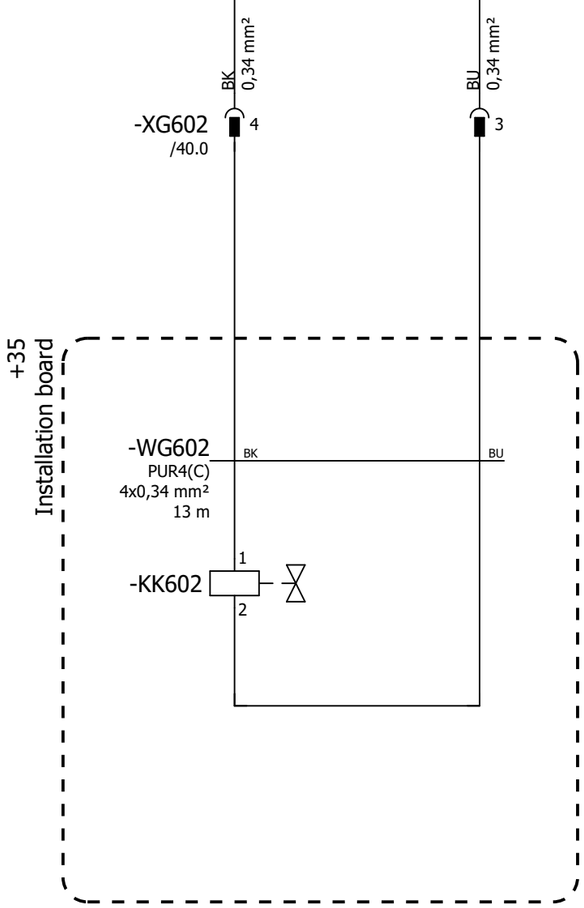
Loading access closed to VDMA automation: MA_SFY_LdgDoorClod

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety output module 9 OUTSE 33 - 36	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 190
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF819
/179.5

PROFISAFE Output: OUTSE 37 - 40 15-30VDC 4F-DO 2A ET 200 SP Type: 6ES7136-6DB00-0CA0 F-Ziel-Adresse: 210

OUTSE 37.1+	OUTSE 37.1-	OUTSE 38.2+	OUTSE 38.2-	OUTSE 39.3+	OUTSE 39.3-	OUTSE 40.4+	OUTSE 40.4-
1	9	2	10	3	11	4	12



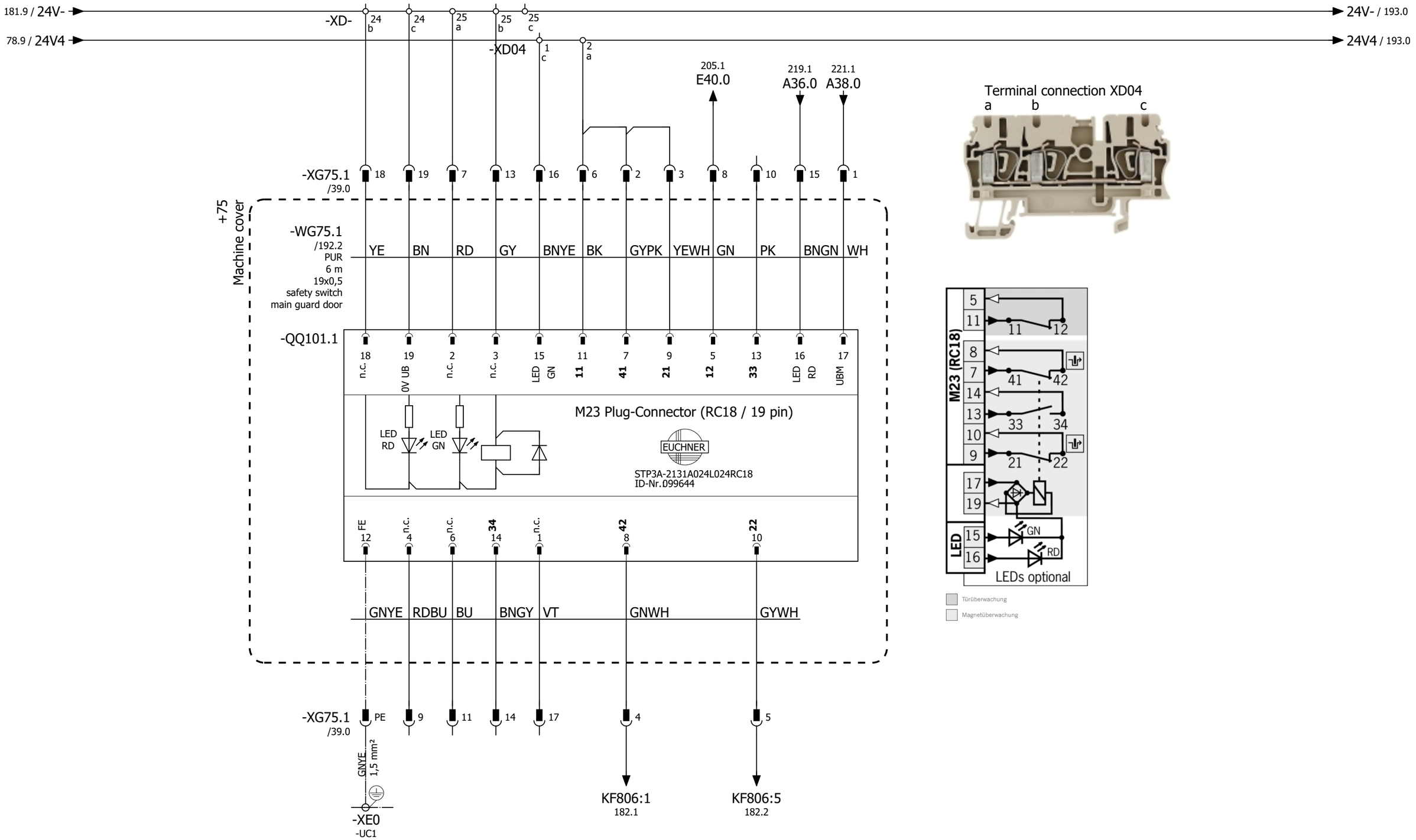
release
Head dresser
to working position

spare

spare

spare

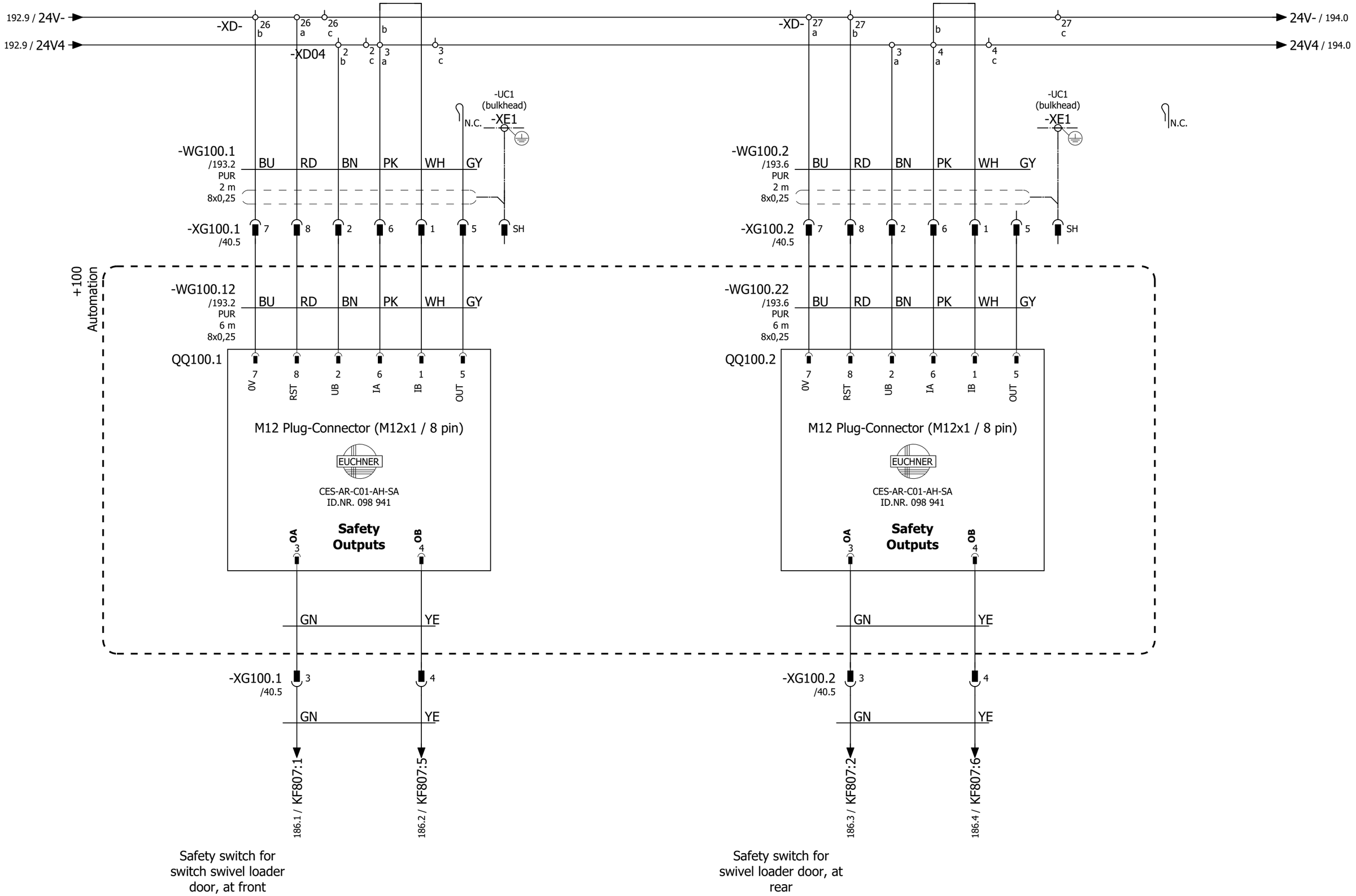
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety output module 10 OUTSE 37 - 40	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 191
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



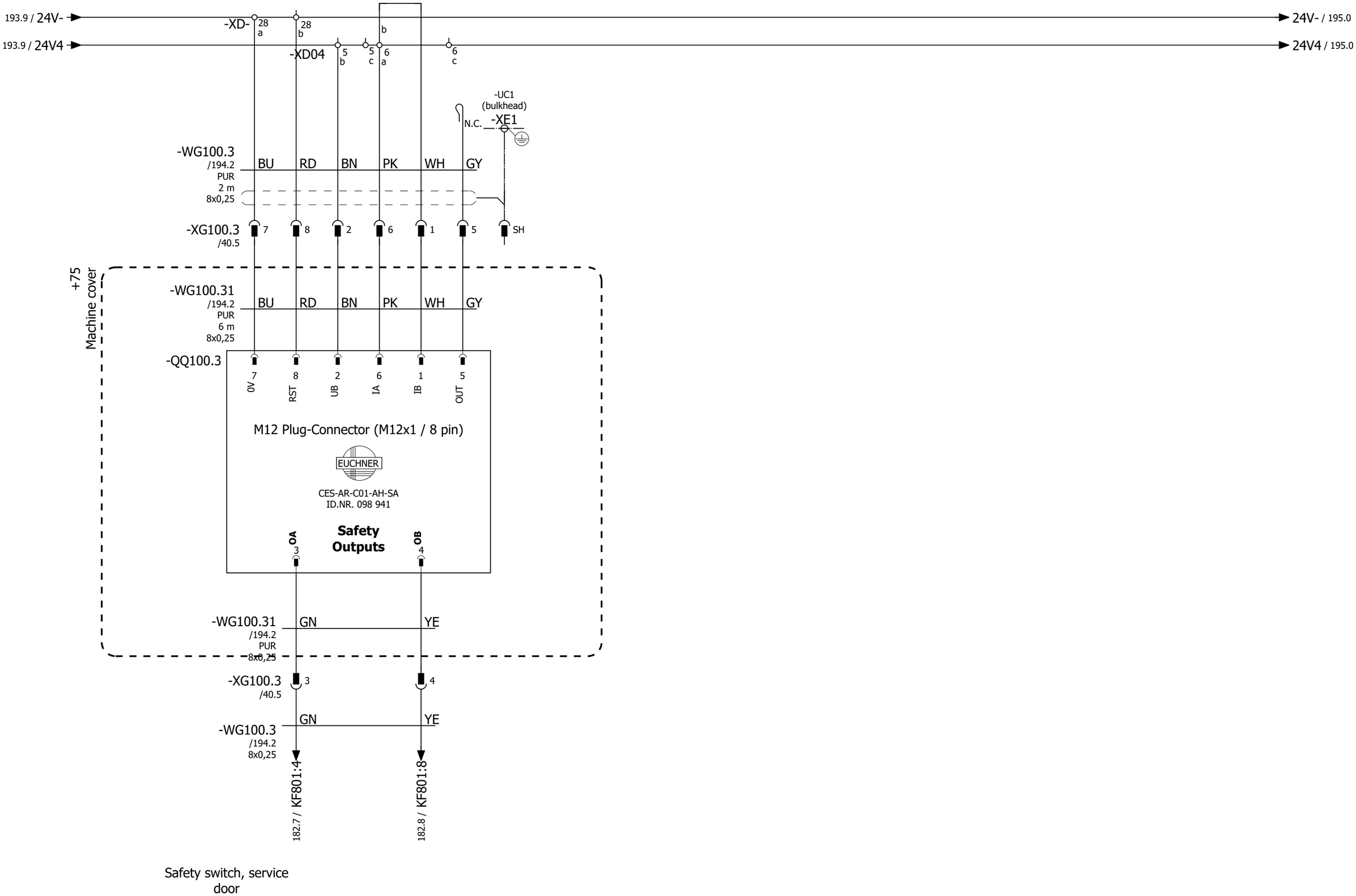
Door switch
with locking system
on operating side

191 193

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Door switch with locking system on operating side	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 192
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

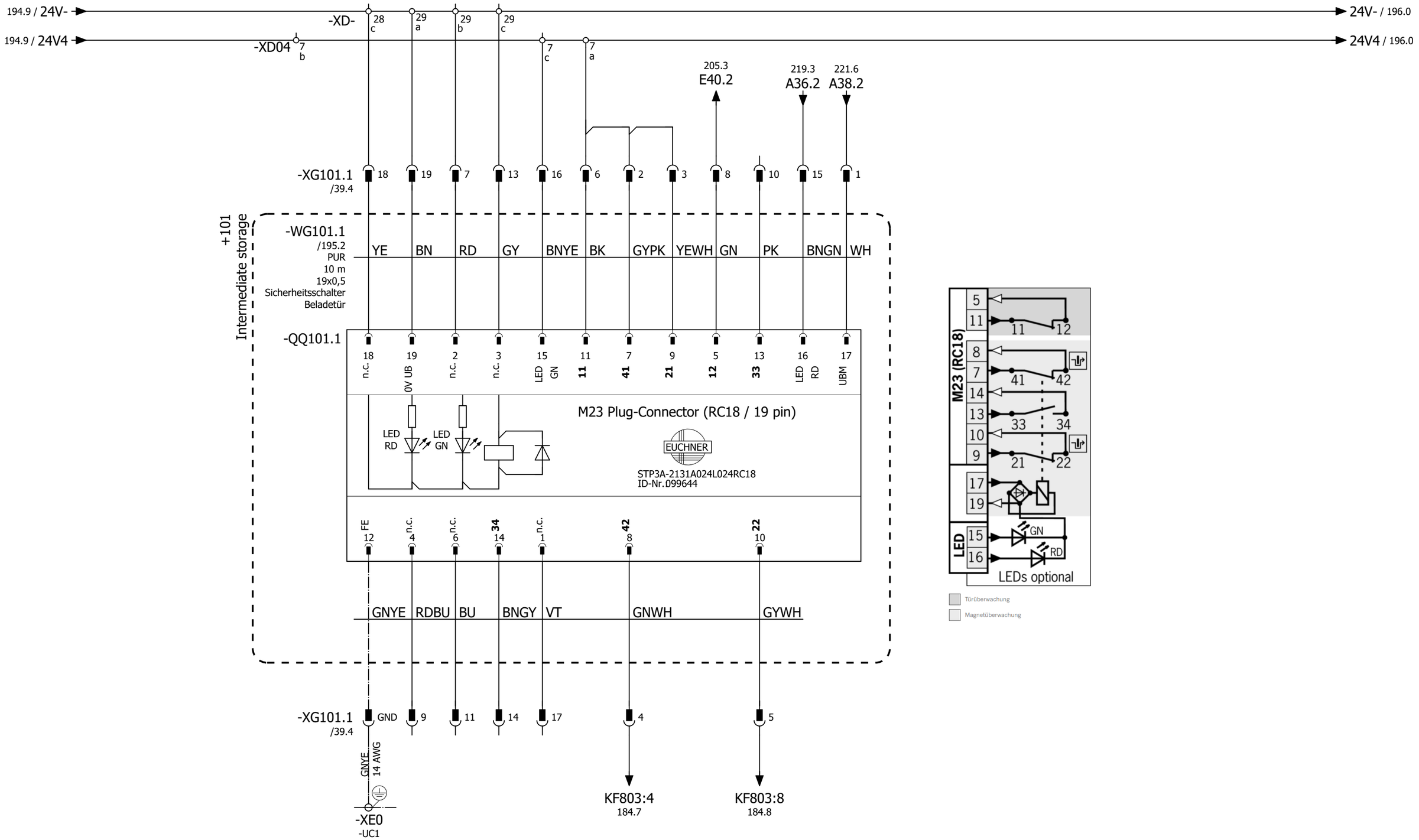


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety switch for switch swivel loader door, at front/rear	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 193
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



193 195

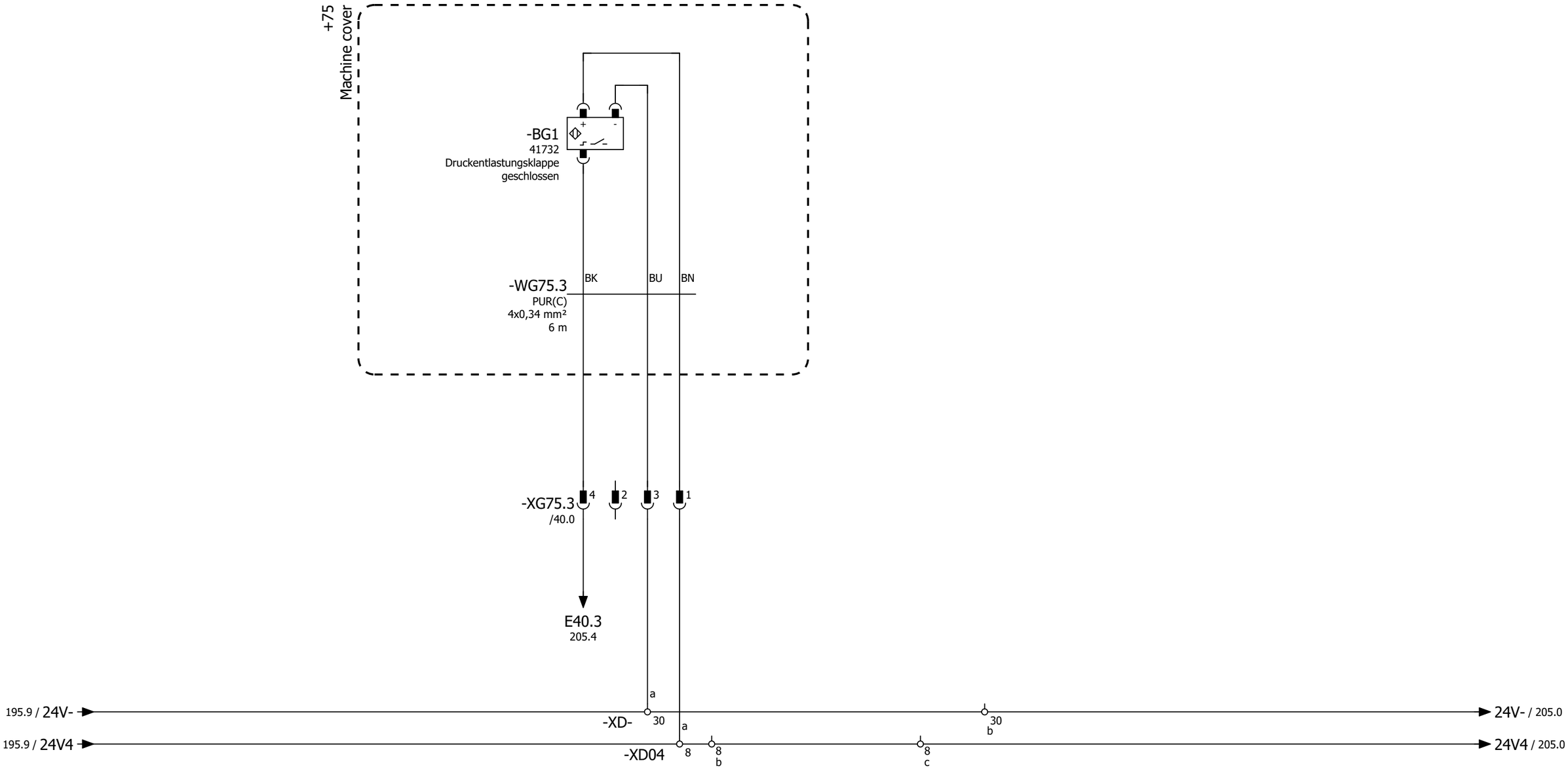
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Safety switch, service door	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 194
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



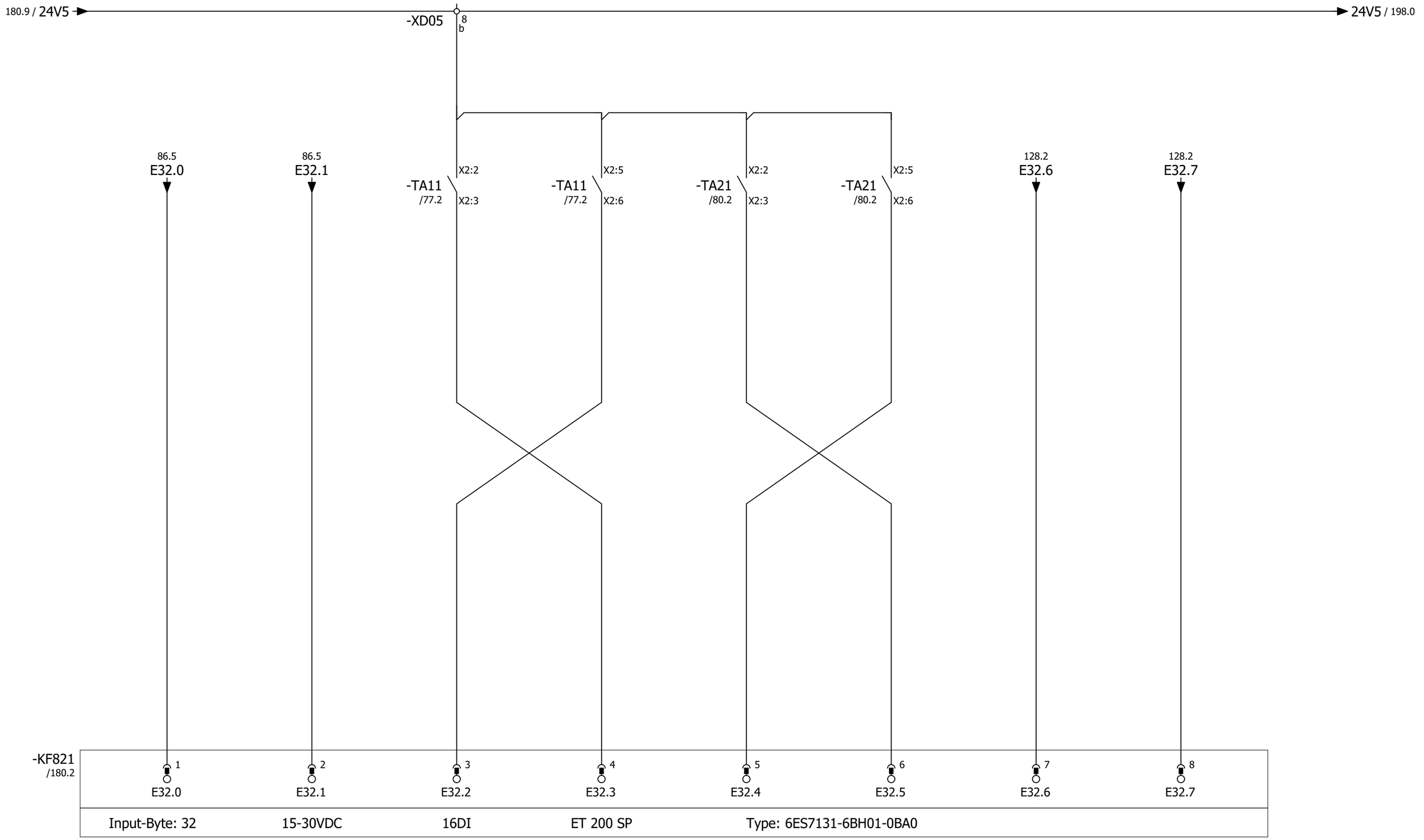
Türschalter
Beladetür

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	safety switch loader door	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 195
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

Deflagration flap
closed

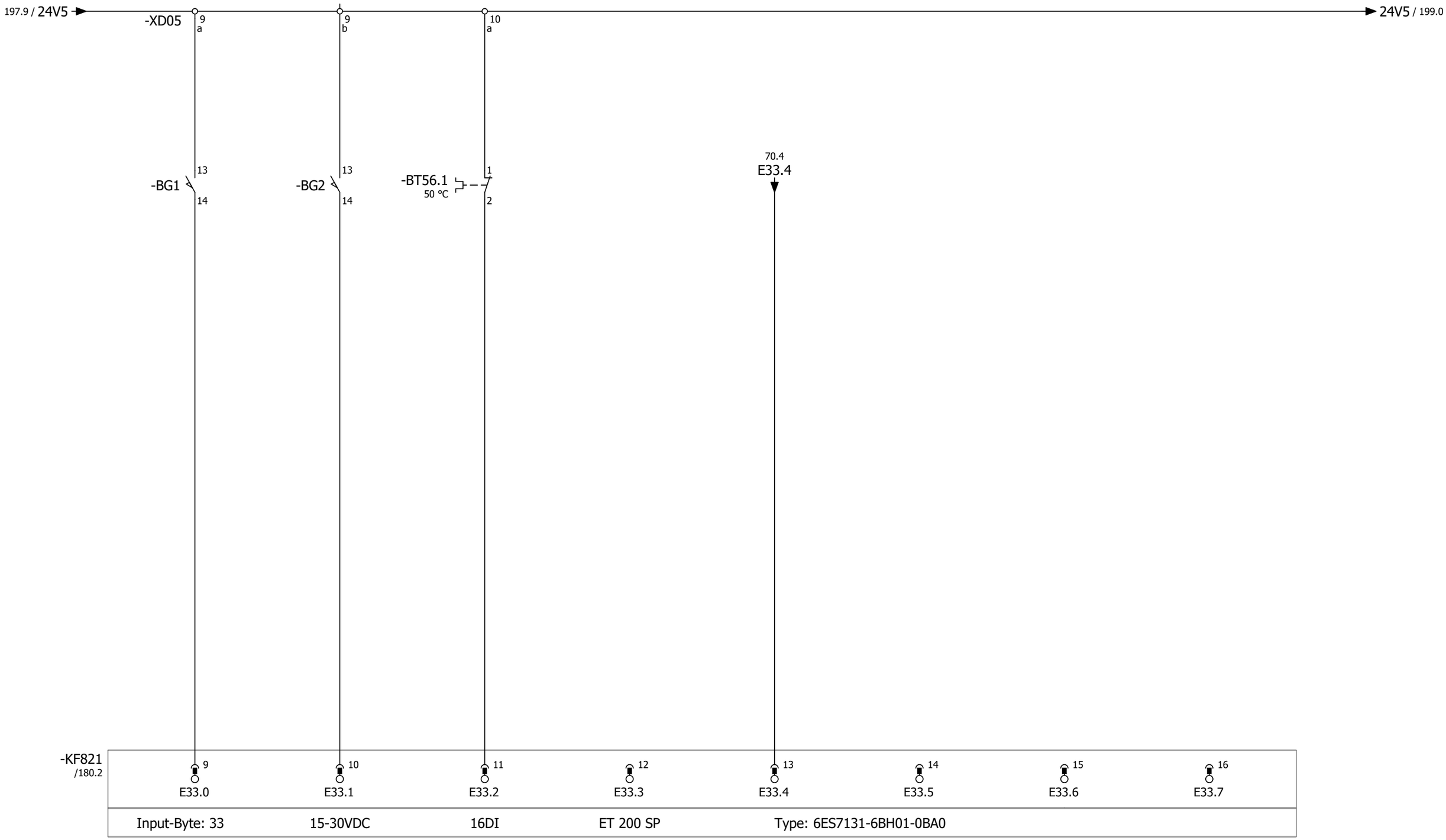


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Deflagration flap	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 196
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



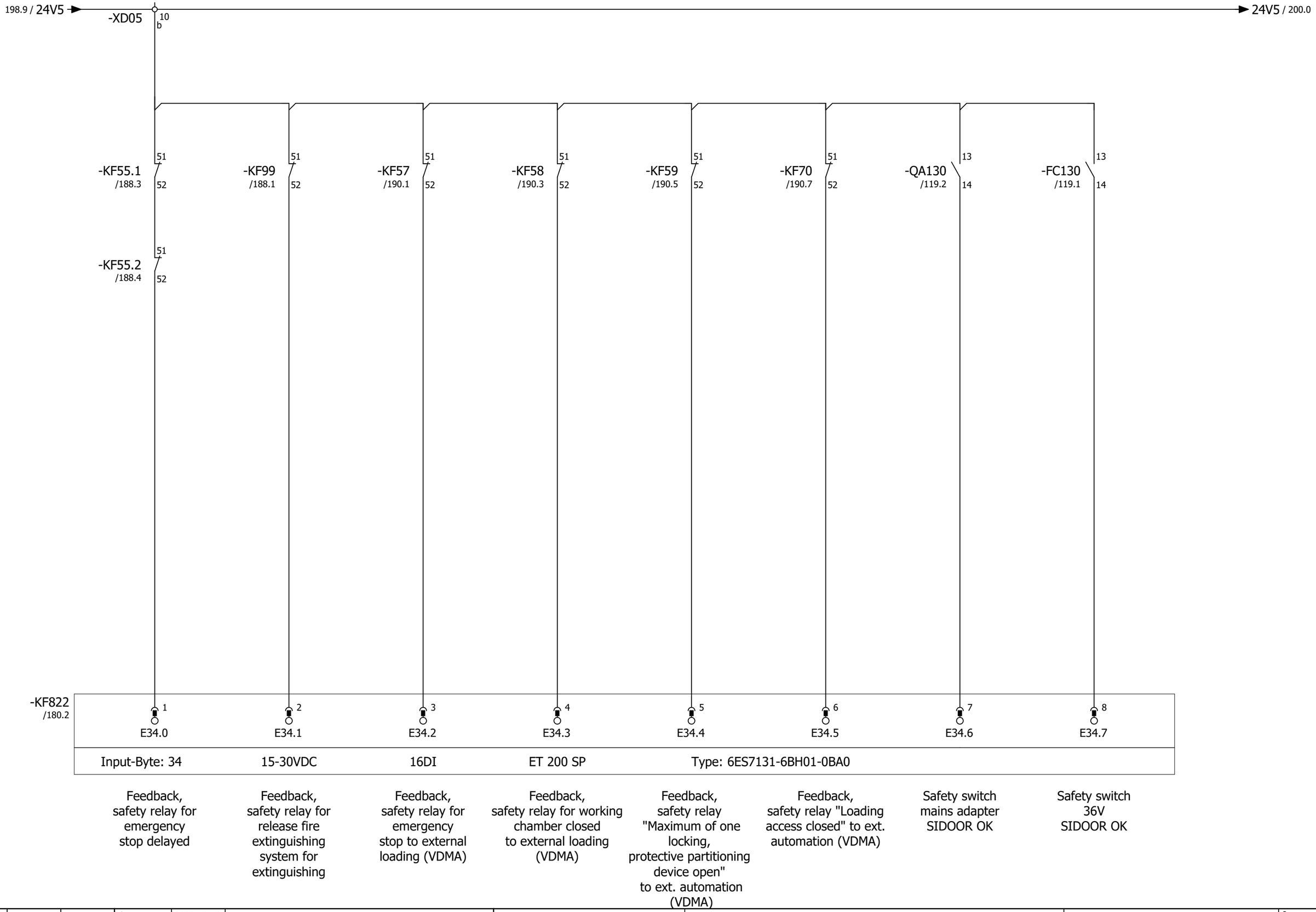
Supply ready for switch-on	Supply ready for use	Buffer standby is missing / available	Normal operation backup battery	Buffer standby is missing / available	Normal operation backup battery	Brake module advance warning I²t shut-off	Brake module no fault

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E32.0-E32.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 197
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

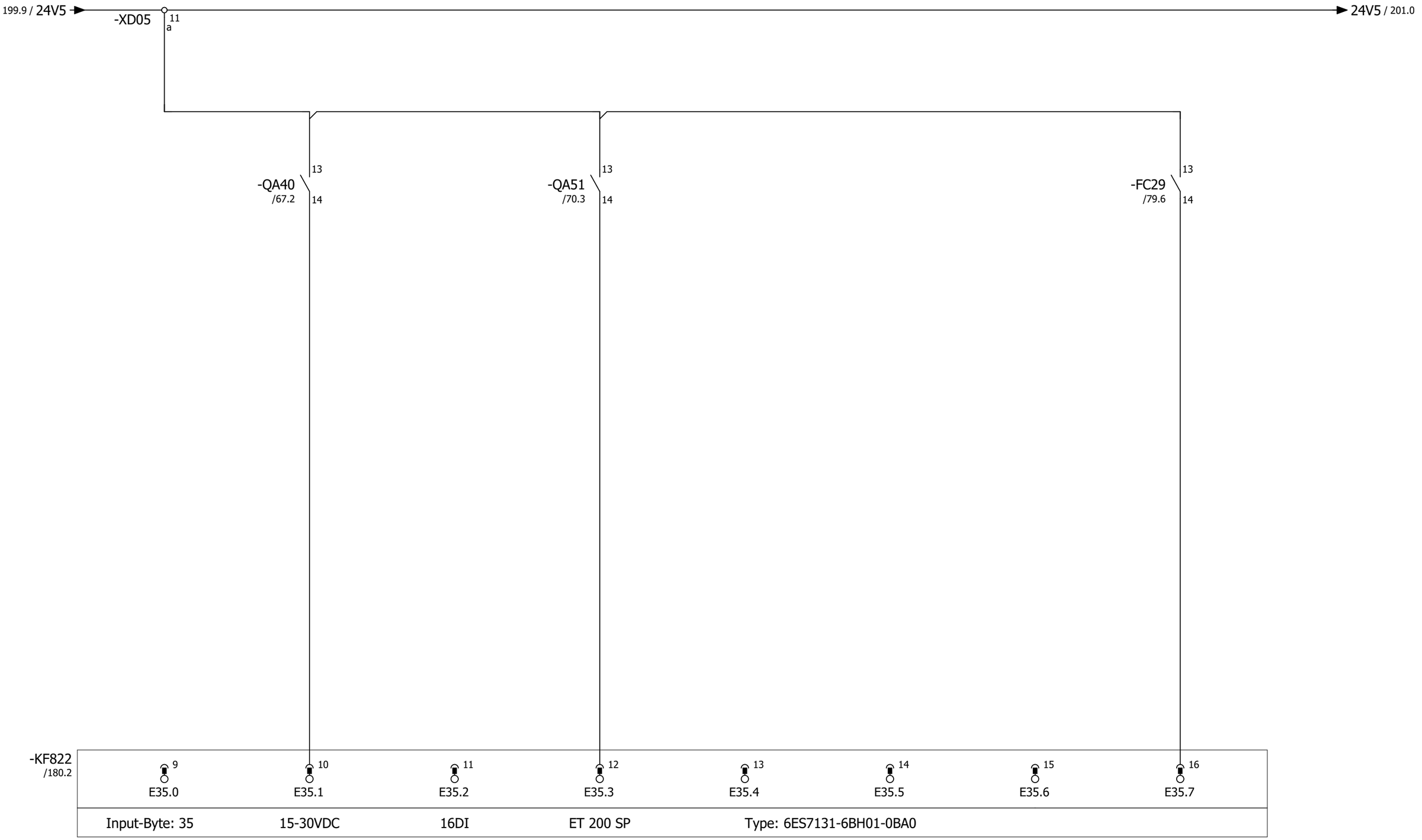


Control cabinet door 1 closed	Control cabinet door 2 closed	Temperature max control cabinet not exceeded	Spare	Control cabinet cooling OK	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E33.0-E33.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 198
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



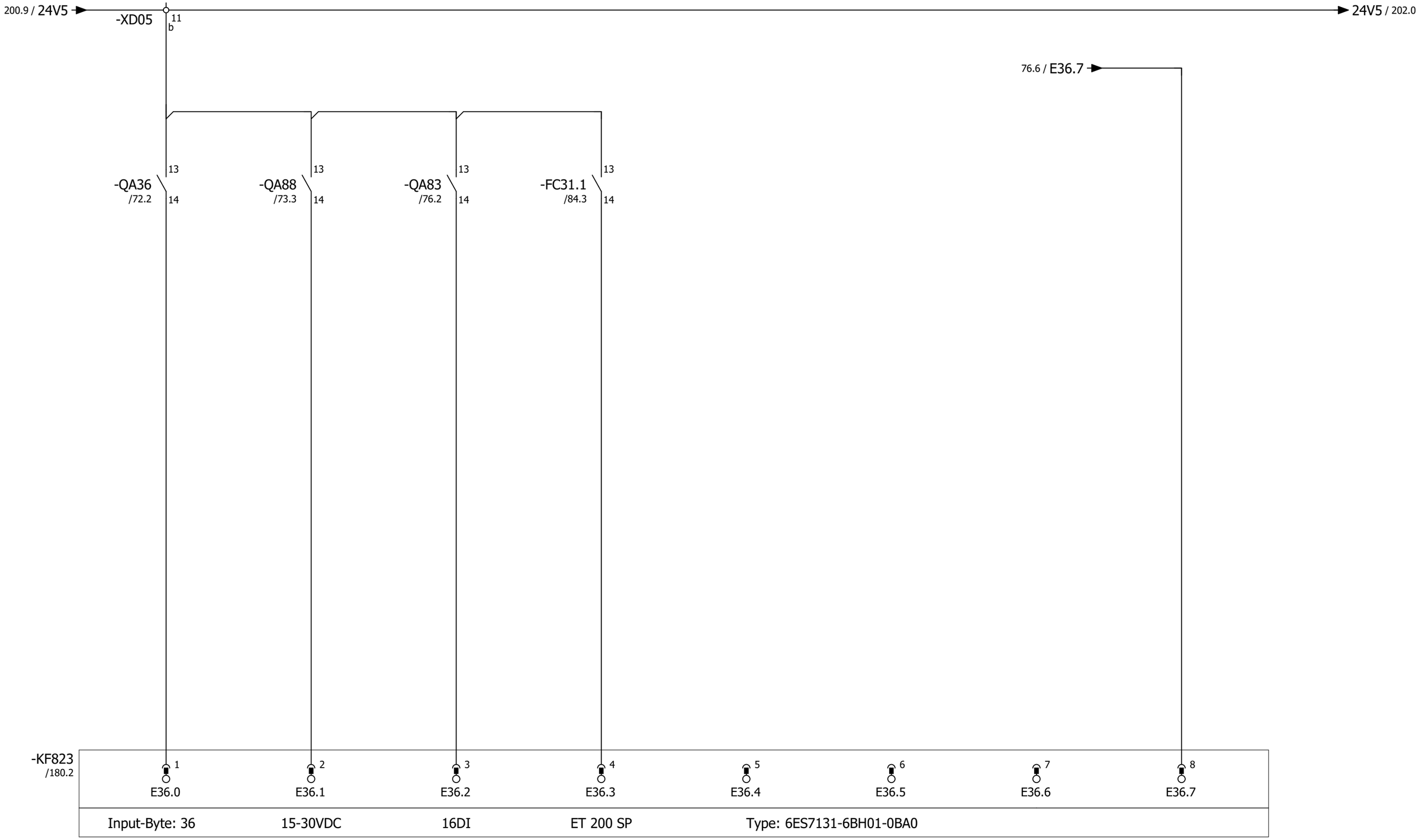
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E34.0-E34.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 199
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Spare	Safety switch, cooling unit water OK	Spare	Safety switch, cooling unit control cabinet OK	Spare	Spare	Spare	Safety switch, balancing system OK

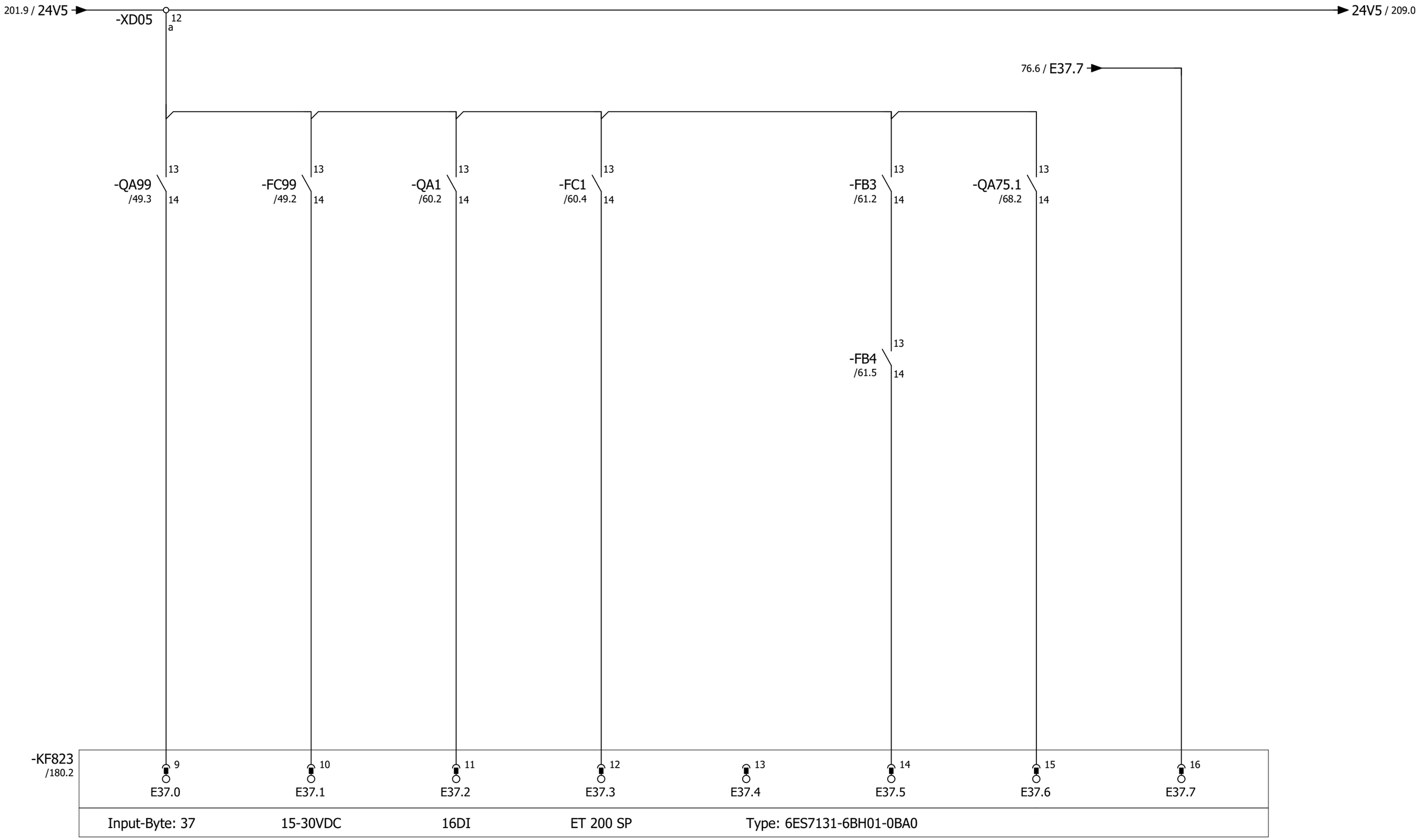
199 201

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E35.0-E35.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 200
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



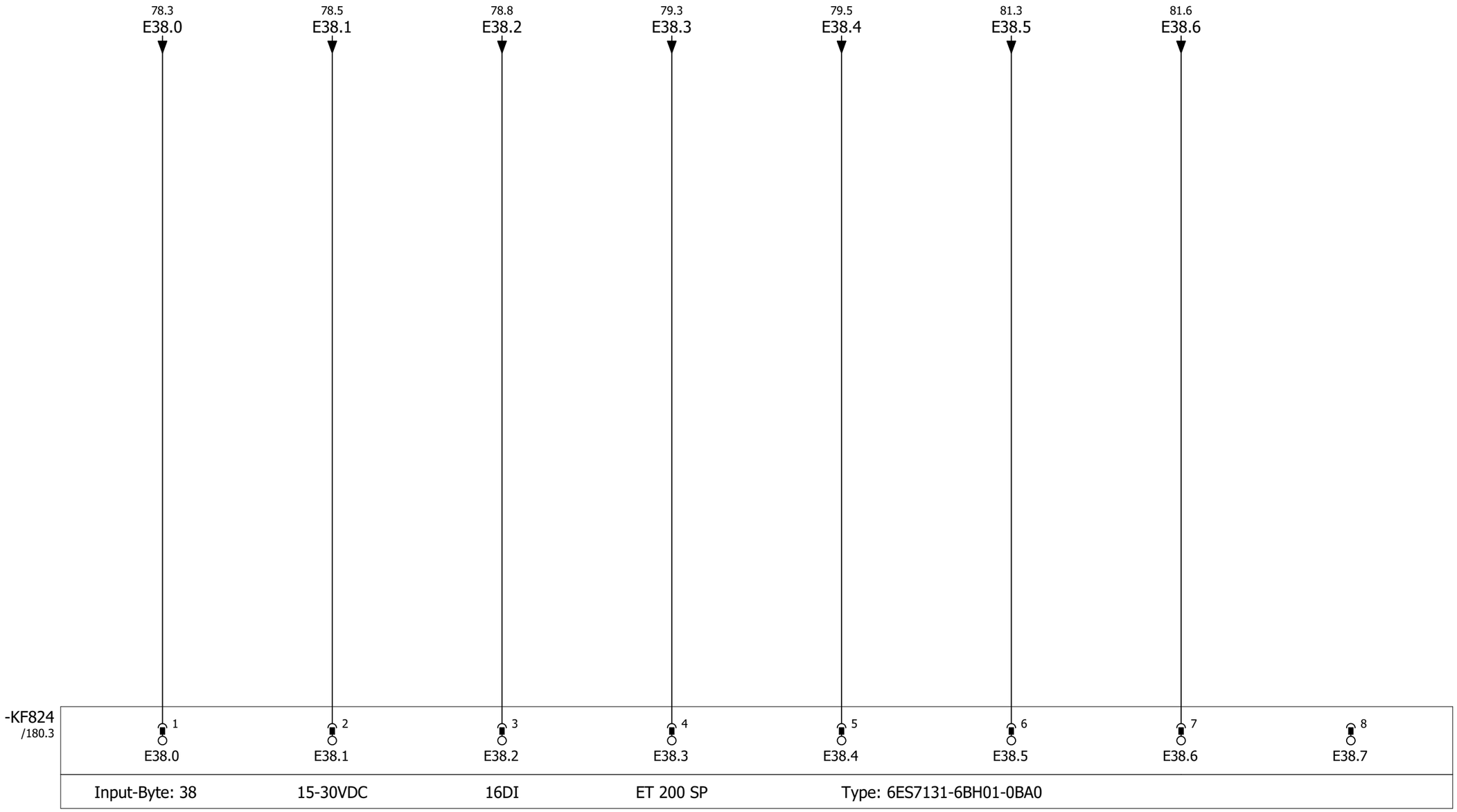
Safety switch, hydraulics OK	Safety switch, return oil pump OK	Safety switch, oil mist collector OK	Safety switch, central lubrication OK	Spare	Spare	Spare	Oil mist collector OK

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E36.0-E36.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 201
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



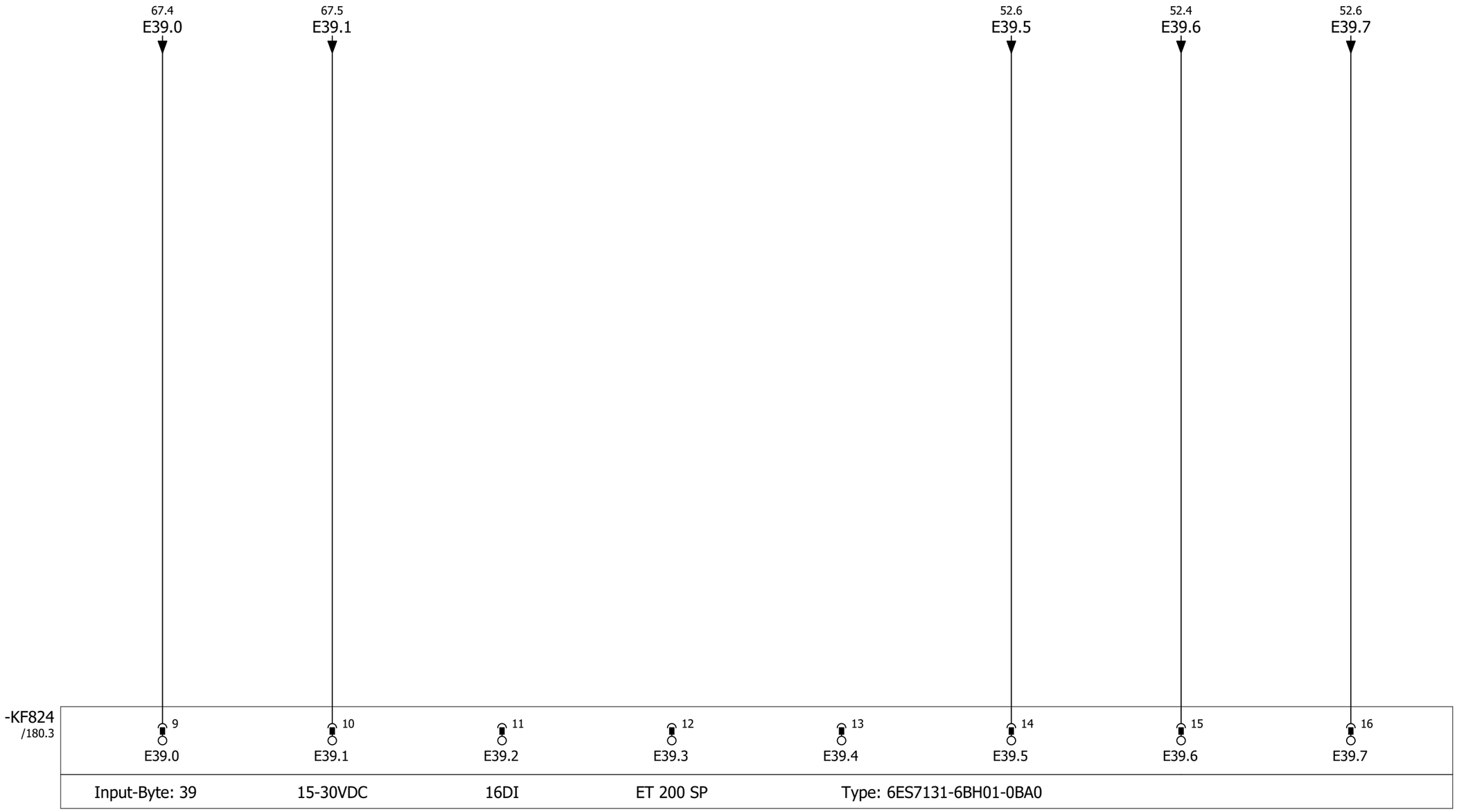
Safety switch, trafo fire extinguishing system	Safety switch, fire extinguishing system AC 230V OK	Safety switch, transformer AC 115V/230V OK	Safety switch, supply AC 230V OK	Spare	Safety switch, sockets OK	Safety switch, slewing crane OK	Air flow for oil mist collector OK

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E37.0-E37.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 202
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



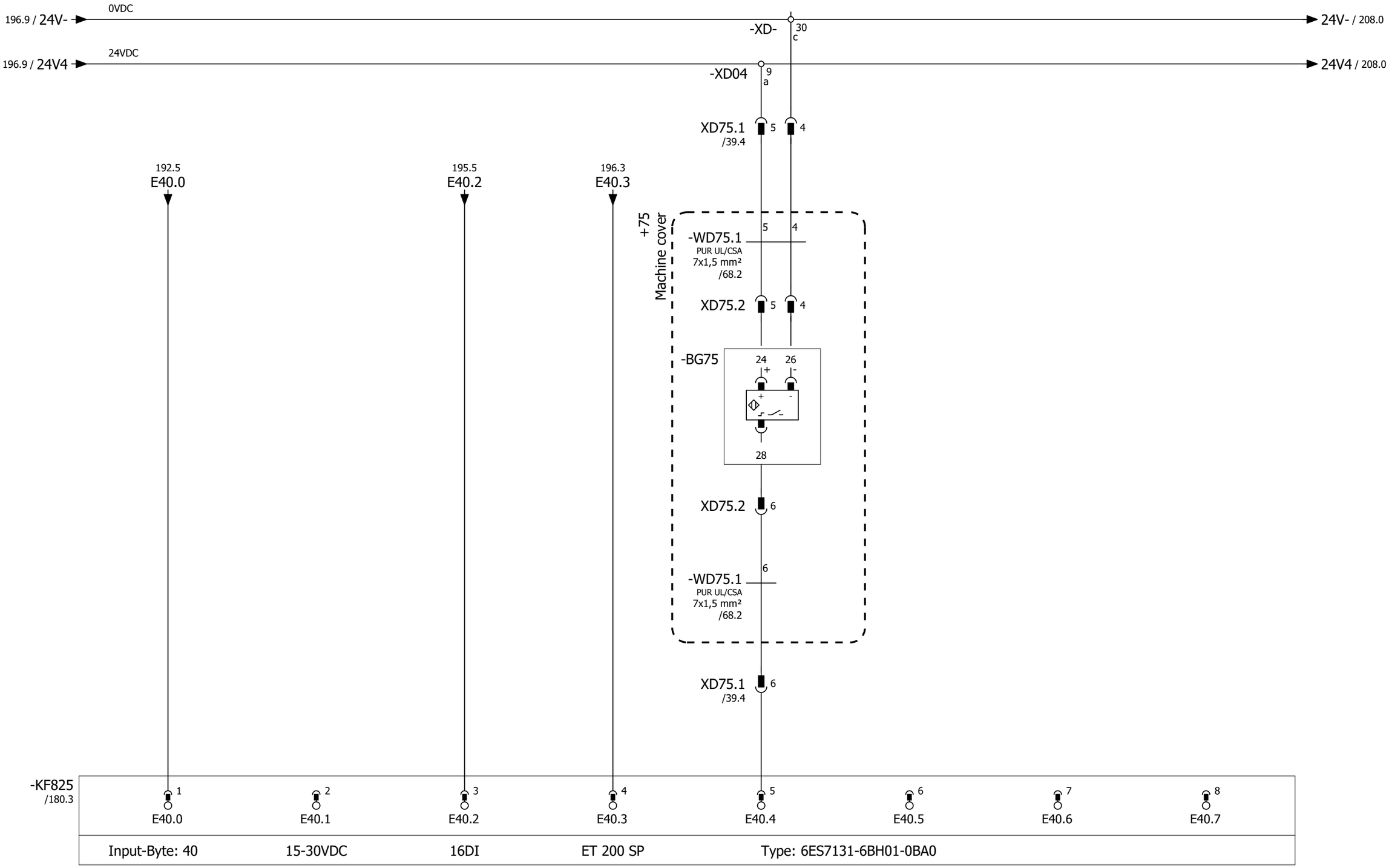
24 V supply load circuit monitoring 1 OK	24 V supply load circuit monitoring 2 OK	24 V supply load circuit monitoring 3 OK	24 V supply load circuit monitoring 4 OK	24 V supply load circuit monitoring 5 OK	24 V supply load circuit monitoring 1 drives OK	24 V supply load circuit monitoring 2 drives OK	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E38.0-E38.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 203
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Option cooling unit water OK	Option cooling unit water no fault	Spare	Spare	tracer stylus OK	fire extinguishing system fire detected	Fire extinguishing system ready to extinguish	fire extinguishing system OK

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E39.0-E39.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 204
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E40.0-E40.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 205
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

0	1	2	3	4	5	6	7	8	9

-KF825
/180.3

9	10	11	12	13	14	15	16
E41.0	E41.1	E41.2	E41.3	E41.4	E41.5	E41.6	E41.7
Input-Byte: 41	15-30VDC	16DI	ET 200 SP	Type: 6ES7131-6BH01-0BA0			
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E41.0-E41.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 206
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

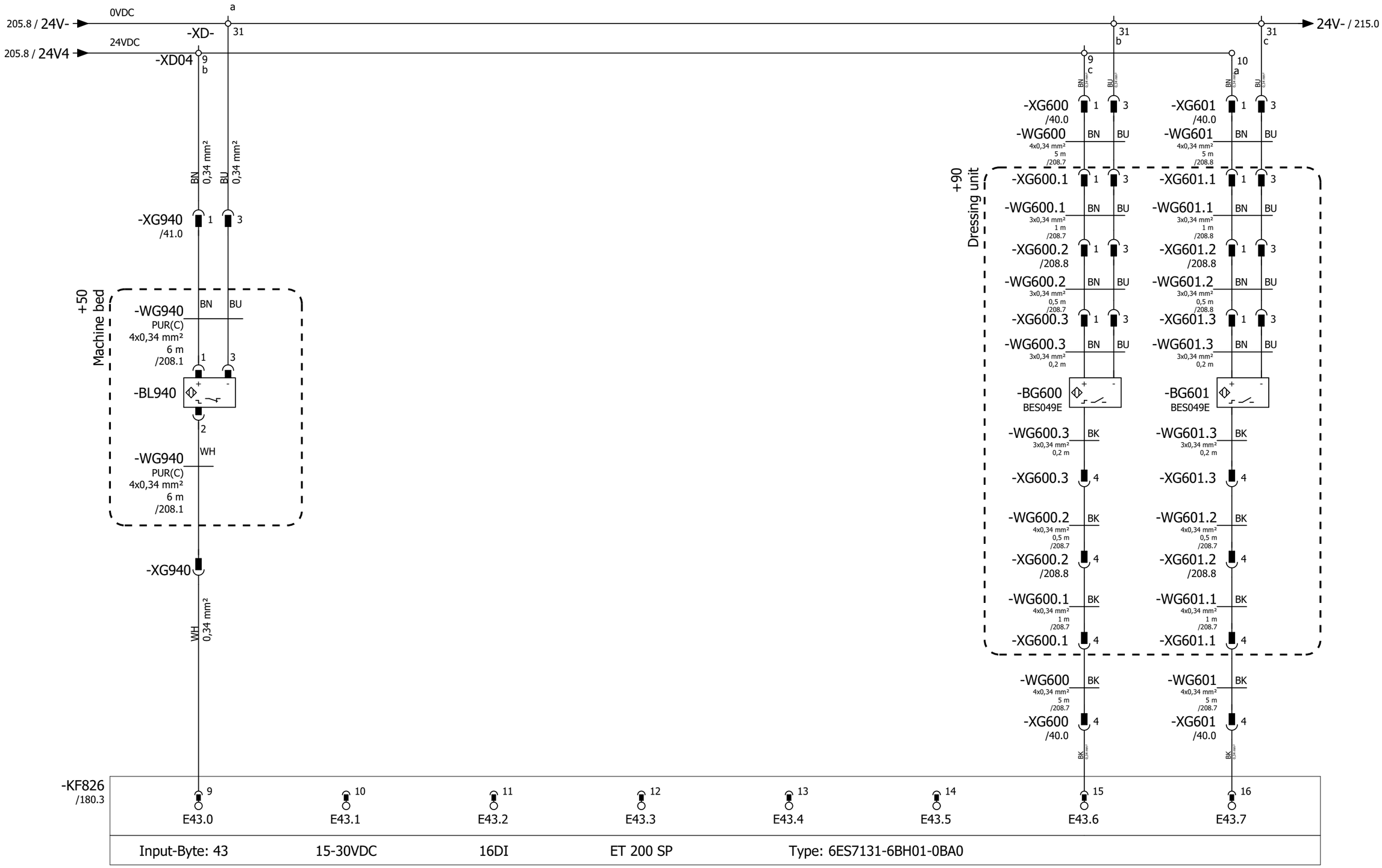
0	1	2	3	4	5	6	7	8	9

-KF826
/180.3

1	2	3	4	5	6	7	8
E42.0	E42.1	E42.2	E42.3	E42.4	E42.5	E42.6	E42.7
Input-Byte: 42	15-30VDC	16DI	ET 200 SP	Type: 6ES7131-6BH01-0BA0			
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare

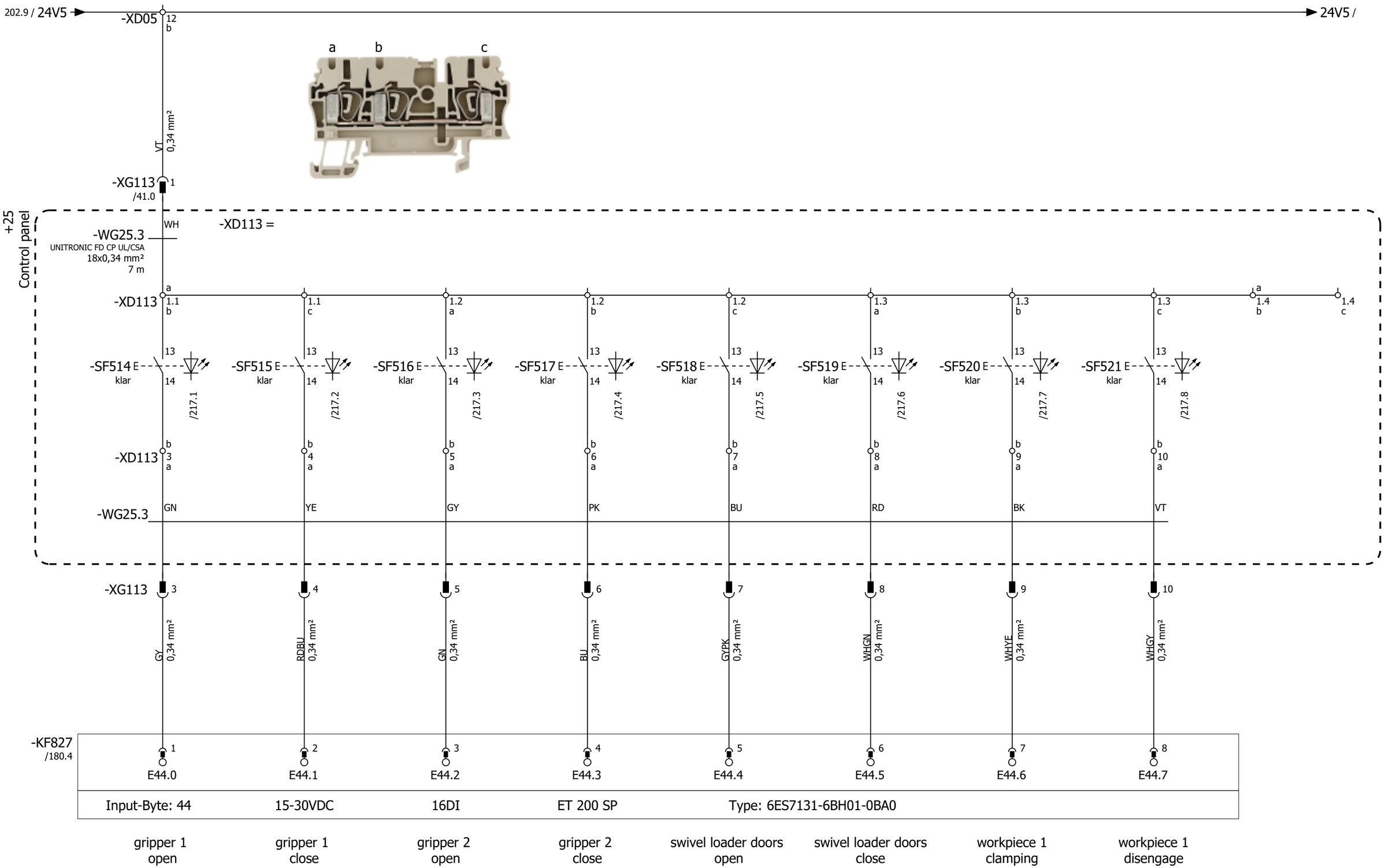
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E42.0-E42.7	433021
			edited by	Kusc_Nil				650.01.433021
			Checked					
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number

& E01
+ 10
page 207
from 230



Level leakage oil collector pan no max alarm	Spare	Spare	Spare	Spare	Spare	Head dressing at base position	Head dressing at operating position

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E43.0-E43.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 208
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

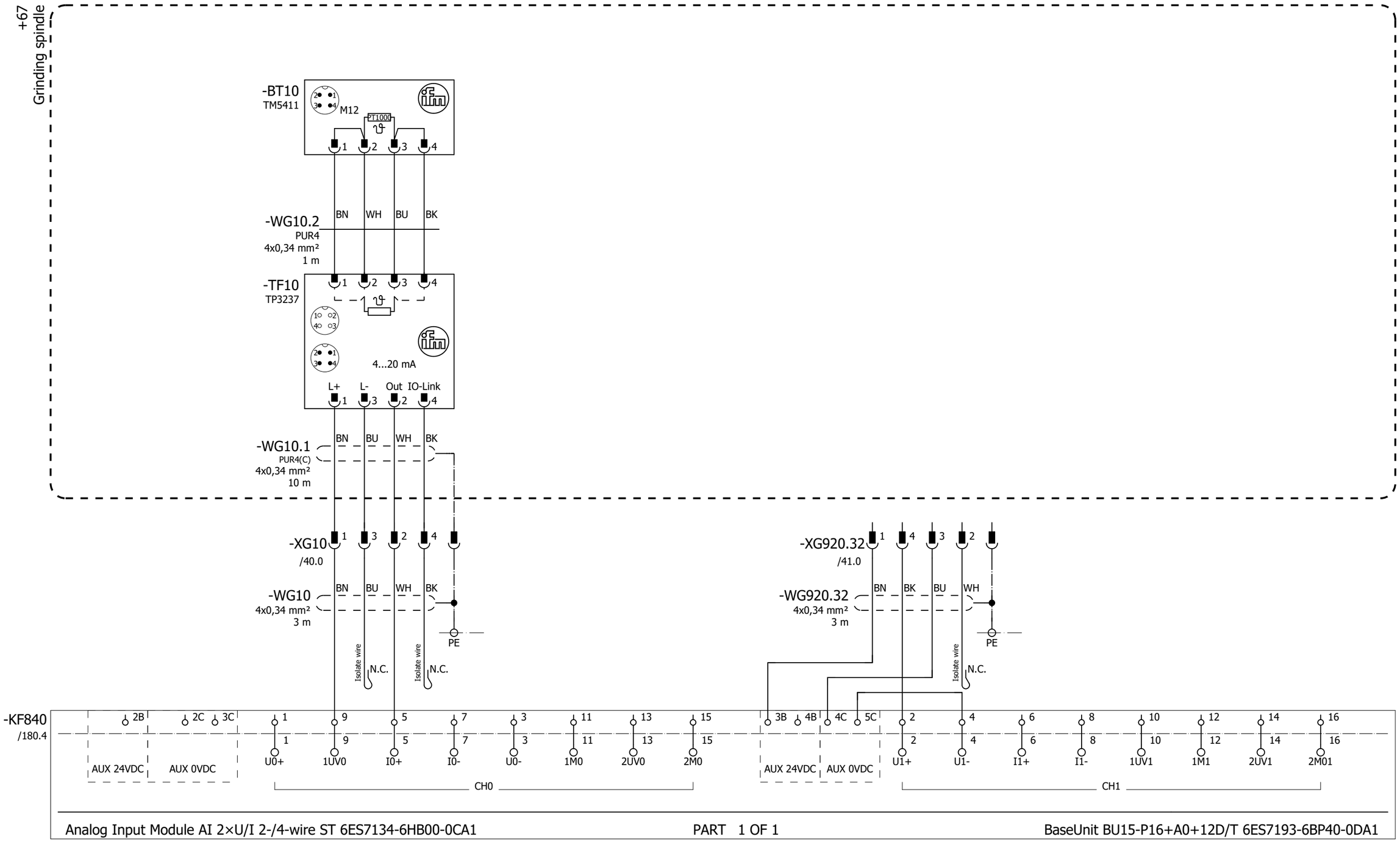

202.9 / 24V5
24V5 /
-XD05
12
b
a
b
c
VT
0,34 mm²
-XG113
/41.0
1
+25
Control panel
-XD113 =
-WG25.3
UNITRONIC FD CP UL/CSA
18x0,34 mm²
7 m
WH
-XD113
-SF514
-SF515
-SF516
-SF517
-SF518
-SF519
-SF520
-SF521
klar
/217.1
/217.2
/217.3
/217.4
/217.5
/217.6
/217.7
/217.8
-XD113
-WG25.3
GN
YE
GY
PK
BU
RD
BK
VT
-XG113
GY 0,34 mm²
RDBU 0,34 mm²
GN 0,34 mm²
BU 0,34 mm²
GYPK 0,34 mm²
WHGN 0,34 mm²
WHYE 0,34 mm²
WHGY 0,34 mm²
-KF827
/180.4
E44.0
E44.1
E44.2
E44.3
E44.4
E44.5
E44.6
E44.7
Input-Byte: 44
15-30VDC
16DI
ET 200 SP
Type: 6ES7131-6BH01-0BA0
gripper 1 open
gripper 1 close
gripper 2 open
gripper 2 close
swivel loader doors open
swivel loader doors close
workpiece 1 clamping
workpiece 1 disengage

0	1	2	3	4	5	6	7	8	9

-KF827
/180.4

9	10	11	12	13	14	15	16
E45.0	E45.1	E45.2	E45.3	E45.4	E45.5	E45.6	E45.7
Input-Byte: 45	15-30VDC	16DI	ET 200 SP	Type: 6ES7131-6BH01-0BA0			
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare

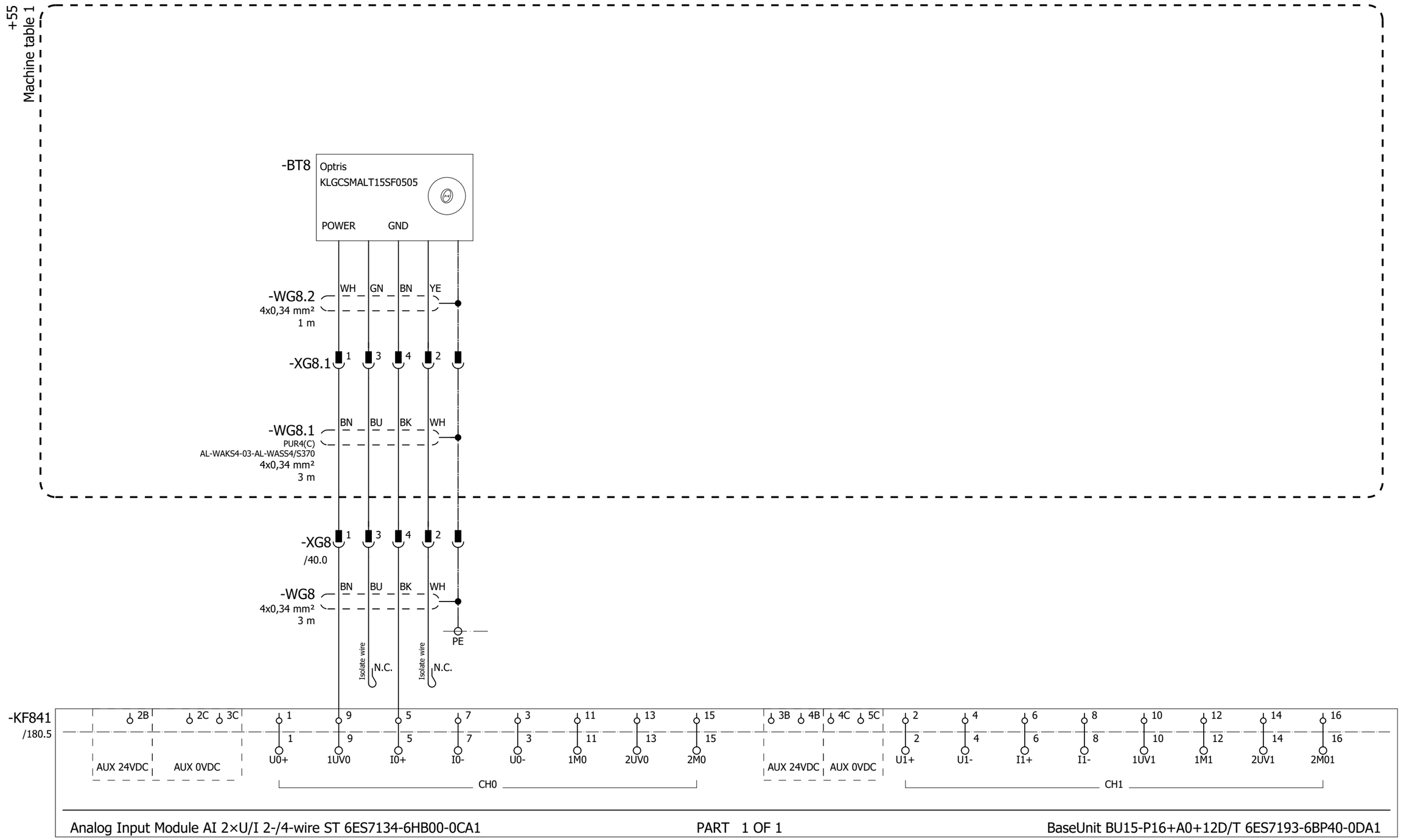
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital input module E45.0-E45.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 210
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



B-AXIS
bearing
temperature
control

tool
clamping fixture
position
actual value

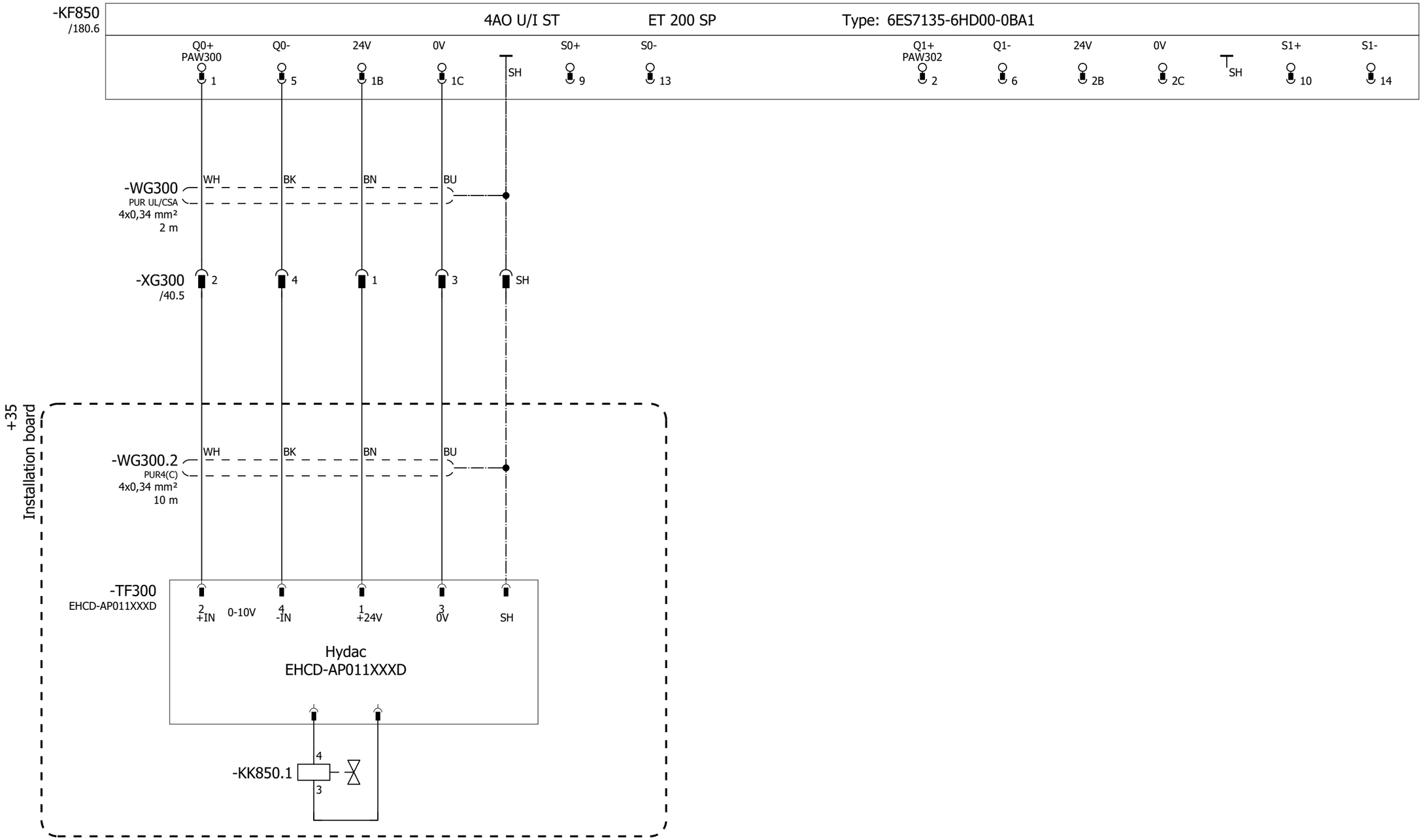
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	analogue input module 1	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 211
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



C-AXIS
bearing
temperature
control

C2-axis
bearing
temperature
control

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	analogue input module 2	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 212
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Workpiece
clamping device C1 axis
nominal value

Spare

212

214

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Analog output module PAW300/302	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 213
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF850
/180.6

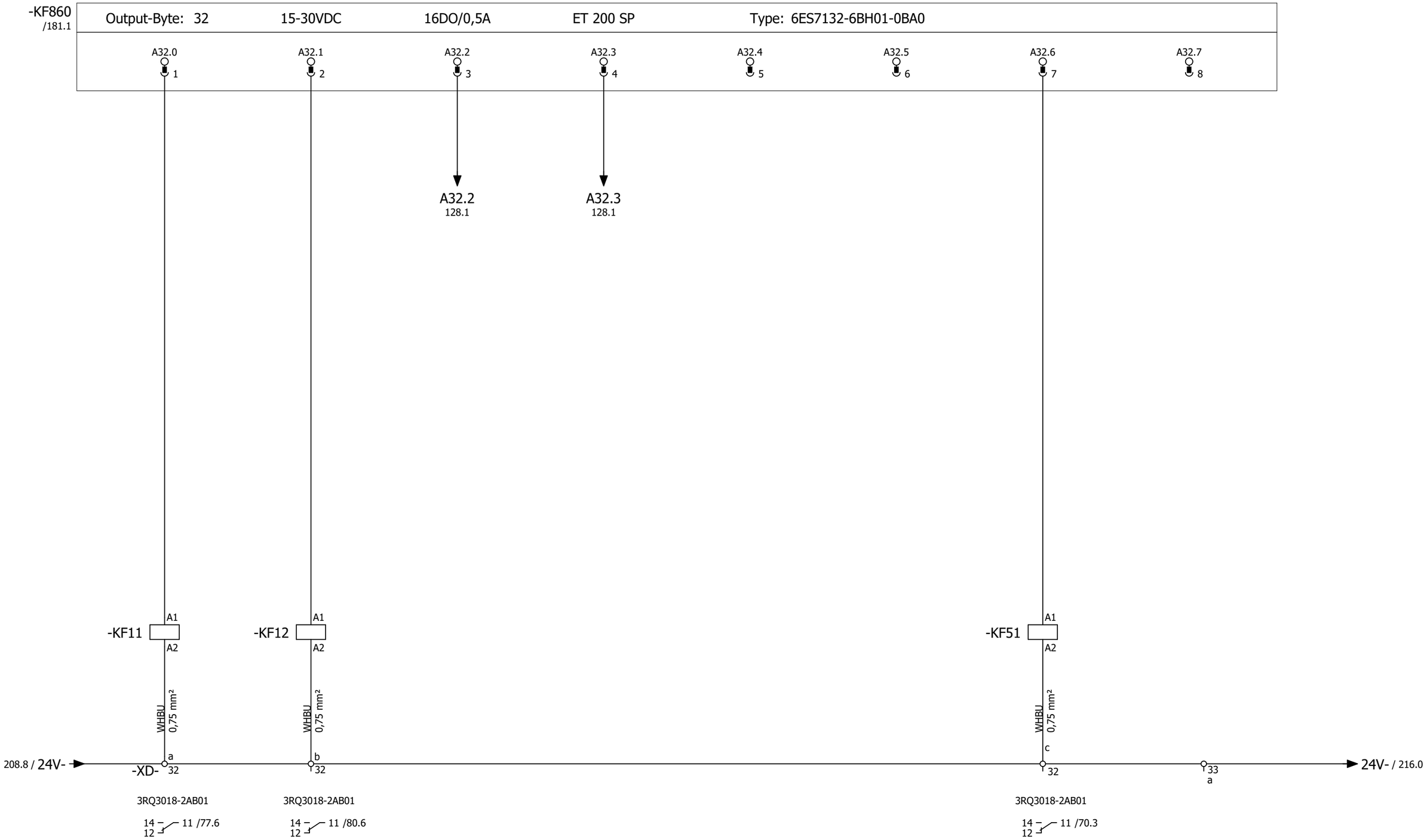
4AO U/I ST ET 200 SP Type: 6ES7135-6HD00-0BA1

Q2+ PAW304	Q2-	24V	0V	SH	S2+	S2-	Q3+ PAW306	Q3-	24V	0V	SH	S3+	S3-
3	7	3B	3C		11	15	4	8	4B	4C		12	16

Spare

Spare

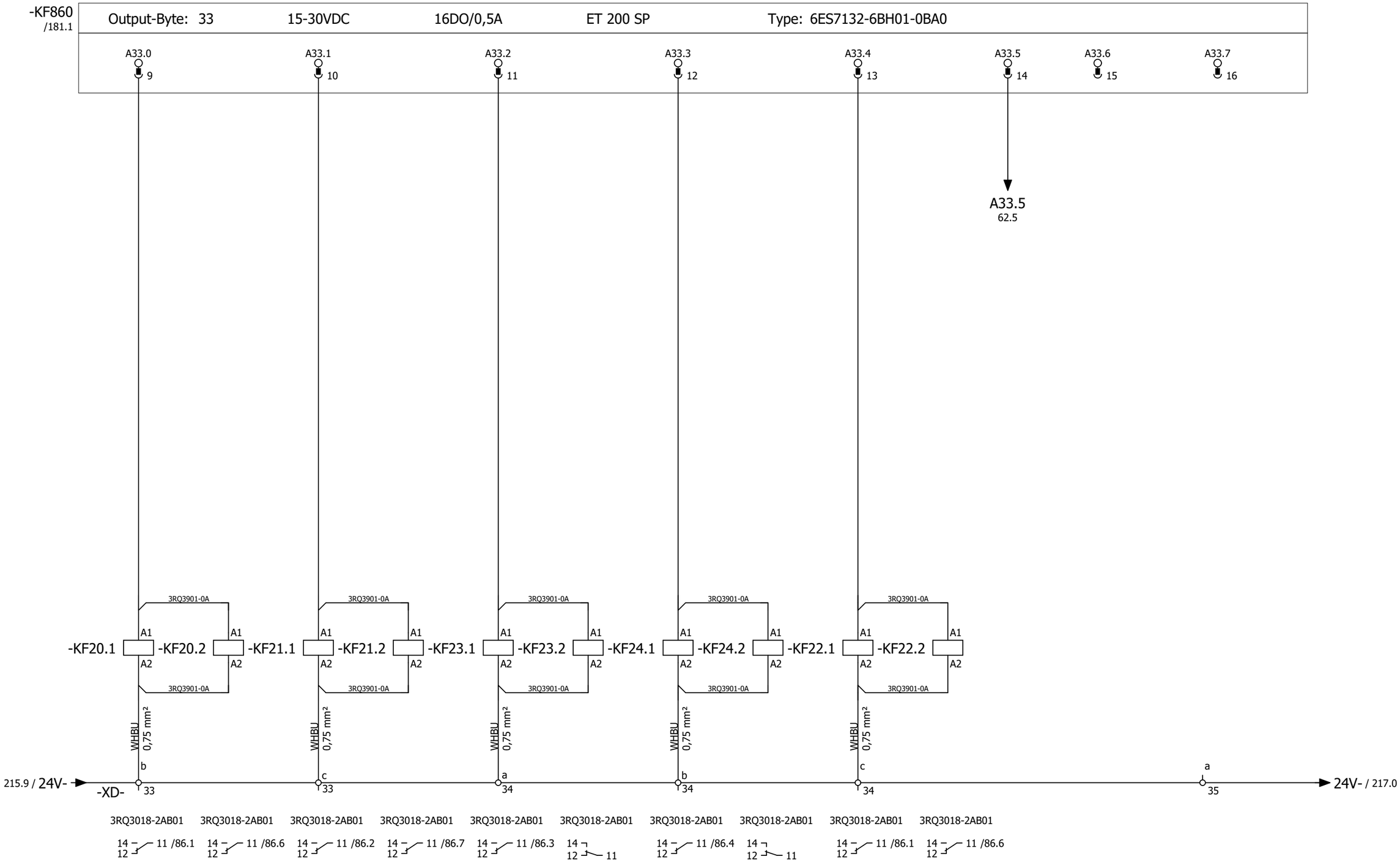
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Analog output module PAW304/306	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 214
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



A32.0	A32.1	A32.2	A32.3	A32.4	A32.5	A32.6	A32.7
Buffer operation, switch off 24V battery	Buffer operation, switch off 24V battery drives	Activate intermediate circuit quick discharge	Bremsmodul Störung quittieren	Spare	Spare	Switch on air-conditioner control cabinet	Spare

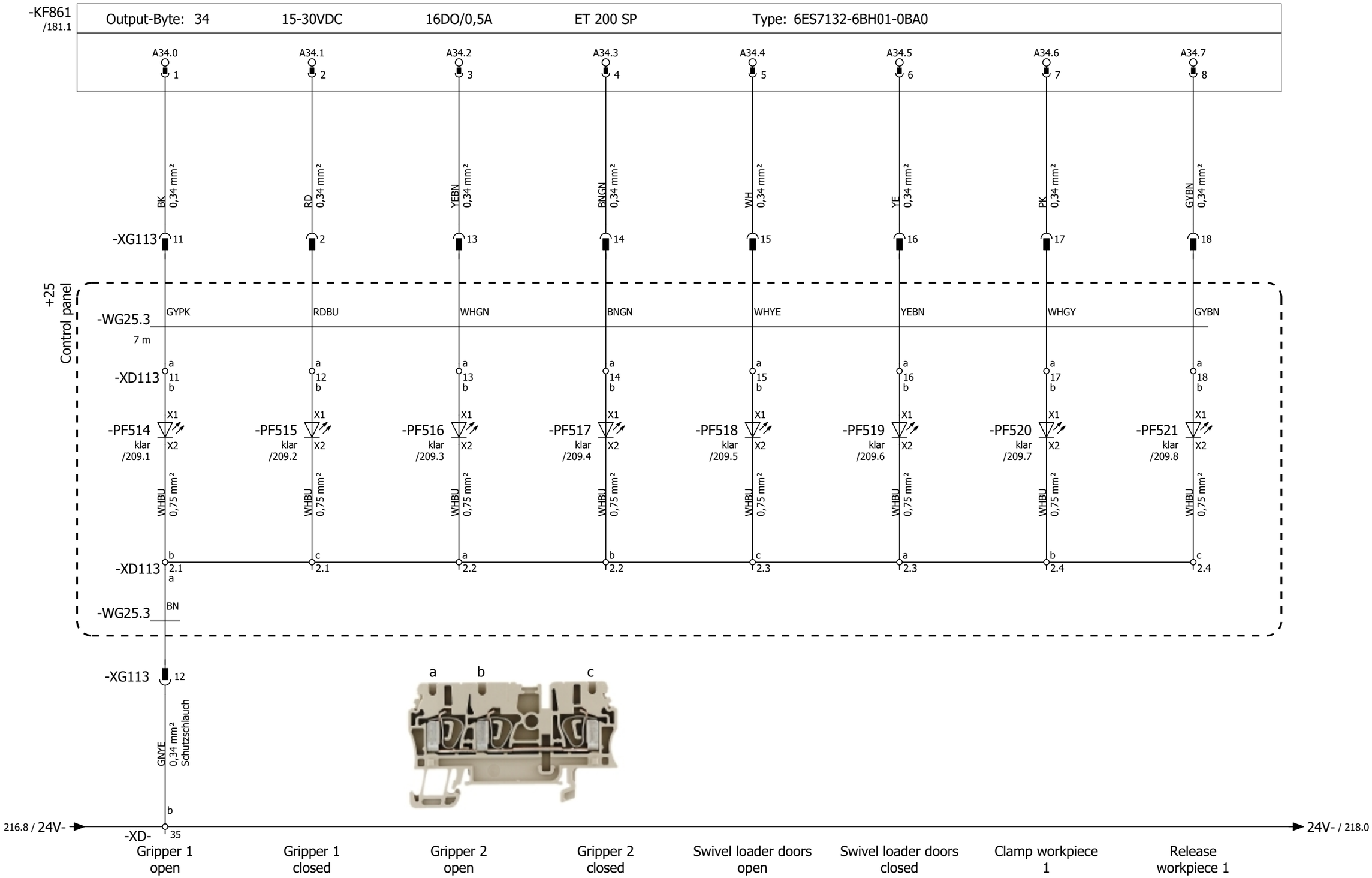
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A32.0-A32.7
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021	& E01
	+ 10
650.01.433021	page 215
drawing number	from 230



Measuring input (function 3) activate gap finding sensor 1 (on Z3)	Measuring input (function 2) activate touch grinding	Measuring input (function 4) activate NC triggering	Measuring input (function 5) activate switching measuring probe	Measuring input (function 10) activate gap finding sensor 2 (on Z4)	Switch on control cabinet lighting	Temperature evaluation unit bearing reset					

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A33.0-A33.7	433021	&	E01
			edited by	Kusc_Nil					+	10
			Checked					650.01.433021	page	216
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from	230

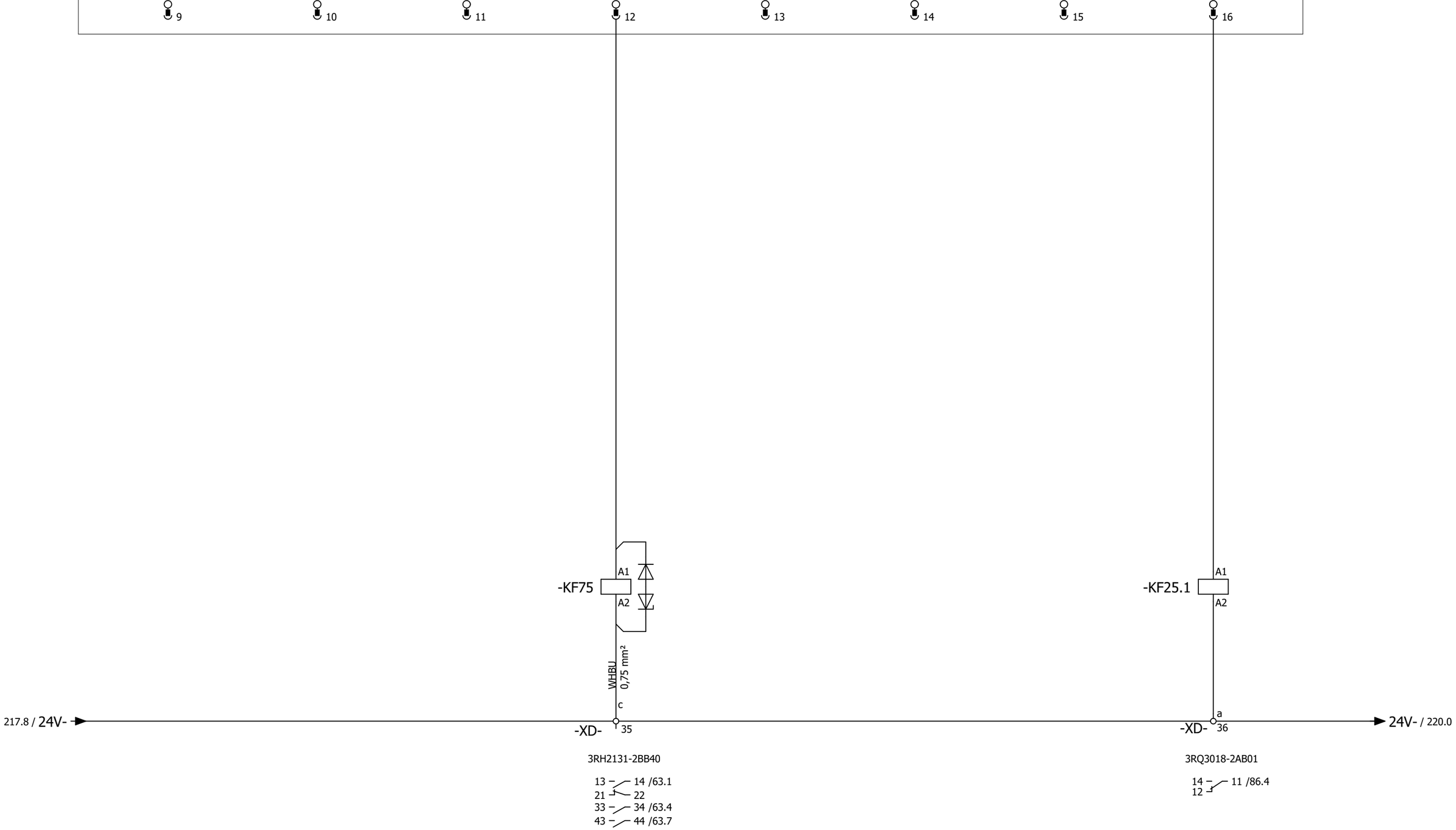


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A34.0-A34.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 217
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF861
/181.1

Output-Byte: 35 | 15-30VDC | 16DO/0,5A | ET 200 SP | Type: 6ES7132-6BH01-0BA0

A35.0	A35.1	A35.2	A35.3	A35.4	A35.5	A35.6	A35.7
9	10	11	12	13	14	15	16



Spare	Spare	Spare	Switch on lighting in working chamber	Spare	Spare	Spare	measuring input orientation grinding wheel

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A35.0-A35.7
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021
650.01.433021
drawing number

& E01
+ 10
page 218
from 230

-KF862
/181.2

Output-Byte: 36	15-30VDC	16DO/0,5A	ET 200 SP	Type: 6ES7132-6BH01-0BA0

A36.0	A36.1	A36.2	A36.3	A36.4	A36.5	A36.6	A36.7
1	2	3	4	5	6	7	8
A36.0 192.5		A36.2 195.5					
LED safety switch main guard door not locked	Spare	LED safety switch loader door not locked	Spare	reset	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A36.0-A36.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 219
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF862
/181.2

Output-Byte: 37	15-30VDC	16DO/0,5A	ET 200 SP	Type: 6ES7132-6BH01-0BA0

A37.0	A37.1	A37.2	A37.3	A37.4	A37.5	A37.6	A37.7
9	10	11	12	13	14	15	16

218.9 / 24V- → ← 24V- / 222.0

Spare Spare Spare Spare Spare Spare Spare Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A37.0-A37.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 220
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF863
/181.3

Output-Byte: 38 | 15-30VDC | 4DO/2A | ET 200 SP | Type: 6ES7132-6BD20-0BA0

DQ0 A38.0	24 V-	DQ1 A38.1	24 V-	DQ2 A38.2	24 V-	DQ3 A38.3	24 V-
1	9	2	10	3	11	4	12
A38.0 192.5				A38.2 195.5			
Door switch, unlock operator door		Spare		safety switch loader door unlock		Spare	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A38.0-A38.3	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 221
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

-KF864
/181.3

Output-Byte: 40	15-30VDC	16DO/0,5A	ET 200 SP	Type: 6ES7132-6BH01-0BA0

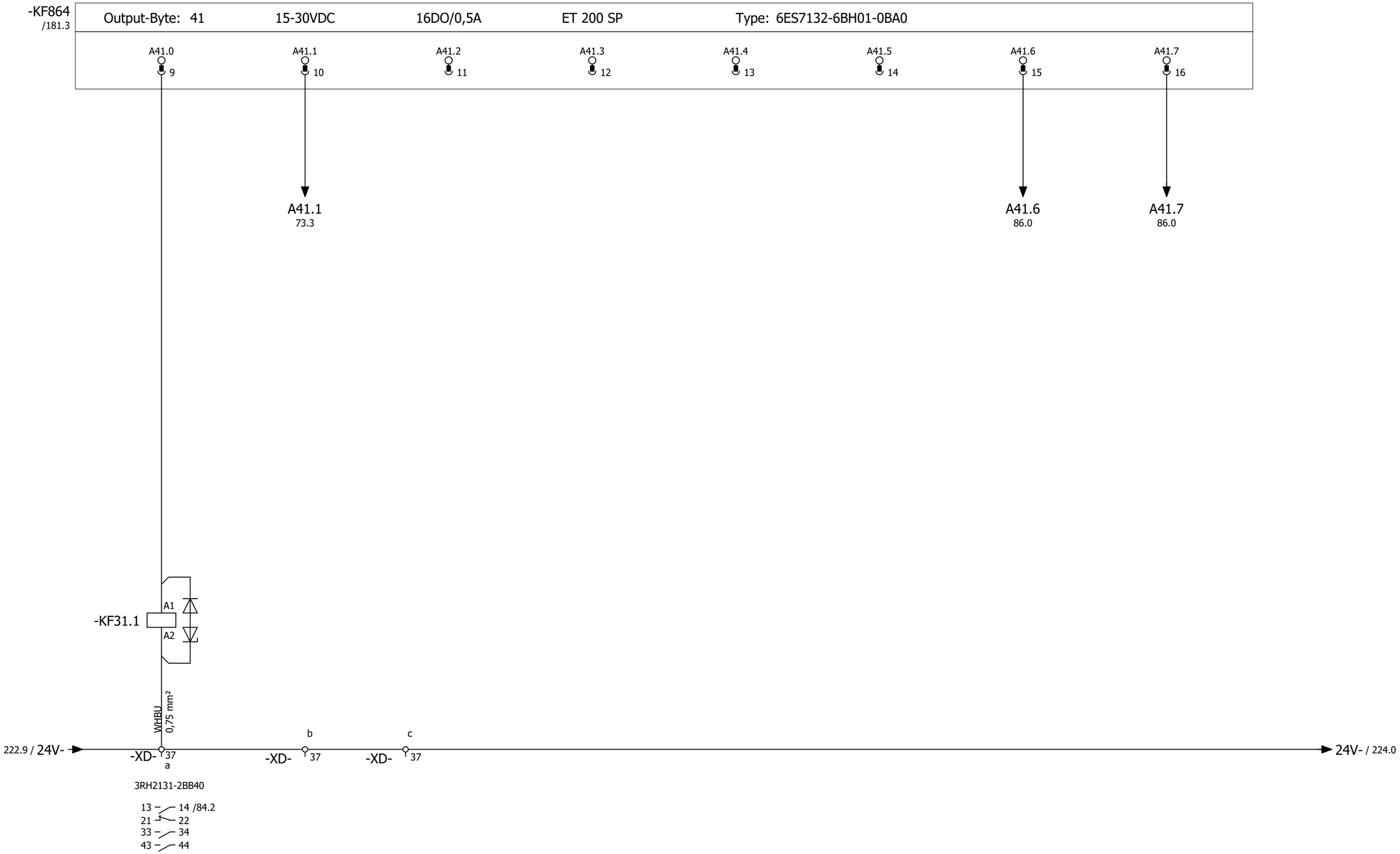
A40.0	A40.1	A40.2	A40.3	A40.4	A40.5	A40.6	A40.7
1	2	3	4	5	6	7	8
A40.0		A40.2		A40.4	A40.5		
67.3		72.3		76.4	76.4		

220.8 / 24V- → -XD- b 36 / 36 c → 24V- / 223.0

option cooling unit Water switch on	Spare	Switch on pump hydraulics	Spare	Switch on extraction for oil mist	Switch on extraction for oil mist 100 %	Spare	Spare

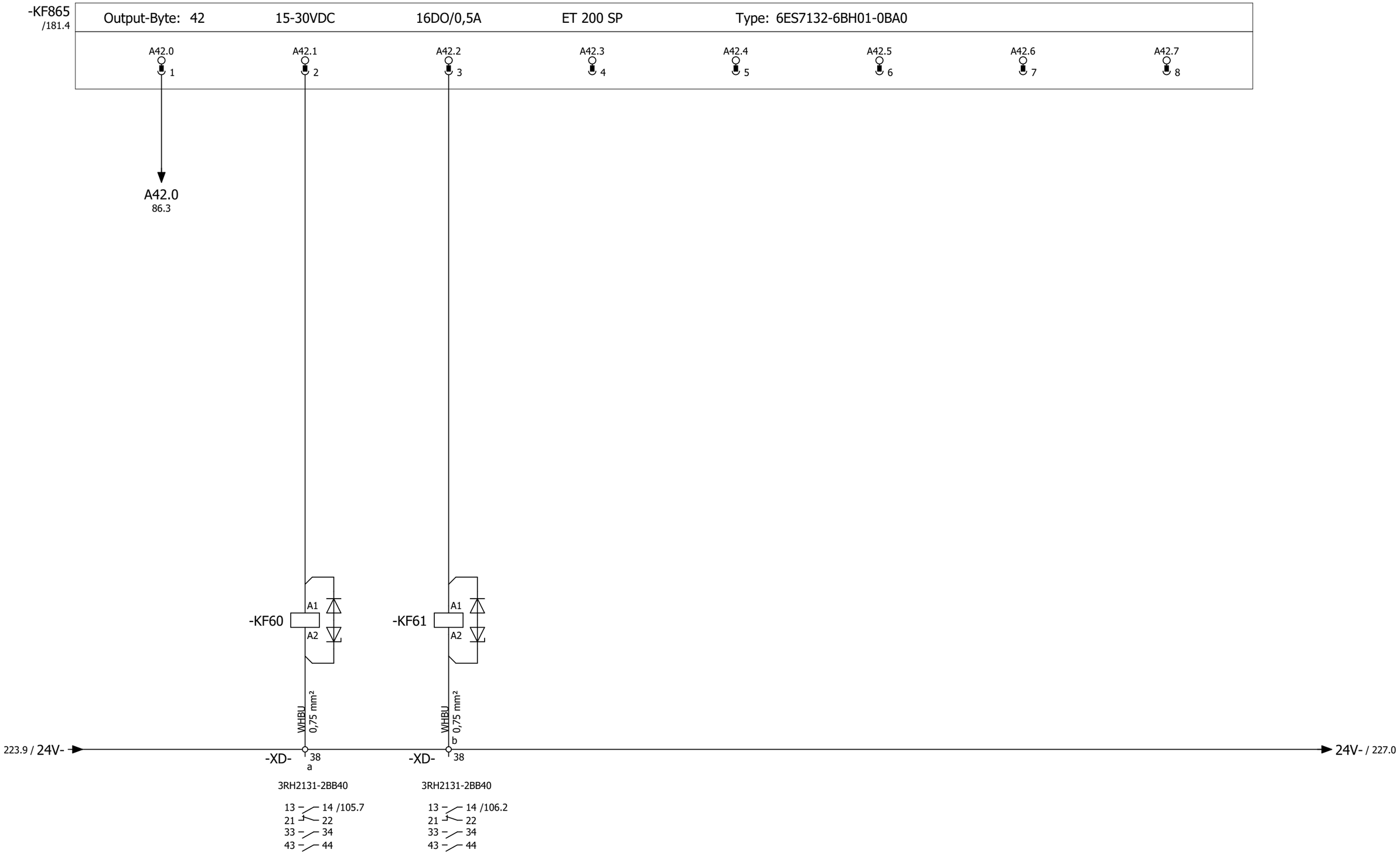
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A40.0-A40.7
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021	& E01
	+ 10
650.01.433021	page 222
drawing number	from 230



Central lubrication grease On	Return oil pump grinding oil On	Spare	Spare	Spare	Spare	Off 1 activate "pulse release"	Off 3 activate "controller release"

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A41.0-A41.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 223
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



Undo clamping A axis	Release brake 1 Z axis	Release brake 2 Z axis	Spare	Spare	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A42.0-A42.7
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021	& E01
	+ 10
650.01.433021	page 224
drawing number	from 230

-KF865
/181.4

Output-Byte: 43	15-30VDC	16DO/0,5A	ET 200 SP	Type: 6ES7132-6BH01-0BA0

A43.0	A43.1	A43.2	A43.3	A43.4	A43.5	A43.6	A43.7
9	10	11	12	13	14	15	16
Spare	Spare	Spare	Spare	Spare	Spare	Spare	Spare

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A43.0-A43.7	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 225
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

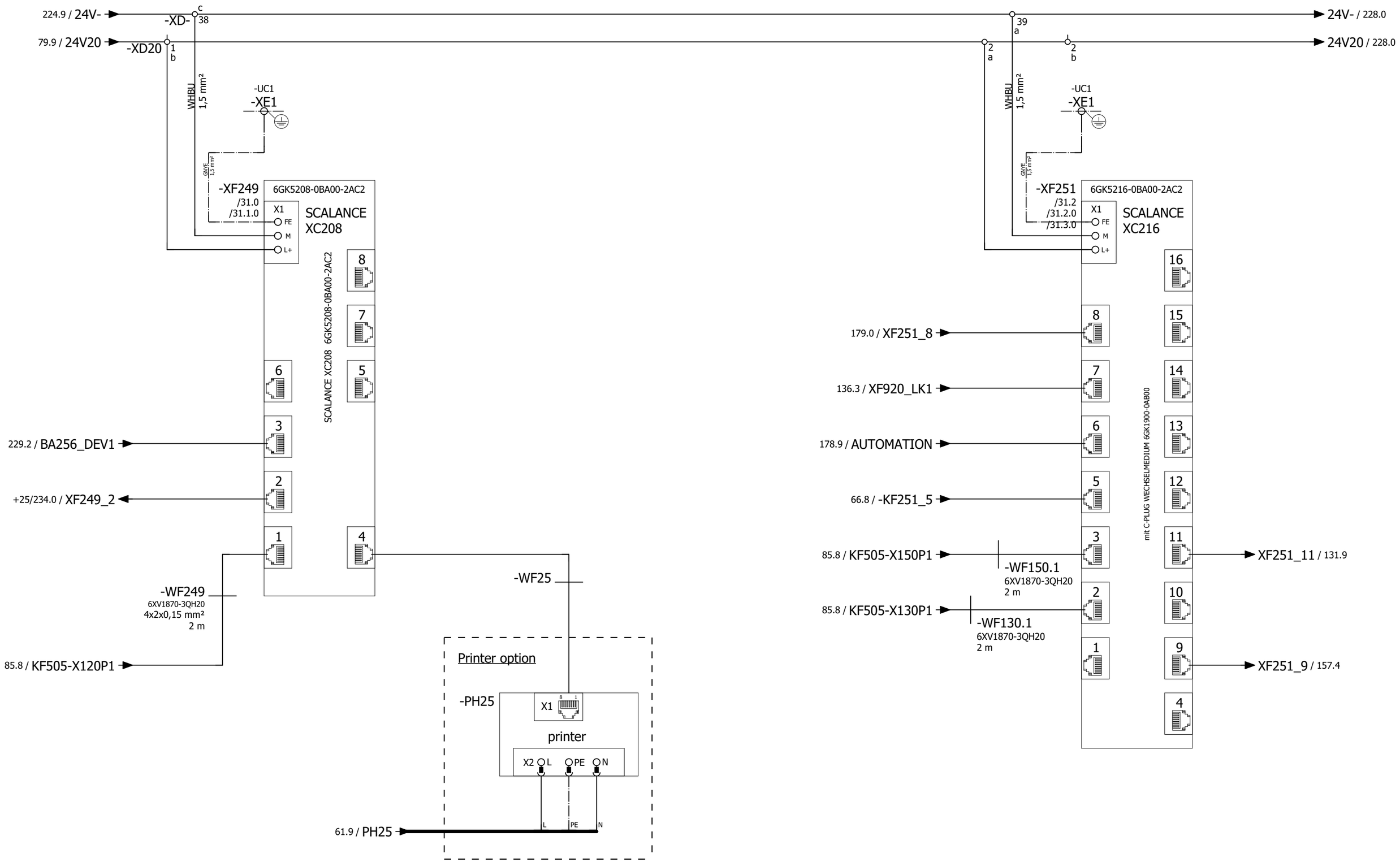
-KF866
/181.5

Output-Byte: 44 | 15-30VDC | 4DO/2A | ET 200 SP | Type: 6ES7132-6BD20-0BA0

DQ0 A44.0	24 V-	DQ1 A44.1	24 V-	DQ2 A44.2	24 V-	DQ3 A44.3	24 V-
1	9	2	10	3	11	4	12

Spare | Spare | Spare | Spare

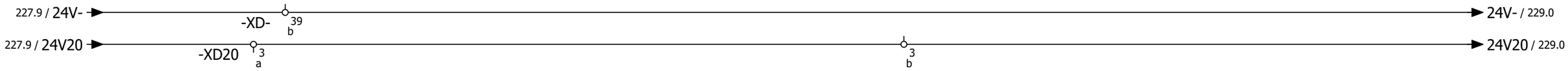
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Digital output module A49.0-A49.3	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 226
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



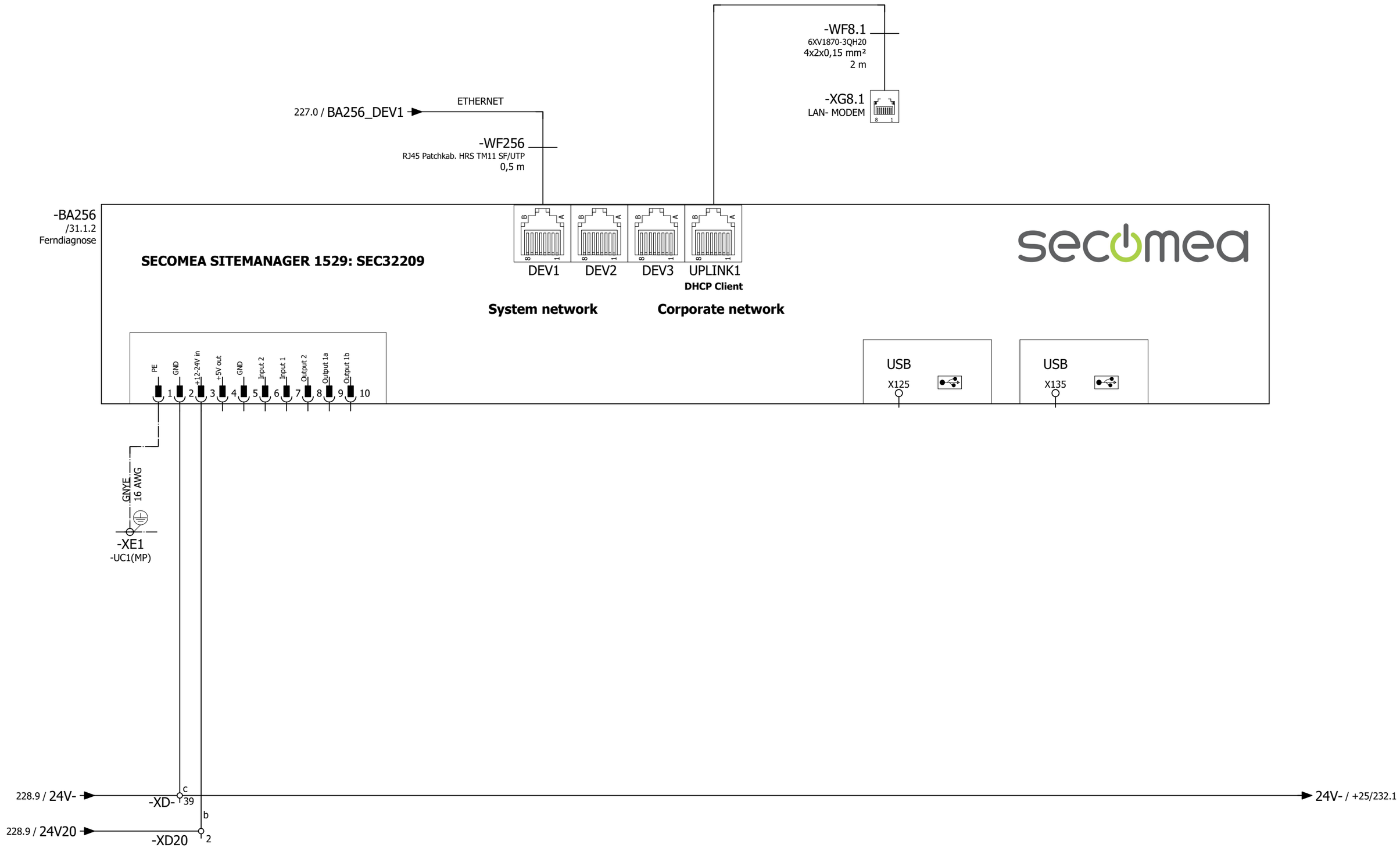
226

228

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Switch, plotter	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 227
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Spare	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 228
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

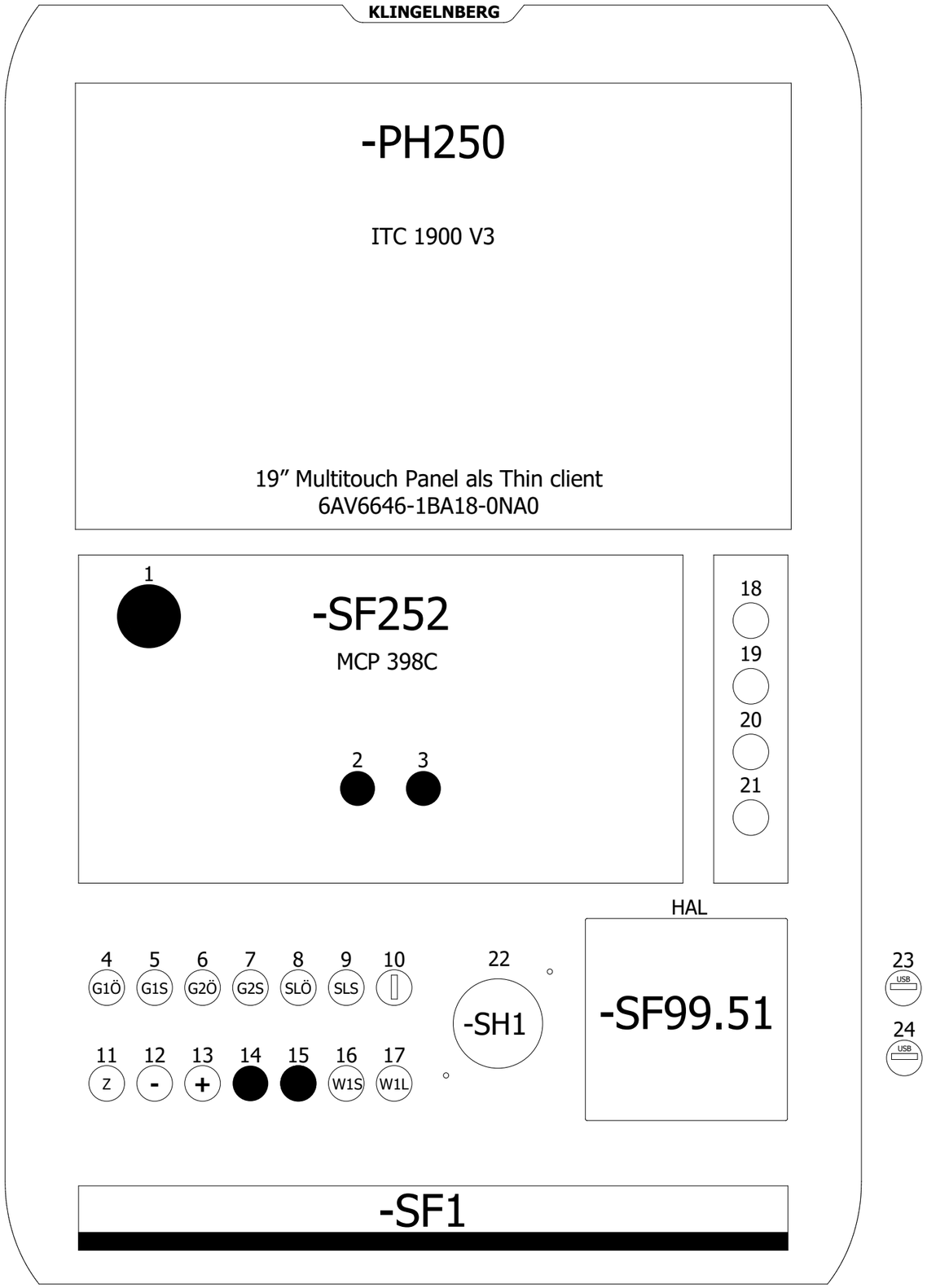


228 230

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Remote diagnostics	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 229
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

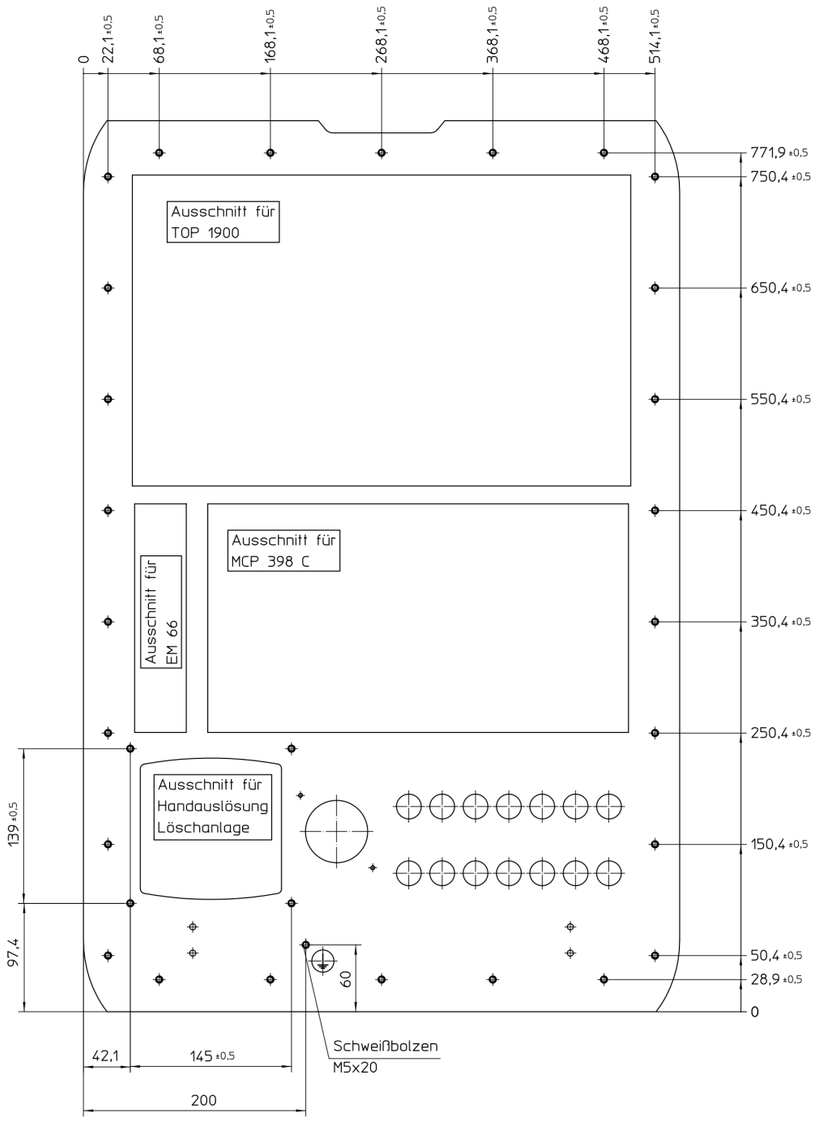
0	1	2	3	4	5	6	7	8	9

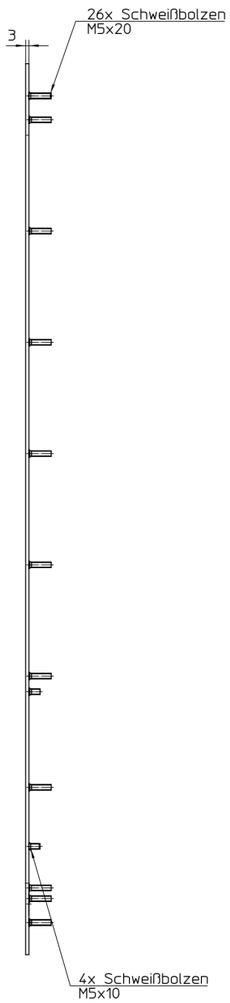
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Reserve terminals	433021	& E01
			edited by	Kusc_Nil					+ 10
			Checked					650.01.433021	page 230
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 230

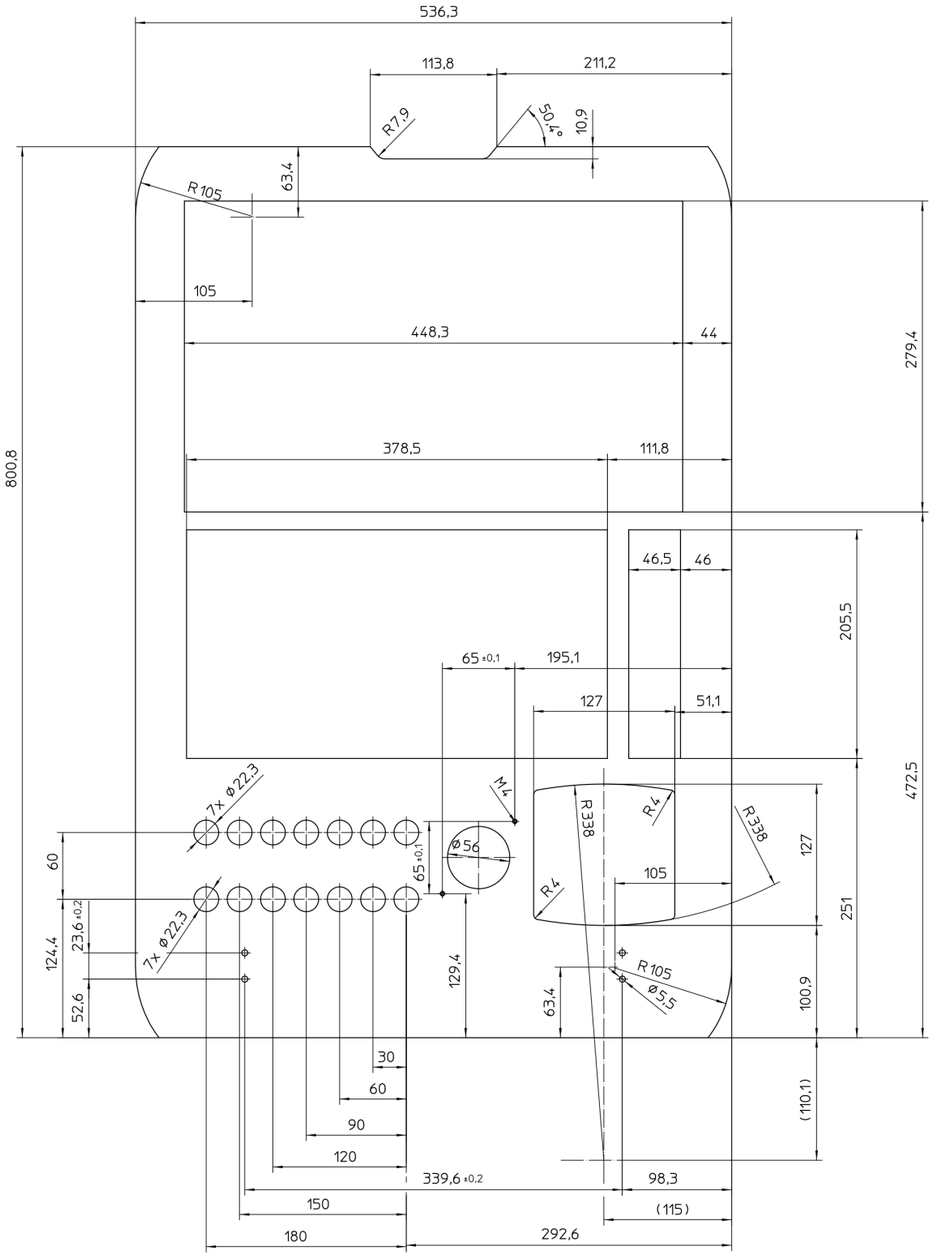


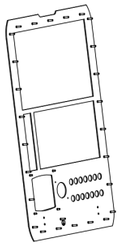
Key for integrated screen (keys / switches)

no.	Object identification	function	!!!WORT FEHLT!!!
1	-SF506	emergency stop	!!!WORT FEHLT!!!
2	-SF505/-PF505	!!!WORT FEHLT!!!	SYSTEM OFF
3	-SF504/-PF504	!!!WORT FEHLT!!!	SYSTEM ON
4	-SF514/-PF514	GREIFER 1 AUF	GRIPPER 1 OPEN
5	-SF515/-PF515	GREIFER 1 ZU	GRIPPER 1 CLOSED
6	-SF516/-PF516	GRIEFER 2 AUF	GRIPPER 2 OPEN
7	-SF517/-PF517	GRIEFER 2 ZU	GRIPPER 2 CLOSED
8	-SF518/-PF518	SCHWENKLADERTÜR AUF	INTERNAL LOADER DOOR OPEN
9	-SF519/-PF519	SCHWENKLADER TÜR ZU	INTERNAL LOADER DOOR CLOSED
10	-SF11	EINRICHTEN 0 1	SETUP 0 1
11	-SF20	ZUSTIMMUNG	APPROVAL
12	-SF21	VERFAHREN -	DRIVE -
13	-SF22	VERFAHREN +	DRIVE +
14	-SF507/-PF507	VORRICHTUNG SPANNEN (Option)	
15	-SF508/-PF508	VORRICHTUNG LÖSEN (Option)	
16	-SF520/-PF520	WERKSTÜCK 1 SPANNEN	WORKPIECE 1 CLAMP
17	-SF521/-PF521	WERKSTÜCK 1 LÖSEN	WORKPIECE 1 UNCLAMP
18		Reserve extension screen	
19		Reserve extension screen	
20		Reserve extension screen	
21		Reserve extension screen	
22	-SH1	handwheel	!!!WORT FEHLT!!!
HAL	-SF99.51	CO2 fire extinguishing system manual release	FIRE EXTINGUISHER MANUAL RELEASE
23	-XG10.1	USB 2 IPC	USB 2 IPC
24	-XG10	USB 1 PANEL	USB 1 PANEL









Keine Kennzeichnung auf Bauteil erlaubt

Für diese Zeichnung behalten wir uns alle Rechte vor. Ohne unsere vorherige Zustimmung darf diese Zeichnung weder vervielfältigt noch Dritten zugänglich gemacht werden, und sie darf durch den Empfänger oder Dritte auch nicht in anderer Weise mißbräuchlich verwendet werden. Zuwiderhandlungen verpflichten zu Schadensersatz und können strafrechtliche Folgen haben.

KLINGELNBERG GmbH
Hückeswagen

Werkstückkennzeichnung
An der vorgegebenen Stelle müssen die Werkstücke mit der im Schriftfeld aufgeführten Material-Nr. gekennzeichnet werden. Die Kennzeichnungsart darf die Funktion des Werkstückes nicht beeinträchtigen. Bei Platzmangel ist die Kennzeichnung durch geeignete Maßnahmen sicherzustellen.

Nr	MF	Material-Nr.	Änderungs-Mitteilung	Datum	Name
9					
8					
7					
6					
5					
4					
3					
2					
1					
0					

Por'mal	Abmaße		Datum	Name
		Gez.	27.05.2019	SCHEIDER_K
		Gepr.	27.05.2019	LUMPP
		Norm-gepr.		

Maßstab 1:2,5

Werkstück-kennzeichng.

Vergütet auf | Gehärtet | Einsatzgehärtet | Einsatzhärtetiefe ( ) | WEA gepr. Datum Name

W.T.-Nr.

Allgemeintoleranzen f. Gußteile n. DIN 1685 + 1686 - GTB 17

Modell-Nummer

Werkstoff Al eloxiert schwarz

Für diese Zeichnung behalten wir uns alle Rechte vor.

Material-Nr. Rohteil-Gußteile

Allgemeintoleranzen

	bis	6 mm ±0,1 mm
Über	6 bis	30 mm ±0,2 mm
Über	30 bis	120 mm ±0,3 mm
Über	120 bis	400 mm ±0,5 mm
Über	400 bis	1000 mm ±0,8 mm
Über	1000 bis	2000 mm ±1,2 mm

DIN A Zeichnung 1 465.0089.0045 Version 00

Material-Nr. 485931A

Fertiggewicht: ca.

Benennung
FRONTPLATTE SV/SV2 MIT HANDAUSLÖSUNG NEU

Ersetzt durch:
Ersatz für:

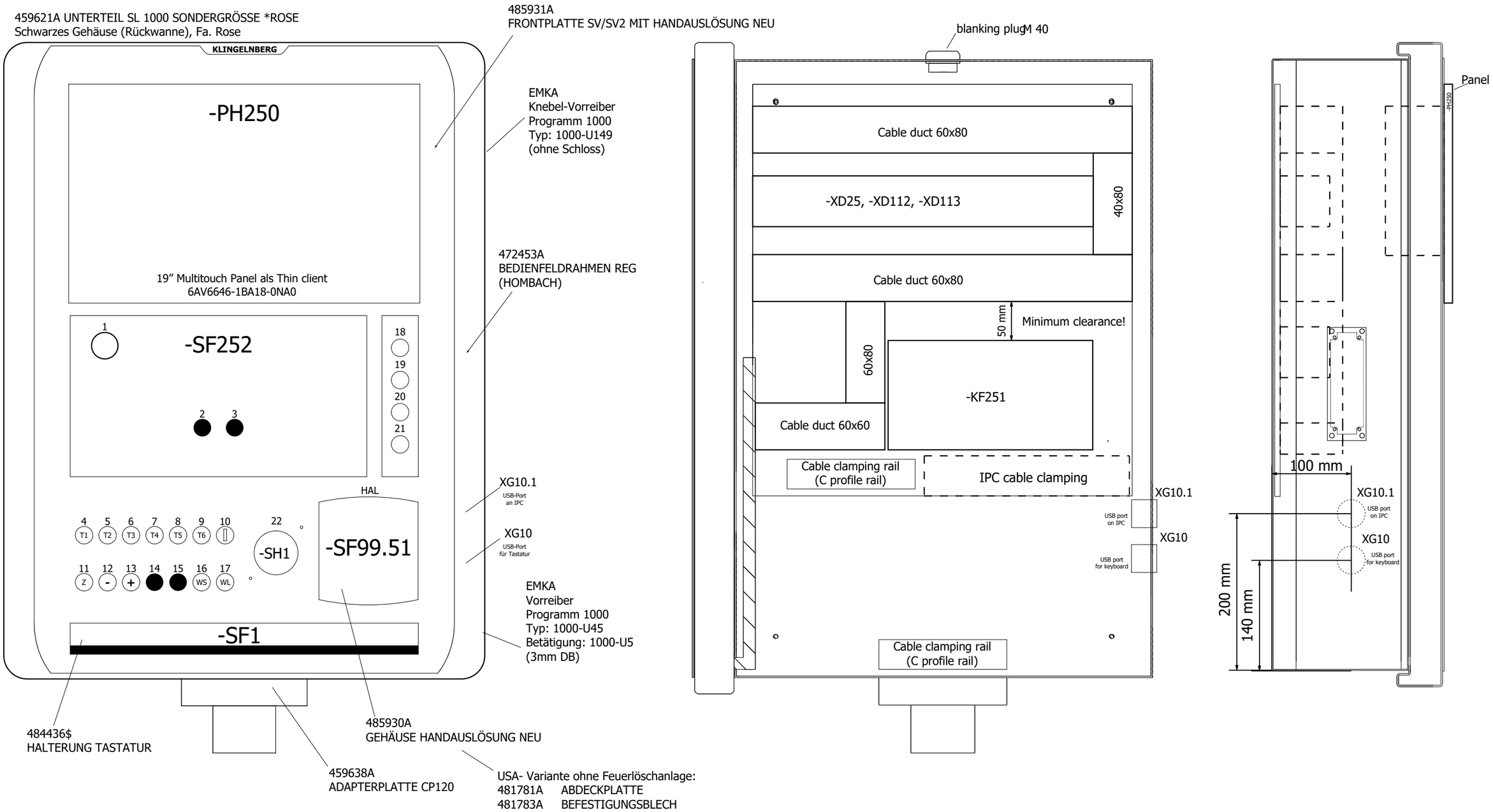
Klingelnberg GmbH
Hückeswagen

485931A_EXT_RIPK_OLA 28.08.2019 freigegeben

SAP 1.9

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Speed Viper front plate	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 229
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

SV/SV²
ROSE Gehäuse
mit HOMBACH Kunststoff Rahmen
Frontplatte ALU eloxiert schwarz
mit "neuen Siemens Elementen"



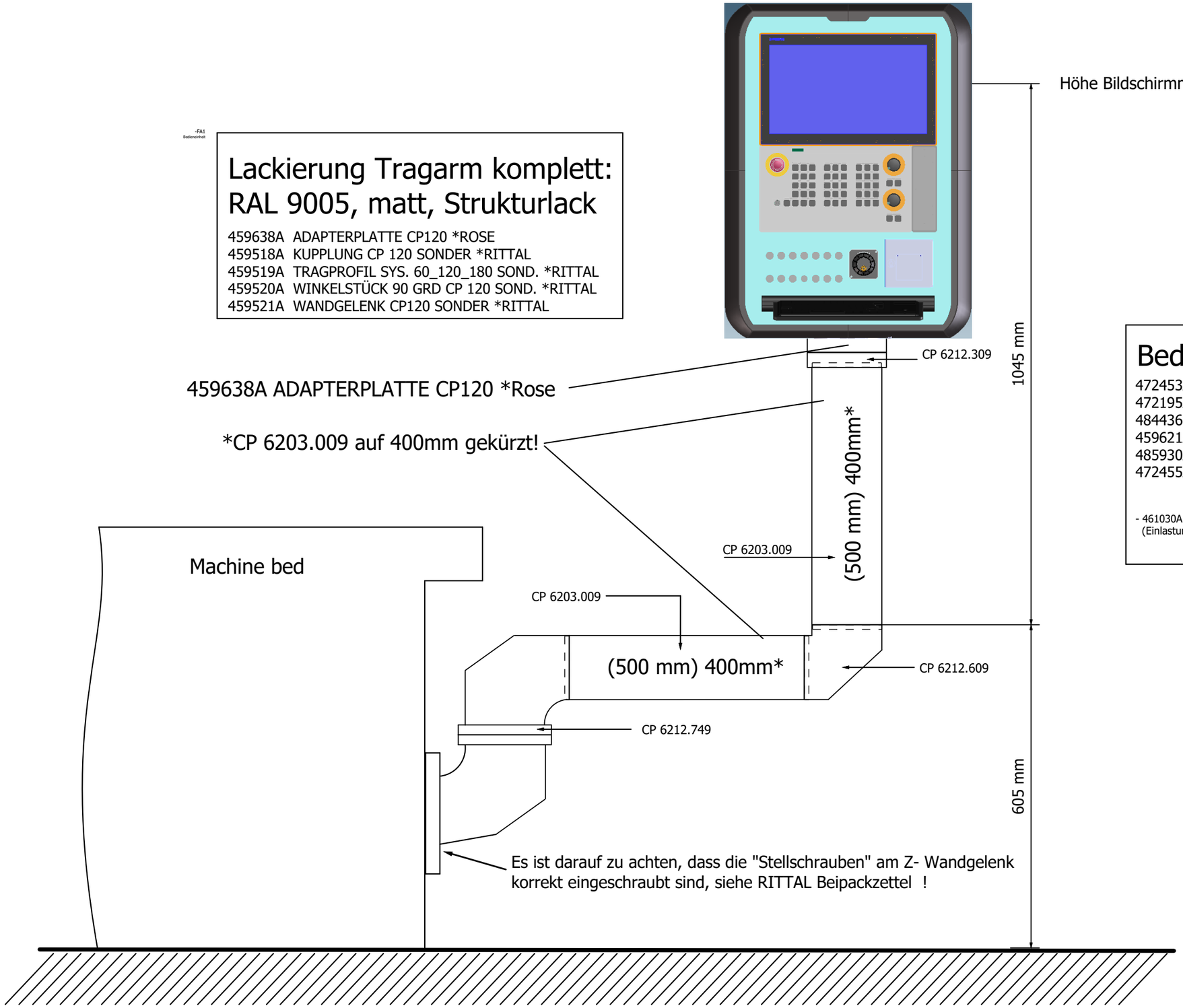
229 231

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Arrangement of MSTT version 3 Rose/KAIKAI	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 230
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

-FA1
Bedieneinheit

Lackierung Tragarm komplett: RAL 9005, matt, Strukturlack

459638A ADAPTERPLATTE CP120 *ROSE
459518A KUPPLUNG CP 120 SONDER *RITTAL
459519A TRAGPROFIL SYS. 60_120_180 SOND. *RITTAL
459520A WINKELSTÜCK 90 GRD CP 120 SOND. *RITTAL
459521A WANDGELENK CP120 SONDER *RITTAL

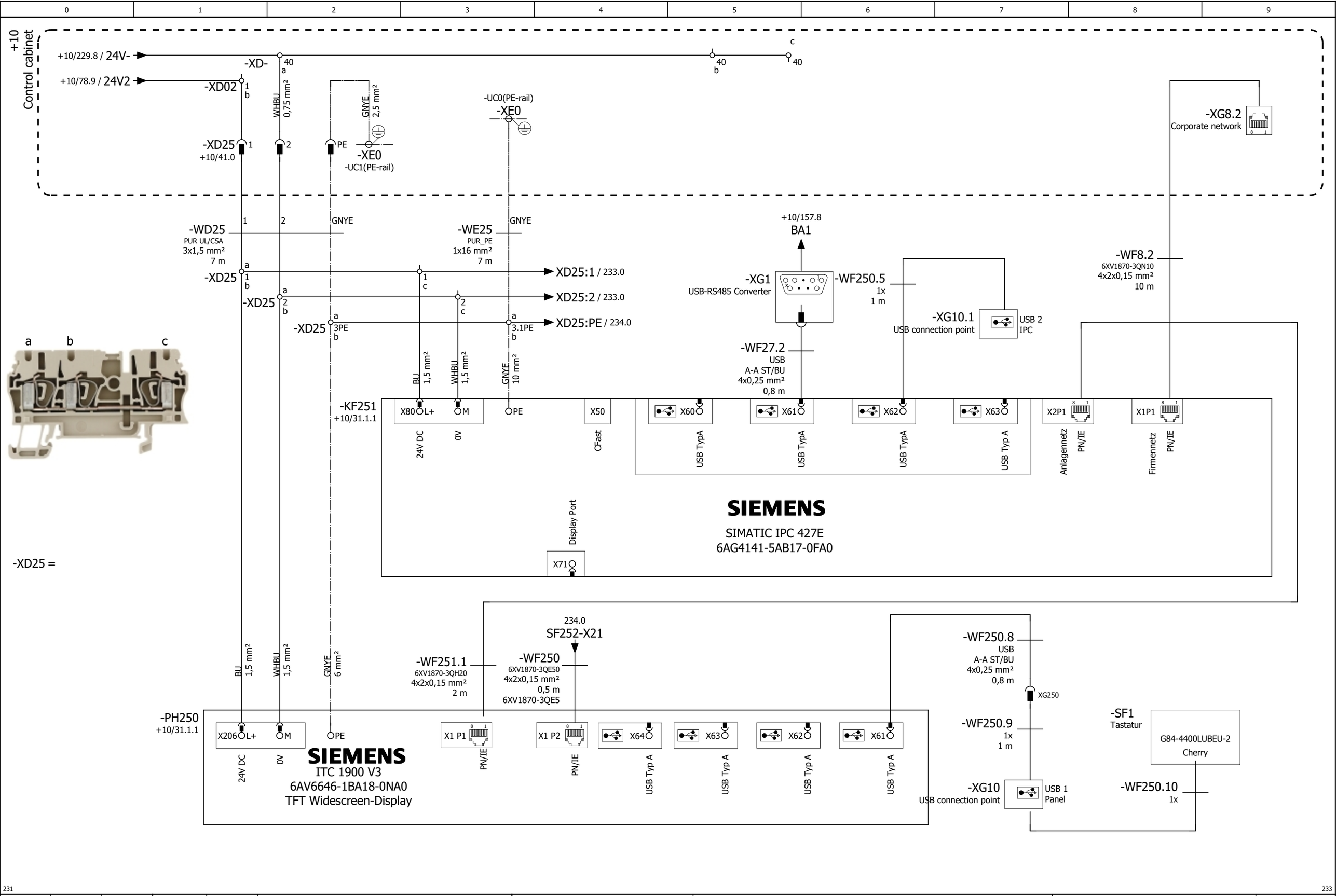


Bedienpanel:

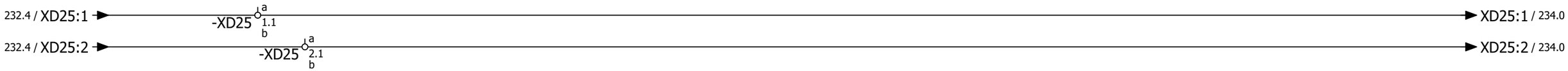
472453A BEDIENFELDRAHMEN REG
472195A FRONTPLATTE SV/SV2 FÜR KUNSTSTOFFRAHMEN
484436$ HALTERUNG TASTATUR
459621A UNTERTEIL SL 1000
485930A GEHÄUSE HANDAUSLÖSUNG
472455A TOP BRANDING

- 461030A AUFKLEBERSATZ KONZERNBEDIENPULT
(Einlastung TAZ, wird durch KL angebracht !)

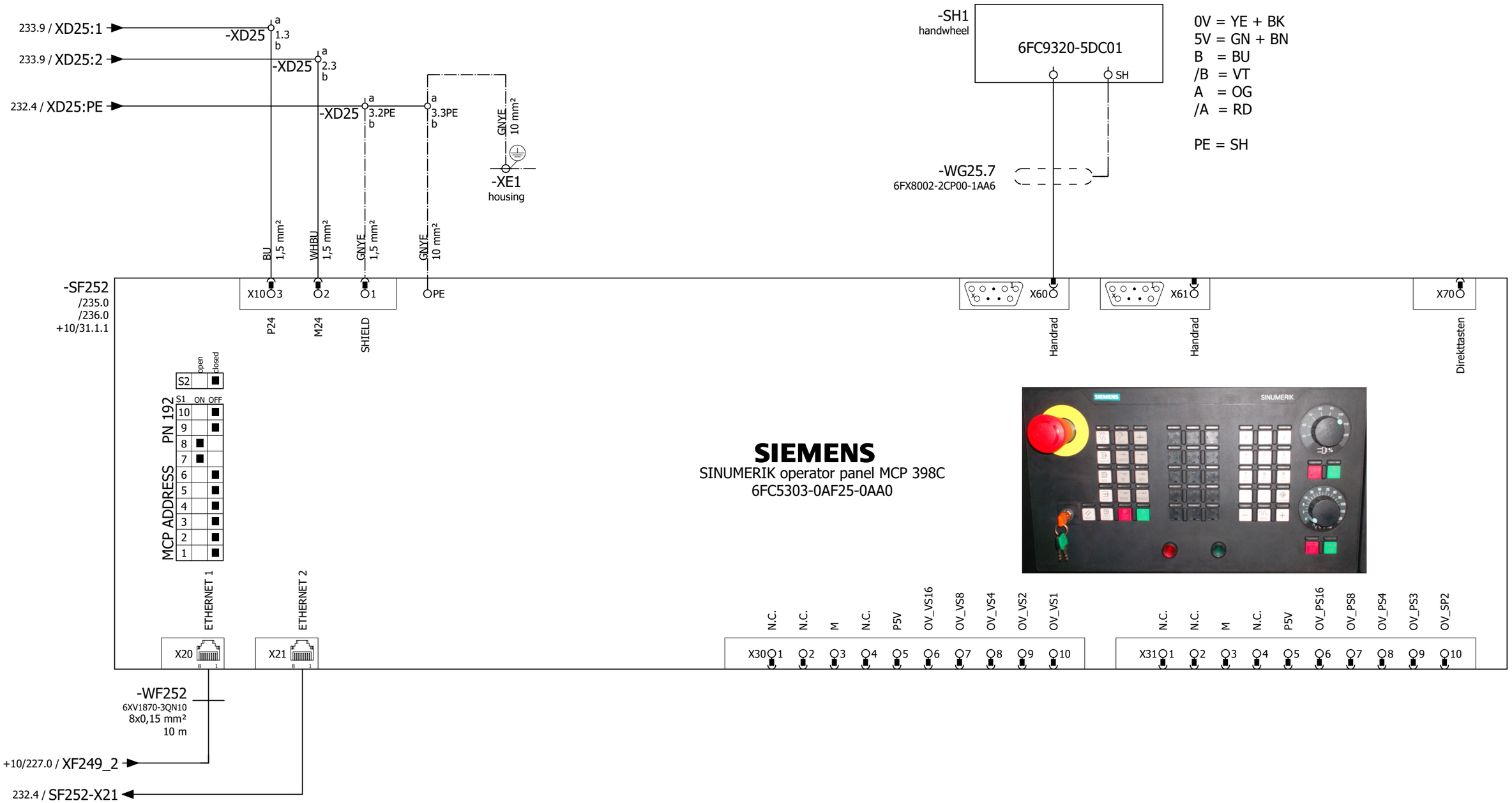
			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Overview of control panel connection	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 231
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	SIMATIC PC / SIMATIC Panel	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 232
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

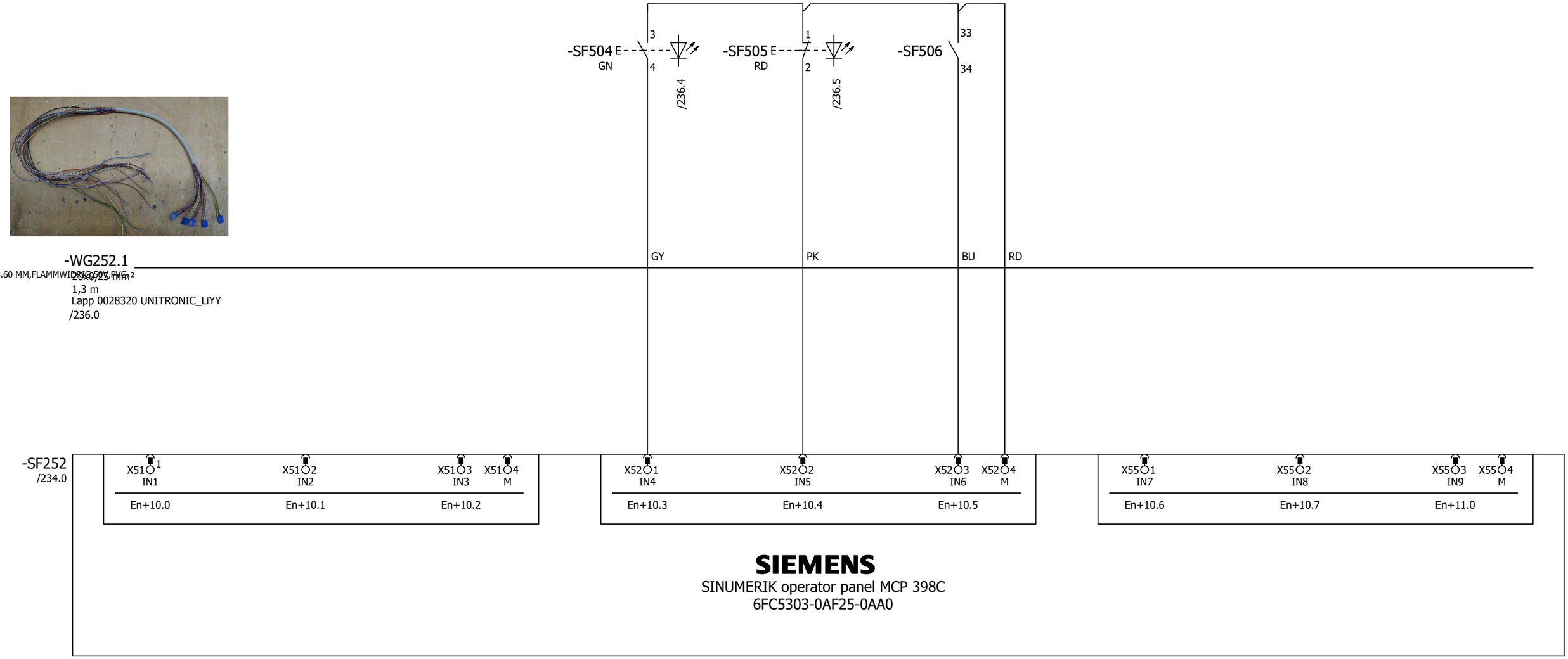


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	SPARE (USB stroke)	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 233
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

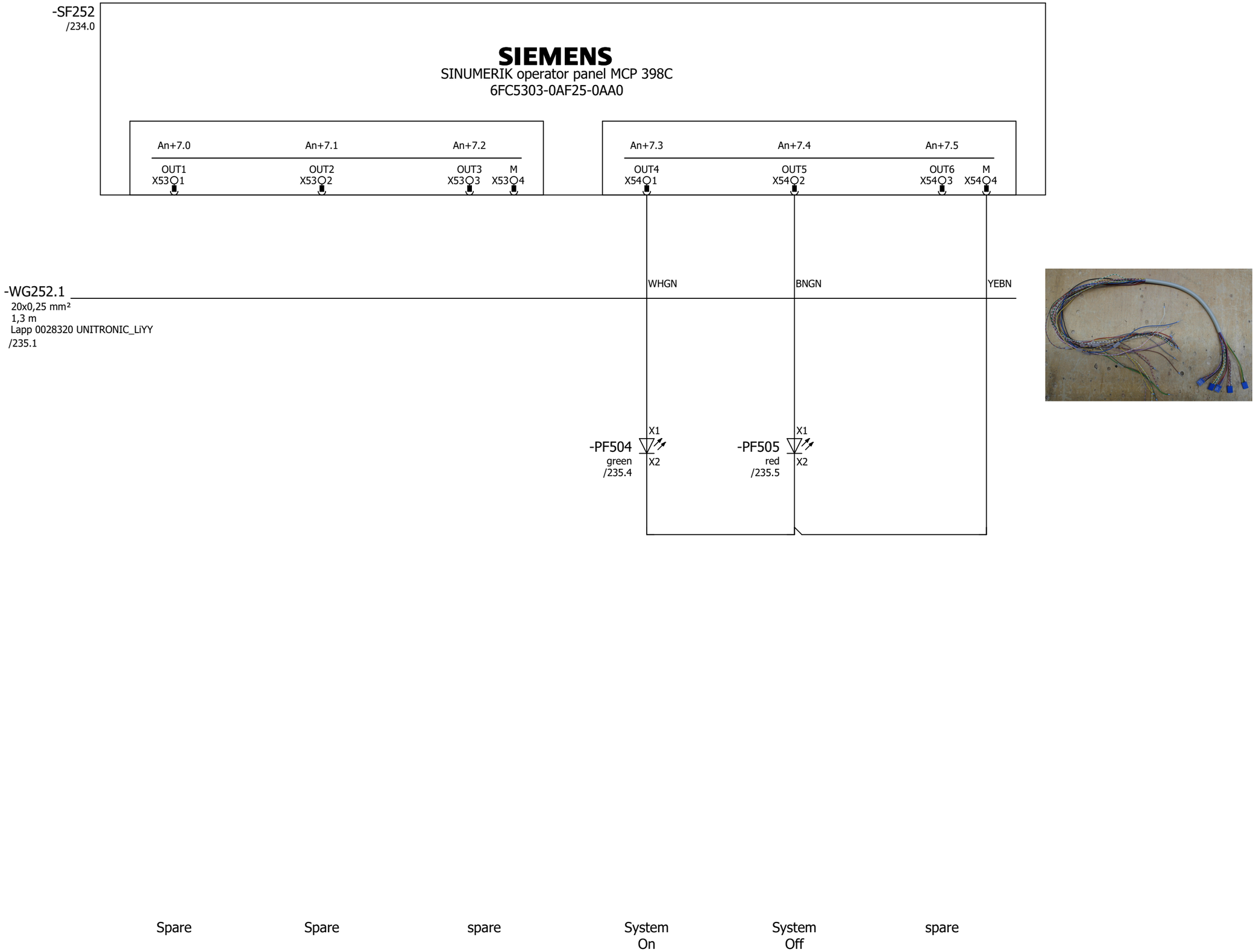


			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine control panel MCP 398C	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 234
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

-WG252.1
SSEN-Ø 8.60 MM,FLAMMWIDRIG,50% PVC
20x0,25 mm²
1,3 m
Lapp 0028320 UNITRONIC_LiYY
/236.0



Spare	Spare	Spare	System On	System Off	Emergency stop button pressed	Spare	Spare	Spare



			date	2022-12-13	Speed Viper 300	KLINGELNBERG	Machine control panel outputs AN7.0 - AN7.6	433021	& E01
			edited by	Kusc_Nil					+ 25
			Checked					650.01.433021	page 236
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 236

0	1	2	3	4	5	6	7	8	9

0	1	2	3	4	5	6	7	8	9

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+10-W11	+10-XG11	+10-XE1		4	4	0,34	3	Detection of gear gap C1 sensor at Z3	&E01+10/129.2
		+10-KF25.1							
		+10-XD-							
		+10-XD05							
+10-WA35B/A35C	+10-CA501	+10-CA502	145 MULTI-C 2x2,5 mm²	2	2	2,5			&E01+10/128.8
+10-WD88.1	+10-XD88	+10-QA88	PUR(C)	4	4	1,5		Return oil pump	&E01+10/74.1
		+10-XE0							
+10-WD500.1	+10-AA500	+10-KF500	6FX8008-1BB51-1...	4	4	10	1,5		&E01+10/96.2
+10-WD504	+10-KF504	+10-RA504	PUR3	3	3	1,5		braking resistor	&E01+10/128.1
+10-WD610	+10-UC55.1-XD610	+10-KF610	6FX8002-5DG33-1BE0	4+2	4	25+1,5	3	Motor cable C axis work pieces spindle	&E01+10/100.1
+10-WE0	+10-XD0	+10-XE0	PUR_PE	1	1	50	2	PE-line CU-busbar	&E01+10/55.0
+10-WE68.2		+68-XE1	PUR_PE	1	1	10	1	PE-line balance	&E01+10/55.7
+10-WE82	+10-XE0	+82-HQ82	PUR_PE	1	1	16	10	PE-cable Filter system	&E01+10/66.0
+10-WE610.1			PUR_PE	1	0	16	0,8	PE-cable C-AXIS terminal box	&E01+10/100.3
+10-WF1	+10-BA1	+10-XF251	6XV1870-3QH20	4x2	0	0,15	2	BALANCE - USB-RS485 Converter	&E01+10/157.4
		+10-XF251-9							
+10-WF1.1	+10-KF130	+10-PG1	6XV1870-3QH20	4x2	0	0,15	2	Profinet SIEMENS PAC3220	&E01+10/47.7
+10-WF8.1	+10-BA256	+10-X8.1	6XV1870-3QH20	4x2	1	0,15	2	Network LAN-Modem	&E01+10/229.6
	+10-PH25	+10-XF249							
		+10-XG8.1							
+10-WF25	+10-PH25	+10-XF249-4			0			Network cable Printer	&E01+10/227.3
+10-WF100	+10-KF100	+10-KF610	Drive-Cliq	8	0	0,15	0,31	DRIVE-CLiQ SINAMICS DOUBLE MOTOR	&E01+10/101.2
+10-WF130	+10-KF130	+10-KF800	6XV1870-3QH30	4x2	0	0,15	3	Profinet SIDOOR CONTROL DEVICE	&E01+10/119.8
+10-WF130.1	+10-KF505	+10-XF251	6XV1870-3QH20	4x2	1	0,15	2	Profinet SIMATIC NCU <-> SCALANCE	&E01+10/227.6
		+10-XF251-2							
+10-WF150.1	+10-KF505	+10-XF251	6XV1870-3QH20	4x2	1	0,15	2	Profinet SIMATIC NCU <-> SCALANCE	&E01+10/227.6
		+10-XF251-3							
+10-WF200	+10-KF200	+10-KF520	6SL3060-4AJ20-0AA0	8	0	0,15	0,16	DRIVE-CLIQ Cable	&E01+10/111.3
+10-WF249	+10-KF505	+10-XF249	6XV1870-3QH20	4x2	0	0,15	2	Profinet SIMATIC NCU <-> SCALANCE	&E01+10/227.1
		+10-XF249-1							
+10-WF256	+10-BA256	+10-XF249			0		0,5	System network	&E01+10/229.3
		+10-XF249-3							
+10-WF308	+10-KF506	+10-TF308		8	0	0,15	2,8	DRIVE-CLIQ Cable	&E01+10/87.4
		+10-TF308-X500							
+10-WF310	+10-KF200	+10-KF310	6SL3060-4AJ20-0AA0	8	0	0,15	0,16	DRIVE-CLIQ Cable	&E01+10/115.3
+10-WF330	+10-KF330	+10-KF508	Drive-Cliq	8	0	0,15	1,45	DRIVE-CLIQ Cable	&E01+10/120.3
+10-WF400	+10-KF400	+10-TB501	6SL3060-4AA10-0AA0	8	0	0,15	0,31	DRIVE-CLIQ Cable	&E01+10/93.2
+10-WF401	+10-KF400	+10-TF401	Drive-Cliq	8	0	0,15	0,95	DRIVE-CLIQ Terminal Module TM120	&E01+10/94.8
+10-WF500	+10-KF400	+10-KF500		8	0	0,15	0,21	DRIVE-CLIQ Cable	&E01+10/96.3
+10-WF501	+10-KF500	+10-TF501	Drive-Cliq	8	0	0,15	1,2	DRIVE-CLIQ Terminal Module TM120	&E01+10/96.8
+10-WF501.1	+10-TF501.1	+10-TF501	6SL3060-4AA10-0AA0	8	0	0,15	0,95	DRIVE-CLIQ Terminal Module TM120	&E01+10/96.7
+10-WF501.11	+10-KF505	+10-TB501	6SL3060-4AA10-0AA0	8	0	0,15	0,95	DRIVE-CLIQ Cable	&E01+10/92.7

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+10-WF505	+10-KF505	+10-TF501.2	6SL3060-4AW00-0AA0	8	0	0,15	1,2	DRIVE-CLIQ DMC20	&E01+10/97.4
+10-WF506	+10-KF505	+10-KF506	6SL3060-4AD00-0AA0	8	0	0,15	0,16	DRIVE-CLIQ Cable	&E01+10/87.2
+10-WF508	+10-KF505	+10-KF508	6SL3060-4AD00-0AA0	8	0	0,15	0,16	DRIVE-CLIQ Cable	&E01+10/89.2
+10-WF520	+10-KF506	+10-KF520	Drive-Cliq	8	0	0,15	1,2	DRIVE-CLIQ Cable	&E01+10/107.3
+10-WF521	+10-KF520	+10-TF521	Drive-Cliq	8	0	0,15	4	DRIVE-CLiQ Sensor Module SME120	&E01+10/108.8
+10-WF610	+10-KF500	+10-KF610	6SL3060-4AF10-0AA0	8	0	0,15	1,45	DRIVE-CLIQ Cable	&E01+10/99.2
+10-WF611	+10-KF610	+10-TF611	Drive-Cliq	8	0	0,15	1,45	DRIVE-CLIQ Terminal Module TM120	&E01+10/99.8
+10-WF611.1	+10-TF611.1	+10-TF611	Drive-Cliq	8	0	0,15	3	C-AXIS Motor encoder	&E01+10/100.7
+10-WF631	+10-KF520	+10-TF631	Drive-Cliq	8	0	0,15		DRIVE-CLIQ Terminal Module TM120	&E01+10/110.8
+10-WF640	+10-KF330	+10-KF640	6SL3060-4AJ20-0AA0	8	0	0,15	0,11	DRIVE-CLIQ Cable	&E01+10/124.3
+10-WF800	+10-KF800	+10-XF251	6XV1870-3QH20	4x2	0	0,15	2	Profinet ET200S	&E01+10/179.1
		+10-KF130							
		+10-XF251-8							
+10-WF920	+10-XF920	+10-XF251	PUR(C) Profinet M12x1 / RJ45	4	1	0,34	2	PROFINET cable NCU <-> IO link master	&E01+10/136.3
		+10-XF251-7							
+10-WF920A	+10-XF920	+10-XF920A	PUR(C) Profinet M12x1 / M12x1	4	1	0,34	0,3	PROFINET cable NCU <-> IO link master	&E01+10/136.8
+10-WF999	+10-KF999	+10-XF251	6XV1870-3QH30	4x2	0	0,15	3		&E01+10/131.8
		+10-XF251-11							
+10-WG8	PE	+10-XG8		4	4	0,34	3	C-Achse Lager Temperatur Überwachung	&E01+10/212.3
	+10-KF841								
+10-WG10	PE	+10-XG10		4	4	0,34	3	B axis, bearing temperature monitoring	&E01+10/211.3
	+10-KF840								
+10-WG11	+10-BA1	+25-XG1	9WM010-0		0		10	BALANCE - USB-RS485 Converter	&E01+10/157.8
+10-WG20	+10-XG20	+10-KF999		4	4	0,34	3	Z1 axis, counter support 1 vibration	&E01+10/131.2
		+10-XE1							
+10-WG21	+10-XG21	+10-KF999		4	4	0,34	3	Spare	&E01+10/131.4
		+10-XE1							
+10-WG22	+10-XG22	+10-KF999		4	4	0,34	3	B axis, axial vibration sensor	&E01+10/131.6
		+10-XE1							
+10-WG23	+10-XG23	+10-KF999		4	4	0,34	3	B axis, radial vibration sensor	&E01+10/131.8
		+10-XE1							
+10-WG74.3	+10-XD74.3	+10-EA1	PVC	2	2	0,25	3	Control cabinet lighting -UC1 / -UC2	&E01+10/62.1
+10-WG74.4	+10-EA1	+10-EA2	PVC	3	2	0,25	3	Control cabinet lighting -UC1 / -UC2	&E01+10/62.1
+10-WG99	+10-XG99	+99-XG99	SUPERFLEX PLUS N PUR	18	18	0,5	20	Fire extinguishing system interface	&E01+10/52.0
+10-WG100.1	+10-XG100.1	+10-XD04	PUR	8	8	0,25	2	Safety switch for service door C axis	&E01+10/193.2
		+10-KF805							
		+10-XD-							
+10-WG100.2	+10-XG100.2	+10-XD04	PUR	8	7	0,25	2	Safety switch for service door C axis	&E01+10/193.5
		+10-KF805							
		+10-XD-							

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+10-WG100.3	+10-XG100.3	+10-XD04	PUR	8	8	0,25	2	Safety switch for service door C axis	&E01+10/194.2
		+10-KF801							
		+10-XD-							
+10-WG101	+10-KF505	+10-TF101	Drive-Cliq	8	0	0,15	3	X axis, lineal	&E01+10/102.7
+10-WG101.11	+75-XG101	+10-TF101	Drive-Cliq		0		4	X axis, lineal	&E01+10/102.7
+10-WG201	+10-KF506	+10-TF201	Drive-Cliq	8	0	0,15	3	Y-axis meas. system	&E01+10/112.8
+10-WG300	+10-XG300	+10-KF850	PUR UL/CSA	4	4	0,34	2	Workpiece clamping device C1 axis	&E01+10/213.2
+10-WG306	+67-TF1-X1		PUR	8	8	0,14	10	BLUM - Measuring probe	&E01+10/134.2
+10-WG500.1	+10-XD01	+10-AA500		2	2	0,5			&E01+10/96.4
	+10-XD505								
	+10-XE1								
+10-WG505	+10-XD505	+10-KF505	PUR UL/CSA	14	11	0,34	4	SINUMERIK NCU inputs / outputs	&E01+10/86.8
+10-WG610	+10-UC55.1-XD610	+10-TF611		7	7	0,5+1	3	Temperature C-axis workpiece spindle	&E01+10/100.6
+10-WG920	+10-XG920	+10-XD05		4	4	0,34	3	Detection of gear gap C1 sensor at Z3	&E01+10/130.2
		+10-XD-							
		+10-KF20.2							
		+10-XE1							
+10-WG920.32	PE	+10-XG920.32		4	4	0,34	3	Werkzeug Spannvorrichtung Position	&E01+10/211.6
	+10-KF840								
+10-WG921	+10-XG921	+10-XG921A	PUR5	5	5	1,5	2	PROFINET power cable	&E01+10/136.1
+10-WG921A	+10-XF920	+10-XG921A	PUR5	5	5	1,5	0,3	power cable PROFINET	&E01+10/136.1
+10-WG922	+10-XG922	+10-XG922A	PUR5	5	5	1,5	2	PROFINET power cable	&E01+10/136.5
+10-WG922A	+10-XF920A	+10-XG922A	PUR5	5	5	1,5	0,3	power cable PROFINET	&E01+10/136.5
+10-WG930	+10-XG930	+10-XD05		4	4	0,34	3	Detection of gear gap C1 sensor at Z4	&E01+10/130.5
		+10-XD-							
		+10-KF22.2							
		+10-XE1							
+25-WD25	+10-XD25	+25-XD25	PUR UL/CSA	3	3	1,5	7	Supply SIMATIC IPC & Multitouch Panel	&E01+25/232.1
+25-WE25	+25-XD25	+10-XE0	PUR_PE	1	1	16	7	PE-line SIMATIC IPC & control panel	&E01+25/232.3
+25-WF8.2	+10-XG8.2	+25-KF251	6XV1870-3QN10	4x2	0	0,15	10	Network cable	&E01+25/232.8
+25-WF27.2	+25-KF251	+25-XG1	USB A-A ST/BU	4	0	0,25	0,8	USB extension	&E01+25/232.5
+25-WF250	+25-PH250	+25-SF252	6XV1870-3QE5	4x2	0	0,15	0,5	Profinet cable	&E01+25/232.4
+25-WF250.8	+25-XG250	+25-PH250	USB A-A ST/BU	4	0	0,25	0,8	USB extension	&E01+25/232.7
+25-WF251.1	+25-KF251	+25-PH250	6XV1870-3QH20	4x2	0	0,15	2	Profinet cable	&E01+25/232.3
+25-WF252	+10-XF249	+25-SF252	6XV1870-3QN10	8	0	0,15	10	Network cable	&E01+25/234.1
	+10-XF249-2								
+25-WG25.2	+10-XG112	+25-XD112	UNITRONIC FD CP UL/CSA	18	9	0,34	7	Control panel safety inputs	&E01+10/182.3
+25-WG25.3	+10-XG113	+25-XD113	UNITRONIC FD CP UL/CSA	18	18	0,34	7	Interface control panel	&E01+10/209.1
+25-WG25.4	+10-XG114	+25-XD112	UNITRONIC FD CP UL/CSA	18	17	0,34	7	Control panel safety inputs	&E01+10/183.1

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+25-WG25.7	+25-SH1		6FX8002-2CP00-1AA6		0			MSR, handwheel	&E01+25/234.6
+25-WG99.511	+10-XG99.510		PUR4(C)	4	0	0,34	10	Fire extinguishing system manual release	&E01+10/51.4
+25-WG252.1	+25-SF252	+25-SF504	Lapp 0028320 UNITRONIC_LiYY	20	7	0,25	1,3	machine control panel	&E01+25/235.1
		+25-SF505							
		+25-SF506							
		+25-PF504							
		+25-PF505							
+35-WG602	+10-XG602	+35-KK602	PUR4(C)	4	2	0,34	13		&E01+10/191.1
+35-WG812.1	+35-KF902	+35-KK812.1	PUR4	4	2	0,34	1	Pneumatics main pressure On	&E01+10/164.1
+35-WG812.2	+10-XG812.2	+35-KK812.2	PUR4(C)	4	2	0,34	10	Release pneumatic movements	&E01+10/188.5
+35-WG814	+10-XG814	+35-KK814.1	PUR4(C)	4	2	0,34	13	Release undo tool clamping device	&E01+10/188.7
+35-WG902.3	+10-XG902.3	+35-KK902.3	PUR4	4	1	0,34	10	Switch off sealing air	&E01+10/50.5
+35-WG905.1	+10-XG905.1	+35-KH905.1	PUR4(C)	4	2	0,34	10	Gripper 1, open Z3 axis	&E01+10/189.1
+35-WG905.2	+10-XG905.2	+35-KH905.2	PUR4(C)	4	2	0,34	10	Gripper 1, close Z3 axis	&E01+10/189.3
+35-WG906.1	+10-XG906.1	+35-KH906.1	PUR4(C)	4	2	0,34	10	Gripper 2, open Z4 axis	&E01+10/189.5
+35-WG906.2	+10-XG906.2	+35-KH906.2	PUR4(C)	4	2	0,34	10	Gripper 2, close Z4 axis	&E01+10/189.7
+35-WG910.2	+35-XG910.2	+35-XF910-X1	PUR4	4	4	0,34	1	Hydraulics, level monitoring	&E01+10/147.4
+35-WG910.3	+35-XG910.2	+35-XF910-X2	PUR4	4	4	0,34	1	Hydraulics, temperature monitoring	&E01+10/147.5
+35-WG910.4	+35-XF910-X3	+35-BP910.4	PUR4	4	4	0,34	1	Hydraulics, filter soiling	&E01+10/147.8
+35-WD35	+10-XG35	+35-GP3	PUR	4	4	0,5	10	Central lubrication	&E01+10/84.2
+35-WD36	+10-XD36	+35-XD36.1	PURN	4	4	1,5	10	Hydraulics, motor	&E01+10/72.2
	+10-QA36	+35-GP36-MA36							
+35-WE35	+35-XE1	+10-XE0	PUR_PE	1	1	25	10	PE-line installation board	&E01+10/57.6
+35-WE36	+35-XE1	+35-GP36	PUR_PE	1	1	6	4	PE hydraulic unit	&E01+10/72.4
+35-WF900	+35-KF900	+35-XF910	PUR(C) Profinet M12x1 / M12x1	4	0	0,34	6	Profinet activation I/O modules	&E01+10/162.1
+35-WF910	+35-XF910	+35-XF930	PUR(C) Profinet M12x1 / M12x1	4	1	0,34	5	PROFINET cable IO link master I <-> IO	&E01+10/146.4
+35-WF930	+10-XF920A	+35-XF930	PUR(C) Profinet M12x1 / M12x1	4	1	0,34	10	PROFINET cable IO link master I <-> IO	&E01+10/141.4
+35-WG35	+35-GP3	+35-KF901	PUR4	4	4	0,34	3	Central lubrication	&E01+10/84.5
+35-WG35.2	+10-XG35.2	+35-KK1	PUR4(C)	4	2	0,34	10	Luftzufuhr EIN	&E01+10/52.7
+35-WG300.2	+10-XG300	+35-TF300	PUR4(C)	4	4	0,34	10	Workpiece clamping device C1 axis	&E01+10/213.2
+35-WG602.1	+35-XF910-X15	+35-BG602.1	PUR4(C)	4	4	0,34	1	!!!WORT FEHLT!!!	&E01+10/150.7
	+35-XF910-X10								
+35-WG813.1	+10-XG813.1	+35-KK813.1	PUR4(C)	4	2	0,34	10	Unclamping A axis valve 1	&E01+10/95.3
+35-WG813.2	+10-XG813.2	+35-KK813.2	PUR4(C)	4	2	0,34	10	Unclamping A axis valve 2	&E01+10/95.6
+35-WG900	+10-XG900	+35-KF900	PUR5	5	5	1,5	10	Profinet activation I/O modules	&E01+10/162.3
+35-WG901.1	+35-BP901.1	+35-KF901	PUR3	3	3	0,34		Pressure supply pneumatics OK	&E01+10/163.0
+35-WG901.3	+35-BP901.3	+35-KF901	PUR3	3	3	0,34	2	monitoring pressure gripper 1 + 2	&E01+10/173.3
+35-WG901.5	+35-BG901.5	+35-KF901	PUR3	4	3	0,34	1	Release pneumatic movements	&E01+10/163.3
+35-WG901.11	+35-BG901.11	+35-KF901	PUR3	4	3	0,34	1	Unclamping A axis valve 1 feedback OK	&E01+10/163.6
+35-WG901.13	+35-BG901.13	+35-KF901	PUR3	4	3	0,34	1	Unclamping A axis valve 2 feedback OK	&E01+10/163.7
+35-WG904.1	+35-BF904.1	+35-KF904	PUR	3	3	0,25	1,5	Air gap workpiece C1 axis actual value	&E01+10/165.2
+35-WG904.3	+35-BF904.3	+35-KF904	PUR	3	3	0,25	1,5	Flow pneumatics actual value	&E01+10/165.5
+35-WG910.1	+35-XF910-X0	+35-BP910.1	PUR4	4	1	0,34	1	Hydraulics, system pressure, pressure	&E01+10/147.2

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+35-WG910.5	+35-XF910-X4	+35-BP910.5	PUR4	4	1	0,34	1	IO link, pressure sensor clamping	&E01+10/148.2
+35-WG910.7	+35-XF910-X6	+35-KK910.7	PUR4	4	2	0,34	1	Valve, pressureless circulation	&E01+10/148.5
+35-WG910.8	+35-XF910-X7	+35-KK910.8	PUR4	4	2	0,34	1	Valve, automatic accumulator relief	&E01+10/148.6
+35-WG910.9	+35-XF910-X8	+35-KK910.9	PUR3	3	2	0,34	1	Valve, clamp workpiece C1 axis	&E01+10/149.2
+35-WG910.10	+35-XF910-X9	+35-KK910.10	PUR3	3	2	0,34	1	Loosen tool clamping device	&E01+10/149.4
+35-WG910.11	+35-XF910-X10	+35-BG910.11	PUR4(C)	4	4	0,34	1	Release undo tool clamping device	&E01+10/149.5
+35-WG910.12	+35-XF910-X11	+35-KK910.12	PUR3	3	2	0,34	1	Valve, raise measuring bracket	&E01+10/149.7
+35-WG910.13	+35-XF910-X12	+35-KK910.13	PUR3	3	2	0,34	1	Valve, measuring bracket forwards	&E01+10/150.2
+35-WG910.14	+35-XF910-X13	+35-BP910.14	PUR4	4	1	0,34	1	IO link, pressure sensor workpiece	&E01+10/150.4
+35-WG910.91	+35-XF910-X8	+35-KK910.91	PUR3	3	2	0,34	1	Valve, release workpiece C1 axis	&E01+10/149.3
+35-WG910.131	+35-XF910-X12	+35-KK910.131	PUR3	3	2	0,34	1	Valve, measuring bracket backwards	&E01+10/150.3
+35-WG911	+10-XG911	+35-XF910	PUR5	5	5	1,5	10	PROFINET power cable	&E01+10/146.1
+35-WG912	+10-XG912	+35-XF910	PUR5	5	5	1,5	10	PROFINET power cable	&E01+10/146.2
+35-WG930.5	+35-XF930-X4	+35-BF930.5	PUR4	4	1	0,34	1	IO link, flow sensor advance B axis	&E01+10/143.2
+35-WG930.6	+35-XF930-X5	+35-BF930.6	PUR4	4	1	0,34	1	IO link, flow sensor advance A axis	&E01+10/143.3
+35-WG930.7	+35-XF930-X6	+35-BF930.7	PUR4	4	1	0,34	1	IO link, flow sensor advance C3 axis	&E01+10/143.5
+35-WG930.8	+35-XF930-X7	+35-BF930.8	PUR4	4	1	0,34	1	IO link, flow sensor advance C axis	&E01+10/143.6
+35-WG930.10	+35-XF930-X9	+35-KK930.10	PUR4	4	2	0,34	2	Coaxial valve, process cooling	&E01+10/144.3
+35-WG930.11	+35-XF930-X10	+35-KK930.11	PUR4	4	2	0,34	2	Coaxial valve, bed rinsing 150l/min 20bar	&E01+10/144.5
+35-WG930.12	+35-XF930-X11	+35-KK930.12	PUR4	4	2	0,34	2	Coaxial valve, bed rinsing 50l/min 6bar	&E01+10/144.6
+35-WG930.13	+35-XF930-X12	+35-KK930.13	PUR4	4	2	0,34	2	Coaxial valve, manual cleaning gun	&E01+10/145.2
+35-WG930.14	+35-XF930-X13	+35-KK930.14	PUR4	4	2	0,34	2	Coaxial valve, flush locking devices	&E01+10/145.3
+35-WG930.15	+35-XF930-X14	+35-KK930.15	PUR4	4	2	0,34	2	Coaxial valve, dressing unit	&E01+10/145.5
+35-WG931	+10-XG931	+35-XF930	PUR5	5	5	1,5	10	PROFINET power cable	&E01+10/141.1
+35-WG932	+10-XG932	+35-XF930	PUR5	5	5	1,5	10	PROFINET power cable	&E01+10/141.2
+48-WG920.1	+10-XG920	+48-XG920.1	PUR(C)	4	4	0,34	6	Detection of gear gap C1 sensor at Z3	&E01+10/130.2
+48-WG920.2	+48-XG920.2	+48-XG920.1	PUR4(C) AL-WWAKS4-3-AL-WASS4/S370	4	4	0,34	3	Detection of gear gap C1 sensor at Z3	&E01+10/130.2
+48-WG920.3	+48-XG920.2	+48-BG920	PUR3	4	3	0,34	1	Detection of gear gap C1 sensor at Z3	&E01+10/130.1
+49-WG930.1	+10-XG930	+49-XG930.1	PUR(C)	4	4	0,34	6	Detection of gear gap C1 sensor at Z4	&E01+10/130.5
+49-WG930.2	+49-XG930.2	+49-XG930.1	PUR4(C) AL-WWAKS4-3-AL-WASS4/S370	4	4	0,34	3	Detection of gear gap C1 sensor at Z4	&E01+10/130.5
+49-WG930.3	+49-XG930.2	+49-BG930	PUR3	4	3	0,34	1	Detection of gear gap C1 sensor at Z4	&E01+10/130.5
+50-WE50	+10-XE0	+50-XE1	PVC	1	1	25	999	PE-line machine bed	&E01+10/55.3
+50-WG31.1	+50-XG2	+82-XG-BT0	PUR4(C)	4	4	0,34	20		&E01+10/66.1
+50-WG31.2	+50-XG2	+50-BT31	PT100		3		4	Machine bed reference temperature	&E01+10/66.1
+50-WG600	+10-XG600	+90-XG600.1	PUR4(C)	4	3	0,34	5	Head dressing at base position	&E01+10/208.7
+50-WG601	+10-XG601	+90-XG601.1	PUR4(C)	4	3	0,34	5	Head dressing at operating position	&E01+10/208.7
+50-WG930.2	+35-XF930-X1	+50-BL930.2	PUR4	4	1	0,34	3	Level cooling lubricant machine bed	&E01+10/142.4
+50-WG930.3	+50-XG930.3	+35-TF930.3	PUR4(C)	4	1	0,34	10	Machine bed reference temperature,	&E01+10/142.5
+50-WG940	+10-XG940	+50-BL940	PUR(C)	4	3	0,34	6	Level leakage oil collector pan no max	&E01+10/208.1
+52-WD100	+10-KF100	+52-MA100-XD1	4X2,5 C 6FX8002-5CS16-1BB0	4+2	4	6 +1,5	11	Motor cable X-axis (radial slide)	&E01+10/102.1
+52-WE52	+10-XE0	+52-XE1	PUR_PE	1	1	25	8	PE-line column radial	&E01+10/55.4
+52-WE52.1	+10-XE0	+52-MA100	PVC	1	1	25	5	PE-line X-axis radial slide	&E01+10/102.4
+52-WG100	+10-KF100	+52-MA100	Drive-Cliq	8	0	0,15	11	X axis, motor encoder	&E01+10/102.6

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+52-WG101.1	+75-XG101	+52-BG101	Drive-Cliq		0		6	X axis, lineal	&E01+10/102.7
+55-WE55			PVC	1	0	16	999	PE-line machine table	&E01+10/59.6
+55-WE610			PUR_PE	1	0	25	3	PE-line C-axis workpiece spindle	&E01+10/100.3
+55-WG8.1	+10-XG8	+55-XG8.1	PUR4(C) AL-WAKS4-03-AL-WASS4/S370	4	4	0,34	3	C-Achse Lager Temperatur Überwachung	&E01+10/212.3
+55-WG8.2	+55-XG8.1	+55-BT8		4	4	0,34	1	C-Achse Lager Temperatur Überwachung	&E01+10/212.3
+55-WG611	+55-XG611	+55-BG611			0		1	C axis reading head	&E01+10/100.7
	+10-TF611.1								
+55-WG611.1	+55-XG611	+10-TF611.1	4X(2X0.34) + 4X0.5 C 6FX8002-2CB54-1AD0		1		3	angle encoder C-axis	&E01+10/100.7
+56-WE56			PVC	1	0	16	999	PE-line housing, table	&E01+10/59.8
+60-WD300	+10-KF100	+60-MA300-XD1	4X2,5+(2X1,5)C 6FX8002-5DS36-1AK0	4+2	4	2,5 +1,5	9	Z axis, motor (stroke axis)	&E01+10/104.1
+60-WE60			PUR_PE	1	0	25	8	PE-line grinding head	&E01+10/55.5
+60-WG300	+10-KF100	+60-MA300	Drive-Cliq		0		10	Z axis, motor encoder	&E01+10/104.6
+60-WG301	+10-KF505	+60-TF301	Drive-Cliq	8	0	0,15	10	Z-axis meas. system	&E01+10/104.8
+60-WG301.1	+60-BG301	+60-TF301	Adapterkabel 533 631-01 2m		0		2	Z-Achse Lineal	&E01+10/104.8
+60-WG302	+10-XG302	+60-XG302.1	PUR4(4)	4	4	0,34	8	Brake 2 Z axis	&E01+10/106.2
+60-WG920.4	+10-XF920	+60-BP920.4	PUR4(C)	4	1	0,34	10	Monitoring workpiece clamping pressure	&E01+10/137.7
+65-WG920.2	+10-XF920	+65-BP920.2	PUR4(C)	4	1	0,34	11	Grinding wheel cleaning pressure sensor	&E01+10/137.3
+67-WD500	+67-XD500	+10-AA500	4x 10 C 6FX8002-5CS64-1BA0	4	4	10	10	B-Achse Leistungsleitung Motor	&E01+10/98.1
+67-WE67	+67-XE1	+68-XE1	PUR_PE	1	1	25	0,5	PE-line grinding spindle	&E01+10/55.7
+67-WG10.1	+10-XG10	+67-TF10	PUR4(C)	4	4	0,34	10	B axis, bearing temperature monitoring	&E01+10/211.3
+67-WG10.2	+67-BT10	+67-TF10	PUR4	4	4	0,34	1	B-Achse Lager Temperatur Überwachung	&E01+10/211.2
+67-WG11.1	+10-XG11	+67-XG11.1	PUR4(C)	4	4	0,34	10	Position Aufnahme Schleifscheibe	&E01+10/129.2
+67-WG11.2	+67-XG11.1	+67-BG11	PUR3	3	3	0,34	1	Position Aufnahme Schleifscheibe	&E01+10/129.1
+67-WG67.1	+10-BA1	+67-XG67.2	9PL04014KV00M0		1		14	BALANCE Acceleration Pick-up 1	&E01+10/157.2
+67-WG67.4	+10-BA1	+67-XG67.4	9PL04014KV00M0		1		14	BALANCE Schwingungsaufnehmer 2	&E01+10/157.1
+67-WG67.7	+10-BA1	+67-XG67.6	9PL12014KV00M0		1		14	BALANCE Multi-purpose transmitting unit	&E01+10/157.3
+67-WG67.13	+67-BS3.2	+67-BS3.3	9CF813N0330660		1			BALANCE	&E01+10/157.2
+67-WG500	+67-XG500	+10-TF501	PUR(C)	7	7	0,5	10	B-Achse Temperatur Motor	&E01+10/98.3
+67-WG501.1	+10-TF501.1	+67-XG501.1			0		11	B-Achse Messsystem 1 Abtastkppf 1	&E01+10/98.6
		+67-BG501							
+67-WG501.2	+10-TF501.2	+67-XG501.2			0		11	B-Achse Messsystem 1 Abtastkppf 2	&E01+10/98.7
		+67-BG501							
+67-WG920.3	+10-XF920	+67-XF920.1	PUR4(C)	4	1	0,34	10	Path sensor grinding wheel clamped	&E01+10/137.5
+68-WD110	+10-KF200	+68-MA110-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1BB0	4+2	4	6 +1,5	11	Motor cable X1-axis	&E01+10/114.1
+68-WD200	+10-KF200	+68-MA200-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1BC0	4+2	4	2,5 +1,5	12	Motor cable Y-axis motor	&E01+10/112.1
+68-WE68	+10-XE0	+68-XE1	PUR_PE	1	1	25	10	PE-line grinding spindle shift axis	&E01+10/55.6
+68-WE68.1	+10-XE0	+68-XE1	PUR_PE	1	1	25	10	PE-line grinding spindle shift axis	&E01+10/55.8
+68-WG110	+10-KF200	+68-MA110	Drive-Cliq		0		12	X1 axis, motor encoder	&E01+10/114.6
+68-WG200	+10-KF200	+68-MA200	Drive-Cliq		0		13	Y axis, motor encoder	&E01+10/112.6
+68-WG201	+68-XG201	+68-BG201	Drive-Cliq		0		1		&E01+10/112.8
+68-WG201.11	+68-XG201	+10-TF201	Drive-Cliq		0		12		&E01+10/112.8
+68-WG922	+10-XF920A	+68-XF922	PUR4(C)	4	1	0,34	10	IO link line sensor stroke Y axis	&E01+10/153.1
+68-WG922.5	+68-XF922	+68-BG922.5	PUR3	3	3	0,34	0,6	Grinding wheel release turning OK	&E01+10/154.3

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+68-WG922.6	+68-XF922	+68-BP922.6	PUR4	4	3	0,34	0,6	Lubrication pressure OK	&E01+10/154.4
+68-WG922.7	+65-XG922.7	+68-XF922	PUR4(C)	4	3	0,34	5	Nozzle adjustment at front	&E01+10/154.6
+68-WG922.8	+65-XG922.8	+68-XF922	PUR4(C)	4	3	0,34	5	Nozzle adjustment at rear	&E01+10/154.7
+69-WD400	+69-XD400	+10-KF400	4x 10 C 6FX8002-5CS64-1BA0	4	4	10	10	Motor cable A-axis, motor	&E01+10/94.1
+69-WD400.1	+69-XD400	+69-MA400		4	4	10	0,95	Motor cable A-axis, motor	&E01+10/94.1
+69-WE69	+10-XE0	+69-XE1	PUR_PE	1	1	25	9	PE-line swiviel axis	&E01+10/56.1
+69-WF401.1	+10-TF401	+69-TF401.1	Drive-Cliq	8	0	0,15	10	RENISHAW DQ-Interface	&E01+10/94.8
+69-WG400	+69-XG400	+10-TF401	PUR(C)	7	6	0,5	10	Temperature motor A-axis swievel	&E01+10/94.4
		+69-XG400							
+69-WG400.1	+69-XG400	+69-MA400			6		0,95	Temperature motor A-axis swievel	&E01+10/94.6
+69-WG401	+69-XG401	+69-TF401.1	PUR8(C)	8	0	0,25	1	RENISHAW reading head	&E01+10/94.8
+69-WG401.1	+69-XG401	+69-BG401			0		0,5	RENISHAW reading head	&E01+10/94.8
+75-WD0	+10-XD0	+75-UC00-XD0	H07RN-F	5	5	50	5	Supply for SV300	&E01+10/45.3
+75-WD75.1	+10-XD75.1	+75-XD75.2	PUR UL/CSA	7	7	1,5		Supply slewing crane	&E01+10/68.2
	+10-QA75.1	+75-GM75							
+75-WD130	+10-KF130-X7	+75-MA130	6FB1104-0AT10-0CB2		2		10	X3 axis, (Sidoor) motor	&E01+10/119.6
+75-WF641	+10-KF640	+75-TF641	Drive-Cliq		0		6	RENISHAW DQ-Interface	&E01+10/125.8
+75-WG75	+10-XG75	+75-EA75	PUR3	3	3	0,34	5	Working chamber lighting	&E01+10/63.1
+75-WG75.1	+10-XG75.1	+75-QQ101.1	PUR	19	19	0,5	6	safety switch main guard door	&E01+10/192.2
+75-WG75.3	+10-XG75.3	+75-BG1	PUR(C)	4	3	0,34	6	Deflagration flap closed	&E01+10/196.3
+75-WG100.31	+10-XG100.3	+75-QQ100.3	PUR	8	8	0,25	6	Safety switch for loading door, on left	&E01+10/194.2
+75-WG901.7	+75-XG901.7	+35-KF901	PUR4(C)	4	4	0,34	10	Loading device for grinding wheel,	&E01+10/172.2
+75-WG901.15	+75-XG901.15	+35-KF901	PUR4(C)	4	4	0,34	10	Loading device for grinding wheel,	&E01+10/172.6
+75-WG921	+10-XF920A	+75-XF921	PUR4(C)	4	1	0,34	4	IO link line sensor stroke machine cover	&E01+10/151.1
+75-WG921.1	+75-XF921	+75-BG921.1	PUR4	4	3	0,34	2	Loading door in top left open	&E01+10/151.3
+75-WG921.3	+75-XF921	+75-BG921.3	PUR4	4	3	0,34	2	Loading door in top right open	&E01+10/151.6
+75-WG925	+10-XF920A	+75-PF925	PUR4(C)	4	1	0,34	6	Status indication of machine	&E01+10/140.2
+77-WE77			PVC	1	0	16	999	PE-line floor tray	&E01+10/59.4
+78-WE78			PUR_PE	1	0	16	999	PE-line floor tray	&E01+10/59.5
+79-WG901.71	+75-XG901.7	+79-BG901.7	PUR3	3	3	0,34	2	Grinding wheel changer in base position	&E01+10/172.2
+79-WG901.81	+75-XG901.7	+79-BG901.8	PUR3	3	3	0,34	2	Grinding wheel changer in operating	&E01+10/172.3
+79-WG901.151	+75-XG901.15	+79-BG901.15	PUR3	3	3	0,34	2	Grinding wheel changer in base position	&E01+10/172.6
+79-WG901.161	+75-XG901.15	+79-BG901.16	PUR3	3	3	0,34	4	Grinding wheel changer in base position	&E01+10/172.7
+82-WF82	+82-XG101	+10-XF251-5	BCC M414-E834-8G-668-PS54T2-200	4	0	0,34	20	Profinet filter system	&E01+10/66.8
	+10-XF251	+82-HQ82							
+82-WG31	+82-XG-BT0	+82-HQ82-1XL29		3	3	0,25	3	Machine bed reference temperature	&E01+10/66.1
+82-WG82	+10-XG82	+82-XG100	PURN	25	25	1	20	Filter system interface	&E01+10/66.2
+83-WD83	+83-HR83-XD01	+10-QA83	PURN	4	4	1,5	5	Supply oil mist collector	&E01+10/76.1
	+10-XD83	+83-HR83-X2							
+83-WE83	+10-XE0	+83-HR83	PUR_PE	1	1	6	5	PE-line oil mist collector	&E01+10/76.6
+83-WG83	+10-XG83	+83-HR83-X3	PUR N 7X 1,0	7	7	1	5	Interface oil mist collector	&E01+10/76.4
+88-WD88.2	+10-XD88	+88-MA88-XD1	PUR(C)	4	3	1,5	10	Return oil pump	&E01+10/74.1
+90-WD520	+90-XD520	+10-KF520	4X2,5 C 6FX8002-5CS16-1AG0	4+2	0	2,5 +1,5	6	Motor cable B2-axis, motor	&E01+10/108.2

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+90-WD520.1	+90-XD520	+90-MA520			3			Motor cable B2-axis, motor	&E01+10/108.2
+90-WD630	+90-XD630	+10-KF520	4X2,5 C 6FX8002-5CS16-1AG0	4+2	4	2,5 +1,5	6	Motor cable C3 axis, motor	&E01+10/110.1
+90-WD630.1	+90-XD630	+90-MA630	6FX8002-5DS31-1BJ0	4+2	4	2,5 +1,5	0,5	Motor cable C3 axis, motor	&E01+10/110.1
+90-WE90	+10-XE0	+90-XE1	PUR_PE	1	1	6	4	PE-line dressing unit housing	&E01+10/56.2
+90-WE520	+10-XE0	+90-XE520	PUR_PE	1	1	6	4	LE-line B2-axis dressing spindle	&E01+10/108.3
+90-WE520.1	+90-MA520	+90-XE520	PUR_PE	1	1	6	0,6	LE-line B2-axis dressing spindle	&E01+10/108.3
+90-WF631.1	+10-TF631	+90-TF631.1	Drive-Cliq		0		6	RENISHAW DQ-Interface	&E01+10/110.8
+90-WG90.2	+10-BA1	+90-XG90.2	9CVSAE00KV08M0		1		8	BALANCE Multi-purpose transmitting unit	&E01+10/157.7
+90-WG520	+90-XG520	+10-TF521	6FX8002-2SL10-1AE0	7	7	0,5	4	B2 axis temperature monitoring	&E01+10/108.5
+90-WG520.1	+90-XG520.1	+90-XG520			7		1	B2 axis temperature monitoring	&E01+10/108.7
+90-WG521	+90-XG521	+10-TF521	6FX8002-2CB54-1AE0		0		4	B2 axis, motor encoder	&E01+10/108.8
+90-WG600.1	+90-XG600.1	+90-XG600.2	PUR(C)	3	3	0,34	1		&E01+10/208.7
+90-WG600.2	+90-XG600.2	+90-XG600.3	PUR(C)	3	3	0,34	0,5		&E01+10/208.7
+90-WG601.1	+90-XG601.1	+90-XG601.2	PUR(C)	3	3	0,34	1		&E01+10/208.7
+90-WG601.2	+90-XG601.2	+90-XG601.3	PUR(C)	3	3	0,34	0,5		&E01+10/208.7
+90-WG630	+90-XG630	+10-TF631	PUR(C) 6FX8002-2SL20-1AG0	7	7	0,5	6	Temperature motor C3 axis	&E01+10/110.4
+90-WG630.1	+90-XG630	+90-MA630-Temp-F			7		0,5	Temperature motor C3-axis rotational axis	&E01+10/110.6
		+90-MA630-Temp-S							
		+90-MA630							
+90-WG631	+90-BG631	+90-TF631.1			0		0,5	RENISHAW reading head	&E01+10/110.8
+90-WG920.1	+10-XF920	+90-BP920.1	PUR4(C)	4	1	0,34	5	Dresser unit pressure sensor	&E01+10/137.2
+92-WD310	+10-KF310	+92-MA310-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1BA0	4+2	6	6 +1,5	6	Motor cable Z1-axis, motor	&E01+10/116.1
+92-WE92	+10-XE0	+92-XE1	PUR_PE	1	1	25		PE-line counter support 1	&E01+10/56.4
+92-WG20.1	+10-XG20	+92-XG20.1	PUR4(C)	4	4	0,34	4	Z1 axis, counter support 1 vibration	&E01+10/131.2
+92-WG20.2	+92-XG20.1	+92-XG20.2	PUR4(C)	4	4	0,34	3	Z1 axis, counter support 1 vibration	&E01+10/131.2
+92-WG20.3	+92-XG20.2	+92-BS20		4	4	0,34	3	Z1 axis, counter support 1 vibration	&E01+10/131.2
+92-WG310	+10-KF310	+92-MA310	Drive-Cliq		0		6	Z1 axis, motor encoder	&E01+10/116.6
+92-WG920.5	+10-XF920	+92-XG920.5	PUR4(C)	4	1	0,34	4	Path sensor, counter support center 1	&E01+10/138.2
+92-WG920.51	+92-XG920.51	+92-XG920.5	PUR4	4	1	0,34	3	Path sensor, counter support center 1	&E01+10/138.2
+93-WE93			PVC	1	0	16	999	PE-line housing, counter support 2	&E01+10/59.9
+95-WE95	+10-XE0	+95-XE1	PUR_PE	1	1	25	4	PE-line counter support 1	&E01+10/56.5
+95-WE95.1	+10-XE0	+95-XE1	PUR_PE	1	1	25	4	PE-line counter support 1	&E01+10/56.6
+99-WD99	+10-XD99	+99-XD99	ÖLFLEX-540P	3	3	1,5	20	Supply fire extinguishing system	&E01+10/51.2
+99-WD99.1	+99-XD99	+99-FM99	ÖLFLEX-540P	3	3	1,5		Supply fire extinguishing system	&E01+10/51.2
+99-WG99.1	+99-XG99	+99-FM99	PUR UL/CSA	18	18	0,5		Fire extinguishing system interface	&E01+10/52.0
+100-WD330	+10-KF330	+100-MA330-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1AK0	6	4	1,5	9	Motor cable Z3-axis, motor	&E01+10/121.1
+100-WD340	+10-KF330	+100-MA340-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1AK0	6	4	1,5	9	Motor cable Z4-axis, motor	&E01+10/123.1
+100-WD640	+10-KF640	+100-MA640-XD1	4x1,5+(2x1,5)C 6FX8002-5DS06-1AG0	6	4	1,5	6	Motor cable C4 axis, motor	&E01+10/125.1
+100-WE100	+10-XE0	+100-XE1	PUR_PE	1	1	25	6	PE-line loader	&E01+10/56.7
+100-WG100	+10-XG100	+100-EA100	PUR3	3	3	0,34	5	loading device	&E01+10/63.4
+100-WG100.12	+10-XG100.1	+100-QQ100.1	PUR	8	8	0,25	6	Safety switch for loading door, on left	&E01+10/193.2
+100-WG100.22	+10-XG100.2	+100-QQ100.2	PUR	8	8	0,25	6	Safety switch for loading door, on left	&E01+10/193.5
+100-WG330	+10-KF330	+100-MA330	Drive-Cliq	8	0	0,15	9	Z3 axis, motor encoder	&E01+10/121.6

Overview cable

Cable marking	Source	Target	Cable type	all wires	used Wires	Cross-section [mm²]	Length [m]	Function indication	Page / Path
+100-WG331	+100-XG331	+10-KF508	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0		0		6	DRIVE-CLIQ Schneeberger AMSABS	&E01+10/121.8
+100-WG331.1	+100-XG331	+100-BG331	AL-WAKS8-3-AL-WASS8/S370		0		3	DRIVE-CLIQ Schneeberger AMSABS	&E01+10/121.8
+100-WG340	+10-KF330	+100-MA340	Drive-Cliq	8	0	0,15	9	Z4 axis, motor encoder	&E01+10/123.6
+100-WG341	+100-XG341	+10-KF508	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0		0		6	DRIVE-CLIQ Schneeberger AMSABS	&E01+10/123.8
+100-WG341.1	+100-XG341	+100-BG341	AL-WAKS8-3-AL-WASS8/S370		0		3	DRIVE-CLIQ Schneeberger AMSABS	&E01+10/123.8
+100-WG640	+10-KF640	+100-MA640	Drive-Cliq	8	0	0,15	6	C4 axis, motor encoder	&E01+10/125.6
+100-WG641	+100-XG641	+75-TF641	AL-WAKS8-05-AL-WASS8/S370		0		5	RENISHAW reading head	&E01+10/125.8
+100-WG641.1	+100-XG641	+100-BG641			0		1	RENISHAW reading head	&E01+10/125.8
+100-WG920.7	+10-XF920	+100-XG920.7	PUR(C)	4	1	0,34	6	Stroke monitoring for gripper 1, Z3-axis	&E01+10/138.5
+100-WG920.8	+10-XF920	+100-XG920.8	PUR(C)	4	1	0,34	6	Stroke monitoring for gripper 2, Z4-axis	&E01+10/138.7
+100-WG920.71	+100-XG920.7	+100-BG920.7	PUR4	4	1	0,34	3	Stroke monitoring for gripper 1, Z3-axis	&E01+10/138.5
+100-WG920.81	+100-XG920.8	+100-BG920.8	PUR4	4	1	0,34	3	Stroke monitoring for gripper 2, Z4-axis	&E01+10/138.7
+100-WG923	+100-XG923	+10-XF920A	PUR(C)	4	1	0,34	6	IO link line sensor stroke Z3 axis	&E01+10/155.1
+100-WG923.1	+100-XG923	+100-XF923	PUR4(C)	4	1	0,34	2	IO link line sensor stroke Z3 axis	&E01+10/155.1
+100-WG924	+100-XG924	+10-XF920A	PUR(C)	4	1	0,34	6	IO link line sensor stroke Z4 axis	&E01+10/156.1
+100-WG924.1	+100-XG924	+100-XF924	PUR4(C)	4	1	0,34	2	IO link line sensor stroke Z4 axis	&E01+10/156.1
+101-WG101.2	+10-XG101.2	+101-XG101.3	PURN	3	1	1	5	safety rail loader door	&E01+10/186.8
+101-WG101.21	+10-XG101.2	+101-XG101.3	PURN	3	1	1	5	safety rail loader door	&E01+10/186.9
+101-WD140	+10-KF640	+101-MA140-XD1	4x1,5 C 6FX8002-5CS06-1AH0	4+2	4	6 +1,5	7		&E01+10/127.1
+101-WE101	+10-XE0	+101-XE1	PUR_PE	1	1	25	6	PE line intermediate storage	&E01+10/56.8
+101-WG101	+10-XG101	+101-XG101.4	PUR4	4	3	0,34	5	Intermediate storage	&E01+10/63.7
+101-WG101.1	+10-XG101.1	+101-QQ101.1	PUR	19	19	0,5	10	Sicherheitsschalter Beladetür	&E01+10/195.2
+101-WG101.4	+101-XG101.4	+101-EA101	PUR3	3	3	0,34	2	Intermediate storage	&E01+10/63.7
+101-WG140	+10-KF640	+101-MA140	Drive-Cliq		0		7		&E01+10/127.6
+101-WG921.6	+75-XF921	+101-BG921.6		4	3	0,34	2	Loading door open	&E01+10/152.5
+102-WF102	+102-UC102	+10-XF251-6	PUR(C) Profinet M12x1 / RJ45	4	1	0,34	10	Profinet couple with extern automation	&E01+10/178.9
+102-WG103	+10-XG103	+102-UC102-X6111	PURN	18	16	1		Interface external automation	&E01+10/178.0

Terminal strip diagram

Connecting block	Specification Connecting block	Connecting block					Page Terminal connection table
		First	Last	Total PE	Total N	Total number	
+10-UC55.1-XD610	motor C-axis	PE	PE	3	0	14	&E05/501
+10-XD0	Supply for control cabinet	1	7	1	7	11	&E05/502
+10-XD01	Supply, control cabinet 24V1	1	8	0	0	8	&E05/503
+10-XD02	Supply, control cabinet 24V2	1	1	0	0	1	&E05/504
+10-XD03	Supply, control cabinet 24V3	1	1	0	0	1	&E05/505
+10-XD04	Supply, control cabinet 24V4	1	10	0	0	10	&E05/506
+10-XD05	Supply, control cabinet 24V5	1	12	0	0	12	&E05/507
+10-XD06	Supply, control cabinet 24V6	1	3	0	0	3	&E05/508
+10-XD15	Supply, control cabinet 24V15	1	3	0	0	3	&E05/509
+10-XD17	Supply, IO link master hydraulics	1	2	0	0	2	&E05/510
+10-XD18	Supply IO link master control cabinet + cooling	1	3	0	0	3	&E05/511
+10-XD19	Supply, control cabinet 24V19	1	2	0	0	2	&E05/512
+10-XD20	Supply, control cabinet 24V20	1	3	0	0	3	&E05/513
+10-XD22	Supply for AC 230 V (before main breaker)	1	3PE	1	0	3	&E05/514
+10-XD24	Supply for %VDC (before main breaker)	1	5	0	0	4	&E05/515
+10-XD29	Versorgung Wuchtsystem 24V29	1	2	0	0	2	&E05/516
+10-XD35.2		1	3PE	1	0	3	&E05/517
+10-XD74.3	illumination control cabinet	1	2	0	0	2	&E05/518
+10-XD99.1	safety switch	1	4	0	0	4	&E05/519
+10-XD101	power supply 230VAC	1L	12PE	3	0	9	&E05/520
+10-XD302	2.brake Z-axis	1	3	0	0	3	&E05/521
+10-XD505	NCU inputs/outputs	1	12	0	0	12	&E05/522
+10-XD813.1	A-axis Unclamping	1	4	0	0	4	&E05/523
+10-XD-	supply control cabinet 24 V -	0.1	2	0	0	43	&E05/524
+25-XD25	supply operat. panel	1	3.3PE	4	0	11	&E05/525
+25-XD112	inputs operat. panel	1	26PE	2	0	26	&E05/526
+25-XD113	Inputs control panel	1.1	18	0	0	24	&E05/527
+35-XE1	PE rail	1	5	5	0	5	&E05/528
+55-XD610.1		U	W	0	0	3	&E05/529
+75-UC00-XD0		1	4	1	0	5	&E05/530
+75-XD0	Supply for terminal box			0	0	0	
+75-XG99.5		2	3	3	0	9	&E05/531

Terminal connection table

Designation terminal strip

+10-UC55.1-XD610

motor C-axis

Page / Path	Cable marking	Cable type	+10-WG610	+10-WD610	Source		Terminals				Target		Cable marking	Cable type	Page / Path
			7x0,5+1 mm²	6FX8002-5DG33-1BE0 4+2x25+1,5 mm²	Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection			
&E01+10/99.3				GNYE	+10-KF610	1PE	a	PE		b					
&E01+10/99.2				U	+10-KF610	X1:U2	a	U		b	+55-XD610.1	U			&E01+10/100.2
&E01+10/99.2				V	+10-KF610	X1:V2	a	V		b	+55-XD610.1	V			&E01+10/100.2
&E01+10/99.2				W	+10-KF610	X1:W2	a	W		b	+55-XD610.1	W			&E01+10/100.2
&E01+10/57.2					+10-XE0	22	a	PE		b					
&E01+10/99.6			WH		+10-TF611	X521:1	a	11		b	+55-MA610	1R2			&E01+10/100.4
&E01+10/99.6			BN		+10-TF611	X521:2	a	12		b	+55-MA610	1R1			&E01+10/100.4
&E01+10/99.6			GN		+10-TF611	X521:3	a	13		b	+55-MA610	2TP1			&E01+10/100.4
&E01+10/99.7			YE		+10-TF611	X521:4	a	14		b	+55-MA610	2TP2			&E01+10/100.5
&E01+10/99.7			GY		+10-TF611	X521:5	a	15		b					
&E01+10/99.7			PK		+10-TF611	X521:6	a	16		b					
							a	17		b	+55-MA610	2R2			&E01+10/100.6
							a	18		b	+55-MA610	2R1			&E01+10/100.6
&E01+10/99.7			GNYE		+10-TF611	X521:PE	a	PE		b	+10-UC55.1-XE01	1			&E01+10/100.6

Terminal connection table

Page / Path	Cable marking								+75-WD0	Designation terminal strip +10-XD0 Supply for control cabinet								+10-WE0								Cable marking	
	Cable type								H07RN-F 5x50 mm²	Source		Terminals				Target		PUR_PE 1x50 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection										
&E01+10/45.3									BN	+75-UC00-XD0	1:b	a	1		b	+10-QB0	1									&E01+10/48.1	
&E01+10/47.3										+10-FC01	1	c			d	+10-QA99	1									&E01+10/49.2	
&E01+10/45.3									BK	+75-UC00-XD0	2:b	a	2		b	+10-QB0	3									&E01+10/48.1	
&E01+10/47.3										+10-FC01	3	c			d	+10-QA99	3									&E01+10/49.2	
&E01+10/45.4									GY	+75-UC00-XD0	3:b	a	3		b	+10-QB0	5									&E01+10/48.1	
&E01+10/47.3										+10-FC01	5	c			d												
&E01+10/45.4									LBU	+75-UC00-XD0	4:b	a	4		b	+10-XD0	5:a									&E01+10/46.4	
												c			d												
&E01+10/45.4									GNYE	+75-UC00-XD0	1PE:b	a	PE		b	+10-XE0	1	GNYE								&E01+10/55.0	
&E01+10/46.4										+10-XD0	4:b	a	5		b												
												a	6		b	+10-PG1	N/-									&E01+10/47.4	
												a	7		b	+10-PG1	VN									&E01+10/47.3	

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD01 Supply, control cabinet 24V1								+10-WG500.1	Cable marking	Page / Path
			Source		Terminals				Target		2x0,5 mm²	Cable type	
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection			
&E01+10/52.0			+10-XG99	1	a	1		b	+10-XG99	15		&E01+10/52.5	
&E01+10/52.6			+10-XG99	16	a	2		b					
&E01+10/63.1			+10-KF75	13	a	3		b	+10-KF75	33		&E01+10/63.4	
&E01+10/76.3			+10-KF55.1	33	a	4		b	+10-FC13	OUT1		&E01+10/78.1	
&E01+10/131.1			+10-KF999	1	a	5		b					
					a	6		b					
					a	7		b					
&E01+10/50.8			+10-KF902.3	A1	a	8		b	+10-AA500	X3:1	1	&E01+10/96.4	

Terminal connection table

Designation terminal strip

+10-XD02

Supply, control cabinet 24V2

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/78.2		+10-FC13	OUT2	a	1	,	b	+10-XD25	1		&E01+25/232.1

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD02	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 504
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Terminal connection table

Designation terminal strip

+10-XD03

Supply, control cabinet 24V3

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/78.2		+10-FC13	OUT3	a	1	,	b				

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD03	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 505
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Terminal connection table

Page / Path	Cable marking						+10-WG100.3	+10-WG100.2	+10-WG100.1	Designation terminal strip +10-XD04 Supply, control cabinet 24V4								+10-WG100.1	+10-WG100.2	+10-WG100.3						Cable marking	
	Cable type						PUR 8x0,25 mm²	PUR 8x0,25 mm²	PUR 8x0,25 mm²	Source		Terminals				Target		PUR 8x0,25 mm²	PUR 8x0,25 mm²	PUR 8x0,25 mm²						Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection										
&E01+10/78.2										+10-FC13	OUT4	a	1		b												
															c	+10-XG75.1	16									&E01+10/192.3	
&E01+10/192.4										+10-XG75.1	6	a	2		b	+10-XG100.1	2	BN								&E01+10/193.2	
															c												
&E01+10/193.2									PK	+10-XG100.1	6	a	3		b	+10-XG100.1	1	WH								&E01+10/193.3	
															c												
&E01+10/193.6								PK		+10-XG100.2	6	a	4		b	+10-XG100.2	1		WH							&E01+10/193.7	
															c												
													5		b	+10-XG100.3	2			BN						&E01+10/194.2	
															c												
&E01+10/194.2							PK			+10-XG100.3	6	a	6		b	+10-XG100.3	1			WH						&E01+10/194.3	
															c												
&E01+10/195.4										+10-XG101.1	6	a	7		b												
															c	+10-XG101.1	16									&E01+10/195.3	
&E01+10/196.4										+10-XG75.3	1:+24V	a	8		b												
															c												
&E01+10/205.5										+10-XD75.1	5	a	9		b	+10-XG940	1									&E01+10/208.1	
															c	+10-XG600	1									&E01+10/208.7	
&E01+10/208.8										+10-XG601	1	a	10														

Terminal connection table

Designation terminal strip
+10-XD05
Supply, control cabinet 24V5

Page / Path	Cable marking							+10-WG920	+10-W11	Source		Terminals				Target		+10-WG930								Cable marking	Page / Path
	Cable type							4x0,34 mm²	4x0,34 mm²	Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection	4x0,34 mm²								Cable type	
&E01+10/67.4										+10-XG40	1	a	1		b	+10-EC51	2									&E01+10/70.4	
&E01+10/78.2										+10-FC13	13	a	2		b	+10-FC14	OUT1									&E01+10/78.4	
&E01+10/78.5										+10-FC14	13	a	3		b	+10-FC15	13									&E01+10/78.8	
&E01+10/79.2										+10-FC16	13	a	4		b	+10-FC17	13									&E01+10/79.5	
&E01+10/81.3										+10-FC23	13	a	5		b	+10-FC24	13									&E01+10/81.6	
&E01+10/129.2									BN	+10-XG11	1	a	6		b												
&E01+10/130.2								BN		+10-XG920	1	a	7		b	+10-XG930	1	BN								&E01+10/130.5	
&E01+10/180.2										+10-KF821	L+	a	8		b	+10-TA11	X2:2									&E01+10/197.3	
&E01+10/198.1										+10-BG1	13	a	9		b	+10-BG2	13									&E01+10/198.2	
&E01+10/198.3										+10-BT56.1	1	a	10		b	+10-KF55.1	51									&E01+10/199.1	
&E01+10/200.2										+10-QA40	13	a	11		b	+10-QA36	13									&E01+10/201.1	
&E01+10/202.1										+10-QA99	13	a	12		b	+10-XG113	1									&E01+10/209.1	

Terminal connection table

Designation terminal strip
+10-XD06
Supply, control cabinet 24V6

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/78.4		+10-FC14	OUT2	a	1		b				
&E01+10/105.6		+10-KF62	33	a	2		b	+10-KF62	13		&E01+10/105.7
&E01+10/180.4		+10-KF840	L+	a	3		b	+10-KF840	1B		&E01+10/180.5

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD06
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021	& E05
	+
650.01.433021	page 508
drawing number	from 531

Terminal connection table

Designation terminal strip

+10-XD15

Supply, control cabinet 24V15

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/79.2		+10-FC16	OUT3	a	1		b				
&E01+10/162.3		+10-XG900	4	a	2		b	+10-KF55.2	24		&E01+10/162.3
				a	3		b				

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD15	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 509
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Terminal connection table

Designation terminal strip

+10-XD17

Supply, IO link master hydraulics

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/79.4		+10-FC17	OUT1	a	1		b				
&E01+10/146.1		+10-XG911	4	a	2		b	+10-XG911	5		&E01+10/146.2

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD17	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 510
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Terminal connection table

Designation terminal strip
+10-XD18
Supply IO link master control cabinet + cooling

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/79.4		+10-FC17	OUT2	a	1		b	+10-XG921	4	&E01+10/136.1	
&E01+10/136.2		+10-XG921	5	a	2		b				
&E01+10/141.1		+10-XG931	4	a	3		b	+10-XG931	5	&E01+10/141.2	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD18
			edited by	Kusc_Nil			
			Checked				
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433021	& E05
	+
650.01.433021	page 511
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Terminal connection table

Designation terminal strip

+10-XD19

Supply, control cabinet 24V19

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/79.5		+10-FC17	OUT3	a	1		b				
&E01+10/66.2		+10-XG82	1	a	2		b				

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD19
			edited by	Kusc_Nil			
			Checked				
modification	date	name	see cover page		machine type	manufacturer	page description

433021	& E05
	+
650.01.433021	page 512
drawing number	from 531

Terminal connection table

Designation terminal strip

+10-XD20

Supply, control cabinet 24V20

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/79.5		+10-FC17	OUT4	a	1		b	+10-XF249	X1:L+		&E01+10/227.2
&E01+10/227.7		+10-XF251	X1:L+	a	2		b				
				a	3		b				

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD22 Supply for AC 230 V (before main breaker)							Cable marking	Cable type	Page / Path
			Source		Terminals				Target			
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection		
&E01+10/49.2			+10-FC99	2	a	1	,	b	+10-XD99	1	&E01+10/51.2	
&E01+10/49.5			+10-TA99	34	a	2	,	b	+10-XD99	2	&E01+10/51.2	
&E01+10/49.6			+10-TA99	34	a	3PE	,	b	+10-XD99	PE	&E01+10/51.2	

Terminal connection table

Designation terminal strip
+10-XD24
Supply for %VDC (before main breaker)

Page / Path	Cable marking / Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/50.5		+10-KT902.3	18	a	1		b	+10-KT902.3	A1		&E01+10/50.6
&E01+10/50.7		+10-KF902.3	11	a	2		b				
&E01+10/50.1		+10-TB0	-	a	4		b	+10-FC7	GND		&E01+10/50.2
&E01+10/50.5		+10-XG902.3	3	a	5		b	+10-KT902.3	A2		&E01+10/50.6

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD24	433021	& E05
			edited by	Kusc_Nil					+
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Terminal connection table

Designation terminal strip

+10-XD29

Versorgung Wuchtsystem 24V29

Page / Path	Cable marking	Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking	Cable type	Page / Path
			+10-BA1	D8:3	a	1		b					
					a	2		b	+10-BA1	P3:+			&E01+10/157.8

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD35.2							Cable marking	Cable type	Page / Path
			Source		Terminals				Target			
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection		
&E01+10/52.7			+10-XG99	14	a	1	,	b	+10-XG35.2	4	&E01+10/52.7	
&E01+10/50.5			+10-XG902.3	3	a	2	,	b	+10-XG35.2	3	&E01+10/52.8	
					a	3PE	,	b				

Terminal connection table

Designation terminal strip

+10-XD74.3

illumination control cabinet

Page / Path	Cable marking	Cable type	Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	+10-WG74.3 PVC 2x0,25 mm²	Cable marking	Cable type	Page / Path
&E01+10/62.1			+10-KF33.5	14	a	1	,	b	+10-EA1	XG1:+U	BN		&E01+10/62.1	
&E01+10/52.1			+10-XD-	2:c	a	2	,	b	+10-EA1	XG1:GND	BU		&E01+10/62.1	

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD99.1 safety switch							Cable type	Cable marking
			Source		Terminals				Target		
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection	Page / Path
&E01+10/52.3			+10-XG99	7	a	1	,	b	+10-KF99	33	&E01+10/52.3
&E01+10/52.3			+10-XG99	8	a	2	,	b	+10-KF99	34	&E01+10/52.3
&E01+10/52.4			+10-XG99	9	a	3	,	b	+10-KF99	23	&E01+10/52.4
&E01+10/52.4			+10-XG99	10	a	4	,	b	+10-KF99	24	&E01+10/52.4

Terminal connection table

Page / Path	Cable marking / Cable type	Designation terminal strip +10-XD101 power supply 230VAC — Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
&E01+10/60.4		+10-FC1	2	a	1L		b				
				a	11L		b	+10-FB3	1		&E01+10/61.1
				a	12L		b	+10-FB4	1		&E01+10/61.4
&E01+10/60.2		+10-TA1	31	a	1N		b				
				a	11N		b	+10-FB3	N		&E01+10/61.1
				a	12N		b	+10-FB4	N		&E01+10/61.4
&E01+10/60.2		+10-TA1	31	a	1PE		b				
				a	11PE		b	+10-XD102	PE		&E01+10/61.1
				a	12PE		b	+10-XD103	PE		&E01+10/61.4

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Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD302 2.brake Z-axis							Cable type	Cable marking	Page / Path
			Source		Terminals				Target			
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection		
&E01+10/106.2			+10-TF302	9	a	1		b	+10-RA302	1		&E01+10/106.2
&E01+10/106.3			+10-XG302	3	a	2		b	+10-RA302	2		&E01+10/106.2
&E01+10/106.3			+10-XG302	4	a	3		b	+10-KF64	14		&E01+10/106.3

Terminal connection table

Designation terminal strip
+10-XD505
NCU inputs/outputs

Page / Path	Cable marking								+10-WG500.1	Source		Terminals				Target		+10-WG505								Cable marking	Page / Path
	Cable type								2x0,5 mm²	Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection	PUR UL/CSA 14x0,34 mm²								Cable type	
&E01+10/223.7										+10-KF864	15	a	1	,	b	+10-KF505	X122:1	WH								&E01+10/86.1	
&E01+10/223.8										+10-KF864	16	a	2	,	b	+10-KF505	X122:2	BN								&E01+10/86.1	
&E01+10/96.4									2	+10-AA500	X3:2	a	3	,	b	+10-KF505	X122:3	GN								&E01+10/86.1	
&E01+10/224.1										+10-KF865	1	a	4	,	b	+10-KF505	X122:12	YE								&E01+10/86.3	
&E01+10/86.4										+10-KF25.1	14	a	5	,	b	+10-KF505	X122:13	GY								&E01+10/86.3	
												a	6	,	b	+10-KF505	X132:4	PK								&E01+10/86.4	
&E01+10/197.2										+10-KF821	2	a	7	,	b	+10-KF505	X132:9	BU								&E01+10/86.5	
&E01+10/197.1										+10-KF821	1	a	8	,	b	+10-KF505	X132:10	RD								&E01+10/86.5	
												a	9	,	b	+10-KF505	X132:12	BK								&E01+10/86.6	
&E01+10/86.7										+10-KF21.2	14	a	10	,	b	+10-KF505	X132:13	VT								&E01+10/86.6	
&E01+10/86.8										+10-XD-	9:a	a	11	,	b												
&E01+10/86.3										+10-KF23.1	11	a	12	,	b	+10-KF505	X142:9	RDBU								&E01+10/86.8	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD505	433021	& E05
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Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +10-XD813.1 A-axis Unclamping							Cable marking	Cable type	Page / Path
			Source		Terminals				Target			
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection		
&E01+10/95.1			+10-XD400		a	1		b	+10-XG813.1	4	&E01+10/95.3	
					a	2		b	+10-XG813.2	4	&E01+10/95.6	
&E01+10/95.1			+10-XD400		a	3		b	+10-XG813.1	3	&E01+10/95.4	
					a	4		b	+10-XG813.2	3	&E01+10/95.7	

Terminal connection table

Page / Path	Cable marking							+10-WG920	+10-W11	Designation terminal strip +10-XD- supply control cabinet 24 V -								+10-WG930								Cable marking	
	Cable type							4x0,34 mm²	4x0,34 mm²	Source		Terminals				Target		4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection										
&E01+10/77.4										+10-TA11	X1:OUT-	a	0.1		b	+10-TA11	X1:OUT-									&E01+10/77.4	
&E01+10/80.4										+10-TA21	X1:OUT-	a	0.2		b	+10-TA21	X1:OUT-									&E01+10/80.4	
												a	0.3		b												
&E01+10/50.8										+10-KF902.3	A2	a	1		b												
															c												
&E01+10/62.5										+10-KF33.5	A2	a	3		b												
															c	+10-XG75	3									&E01+10/63.1	
&E01+10/63.4										+10-XG100	3	a	4		b	+10-XG82	2									&E01+10/66.3	
															c	+10-QA40	A2									&E01+10/67.3	
												a	5		b												
															c	+10-XG83	1									&E01+10/76.4	
&E01+10/78.2										+10-FC13	GND_1	a	6		b												
															c												
												a	7		b												
															c	+10-FC23	GND_1									&E01+10/81.3	
												a	8		b	+10-KF505	X124:M									&E01+10/85.1	
															c												
&E01+10/86.7										+10-XD505	11:a	a	9		b	+10-RF500	X124:-									&E01+10/91.6	
															c	+10-TB501	X21:4									&E01+10/92.6	
												a	10		b	+10-KF64	A2-									&E01+10/105.6	
															c	+10-KF64	34									&E01+10/105.8	
&E01+10/106.1										+10-TF302	2	a	11		b	+10-KF330	X24:2									&E01+10/120.2	
															c	+10-KF504	X21:5									&E01+10/128.2	
&E01+10/129.2									BU	+10-XG11	3	a	12		b												
															c												
&E01+10/130.1								BU		+10-XG920	3	a	13		b	+10-XG930	3	BU								&E01+10/130.5	
															c												
&E01+10/131.1										+10-KF999	2	a	14		b												
															c												
												a	15		b												
															c												
&E01+10/136.1										+10-XG921	1	a	16		b	+10-XG921	2									&E01+10/136.1	
															c	+10-XG931	1									&E01+10/141.1	
												a	17		b	+10-XG911	1									&E01+10/146.1	

Terminal connection table

Page / Path	Cable marking						+10-WG100.3	+10-WG100.2	+10-WG100.1	Designation terminal strip +10-XD- supply control cabinet 24 V -								+10-WG100.1	+10-WG100.2	+10-WG100.3						Cable marking	
	Cable type						PUR 8x0,25 mm²	PUR 8x0,25 mm²	PUR 8x0,25 mm²	Source		Terminals				Target		PUR 8x0,25 mm²	PUR 8x0,25 mm²	PUR 8x0,25 mm²						Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection										
															c	+10-XG911	2									&E01+10/146.1	
										+10-BA1	D8:8	a	18		b												
															c	+10-BA1	P3:-									&E01+10/157.9	
												a	19		b												
															c	+10-XG900	1									&E01+10/162.3	
&E01+10/162.3										+10-XG900	2	a	20		b	+10-XG103	2:2									&E01+10/178.1	
															c												
&E01+10/179.1										+10-KF800	1M	a	21		b	+10-KF821	M									&E01+10/180.2	
															c	+10-KF840	M									&E01+10/180.4	
&E01+10/180.5										+10-KF840	1C	a	22		b	+10-KF860	M									&E01+10/181.1	
															c	+10-KF863	M									&E01+10/181.3	
&E01+10/181.4										+10-KF864	M	a	23		b	+10-KF865	M									&E01+10/181.4	
															c	+10-KF866	M									&E01+10/181.5	
&E01+10/180.7										+10-KF850	5C	a	24		b	+10-XG75.1	18									&E01+10/192.2	
															c	+10-XG75.1	19									&E01+10/192.3	
&E01+10/192.3										+10-XG75.1	7	a	25		b	+10-XG75.1	13									&E01+10/192.3	
															c												
&E01+10/193.2									RD	+10-XG100.1	8	a	26		b	+10-XG100.1	7	BU								&E01+10/193.2	
															c												
&E01+10/193.5								BU		+10-XG100.2	7	a	27		b	+10-XG100.2	8		RD							&E01+10/193.6	
															c												
&E01+10/194.2							BU			+10-XG100.3	7	a	28		b	+10-XG100.3	8			RD						&E01+10/194.2	
															c	+10-XG101.1	18									&E01+10/195.2	
&E01+10/195.3										+10-XG101.1	19	a	29		b	+10-XG101.1	7									&E01+10/195.3	
															c	+10-XG101.1	13									&E01+10/195.3	
&E01+10/196.4										+10-XG75.3	3:GND	a	30		b												
															c	+10-XD75.1	4									&E01+10/205.5	
												a	31		b	+10-XG600	3									&E01+10/208.7	
															c	+10-XG601	3									&E01+10/208.8	
&E01+10/215.1										+10-KF11	A2	a	32		b	+10-KF12	A2									&E01+10/215.2	
															c	+10-KF51	A2									&E01+10/215.7	
												a	33		b	+10-KF20.1	A2									&E01+10/216.1	
															c	+10-KF21.1	A2									&E01+10/216.2	
&E01+10/216.3										+10-KF23.1	A2	a	34		b	+10-KF24.1	A2									&E01+10/216.4	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD-	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 524.1
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 531

Terminal connection table

Page / Path	Cable marking / Cable type	Designation terminal strip +10-XD- supply control cabinet 24 V - Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking / Cable type	Page / Path
							c	+10-KF22.1	A2		&E01+10/216.5
				a	35		b	+10-XG113	12		&E01+10/217.1
							c	+10-KF75	A2		&E01+10/218.4
&E01+10/218.8		+10-KF25.1	A2	a	36		b				
							c				
				a	37		b				
							c				
				a	38		b	+10-KF61	A2		&E01+10/224.3
							c				
&E01+10/227.7		+10-XF251	X1:M	a	39		b				
							c	+10-BA256	2		&E01+10/229.1
&E01+25/232.2		+10-XD25	2	a	40		b				
							c				
&E01+10/52.1		+10-XG99	2	a	2		b				
							c	+10-XD74.3	2:a		&E01+10/62.1

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +10-XD-	433021	& E05
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 524.2
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 531

Terminal connection table

Page / Path	Cable marking							+25-WE25	+25-WD25	Designation terminal strip +25-XD25 supply operat. panel															Cable marking	
	Cable type							PUR_PE 1x16 mm²	PUR UL/CSA 3x1,5 mm²	Source		Terminals				Target									Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection									
&E01+25/232.1									1	+10-XD25	1	a	1		b	+25-PH250	X206:L+								&E01+25/232.1	
															c	+25-KF251	X80:L+								&E01+25/232.3	
												a	1.1		b											
												a	1.3		b	+25-SF252	X10:3								&E01+25/234.1	
&E01+25/232.2									2	+10-XD25	2	a	2		b	+25-PH250	X206:M								&E01+25/232.2	
													2		c	+25-KF251	X80:M								&E01+25/232.3	
												a	2.1		b											
												a	2.3		b	+25-SF252	X10:2								&E01+25/234.2	
&E01+25/232.2									GNYE	+10-XD25	PE	a	3PE		b	+25-PH250	PE								&E01+25/232.2	
&E01+25/232.3								GNYE		+10-XE0	56	a	3.1PE		b	+25-KF251	PE								&E01+25/232.3	
												a	3.2PE		b	+25-SF252	X10:1								&E01+25/234.2	
&E01+25/234.3										+25-XE1	2	a	3.3PE		b	+25-SF252	PE								&E01+25/234.2	

Terminal connection table

Page / Path	Cable marking							+25-WG25.4	+25-WG25.2	Designation terminal strip +25-XD112 inputs operat. panel															Cable marking	
	Cable type							UNITRONIC FD CP UL/CSA 18x0,34 mm²	UNITRONIC FD CP UL/CSA 18x0,34 mm²	Source		Terminals				Target									Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection									
&E01+10/182.3									WH	+10-XG112	1	a	1	,	b	+25-SF506	11								&E01+10/182.3	
&E01+10/182.3									BN	+10-XG112	2	a	2	,	b	+25-SF506	12								&E01+10/182.3	
&E01+10/182.4									GN	+10-XG112	3	a	3	,	b	+25-SF506	21								&E01+10/182.4	
&E01+10/182.4									YE	+10-XG112	4	a	4	,	b	+25-SF506	22								&E01+10/182.4	
&E01+10/182.5									GY	+10-XG112	5	a	5	,	b	+25-SF11	14								&E01+10/182.5	
&E01+10/182.5									PK	+10-XG112	6	a	6	,	b	+25-SF11	13								&E01+10/182.5	
&E01+10/182.6									BU	+10-XG112	7	a	7	,	b	+25-SF11	24								&E01+10/182.6	
&E01+10/182.6									RD	+10-XG112	8	a	8	,	b	+25-SF11	23								&E01+10/182.6	
&E01+10/183.1								WH		+10-XG114	1	a	9	,	b	+25-SF20	C1								&E01+10/183.1	
&E01+10/183.1								BN		+10-XG114	2	a	10	,	b	+25-SF20	NO1								&E01+10/183.1	
&E01+10/183.2								GN		+10-XG114	3	a	11	,	b	+25-SF20	C2								&E01+10/183.2	
&E01+10/183.2								YE		+10-XG114	4	a	12	,	b	+25-SF20	NO2								&E01+10/183.2	
&E01+10/183.3								GY		+10-XG114	5	a	13	,	b											
&E01+10/183.3								PK		+10-XG114	6	a	14	,	b											
&E01+10/183.4								BU		+10-XG114	7	a	15	,	b											
&E01+10/183.4								RD		+10-XG114	8	a	16	,	b											
&E01+10/183.5								BK		+10-XG114	9	a	17	,	b	+25-SF22	13								&E01+10/183.5	
&E01+10/183.5								VT		+10-XG114	10	a	18	,	b	+25-SF22	14								&E01+10/183.5	
&E01+10/183.6								GYPK		+10-XG114	13	a	19	,	b	+25-SF22	23								&E01+10/183.6	
&E01+10/183.6								RDBU		+10-XG114	14	a	20	,	b	+25-SF22	24								&E01+10/183.6	
&E01+10/183.7								WHGN		+10-XG114	15	a	21	,	b	+25-SF21	13								&E01+10/183.8	
&E01+10/183.8								BNGN		+10-XG114	16	a	22	,	b	+25-SF21	14								&E01+10/183.8	
&E01+10/183.8								WHYE		+10-XG114	17	a	23	,	b	+25-SF21	23								&E01+10/183.9	
&E01+10/183.9								YEBN		+10-XG114	18	a	24	,	b	+25-SF21	24								&E01+10/183.9	
&E01+10/182.9									GNYE	+10-XG112	12	a	25PE	,	b											
&E01+10/183.9								GNYE		+10-XG114	12	a	26PE	,	b	+25-XE1	1								&E01+10/183.9	

Terminal connection table

Page / Path	Cable marking	Cable type	+25-WG25.3 UNITRONIC FD CP UL/CSA 18x0,34 mm²	Designation terminal strip +25-XD113 Inputs control panel – Source: Equipment	Source: Connection	Terminals: Connection	Terminals: Designation	Terminals: Bridge	Terminals: Connection	Target: Equipment	Target: Connection	Cable marking	Cable type	Page / Path
&E01+10/209.1			WH	+10-XG113	1	a	1.1		b	+25-SF514	13			&E01+10/209.1
									c	+25-SF515	13			&E01+10/209.2
							1.2		a	+25-SF516	13			&E01+10/209.3
									b	+25-SF517	13			&E01+10/209.4
									c	+25-SF518	13			&E01+10/209.5
							1.3		a	+25-SF519	13			&E01+10/209.6
									b	+25-SF520	13			&E01+10/209.7
									c	+25-SF521	13			&E01+10/209.8
						a	1.4		b					
									c					
&E01+10/217.1			BN	+10-XG113	12	a	2.1		b	+25-PF514	X2			&E01+10/217.1
									c	+25-PF515	X2			&E01+10/217.2
							2.2		a	+25-PF516	X2			&E01+10/217.3
									b	+25-PF517	X2			&E01+10/217.4
							2.3		a	+25-PF519	X2			&E01+10/217.6
									c	+25-PF518	X2			&E01+10/217.5
							2.4		b	+25-PF520	X2			&E01+10/217.7
									c	+25-PF521	X2			&E01+10/217.8
&E01+10/209.1			GN	+10-XG113	3	a	3		b	+25-SF514	14			&E01+10/209.1
&E01+10/209.2			YE	+10-XG113	4	a	4		b	+25-SF515	14			&E01+10/209.2
&E01+10/209.3			GY	+10-XG113	5	a	5		b	+25-SF516	14			&E01+10/209.3
&E01+10/209.4			PK	+10-XG113	6	a	6		b	+25-SF517	14			&E01+10/209.4
&E01+10/209.5			BU	+10-XG113	7	a	7		b	+25-SF518	14			&E01+10/209.5
&E01+10/209.6			RD	+10-XG113	8	a	8		b	+25-SF519	14			&E01+10/209.6
&E01+10/209.7			BK	+10-XG113	9	a	9		b	+25-SF520	14			&E01+10/209.7
&E01+10/209.8			VT	+10-XG113	10	a	10		b	+25-SF521	14			&E01+10/209.8
&E01+10/217.1			GYPK	+10-XG113	11	a	11		b	+25-PF514	X1			&E01+10/217.1
&E01+10/217.2			RDBU	+10-XG113	2	a	12		b	+25-PF515	X1			&E01+10/217.2
&E01+10/217.3			WHGN	+10-XG113	13	a	13		b	+25-PF516	X1			&E01+10/217.3
&E01+10/217.4			BNGN	+10-XG113	14	a	14		b	+25-PF517	X1			&E01+10/217.4
&E01+10/217.5			WHYE	+10-XG113	15	a	15		b	+25-PF518	X1			&E01+10/217.5
&E01+10/217.6			YEBN	+10-XG113	16	a	16		b	+25-PF519	X1			&E01+10/217.6
&E01+10/217.7			WHGY	+10-XG113	17	a	17		b	+25-PF520	X1			&E01+10/217.7
&E01+10/217.8			GYBN	+10-XG113	18	a	18		b	+25-PF521	X1			&E01+10/217.8

Terminal connection table

Page / Path	Cable marking							+35-WE36	+35-WE35	Designation terminal strip +35-XE1 PE rail														Cable marking	
	Cable type							PUR_PE 1x6 mm²	PUR_PE 1x25 mm²	Source		Terminals				Target								Cable type	Page / Path
										Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection								
&E01+10/57.6									GNYE	+10-XE0	22		1												
&E01+10/72.4								GNYE		+35-GP36	PE1		2												
													3												
													4												
													5												

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +55-XD610.1							Cable marking	Cable type	Page / Path
			Source		Terminals				Target			
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection		
&E01+10/100.2			+10-UC55.1-XD610	U:b		U	,		+55-MA610	U1	&E01+10/100.2	
&E01+10/100.2			+10-UC55.1-XD610	V:b		V	,		+55-MA610	V1	&E01+10/100.2	
&E01+10/100.2			+10-UC55.1-XD610	W:b		W	,		+55-MA610	W1	&E01+10/100.2	

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +75-UC00-XD0								+75-WD0	Cable marking	Page / Path
			Source		Terminals				Target				
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection	H07RN-F 5x50 mm²	Cable type	
					a	1		b	+10-XD0	1:a	BN	&E01+10/46.2	
					a	1PE		b	+10-XD0	PE:a	GNYE	&E01+10/46.4	
					a	2		b	+10-XD0	2:a	BK	&E01+10/46.2	
					a	3		b	+10-XD0	3:a	GY	&E01+10/46.3	
					a	4		b	+10-XD0	4:a	LBU	&E01+10/46.4	

Terminal connection table

Page / Path	Cable marking	Cable type	Designation terminal strip +75-XG99.5						Cable marking	Cable type	Page / Path
			Source		Terminals				Target		
			Equipment	Connection	Connection	Designation	Bridge	Connection	Equipment	Connection	
					a	2	,	b			
&E01+10/51.0			+99-XG99.1	PE	a	1PE	,	b			
					a	1	,	b			
					a	2PE	,	b			
&E01+10/51.2			+99-XG99.1	6	a	6	,	b			
					a	3PE	,	b	+10-XG99.510	5(A-Z)	&E01+10/51.4
&E01+10/51.1			+99-XG99.1	5	a	5	,	b			
&E01+10/51.3			+99-XG99.1	4	a	4	,	b	+10-XG99.510	2	&E01+10/51.3
&E01+10/51.3			+99-XG99.1	3	a	3	,	b	+10-XG99.510	1	&E01+10/51.3
&E01+10/51.3			+99-XG99.1	3	a	3	,	b	+10-XG99.510	1	&E01+10/51.3

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	terminal diagram +75-XG99.5	433021	& E05
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Plug overview

Plug	Specification Plug	Page Connector pin assignment
+10-XD25	-XD25 Control panel supply	&E07/601
+10-XD36	-XD36 Hydraulics	&E07/602
+10-XD40	-XD40 cooling unit	&E07/603
+10-XD75.1	-XD75.1 column-mounted slewing crane	&E07/604
+10-XD83	-XD83 Oil mist collector	&E07/605
+10-XD88	-XD88 Return oil pump	&E07/606
+10-XD99	-XG99 fire extinguishing system interface	&E07/607
+10-XD102.1	-XD102.1 disengagement Sealing air	&E07/608
+10-XG8	-XG8 C1 axis, bearing temperature monitoring	&E07/609
+10-XG10	-XG10 B axis, bearing temperature monitoring	&E07/610
+10-XG11	-XG11 B-AXIS sensor orientation grinding wheel	&E07/611
+10-XG20	-XG20 Z1 axis counter support 1 vibration sensor	&E07/612
+10-XG21	Z1 axis, counter support 1 vibration sensor	&E07/613
+10-XG22	-XG22 B axis, axial vibration sensor	&E07/614
+10-XG23	-XG23 B axis, radial vibration sensor	&E07/615
+10-XG35	-XG35 Central lubrication	&E07/616
+10-XG35.2	-XG35.2 sealing air shut-off	&E07/617
+10-XG40	-XG40 cooling unit 1 interface	&E07/618
+10-XG75	-XG75 working chamber lighting	&E07/619
+10-XG75.1	-XG75.1 door switch with locking system on operating side	&E07/620
+10-XG75.3	-XG75.2 deflagration flap monitoring	&E07/621
+10-XG82	-XG82 filter system interface	&E07/622
+10-XG83	-XG83 oil mist collector	&E07/623
+10-XG99	-XG99 fire extinguishing system interface	&E07/624
+10-XG99.510	230VAC	&E07/625
+10-XG100	-XG100 working chamber lighting loading	&E07/626
+10-XG100.1	XG100.1 swivel loader door at front	&E07/627
+10-XG100.2	XG100.2 swivel loader door at rear	&E07/628
+10-XG100.3	XG100.3 service door closed	&E07/629
+10-XG101	-XG101 working chamber lighting intermediate storage	&E07/630
+10-XG101.1	-XG101.1-loading door	&E07/631
+10-XG101.2	-XG101.2 loading door connecting block	&E07/632
+10-XG102	-XG102 external loading device	&E07/633
+10-XG103	-XG103 external loading device	&E07/634
+10-XG112	-XG112 control panel signals	&E07/635
+10-XG113	-XG113 control panel signals	&E07/636

Plug overview

Plug	Specification Plug	Page Connector pin assignment
+10-XG114	-XG114 control panel signals	&E07/637
+10-XG115	-XG115 control panel signals	&E07/638
+10-XG116	-XG116 grinding wheel step switch	&E07/639
+10-XG300	-XG300 workpiece clamping device C1 nominal value	&E07/640
+10-XG302	-XG302 2.Brake Z axis	&E07/641
+10-XG600	-XG600 Head dresser in basic position	&E07/642
+10-XG601	-XG601 Head dresser in working position	&E07/643
+10-XG602	-XG602 valve Head dresser to working position	&E07/644
+10-XG812.2	-XG812.2 release pneumatic movements	&E07/645
+10-XG813.1	-XG813.1 unclamping A axis valve 1	&E07/646
+10-XG813.2	-XG813.2 unclamping A axis valve 2	&E07/647
+10-XG814	-XG814 release undo tool clamping device	&E07/648
+10-XG900	-XG900 24VDC valve terminal	&E07/649
+10-XG902.3	-XG902.3 sealing air shut-off	&E07/650
+10-XG905.1	-XG905.1 valve gripper 1	&E07/651
+10-XG905.2	-XG905.2 valve gripper 1	&E07/652
+10-XG906.1	-XG906.1 valve gripper 2	&E07/653
+10-XG906.2	-XG906.2 valve gripper 2	&E07/654
+10-XG911	-XG911 24VDC IO link master hydraulics	&E07/655
+10-XG912	-XG912 24VDC IO link master hydraulics	&E07/656
+10-XG920	-XG920 gap finding sensor C1 axis	&E07/657
+10-XG920.32	-XG920.32 tool clamping fixture position actual value	&E07/658
+10-XG921	-XG921 24VDC IO link master machine	&E07/659
+10-XG921A		&E07/660
+10-XG922	-XG922 24VDC IO link master machine	&E07/661
+10-XG922A		&E07/662
+10-XG930	-XG930 gap finding sensor C2 axis	&E07/663
+10-XG931	-XG931 24VDC IO link master cooling	&E07/664
+10-XG932	-XG932 24VDC IO link master cooling	&E07/665
+10-XG940	-XG940 level leakage oil collector pan	&E07/666
+35-XD36.1	+35-XD36.1 motor hydraulics	&E07/667
+35-XF910-X1		&E07/668
+35-XF910-X2		&E07/669
+35-XF910-X3		&E07/670
+35-XF910-X6	Valve, pressure build-up, open hydraulic pressure accumulator	&E07/671
+35-XF910-X7	Valve, pressure relief, open hydraulic pressure accumulator	&E07/672

Plug overview

Plug	Specification Plug	Page Connector pin assignment
+35-XF910-X8		&E07/673
+35-XF910-X9		&E07/674
+35-XF910-X10		&E07/675
+35-XF910-X11	Loosen measuring bracket	&E07/676
+35-XF910-X12	Measuring bracket forwards	&E07/677
+35-XF910-X14	Measuring bracket backwards	&E07/678
+35-XF910-X15	Measuring bracket backwards	&E07/679
+35-XF930-X9		&E07/680
+35-XF930-X10	Bed rinsing 150l/min 20bar	&E07/681
+35-XF930-X11	Bed rinsing 50l/min 6bar	&E07/682
+35-XF930-X12		&E07/683
+35-XF930-X13		&E07/684
+35-XF930-X14		&E07/685
+35-XF930-X15		&E07/686
+40-EC40-XS40	+40-EC40-XS40 cooling unit	&E07/687
+48-XG920.1	Detection of gear gap C1 sensor at Z3	&E07/688
+48-XG920.2	+48-XG920.2 Gap finding sensor Z3-axis	&E07/689
+49-XG930.1	Detection of gear gap C1 sensor at Z4	&E07/690
+49-XG930.2	+49-XG930.2 Gap finding sensor Z4-axis	&E07/691
+50-XG2	Coolant lubricant cleaning unit, reference temperature for machine bed	&E07/692
+55-XG8.1	C-AXIS bearing temperature control	&E07/693
+60-XG302.1	external brake Z-axis	&E07/694
+65-XG922.7	Position of cooling lubricant adjustment at front	&E07/695
+65-XG922.8	Position of cooling lubricant adjustment at rear	&E07/696
+67-XD500	-XD500 B-Achse Leistung Motor	&E07/697
+67-XG11.1	position acceptance grinding wheel	&E07/698
+67-XG500	-XG500 B-Achse Temperatur Motor	&E07/699
+67-XG501.1	-XG501.1 B-Achse Messystem 1 Abtastopf 1	&E07/700
+67-XG501.2	-XG501.2 B-Achse Messystem 1 Abtastkopf 2	&E07/701
+75-XD75.2	Slewing crane	&E07/702
+82-XG-BT0	Coolant lubricant cleaning unit, reference temperature for machine bed	&E07/703
+82-XG100	+82-XG100 filter system interface	&E07/704
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	&E07/705
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	&E07/706
+88-MA88-XD1	Return oil pump	&E07/707
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	&E07/708

Plug overview

Plug	Specification Plug	Page Connector pin assignment
+90-XD520	B2 axis, motor	&E07/709
+90-XG520	B2 axis, motor	&E07/710
+90-XG600.1	Head dressing at base position	&E07/711
+90-XG600.2	!!!WORT FEHLT!!!	&E07/712
+90-XG600.3	Head dressing at base position	&E07/713
+90-XG601.1	Head dressing at operating position	&E07/714
+90-XG601.2	!!!WORT FEHLT!!!	&E07/715
+90-XG601.3	Head dressing at operating position	&E07/716
+92-XG20.1	+92-XG20.1 vibration sensor Z1 axis	&E07/717
+92-XG20.2	Z1 axis, counter support 1 vibration sensor	&E07/718
+93-XG21.1	+93-XG21.1 vibration sensor Z2 axis	&E07/719
+99-XD99	3 oder 5 polig Versorgung Löschanlage	&E07/720
+99-XG99	+99-XG99 fire extinguishing system interface	&E07/721
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	&E07/722
+101-XG101.3	+101-XG101.3 loading door safety strip	&E07/723
+101-XG101.4	Intermediate storage	&E07/724
+102-UC102-X6110		&E07/725
+102-UC102-X6111		&E07/726

Connector pin assignment

Function indication	Cable marking	Plug +10-XD25 -XD25 Control panel supply						+25-WD25	Cable marking	
	Cable type	Source		Plug		Target		PUR UL/CSA 3x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-XD02	1:b	1		+25-XD25	1:a	1		&E01+25/232.1
		+10-XD-	40:a	2		+25-XD25	2:a	2		&E01+25/232.2
				3						
				4						
				5						
		+10-XE0	55	PE		+25-XD25	3PE:a	GNYE		&E01+25/232.2

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			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 601
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Connector pin assignment

Function indication	Cable marking	Plug +10-XD36 -XD36 Hydraulics						+35-WD36	Cable marking	
	Cable type	Source		Plug		Target		PURN 4x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Hydraulics, motor		+10-QA36	2T1	1		+35-XD36.1	1	1	&E01+10/72.2	
Hydraulics, motor		+10-QA36	4T2	2		+35-XD36.1	2	2	&E01+10/72.2	
Hydraulics, motor		+10-QA36	6T3	3		+35-XD36.1	3	3	&E01+10/72.2	
				4						
				5						
				6						
Hydraulics, motor		+10-XE0	63	PE		+35-XD36.1	PE	GNYE	&E01+10/72.2	

Connector pin assignment

Function indication	Cable marking	Plug +10-XD40 -XD40 cooling unit						Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection		
Cooling unit 1 (machine)		+10-QA40	2T1	1					&E01+10/67.2
Cooling unit 1 (machine)		+10-QA40	4T2	2					&E01+10/67.2
Cooling unit 1 (machine)		+10-QA40	6T3	3					&E01+10/67.2
				4					
				5					
				6					
Cooling unit 1 (machine)		+10-XE0	60	PE					&E01+10/67.2

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Plug +10-XD75.1 -XD75.1 column-mounted slewing crane						+75-WD75.1	Cable marking	
	Cable type	Source		Plug		Target		PUR UL/CSA 7x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Slewing crane		+10-QA75.1	2	1		+75-XD75.2	1	1		&E01+10/68.2
Slewing crane		+10-QA75.1	4	2		+75-XD75.2	2	2		&E01+10/68.2
Slewing crane		+10-QA75.1	6	3		+75-XD75.2	3	3		&E01+10/68.2
(Option)		+10-XD-	30:c	4		+75-XD75.2	4	4		&E01+10/205.5
Slewing crane in parking position		+10-XD04	9:a	5		+75-XD75.2	5	5		&E01+10/205.5
Slewing crane in parking position		+10-KF825	5	6		+75-XD75.2	6	6		&E01+10/205.5
Slewing crane		+10-XE0	61	PE		+75-XD75.2	GND	GNYE		&E01+10/68.2

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Plug +10-XD83 -XD83 Oil mist collector						+83-WD83	Cable marking	
	Cable type	Source		Plug		Target		PURN 4x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Oil mist collector		+10-QA83	2T1	1		+83-HR83-X2	1	1	&E01+10/76.1	
Oil mist collector		+10-QA83	4T2	2		+83-HR83-X2	2	2	&E01+10/76.1	
Oil mist collector		+10-QA83	6T3	3		+83-HR83-X2	3	3	&E01+10/76.2	
				4						
				5						
				6						
Oil mist collector		+10-XE0	65	PE		+83-HR83-X2	PE	GNYE	&E01+10/76.2	

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Connector pin assignment

Function indication	Cable marking								+10-WD88.1	Plug +10-XD88 -XD88 Return oil pump						+88-WD88.2								Cable marking	
	Cable type								PUR(C) 4x1,5 mm²	Source		Plug		Target		PUR(C) 4x1,5 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Return oil pump									1	+10-QA88	2T1	1		+88-MA88-XD1	1	1								&E01+10/74.1	
Return oil pump									2	+10-QA88	4T2	2		+88-MA88-XD1	2	2								&E01+10/74.1	
Return oil pump									3	+10-QA88	6T3	3		+88-MA88-XD1	3	3								&E01+10/74.2	
												4													
												5													
												6													
												PE													
Return oil pump									GNYE	+10-XE0	64	GND		+88-MA88-XD1	PE	GNYE								&E01+10/74.2	

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Plug +10-XD99 -XG99 fire extinguishing system interface						+99-WD99								Cable marking	
	Cable type	Source		Plug		Target		ÖLFLEX-540P 3x1,5 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
Thermal detector		+10-XD22	1:b	1		+99-XD99	1	BN								&E01+10/51.2	
230VAC		+10-XD22	2:b	2		+99-XD99	2	BU								&E01+10/51.2	
				3													
				4													
				5													
				6													
230VAC		+10-XD22	3PE:b	PE		+99-XD99	PE	GNYE								&E01+10/51.2	

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +10-XD102.1 -XD102.1 disengagement Sealing air						Cable marking	Cable type	Page / Path
			Source		Plug		Target				
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
					1						
					2						
					3						
					4						
					5						
					6						
					PE						

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XD102.1 -XD102.1 disengagement Sealing air	433021	& E07
			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	+10-WG8	Plug +10-XG8 -XG8 C1 axis, bearing temperature monitoring						Cable marking	Page / Path
	Cable type	4x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4(C) AL-WAKS4-03-AL-WASS4/5870 4x0,34 mm²	
C-AXIS bearing temperature control		SH	PE		PE		+55-XG8.1	PE		&E01+10/212.3
C-AXIS bearing temperature control		BN	+10-KF841	9			+55-XG8.1	1	BN	&E01+10/212.2
C-AXIS bearing temperature control		BU		N.C.			+55-XG8.1	3	BU	&E01+10/212.2
C-AXIS bearing temperature control		BK	+10-KF841	5			+55-XG8.1	4	BK	&E01+10/212.2
C-AXIS bearing temperature control		WH		N.C.			+55-XG8.1	2	WH	&E01+10/212.2

Connector pin assignment

Function indication	Cable marking								+10-WG10	Plug +10-XG10 -XG10 B axis, bearing temperature monitoring						+67-WG10.1								Cable marking	
	Cable type								4x0,34 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
B-AXIS bearing temperature control									SH	PE		PE		+67-WG10.1										&E01+10/211.3	
B-AXIS bearing temperature control									BN	+10-KF840	9			+67-TF10	1	BN								&E01+10/211.2	
B-AXIS bearing temperature control									BU		N.C.			+67-TF10	3	BU								&E01+10/211.2	
B-AXIS bearing temperature control									WH	+10-KF840	5			+67-TF10	2	WH								&E01+10/211.2	
B-AXIS bearing temperature control									BK		N.C.			+67-TF10	4	BK								&E01+10/211.2	

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Connector pin assignment

Function indication	Cable marking								+10-W11	Plug +10-XG11 -XG11 B-AXIS sensor orientation grinding wheel						+67-WG11.1								Cable marking	
	Cable type								4x0,34 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
position acceptance grinding wheel									SH	+10-XE1	36	PE		+67-WG11.1										&E01+10/129.2	
position acceptance grinding wheel									BK	+10-KF25.1	11			+67-XG11.1	4	BK								&E01+10/129.1	
position acceptance grinding wheel									WH		N.C.			+67-XG11.1	2	WH								&E01+10/129.1	
position acceptance grinding wheel									BU	+10-XD-	12:a			+67-XG11.1	3	BU								&E01+10/129.2	
position acceptance grinding wheel									BN	+10-XD05	6:a			+67-XG11.1	1:1	BN								&E01+10/129.2	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG11 -XG11 B-AXIS sensor orientation grinding wheel	433021	& E07
			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	+10-WG20	Plug +10-XG20 -XG20 Z1 axis counter support 1 vibration sensor						+92-WG20.1	Cable marking	
	Cable type	4x0,34 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
Z1 axis, counter support 1 vibration sensor		BN	+10-KF999	9	1		+92-XG20.1	1	BN		&E01+10/131.1
Z1 axis, counter support 1 vibration sensor		WH	+10-KF999	10	2		+92-XG20.1	2	WH		&E01+10/131.1
Z1 axis, counter support 1 vibration sensor		BU	+10-KF999	11	3		+92-XG20.1	3	BU		&E01+10/131.1
Z1 axis, counter support 1 vibration sensor		BK	+10-KF999	12	4		+92-XG20.1	4	BK		&E01+10/131.2
Z1 axis, counter support 1 vibration sensor		SH	+10-XE1	31	PE		+92-XG20.1	SH	SH		&E01+10/131.2

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG20 -XG20 Z1 axis counter support 1 vibration sensor	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 612
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Connector pin assignment

Function indication	Cable marking	+10-WG21	Plug +10-XG21						Cable marking	Page / Path
	Cable type	4x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Z1 axis, counter support 1 vibration sensor		BN	+10-KF999	13	1					&E01+10/131.3
Z1 axis, counter support 1 vibration sensor		WH	+10-KF999	14	2					&E01+10/131.3
Z1 axis, counter support 1 vibration sensor		BU	+10-KF999	15	3					&E01+10/131.4
Z1 axis, counter support 1 vibration sensor		BK	+10-KF999	16	4					&E01+10/131.4
Z1 axis, counter support 1 vibration sensor		SH	+10-XE1	32	PE					&E01+10/131.4

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG21	433021	& E07
			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	+10-WG22	Plug +10-XG22 -XG22 B axis, axial vibration sensor						Cable marking	Page / Path
	Cable type	4x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
B axis, axial vibration sensor		BN	+10-KF999	17	1					&E01+10/131.5
B axis, axial vibration sensor		WH	+10-KF999	18	2					&E01+10/131.6
B axis, axial vibration sensor		BU	+10-KF999	19	3					&E01+10/131.6
B axis, axial vibration sensor		BK	+10-KF999	20	4					&E01+10/131.6
B axis, axial vibration sensor		SH	+10-XE1	33	PE					&E01+10/131.6

Connector pin assignment

Function indication	Cable marking	+10-WG23	Plug +10-XG23 -XG23 B axis, radial vibration sensor						Cable marking	Page / Path
	Cable type	4x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
B axis, radial vibration sensor		BN	+10-KF999	21	1					&E01+10/131.8
B axis, radial vibration sensor		WH	+10-KF999	22	2					&E01+10/131.8
B axis, radial vibration sensor		BU	+10-KF999	23	3					&E01+10/131.8
B axis, radial vibration sensor		BK	+10-KF999	24	4					&E01+10/131.8
B axis, radial vibration sensor		SH	+10-XE1	34	PE					&E01+10/131.8

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG35 -XG35 Central lubrication								+35-WD35								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			PUR 4x0,5 mm²									
Central lubrication		+10-KF31.1	14	1		+35-GP3	XS1:1			1								&E01+10/84.2	
Central lubrication		+10-XD-	8	2		+35-GP3	XS1:2			2								&E01+10/84.3	
Central lubrication		+10-KF31.1	13	3		+35-GP3	XS1:3			3								&E01+10/84.2	
				4															
				5															
				6															
Central lubrication		+10-XE0	26	PE		+35-GP3	XS1:PE			GNYE								&E01+10/84.3	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG35.2 -XG35.2 sealing air shut-off						+35-WG35.2	Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
fire extinguishing system fire detected		+10-XD35.2	2:b	3		+35-KK1	2	BU	&E01+10/52.8	
fire extinguishing system fire detected		+10-XD35.2	1:b	4		+35-KK1	1	BK	&E01+10/52.7	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG40 -XG40 cooling unit 1 interface						Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection		
Cooling unit 1 (machine)		+10-XD05	1:a	1					&E01+10/67.4
Cooling unit 1 ready for use		+10-KF824	9	2					&E01+10/67.4
Cooling unit 1 ready for use		+10-KF824	10	3					&E01+10/67.5
Cooling unit 1 ready for use				4					&E01+10/67.5

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG75 -XG75 working chamber lighting								+75-WG75	Cable marking	
	Cable type	Source		Plug		Target				PUR3 3x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Working chamber lighting				1		+75-EA75	X1:1			BN	&E01+10/63.2	
Working chamber lighting		+10-XD-	3:c	3		+75-EA75	X1:3			BU	&E01+10/63.1	
Working chamber lighting		+10-KF75	14	4		+75-EA75	X1:4			BK	&E01+10/63.1	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG75.1 -XG75.1 door switch with locking system on operating side						+75-WG75.1	Cable marking	
	Cable type	Source		Plug		Target		PUR 19x0,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Door switch with locking system on operating side		+10-KF863	1	1		+75-QQ101.1	17	WH		&E01+10/192.5
Door switch with locking system on operating side		+10-XG75.1	6	2		+75-QQ101.1	7	GYPK		&E01+10/192.4
Door switch with locking system on operating side		+10-XG75.1	2	3		+75-QQ101.1	9	YEWH		&E01+10/192.4
Door switch with locking system on operating side		+10-KF801	1	4		+75-QQ101.1	8	GNWH		&E01+10/192.4
Door switch with locking system on operating side		+10-KF801	5	5		+75-QQ101.1	10	GYWH		&E01+10/192.5
Door switch with locking system on operating side		+10-XD04	2:a	6		+75-QQ101.1	11	BK		&E01+10/192.4
Door switch with locking system on operating side		+10-XD-	25:a	7		+75-QQ101.1	2	RD		&E01+10/192.3
Door switch with locking system on operating side		+10-KF825	1	8		+75-QQ101.1	5	GN		&E01+10/192.5
Door switch with locking system on operating side				9		+75-QQ101.1	4	RDBU		&E01+10/192.3
Door switch with locking system on operating side				10		+75-QQ101.1	13	PK		&E01+10/192.5
Door switch with locking system on operating side				11		+75-QQ101.1	6	BU		&E01+10/192.3
				12						
Door switch with locking system on operating side		+10-XD-	25:b	13		+75-QQ101.1	3	GY		&E01+10/192.3
Door switch with locking system on operating side				14		+75-QQ101.1	14	BNGY		&E01+10/192.3
Door switch with locking system on operating side		+10-KF862	1	15		+75-QQ101.1	16	BNGN		&E01+10/192.5
Door switch with locking system on operating side		+10-XD04	1:c	16		+75-QQ101.1	15	BNYE		&E01+10/192.3
Door switch with locking system on operating side				17		+75-QQ101.1	1	VT		&E01+10/192.3
Door switch with locking system on operating side		+10-XD-	24:b	18		+75-QQ101.1	18	YE		&E01+10/192.2
Door switch with locking system on operating side		+10-XD-	24:c	19		+75-QQ101.1	19	BN		&E01+10/192.3
				20						
				21						
				22						
				23						
				24						
Door switch with locking system on operating side		+10-XE0	52	PE		+75-QQ101.1	12	GNYE		&E01+10/192.2

Connector pin assignment

Function indication	Cable marking	Plug +10-XG75.3 -XG75.2 deflagration flap monitoring								+75-WG75.3	Cable marking	
	Cable type	Source		Plug		Target				PUR(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Deflagration flap closed		+10-XD04	8:a	1		+75-BG1				BN	&E01+10/196.4	
Deflagration flap closed				2							&E01+10/196.4	
Deflagration flap closed		+10-XD-	30:a	3		+75-BG1				BU	&E01+10/196.4	
Deflagration flap closed		+10-KF825	4	4		+75-BG1				BK	&E01+10/196.3	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG82 -XG82 filter system interface						+82-WG82	Cable marking	
	Cable type	Source		Plug		Target		PURN 25x1 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
24VDC from machine		+10-XD19	2:a	1		+82-XG100	1	1	&E01+10/66.2	
0VDC from machine		+10-XD-	4:b	2		+82-XG100	2	2	&E01+10/66.3	
Channel 1		+10-KF804	2	3		+82-XG100	3	3	&E01+10/66.3	
Emergency stop of filter system channel 1		+10-KF804	10	4		+82-XG100	4	4	&E01+10/66.3	
Channel 2		+10-KF804	6	5		+82-XG100	5	5	&E01+10/66.4	
Emergency stop of filter system channel 2		+10-KF804	14	6		+82-XG100	6	6	&E01+10/66.4	
Emergency stop of filter system channel 2				7		+82-XG100	7	7	&E01+10/66.4	
Emergency stop of filter system channel 2				8		+82-XG100	8	8	&E01+10/66.4	
Emergency stop of filter system channel 2				9		+82-XG100	9	9	&E01+10/66.5	
Emergency stop of filter system channel 2				10		+82-XG100	10	10	&E01+10/66.5	
Emergency stop of filter system channel 2		+10-KF55.1	13	11		+82-XG100	11	11	&E01+10/66.5	
Emergency stop machine channel 1		+10-KF55.1	14	12		+82-XG100	12	12	&E01+10/66.6	
Emergency stop machine channel 1		+10-KF55.1	23	13		+82-XG100	13	13	&E01+10/66.6	
Emergency stop machine channel 2		+10-KF55.1	24	14		+82-XG100	14	14	&E01+10/66.6	
24VDC from filter system				15		+82-XG100	15	15	&E01+10/66.7	
0VDC from filter system				16		+82-XG100	16	16	&E01+10/66.7	
0VDC from filter system				17		+82-XG100	17	17	&E01+10/66.7	
0VDC from filter system				18		+82-XG100	18	18	&E01+10/66.8	
0VDC from filter system				19		+82-XG100	19	19	&E01+10/66.8	
0VDC from filter system				20		+82-XG100	20	20	&E01+10/66.8	
0VDC from filter system				21		+82-XG100	21	21	&E01+10/66.8	
0VDC from filter system				22		+82-XG100	22	22	&E01+10/66.8	
0VDC from filter system				23		+82-XG100	23	23	&E01+10/66.8	
0VDC from filter system				24		+82-XG100	24	24	&E01+10/66.9	
				PE						
0VDC from filter system		+10-XE0	59	PE		+82-XG100	PE	GNYE	&E01+10/66.9	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG83 -XG83 oil mist collector						+83-WG83	Cable marking	
	Cable type	Source		Plug		Target		PUR N 7X 1,0 7x1 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Oil mist collector		+10-XD-	5:c	1		+83-HR83-X3	1	1		&E01+10/76.4
Oil mist collector		+10-KF864	5	2		+83-HR83-X3	2	2		&E01+10/76.4
Oil mist collector		+10-KF864	6	3		+83-HR83-X3	3	3		&E01+10/76.4
Oil mist collector		+10-KF823	8	4		+83-HR83-X3	4	4		&E01+10/76.5
Oil mist collector				5		+83-HR83-X3	5	5		&E01+10/76.5
Oil mist collector		+10-KF823	16	6		+83-HR83-X3	6	6		&E01+10/76.5
Oil mist collector		+10-XE0	66	PE		+83-HR83-X3	PE	GNYE		&E01+10/76.6

Connector pin assignment

Function indication	Cable marking	Plug +10-XG99 -XG99 fire extinguishing system interface						+10-WG99	Cable marking	
	Cable type	Source		Plug		Target		SUPERFLEX PLUS N PUR 18x0,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Voltage supply 24 V DC		+10-XD01	1:a	1		+99-XG99	1	1		&E01+10/52.0
Voltage supply 24 V DC		+10-XD-	2:a	2		+99-XG99	2	2		&E01+10/52.1
Emergency stop circuit channel 1		+10-KF804	1	3		+99-XG99	3	3		&E01+10/52.1
Emergency stop circuit channel 1		+10-KF804	9	4		+99-XG99	4	4		&E01+10/52.2
Emergency stop circuit channel 2		+10-KF804	5	5		+99-XG99	5	5		&E01+10/52.2
Emergency stop circuit channel 2		+10-KF804	13	6		+99-XG99	6	6		&E01+10/52.2
(External door contact)		+10-XD99.1	1:a	7		+99-XG99	7	7		&E01+10/52.3
(Working chamber closed/locked)		+10-XD99.1	2:a	8		+99-XG99	8	8		&E01+10/52.3
(Working chamber closed/locked)		+10-XD99.1	3:a	9		+99-XG99	9	9		&E01+10/52.4
(Working chamber closed/locked)		+10-XD99.1	4:a	10		+99-XG99	10	10		&E01+10/52.4
Fire extinguishing system ready to extinguish		+10-KF824	15	11		+99-XG99	11	11		&E01+10/52.4
Fire extinguishing system OK		+10-KF824	16	12		+99-XG99	12	12		&E01+10/52.6
relay 3		+10-KF824	14	13		+99-XG99	13	13		&E01+10/52.6
fire extinguishing system fire detected		+10-XD35.2	1:a	14		+99-XG99	14	14		&E01+10/52.7
relay 2		+10-XD01	1:b	15		+99-XG99	15	15		&E01+10/52.5
Fault relay		+10-XD01	2:a	16		+99-XG99	16	16		&E01+10/52.6
Air supply ON		+10-XG902.3	4	17		+99-XG99	17	17		&E01+10/52.7
				18						
				19						
				20						
				21						
				22						
				23						
				24						
fire extinguishing system fire detected		+10-XE1	3	PE		+99-XG99	PE	GNYE		&E01+10/52.9

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Connector pin assignment

Function indication	Cable marking									Plug +10-XG99.510						+25-WG99.511								Cable marking	
	Cable type									Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
230VAC										+75-XG99.5	3:b	1												&E01+10/51.3	
Manual release										+75-XG99.5	4:b	2												&E01+10/51.3	
Manual release										+75-XG99.5	N.C.	3												&E01+10/51.4	
Manual release										+75-XG99.5	N.C.	4												&E01+10/51.4	
Manual release										+75-XG99.5	3PE:b	5(A-Z)		+25-WG99.511	SH	SH								&E01+10/51.4	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG100 -XG100 working chamber lighting loading								+100-WG100	Cable marking	
	Cable type	Source		Plug		Target				PUR3 3x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
loading device				1		+100-EA100	X1:1	BN			&E01+10/63.5	
loading device		+10-XD-	4:a	3		+100-EA100	X1:3	BU			&E01+10/63.4	
loading device		+10-KF75	34	4		+100-EA100	X1:4	BK			&E01+10/63.4	

Connector pin assignment

Function indication	Cable marking								+10-WG100.1	Plug +10-XG100.1 XG100.1 swivel loader door at front						+100-WG100.12								Cable marking	
	Cable type								PUR 8x0,25 mm²	Source		Plug		Target		PUR 8x0,25 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Safety switch for switch swivel loader door, at front									WH	+10-XD04	3:b	1		+100-QQ100.1	1	WH								&E01+10/193.3	
Safety switch for switch swivel loader door, at front									BN	+10-XD04	2:b	2		+100-QQ100.1	2	BN								&E01+10/193.2	
Safety switch for switch swivel loader door, at front									GN	+10-KF805	1	3		+100-QQ100.1	3	GN								&E01+10/193.2	
Safety switch for switch swivel loader door, at front									YE	+10-KF805	5	4		+100-QQ100.1	4	YE								&E01+10/193.3	
Safety switch for switch swivel loader door, at front									GY		N.C.	5		+100-QQ100.1	5	GY								&E01+10/193.3	
Safety switch for switch swivel loader door, at front									PK	+10-XD04	3:a	6		+100-QQ100.1	6	PK								&E01+10/193.2	
Safety switch for switch swivel loader door, at front									BU	+10-XD-	26:b	7		+100-QQ100.1	7	BU								&E01+10/193.2	
Safety switch for switch swivel loader door, at front									RD	+10-XD-	26:a	8		+100-QQ100.1	8	RD								&E01+10/193.2	
Safety switch for switch swivel loader door, at front										+10-XE1	32	SH												&E01+10/193.3	

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Connector pin assignment

Function indication	Cable marking								+10-WG100.2	Plug +10-XG100.2 XG100.2 swivel loader door at rear						+100-WG100.22								Cable marking	
	Cable type								PUR 8x0,25 mm²	Source		Plug		Target		PUR 8x0,25 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Safety switch for swivel loader door, at rear									WH	+10-XD04	4:b	1		+100-QQ100.2	1	WH								&E01+10/193.7	
Safety switch for swivel loader door, at rear									BN	+10-XD04	3:a	2		+100-QQ100.2	2	BN								&E01+10/193.6	
Safety switch for swivel loader door, at rear									GN	+10-KF805	2	3		+100-QQ100.2	3	GN								&E01+10/193.6	
Safety switch for swivel loader door, at rear									YE	+10-KF805	6	4		+100-QQ100.2	4	YE								&E01+10/193.7	
Safety switch for swivel loader door, at rear												5		+100-QQ100.2	5	GY								&E01+10/193.7	
Safety switch for swivel loader door, at rear									PK	+10-XD04	4:a	6		+100-QQ100.2	6	PK								&E01+10/193.6	
Safety switch for swivel loader door, at rear									BU	+10-XD-	27:a	7		+100-QQ100.2	7	BU								&E01+10/193.5	
Safety switch for swivel loader door, at rear									RD	+10-XD-	27:b	8		+100-QQ100.2	8	RD								&E01+10/193.6	
Safety switch for swivel loader door, at rear										+10-XE1	32	SH												&E01+10/193.7	

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Connector pin assignment

Function indication	Cable marking	+10-WG100.3	Plug +10-XG100.3 XG100.3 service door closed						+75-WG100.31	Cable marking	
	Cable type	PUR 8x0,25 mm²	Source		Plug		Target		PUR 8x0,25 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
		WH	+10-XD04	6:b	1		+75-QQ100.3	1	WH		&E01+10/194.3
		BN	+10-XD04	5:b	2		+75-QQ100.3	2	BN		&E01+10/194.2
		GN	+10-KF801	4	3		+75-QQ100.3	3	GN		&E01+10/194.2
		YE	+10-KF801	8	4		+75-QQ100.3	4	YE		&E01+10/194.3
		GY		N.C.	5		+75-QQ100.3	5	GY		&E01+10/194.3
		PK	+10-XD04	6:a	6		+75-QQ100.3	6	PK		&E01+10/194.2
		BU	+10-XD-	28:a	7		+75-QQ100.3	7	BU		&E01+10/194.2
		RD	+10-XD-	28:b	8		+75-QQ100.3	8	RD		&E01+10/194.2
			+10-XE1	32	SH						&E01+10/194.3

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG101 -XG101 working chamber lighting intermediate storage						+101-WG101	Cable marking	
	Cable type	Source		Plug		Target		PUR4 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Intermediate storage				1		+101-XG101.4	1	BN	&E01+10/63.8	
Intermediate storage		+10-XD-	7	3		+101-XG101.4	3	BU	&E01+10/63.8	
Intermediate storage		+10-KF75	44	4		+101-XG101.4	4	BK	&E01+10/63.7	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG101.1 -XG101.1-loading door						+101-WG101.1	Cable marking	
	Cable type	Source		Plug		Target		PUR 19x0,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-KF863	3	1		+101-QQ101.1	17	WH		&E01+10/195.5
		+10-XG101.1	6	2		+101-QQ101.1	7	GYPK		&E01+10/195.4
		+10-XG101.1	2	3		+101-QQ101.1	9	YEWH		&E01+10/195.4
		+10-KF803	4	4		+101-QQ101.1	8	GNWH		&E01+10/195.4
		+10-KF803	8	5		+101-QQ101.1	10	GYWH		&E01+10/195.5
		+10-XD04	7:a	6		+101-QQ101.1	11	BK		&E01+10/195.4
		+10-XD-	29:b	7		+101-QQ101.1	2	RD		&E01+10/195.3
		+10-KF825	3	8		+101-QQ101.1	5	GN		&E01+10/195.5
				9		+101-QQ101.1	4	RDBU		&E01+10/195.3
				10		+101-QQ101.1	13	PK		&E01+10/195.5
				11		+101-QQ101.1	6	BU		&E01+10/195.3
				12						
		+10-XD-	29:c	13		+101-QQ101.1	3	GY		&E01+10/195.3
				14		+101-QQ101.1	14	BNGY		&E01+10/195.3
		+10-KF862	3	15		+101-QQ101.1	16	BNGN		&E01+10/195.5
		+10-XD04	7:c	16		+101-QQ101.1	15	BNYE		&E01+10/195.3
				17		+101-QQ101.1	1	VT		&E01+10/195.3
		+10-XD-	28:c	18		+101-QQ101.1	18	YE		&E01+10/195.2
		+10-XD-	29:a	19		+101-QQ101.1	19	BN		&E01+10/195.3
				20						
				21						
				22						
				23						
				24						
				PE						
		+10-XE0	53	GND		+101-QQ101.1	12	GNYE		&E01+10/195.2

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG101.2 -XG101.2 loading door connecting block						+101-WG101.2	+101-WG101.21	Cable marking	
	Cable type	Source		Plug		Target		PURN 3x1 mm²	PURN 3x1 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection				
Foot switch actuated channel 2		+10-KF805	12	1		+101-XG101.3	1	1		&E01+10/186.8	
Safety strip Loading door not activated Channel 1		+10-KF805	4	2		+101-XG101.3	2		1	&E01+10/186.8	
Safety strip Loading door not activated Channel 1				3						&E01+10/186.8	
Safety strip Loading door not activated Channel 2				4						&E01+10/186.8	
				5							
				6							
				PE							
Safety strip Loading door not activated Channel 2		+10-XE0	70	GND						&E01+10/186.9	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG102 -XG102 external loading device						Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection		
				1		+102-UC102-X6110	1		&E01+10/178.1
				2		+102-UC102-X6110	2		&E01+10/178.1
		+10-KF57	13	3		+102-UC102-X6110	3		&E01+10/178.1
		+10-KF57	14	4		+102-UC102-X6110	4		&E01+10/178.2
		+10-KF57	23	5		+102-UC102-X6110	5		&E01+10/178.2
		+10-KF57	24	6		+102-UC102-X6110	6		&E01+10/178.2
		+10-KF58	13	7		+102-UC102-X6110	7		&E01+10/178.3
		+10-KF58	14	8		+102-UC102-X6110	8		&E01+10/178.3
		+10-KF58	23	9		+102-UC102-X6110	9		&E01+10/178.4
		+10-KF58	24	10		+102-UC102-X6110	10		&E01+10/178.4
		+10-KF59	13	11		+102-UC102-X6110	11		&E01+10/178.4
		+10-KF59	14	12		+102-UC102-X6110	12		&E01+10/178.5
		+10-KF59	23	13		+102-UC102-X6110	13		&E01+10/178.5
		+10-KF59	24	14		+102-UC102-X6110	14		&E01+10/178.6
		+10-KF70	13	15		+102-UC102-X6110	15		&E01+10/178.6
		+10-KF70	14	16		+102-UC102-X6110	16		&E01+10/178.6
		+10-KF70	23	17		+102-UC102-X6110	17		&E01+10/178.7
		+10-KF70	24	18		+102-UC102-X6110	18		&E01+10/178.7
				19		+102-UC102-X6110	19		&E01+10/178.8
				20					
				21					
				22					
				23					
				24		+102-UC102-X6110	24		&E01+10/178.8
		+102-UC102-X6110		PE		+10-XE0	74		&E01+10/178.8

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Connector pin assignment

Function indication	Cable marking	+102-WG103	Plug +10-XG103 -XG103 external loading device						Cable marking	
	Cable type	PURN 18x1 mm²	Source		Plug		Target		Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
		1	+102-UC102-X6111	1:1	1		+10-XD03	1		&E01+10/178.1
		2	+102-UC102-X6111	2:2	2		+10-XD-	20:b		&E01+10/178.1
		3	+102-UC102-X6111	3:3	3		+10-KF809	1		&E01+10/178.1
		4	+102-UC102-X6111	4:4	4		+10-KF809	9		&E01+10/178.2
		5	+102-UC102-X6111	5:5	5		+10-KF809	5		&E01+10/178.2
		6	+102-UC102-X6111	6:6	6		+10-KF809	13		&E01+10/178.2
		7	+102-UC102-X6111	7:7	7		+10-KF809	2		&E01+10/178.3
		8	+102-UC102-X6111	8:8	8		+10-KF809	10		&E01+10/178.3
		9	+102-UC102-X6111	9:9	9		+10-KF809	6		&E01+10/178.4
		10	+102-UC102-X6111	10:10	10		+10-KF809	14		&E01+10/178.4
		11	+102-UC102-X6111	11:11	11		+10-KF809	3		&E01+10/178.5
		12	+102-UC102-X6111	12:12	12		+10-KF809	11		&E01+10/178.5
		13	+102-UC102-X6111	13:13	13		+10-KF809	7		&E01+10/178.5
		14	+102-UC102-X6111	14:14	14		+10-KF809	15		&E01+10/178.6
		15	+102-UC102-X6111	15:15	15					&E01+10/178.6
		16	+102-UC102-X6111	16:16	16					&E01+10/178.7
					PE					

Connector pin assignment

Function indication	Cable marking	Plug +10-XG112 -XG112 control panel signals						+25-WG25.2								Cable marking	
	Cable type	Source		Plug		Target		UNITRONIC FD CP UL/CSA 18x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
No emergency stop, control panel channel 1		+10-KF801	2	1		+25-XD112	1:a	WH								&E01+10/182.3	
No emergency stop, control panel channel 1		+10-KF801	10	2		+25-XD112	2:a	BN								&E01+10/182.3	
No emergency stop, control panel channel 2		+10-KF801	6	3		+25-XD112	3:a	GN								&E01+10/182.4	
No emergency stop, control panel channel 2		+10-KF801	14	4		+25-XD112	4:a	YE								&E01+10/182.4	
Set up channel 1 (MSO2)		+10-KF801	3	5		+25-XD112	5:a	GY								&E01+10/182.5	
Set up channel 1 (MSO2)		+10-KF801	11	6		+25-XD112	6:a	PK								&E01+10/182.5	
Set up channel 2 (MSO2)		+10-KF801	7	7		+25-XD112	7:a	BU								&E01+10/182.6	
Set up channel 2 (MSO2)		+10-KF801	15	8		+25-XD112	8:a	RD								&E01+10/182.6	
Working chamber closed/locked 2 (service door) channel 2		+10-XE2	50	12		+25-XD112	25PE:a	GNYE								&E01+10/182.9	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG113 -XG113 control panel signals						+25-WG25.3	Cable marking	
	Cable type	Source		Plug		Target		UNITRONIC FD CP UL/CSA 18x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
gripper 1 open		+10-XD05	12:b	1		+25-XD113	1.1:a	WH		&E01+10/209.1
		+10-KF861	2	2		+25-XD113	12:a	RDBU		&E01+10/217.2
gripper 1 open		+10-KF827	1	3		+25-XD113	3:a	GN		&E01+10/209.1
gripper 1 close		+10-KF827	2	4		+25-XD113	4:a	YE		&E01+10/209.2
gripper 2 open		+10-KF827	3	5		+25-XD113	5:a	GY		&E01+10/209.3
gripper 2 close		+10-KF827	4	6		+25-XD113	6:a	PK		&E01+10/209.4
swivel loader doors open		+10-KF827	5	7		+25-XD113	7:a	BU		&E01+10/209.5
swivel loader doors close		+10-KF827	6	8		+25-XD113	8:a	RD		&E01+10/209.6
workpiece 1 clamping		+10-KF827	7	9		+25-XD113	9:a	BK		&E01+10/209.7
workpiece 1 disengage		+10-KF827	8	10		+25-XD113	10:a	VT		&E01+10/209.8
		+10-KF861	1	11		+25-XD113	11:a	GYPK		&E01+10/217.1
		+10-XD-	35:b	12		+25-XD113	2.1:a	BN		&E01+10/217.1
		+10-KF861	3	13		+25-XD113	13:a	WHGN		&E01+10/217.3
		+10-KF861	4	14		+25-XD113	14:a	BNGN		&E01+10/217.4
		+10-KF861	5	15		+25-XD113	15:a	WHYE		&E01+10/217.5
		+10-KF861	6	16		+25-XD113	16:a	YEBN		&E01+10/217.6
		+10-KF861	7	17		+25-XD113	17:a	WHGY		&E01+10/217.7
		+10-KF861	8	18		+25-XD113	18:a	GYBN		&E01+10/217.8

Connector pin assignment

Function indication	Cable marking	Plug +10-XG114 -XG114 control panel signals						+25-WG25.4	Cable marking	
	Cable type	Source		Plug		Target		UNITRONIC FD CP UL/CSA 18x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Confirmation channel 1		+10-KF802	1	1		+25-XD112	9:a	WH		&E01+10/183.1
Confirmation channel 1		+10-KF802	9	2		+25-XD112	10:a	BN		&E01+10/183.1
Confirmation channel 2		+10-KF802	5	3		+25-XD112	11:a	GN		&E01+10/183.2
Confirmation channel 2		+10-KF802	13	4		+25-XD112	12:a	YE		&E01+10/183.2
Spare		+10-KF802	2	5		+25-XD112	13:a	GY		&E01+10/183.3
MSO3 special mode, mode of SAVE operation channel 1		+10-KF802	10	6		+25-XD112	14:a	PK		&E01+10/183.3
Spare		+10-KF802	6	7		+25-XD112	15:a	BU		&E01+10/183.4
MSO3 special mode, mode of SAVE operation channel 2		+10-KF802	14	8		+25-XD112	16:a	RD		&E01+10/183.4
Safe traversing direction + channel 1		+10-KF802	3	9		+25-XD112	17:a	BK		&E01+10/183.5
Move + channel 1		+10-KF802	11	10		+25-XD112	18:a	VT		&E01+10/183.5
Move channel 2		+10-XE1	52	12		+25-XD112	26PE:a	GNYE		&E01+10/183.9
Safe traversing direction + channel 2		+10-KF802	7	13		+25-XD112	19:a	GYPK		&E01+10/183.6
Move + channel 2		+10-KF802	15	14		+25-XD112	20:a	RDBU		&E01+10/183.6
Safe traversing direction - channel 1		+10-KF802	4	15		+25-XD112	21:a	WHGN		&E01+10/183.7
Safe traversing direction - channel 1		+10-KF802	12	16		+25-XD112	22:a	BNGN		&E01+10/183.8
Safe traversing direction - channel 2		+10-KF802	8	17		+25-XD112	23:a	WHYE		&E01+10/183.8
Move channel 2		+10-KF802	16	18		+25-XD112	24:a	YEBN		&E01+10/183.9

Connector pin assignment

Function indication	Cable marking	Cable type	Plug +10-XG115 -XG115 control panel signals: Source Equipment	Source Connection	Plug Connection	Plug Bridge	Target Equipment	Target Connection	Cable marking	Cable type	Page / Path
Spare			+10-KF803	1	1						&E01+10/184.1
Two-handed operation on left channel 1			+10-KF803	9	2						&E01+10/184.1
Spare			+10-KF803	5	3						&E01+10/184.2
Two-handed operation on left channel 2			+10-KF803	13	4						&E01+10/184.2
Spare			+10-KF803	2	5						&E01+10/184.3
Two-handed operation on right channel 1			+10-KF803	10	6						&E01+10/184.3
Spare			+10-KF803	6	7						&E01+10/184.4
Two-handed operation on right channel 2			+10-KF803	14	8						&E01+10/184.4
Two-handed operation on right channel 2			+10-XE1	52	12						&E01+10/184.5

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG116 -XG116 grinding wheel step switch					Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection		
No emergency stop, fire extinguishing system channel 1			N.C.	1					&E01+10/185.1
No emergency stop, fire extinguishing system channel 1			N.C.	2					&E01+10/185.1
No emergency stop, fire extinguishing system channel 2			N.C.	3					&E01+10/185.2
No emergency stop, fire extinguishing system channel 2			N.C.	4					&E01+10/185.2
No emergency stop, filter system channel 1			N.C.	5					&E01+10/185.3
No emergency stop, filter system channel 1			N.C.	6					&E01+10/185.3
No emergency stop, filter system channel 2			N.C.	7					&E01+10/185.4
No emergency stop, filter system channel 2			N.C.	8					&E01+10/185.4
Spare		+10-KF804	3	9					&E01+10/185.5
Grinding wheel rotation speed 3 channel 1			N.C.	10					&E01+10/185.5
Grinding wheel rotation speed 4 channel 2		+10-XE1	54	12					&E01+10/185.9
Spare		+10-KF804	7	13					&E01+10/185.6
Grinding wheel rotation speed 3 channel 2			N.C.	14					&E01+10/185.6
Spare		+10-KF804	4	15					&E01+10/185.7
Grinding wheel rotation speed 4 channel 1			N.C.	16					&E01+10/185.8
Spare		+10-KF804	8	17					&E01+10/185.8
Grinding wheel rotation speed 4 channel 2			N.C.	18					&E01+10/185.8
Grinding wheel rotation speed 4 channel 2			N.C.	19					&E01+10/185.9

Connector pin assignment

Function indication	Cable marking								+10-WG300	Plug +10-XG300 -XG300 workpiece clamping device C1 nominal value						+35-WG300.2								Cable marking	
	Cable type								PUR UL/CSA 4x0,34 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Workpiece clamping device C1 axis nominal value									BN	+10-KF850	1B	1		+35-TF300	1	BN								&E01+10/213.2	
Workpiece clamping device C1 axis nominal value									WH	+10-KF850	1	2		+35-TF300	2	WH								&E01+10/213.1	
Workpiece clamping device C1 axis nominal value									BU	+10-KF850	1C	3		+35-TF300	3	BU								&E01+10/213.2	
Workpiece clamping device C1 axis nominal value									BK	+10-KF850	5	4		+35-TF300	4	BK								&E01+10/213.1	
Workpiece clamping device C1 axis nominal value									SH	+10-KF850	SH	SH		+35-TF300										&E01+10/213.3	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG302 -XG302 2.Brake Z axis								+60-WG302	Cable marking	
	Cable type	Source		Plug		Target				PUR4(4) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
2.Z axis brake		+10-KF64	24	1		+60-XG302.1	1	BN			&E01+10/106.2	
2.Z axis brake		+10-KF64	24	2		+60-XG302.1	2	WH			&E01+10/106.2	
2.Z axis brake		+10-XD302	2:a	3		+60-XG302.1	3	BU			&E01+10/106.3	
2.Z axis brake		+10-XD302	3:a	4		+60-XG302.1	4	BK			&E01+10/106.3	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG600 -XG600 Head dresser in basic position								+50-WG600	Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Head dressing at base position		+10-XD04	9:c	1		+90-XG600.1	1	BN			&E01+10/208.7	
Head dressing at base position		+10-XD-	31:b	3		+90-XG600.1	3	BU			&E01+10/208.7	
Head dressing at base position		+10-KF826	15	4		+90-XG600.1	4	BK			&E01+10/208.7	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG601 -XG601 Head dresser in working position								+50-WG601	Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Head dressing at operating position		+10-XD04	10:a	1		+90-XG601.1	1	BN			&E01+10/208.8	
Head dressing at operating position		+10-XD-	31:c	3		+90-XG601.1	3	BU			&E01+10/208.8	
Head dressing at operating position		+10-KF826	16	4		+90-XG601.1	4	BK			&E01+10/208.8	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG602 -XG602 valve Head dresser to working position								+35-WG602	Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
release Head dresser to working position		+10-KF819	9	3		+35-KK602	2	BU			&E01+10/191.2	
release Head dresser to working position		+10-KF819	1	4		+35-KK602	1	BK			&E01+10/191.1	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG812.2 -XG812.2 release pneumatic movements						+35-WG812.2	Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Release pneumatic movements		+10-KF810	11	3		+35-KK812.2	2	BU	&E01+10/188.6	
Release pneumatic movements		+10-KF810	3	4		+35-KK812.2	1	BK	&E01+10/188.5	

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Plug +10-XG813.1 -XG813.1 unclamping A axis valve 1								+35-WG813.1								Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection												
Unclamping A axis valve 1		+10-XD813.1	3:b	3		+35-KK813.1	2	2										&E01+10/95.4	
Unclamping A axis valve 1		+10-XD813.1	1:b	4		+35-KK813.1	1	1										&E01+10/95.3	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG813.2 -XG813.2 unclamping A axis valve 2								+35-WG813.2								Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection												
Unclamping A axis valve 2		+10-XD813.1	4:b	3		+35-KK813.2	2	2										&E01+10/95.7	
Unclamping A axis valve 2		+10-XD813.1	2:b	4		+35-KK813.2	1	1										&E01+10/95.6	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG813.2 -XG813.2 unclamping A axis valve 2	433021	& E07
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Connector pin assignment

Function indication	Cable marking	Plug +10-XG814 -XG814 release undo tool clamping device								+35-WG814	Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Release undo tool clamping device		+10-KF810	12	3		+35-KK814.1	2	BU			&E01+10/188.8	
Release undo tool clamping device		+10-KF810	4	4		+35-KK814.1	1	BK			&E01+10/188.7	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG900 -XG900 24VDC valve terminal								+35-WG900	Cable marking	
	Cable type	Source		Plug		Target				PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
		+10-XD-	19:c	1		+35-KF900	X1:1	BK			&E01+10/162.3	
		+10-XD-	20:a	2		+35-KF900	X1:2	BU			&E01+10/162.3	
		+10-XE1	48	3		+35-KF900	X1:3	GNYE			&E01+10/162.3	
		+10-XD15	2:a	4		+35-KF900	X1:4	BN			&E01+10/162.3	
		+10-KF55.2	23	5		+35-KF900	X1:5	WH			&E01+10/162.3	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG902.3 -XG902.3 sealing air shut-off					+35-WG902.3	Cable marking	Page / Path
	Cable type	Source		Plug		Target		Cable type	
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4 4x0,34 mm²	
				1					
				2					
24VDC supply before main breaker		+10-XD24	5:a	3		+35-KK902.3	3	BU	&E01+10/50.5
						+10-XD35.2			
24VDC supply before main breaker		+10-KT902.3	15	4		+35-KK902.3	4		&E01+10/50.5
				5					
				6					
				PE					

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			edited by	Kusc_Nil					+
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Connector pin assignment

Function indication	Cable marking	Plug +10-XG905.1 -XG905.1 valve gripper 1						+35-WG905.1	Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-KF811	9	3		+35-KH905.1	3	BU	&E01+10/189.2	
		+10-KF811	1	4		+35-KH905.1	4	BK	&E01+10/189.1	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG905.2 -XG905.2 valve gripper 1						+35-WG905.2	Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-KF811	10	3		+35-KH905.2	3	BU	&E01+10/189.4	
		+10-KF811	2	4		+35-KH905.2	4	BK	&E01+10/189.3	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG905.2 -XG905.2 valve gripper 1	433021	& E07
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Connector pin assignment

Function indication	Cable marking	Plug +10-XG906.1 -XG906.1 valve gripper 2						+35-WG906.1	Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-KF811	11	3		+35-KH906.1	3	BU	&E01+10/189.6	
		+10-KF811	3	4		+35-KH906.1	4	BK	&E01+10/189.5	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG906.2 -XG906.2 valve gripper 2						+35-WG906.2								Cable marking	
	Cable type	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
		+10-KF811	12	3		+35-KH906.2	3	BU								&E01+10/189.8	
		+10-KF811	4	4		+35-KH906.2	4	BK								&E01+10/189.7	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG911 -XG911 24VDC IO link master hydraulics								+35-WG911	Cable marking	
	Cable type	Source		Plug		Target				PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
		+10-XD-	17:b	1		+35-XF910	IN1:0V			BK	&E01+10/146.1	
		+10-XD-	17:c	2		+35-XF910	IN2:0V			BU	&E01+10/146.1	
		+10-XE0	67	3		+35-XF910	INFE:FE			GNYE	&E01+10/146.1	
		+10-XD17	2:a	4		+35-XF910	IN4:+24V			BN	&E01+10/146.1	
		+10-XD17	2:b	5		+35-XF910	IN5:+24V			WH	&E01+10/146.2	

Connector pin assignment

Function indication	Cable marking	Plug +10-XG912 -XG912 24VDC IO link master hydraulics						+35-WG912	Cable marking	
	Cable type	Source		Plug		Target		PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-XG911	1	1		+35-XF910	IN1:0V	BK		&E01+10/146.2
		+10-XG911	2	2		+35-XF910	IN2:0V	BU		&E01+10/146.2
		+10-XE0	67	3		+35-XF910	INFE:FE	GNYE		&E01+10/146.3
		+10-XG911	4	4		+35-XF910	IN4:+24V	BN		&E01+10/146.3
		+10-XG911	5	5		+35-XF910	IN5:+24V	WH		&E01+10/146.3

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG912 -XG912 24VDC IO link master hydraulics	433021	& E07
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Connector pin assignment

Function indication	Cable marking	+10-WG920	Plug +10-XG920 -XG920 gap finding sensor C1 axis						+48-WG920.1	Cable marking	
	Cable type	4x0,34 mm²	Source		Plug		Target		PUR(C) 4x0,34 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
Detection of gear gap C1 sensor at Z3		BN	+10-XD05	7:a	1		+48-XG920.1	1	BN		&E01+10/130.2
Detection of gear gap C1 sensor at Z3		WH		N.C.	2		+48-XG920.1	2	WH		&E01+10/130.1
Detection of gear gap C1 sensor at Z3		BU	+10-XD-	13:a	3		+48-XG920.1	3	BU		&E01+10/130.1
Detection of gear gap C1 sensor at Z3		BK	+10-KF20.2	11	4		+48-XG920.1	4	BK		&E01+10/130.1
Detection of gear gap C1 sensor at Z3		SH	+10-XE1	36	SH		+48-XG920.1	SH	SH		&E01+10/130.2

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +10-XG920 -XG920 gap finding sensor C1 axis	433021	& E07
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Connector pin assignment

Function indication	Cable marking	+10-WG920.32	Plug +10-XG920.32 -XG920.32 tool clamping fixture position actual value						Cable marking	
	Cable type	4x0,34 mm²	Source		Plug		Target		Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
tool clamping fixture position actual value		SH	PE		PE					&E01+10/211.6
B-AXIS bearing temperature control		BN	+10-KF840	3B						&E01+10/211.5
tool clamping fixture position actual value		BK	+10-KF840	2						&E01+10/211.6
tool clamping fixture position actual value		BU	+10-KF840	4C						&E01+10/211.6
tool clamping fixture position actual value		WH		N.C.						&E01+10/211.6

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG921 -XG921 24VDC IO link master machine								+10-WG921	Cable marking	
	Cable type	Source		Plug		Target				PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
		+10-XD-	16:a	1		+10-XG921A	1	BK			&E01+10/136.1	
		+10-XD-	16:b	2		+10-XG921A	2	BU			&E01+10/136.1	
		+10-XE0	67	3		+10-XG921A	3	GNYE			&E01+10/136.1	
		+10-XD18	1:b	4		+10-XG921A	4	BN			&E01+10/136.1	
		+10-XD18	2:a	5		+10-XG921A	5	WH			&E01+10/136.2	

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Connector pin assignment

Function indication	Cable marking	+10-WG921	Plug +10-XG921A						+10-WG921A	Cable marking	
	Cable type	PUR5 5x1,5 mm²	Source		Plug		Target		PUR5 5x1,5 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
		BK	+10-XG921	1	1		+10-XF920	2:GND (UA)	BK		&E01+10/136.1
		BU	+10-XG921	2	2		+10-XF920	3:GND (US)	BU		&E01+10/136.1
		GNYE	+10-XG921	3	3		+10-XF920	5:FE	PK		&E01+10/136.1
		BN	+10-XG921	4	4		+10-XF920	1:24V (US)	BN		&E01+10/136.1
		WH	+10-XG921	5	5		+10-XF920	4:24V (UA)	WH		&E01+10/136.2

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG922 -XG922 24VDC IO link master machine						+10-WG922	Cable marking	
	Cable type	Source		Plug		Target		PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
		+10-XG921	1	1		+10-XG922A	1	BK		&E01+10/136.6
		+10-XG921	2	2		+10-XG922A	2	BU		&E01+10/136.6
		+10-XE0	67	3		+10-XG922A	3	GNYE		&E01+10/136.6
		+10-XG921	4	4		+10-XG922A	4	BN		&E01+10/136.6
		+10-XG921	5	5		+10-XG922A	5	WH		&E01+10/136.6

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Connector pin assignment

Function indication	Cable marking	+10-WG922	Plug +10-XG922A						+10-WG922A	Cable marking
	Cable type	PUR5 5x1,5 mm²	Source		Plug		Target		PUR5 5x1,5 mm²	Cable type / Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
		BK	+10-XG922	1	1		+10-XF920A	2:GND (UA)	BK	&E01+10/136.6
		BU	+10-XG922	2	2		+10-XF920A	3:GND (US)	BU	&E01+10/136.6
		GNYE	+10-XG922	3	3		+10-XF920A	5:FE	PK	&E01+10/136.6
		BN	+10-XG922	4	4		+10-XF920A	1:24V (US)	BN	&E01+10/136.6
		WH	+10-XG922	5	5		+10-XF920A	4:24V (UA)	WH	&E01+10/136.6

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Connector pin assignment

Function indication	Cable marking								+10-WG930	Plug +10-XG930 -XG930 gap finding sensor C2 axis						+49-WG930.1								Cable marking	
	Cable type								4x0,34 mm²	Source		Plug		Target		PUR(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Detection of gear gap C1 sensor at Z4									BN	+10-XD05	7:b	1		+49-XG930.1	1	BN								&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									WH		N.C.	2		+49-XG930.1	2	WH								&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BU	+10-XD-	13:b	3		+49-XG930.1	3	BU								&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BK	+10-KF22.2	11	4		+49-XG930.1	4	BK								&E01+10/130.5	
Detection of gear gap C1 sensor at Z4									SH	+10-XE1	36	SH		+49-XG930.1	SH	SH								&E01+10/130.6	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG931 -XG931 24VDC IO link master cooling								+35-WG931	Cable marking	
	Cable type	Source		Plug		Target				PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
		+10-XD-	16:c	1		+35-XF930	IN1:0V			BK	&E01+10/141.1	
		+10-XD-	17	2		+35-XF930	IN2:0V			BU	&E01+10/141.1	
		+10-XE0	67	3		+35-XF930	INFE:FE			GNYE	&E01+10/141.1	
		+10-XD18	3:a	4		+35-XF930	IN4:+24V			BN	&E01+10/141.1	
		+10-XD18	3:b	5		+35-XF930	IN5:+24V			WH	&E01+10/141.2	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG932 -XG932 24VDC IO link master cooling								+35-WG932	Cable marking	
	Cable type	Source		Plug		Target				PUR5 5x1,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
		+10-XG931	1	1		+35-XF930	IN1:0V			BK	&E01+10/141.2	
		+10-XG931	2	2		+35-XF930	IN2:0V			BU	&E01+10/141.2	
		+10-XE0	67	3		+35-XF930	INFE:FE			GNYE	&E01+10/141.3	
		+10-XG931	4	4		+35-XF930	IN4:+24V			BN	&E01+10/141.3	
		+10-XG931	5	5		+35-XF930	IN5:+24V			WH	&E01+10/141.3	

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Connector pin assignment

Function indication	Cable marking	Plug +10-XG940 -XG940 level leakage oil collector pan								+50-WG940	Cable marking	
	Cable type	Source		Plug		Target				PUR(C) 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
Level leakage oil collector pan no max alarm		+10-XD04	9:b	1		+50-BL940	1	BN			&E01+10/208.1	
Level leakage oil collector pan no max alarm		+10-KF826	9	2		+50-BL940	2	WH			&E01+10/208.1	
Level leakage oil collector pan no max alarm		+10-XD-	31	3		+50-BL940	3	BU			&E01+10/208.1	

Connector pin assignment

Function indication	Cable marking	+35-WD36	Plug +35-XD36.1 +35-XD36.1 motor hydraulics						Cable marking	Page / Path
	Cable type	PURN 4x1,5 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Hydraulics, motor		1	+10-XD36	1	1		+35-GP36	U1		&E01+10/72.2
Hydraulics, motor		2	+10-XD36	2	2		+35-GP36	V1		&E01+10/72.2
Hydraulics, motor		3	+10-XD36	3	3		+35-GP36	W1		&E01+10/72.2
					4					
					5					
Hydraulics, motor			+35-XD36.1	7	6		+35-GP36	W2		&E01+10/72.3
Hydraulics, motor			+35-XD36.1	8	7		+35-GP36	U2		&E01+10/72.3
Hydraulics, motor			+35-XD36.1	7	8		+35-GP36	V2		&E01+10/72.3
					9					
					10					
Hydraulics, motor		GNYE	+10-XD36	PE	PE		+35-GP36	PE		&E01+10/72.2

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X1						+35-WG910.2								Cable marking	
	Cable type	Source		Plug		Target		PUR4 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
				4		+35-XG910.2		BK								&E01+10/147.4	
				2		+35-XG910.2		WH								&E01+10/147.4	
				3		+35-XG910.2		BU								&E01+10/147.4	
				1		+35-XG910.2		BN								&E01+10/147.5	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X2								+35-WG910.3								Cable marking	
	Cable type	Source		Plug		Target				PUR4 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection												
				4		+35-XG910.2				BK								&E01+10/147.6	
				2		+35-XG910.2				WH								&E01+10/147.6	
				3		+35-XG910.2				BU								&E01+10/147.6	
				1		+35-XG910.2				BN								&E01+10/147.6	

Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X3								+35-WG910.4								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4 4x0,34 mm²											
				4		+35-BP910.4	4	BK										&E01+10/147.8	
				2		+35-BP910.4	2	WH										&E01+10/147.8	
				3		+35-BP910.4	3(-)	BU										&E01+10/147.8	
				1		+35-BP910.4	1(+)	BN										&E01+10/147.9	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X6								+35-WG910.7								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4 4x0,34 mm²											
Valve, pressure build-up, open hydraulic pressure accumulator				4		+35-KK910.7	1	BK										&E01+10/148.5	
Valve, pressure build-up, open hydraulic pressure accumulator				3		+35-KK910.7	2	BU										&E01+10/148.5	

Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X7						+35-WG910.8	Cable marking	
	Cable type	Source		Plug		Target		PUR4 4x0,34 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
Valve, pressure relief, open hydraulic pressure accumulator				4		+35-KK910.8	1	BK	&E01+10/148.6	
Valve, pressure relief, open hydraulic pressure accumulator				3		+35-KK910.8	2	BU	&E01+10/148.7	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X8								+35-WG910.9	+35-WG910.91							Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			PUR3 3x0,34 mm²	PUR3 3x0,34 mm²								
				4		+35-KK910.9	1			BK								&E01+10/149.2	
				3		+35-KK910.9	2			BU								&E01+10/149.2	
						+35-KK910.91					BU								
				1														&E01+10/149.2	
				2		+35-KK910.91	1				BK							&E01+10/149.3	

Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X9								+35-WG910.10								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			PUR3 3x0,34 mm²									
				4		+35-KK910.10	1	BK										&E01+10/149.4	
				3		+35-KK910.10	2	BU										&E01+10/149.4	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X10								+35-WG910.11	+35-WG602.1	Cable marking
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²	PUR4(C) 4x0,34 mm²	Cable type / Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection					
				2		+35-BG910.11		WH				&E01+10/149.5
				4		+35-BG910.11		BK				&E01+10/149.6
				3		+35-BG910.11		BU				&E01+10/149.6
				1		+35-BG910.11		BN				&E01+10/149.6
Measuring bracket backwards				3		+35-BG602.1			BU			&E01+10/150.8
Measuring bracket backwards				1		+35-BG602.1			BN			&E01+10/150.8

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X11								+35-WG910.12								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			PUR3 3x0,34 mm²									
Loosen measuring bracket				4		+35-KK910.12	1	BK										&E01+10/149.7	
Loosen measuring bracket				3		+35-KK910.12	2	BU										&E01+10/149.8	
Loosen measuring bracket				1														&E01+10/149.8	
Loosen measuring bracket				2														&E01+10/149.8	

Connector pin assignment

Function indication	Cable marking									Plug +35-XF910-X12						+35-WG910.13	+35-WG910.131							Cable marking	
	Cable type									Source		Plug		Target		PUR3 3x0,34 mm²	PUR3 3x0,34 mm²							Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Measuring bracket forwards												4		+35-KK910.13	1	BK								&E01+10/150.2	
Measuring bracket forwards												3		+35-KK910.13	2	BU								&E01+10/150.2	
														+35-KK910.131			BU								
Measuring bracket forwards												1												&E01+10/150.2	
Measuring bracket backwards												2		+35-KK910.131	1		BK							&E01+10/150.3	

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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +35-XF910-X14 Source Equipment	Source Connection	Plug Connection	Plug Bridge	Target Equipment	Target Connection	Cable marking	Cable type	Page / Path
Measuring bracket backwards					4		+35-KK603	1			&E01+10/150.6
Measuring bracket backwards					3		+35-KK603	2			&E01+10/150.6

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF910-X15								+35-WG602.1								Cable marking	
	Cable type	Source		Plug		Target				PUR4(C) 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection												
Measuring bracket backwards				2		+35-BG602.1				WH								&E01+10/150.7	
Measuring bracket backwards				4		+35-BG602.1				BK								&E01+10/150.7	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF930-X9						+35-WG930.10								Cable marking	
	Cable type	Source		Plug		Target		PUR4 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
				4		+35-KK930.10	1	BK								&E01+10/144.4	
				3		+35-KK930.10	2	BU								&E01+10/144.4	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF930-X10								+35-WG930.11								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			PUR4 4x0,34 mm²									
Bed rinsing 150l/min 20bar				4		+35-KK930.11	1	BK										&E01+10/144.5	
Bed rinsing 150l/min 20bar				3		+35-KK930.11	2	BU										&E01+10/144.5	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF930-X11						+35-WG930.12								Cable marking	
	Cable type	Source		Plug		Target		PUR4 4x0,34 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection										
Bed rinsing 50l/min 6bar				4		+35-KK930.12	1	BK								&E01+10/144.7	
Bed rinsing 50l/min 6bar				3		+35-KK930.12	2	BU								&E01+10/144.7	

Connector pin assignment

Function indication	Cable marking	Plug +35-XF930-X12								+35-WG930.13								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4 4x0,34 mm²											
				4		+35-KK930.13	1	BK										&E01+10/145.2	
				3		+35-KK930.13	2	BU										&E01+10/145.2	

Connector pin assignment

Function indication	Cable marking									Plug +35-XF930-X13						+35-WG930.14								Cable marking	
	Cable type									Source		Plug		Target		PUR4 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
												4		+35-KK930.14	1	BK								&E01+10/145.4	
												3		+35-KK930.14	2	BU								&E01+10/145.4	

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Connector pin assignment

Function indication	Cable marking	Plug +35-XF930-X14								+35-WG930.15								Cable marking	
	Cable type	Source		Plug		Target												Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PUR4 4x0,34 mm²											
				4		+35-KK930.15	1	BK										&E01+10/145.5	
				3		+35-KK930.15	2	BU										&E01+10/145.5	

Connector pin assignment

Function indication	Cable marking	Cable type	Plug +35-XF930-X15 Source Equipment	Source Connection	Plug Connection	Plug Bridge	Target Equipment	Target Connection	Cable marking	Cable type	Page / Path
					4						&E01+10/145.7
					3						&E01+10/145.7

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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +40-EC40-XS40 +40-EC40-XS40 cooling unit						Cable marking	Cable type	Page / Path
			Source		Plug		Target				
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
					1						
					2						
					3						
					4						
					5						
					6						
					PE						

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Connector pin assignment

Function indication	Cable marking								+48-WG920.1	Plug +48-XG920.1						PUR4(C) AL-WWAKS4-3-AL-WASS4/S320 4x0,34 mm²	Cable marking	Page / Path
	Cable type								PUR(C) 4x0,34 mm²	Source		Plug		Target			Cable type	
										Equipment	Connection	Connection	Bridge	Equipment	Connection			
Detection of gear gap C1 sensor at Z3									BN	+10-XG920	1	1		+48-XG920.2	1	BN		&E01+10/130.2
Detection of gear gap C1 sensor at Z3									WH	+10-XG920	2	2		+48-XG920.2	2	WH		&E01+10/130.1
Detection of gear gap C1 sensor at Z3									BU	+10-XG920	3	3		+48-XG920.2	3	BU		&E01+10/130.1
Detection of gear gap C1 sensor at Z3									BK	+10-XG920	4	4		+48-XG920.2	4	BK		&E01+10/130.1
Detection of gear gap C1 sensor at Z3									SH	+10-XG920	SH	SH		+48-XG920.2	SH	SH		&E01+10/130.2

Connector pin assignment

Function indication	Cable marking								PUR4(C) AL-WWAKS4-3-AL-WASS4/S300WG920.2 4x0,34 mm²	Plug +48-XG920.2 +48-XG920.2 Gap finding sensor Z3-axis						+48-WG920.3								Cable marking	
	Cable type									Source		Plug		Target		PUR3 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Detection of gear gap C1 sensor at Z3									BN	+48-XG920.1	1	1		+48-BG920		BN								&E01+10/130.2	
Detection of gear gap C1 sensor at Z3									WH	+48-XG920.1	2	2												&E01+10/130.1	
Detection of gear gap C1 sensor at Z3									BU	+48-XG920.1	3	3		+48-BG920		BU								&E01+10/130.1	
Detection of gear gap C1 sensor at Z3									BK	+48-XG920.1	4	4		+48-BG920		BK								&E01+10/130.1	
												SH													
Detection of gear gap C1 sensor at Z3									SH	+48-XG920.1	SH	SH												&E01+10/130.2	

Connector pin assignment

Function indication	Cable marking								+49-WG930.1	Plug +49-XG930.1						+49-WG930.2									Cable marking	
	Cable type								PUR(C) 4x0,34 mm²	Source		Plug		Target		PUR4(C) AL-WWAKS4-3-AL-WASS4/S300 4x0,34 mm²									Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection											
Detection of gear gap C1 sensor at Z4									BN	+10-XG930	1	1		+49-XG930.2	1	BN									&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									WH	+10-XG930	2	2		+49-XG930.2	2	WH									&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BU	+10-XG930	3	3		+49-XG930.2	3	BU									&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BK	+10-XG930	4	4		+49-XG930.2	4	BK									&E01+10/130.5	
Detection of gear gap C1 sensor at Z4									SH	+10-XG930	SH	SH		+49-XG930.2	SH	SH									&E01+10/130.6	

Connector pin assignment

Function indication	Cable marking								+49-WG930.2	Plug +49-XG930.2 +49-XG930.2 Gap finding sensor Z4-axis						+49-WG930.3								Cable marking	
	Cable type								PUR4(C) AL-WWAKS4-3-AL-WASS4/S300 4x0,34 mm²	Source		Plug		Target		PUR3 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Detection of gear gap C1 sensor at Z4									BN	+49-XG930.1	1	1		+49-BG930		BN								&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									WH	+49-XG930.1	2	2												&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BU	+49-XG930.1	3	3		+49-BG930		BU								&E01+10/130.5	
Detection of gear gap C1 sensor at Z3									BK	+49-XG930.1	4	4		+49-BG930		BK								&E01+10/130.5	
												SH													
Detection of gear gap C1 sensor at Z4									SH	+49-XG930.1	SH	SH												&E01+10/130.6	

Connector pin assignment

Function indication	Cable marking								+50-WG31.1	Plug +50-XG2 Coolant lubricant cleaning unit, reference temperature for machine bed						+50-WG31.2								Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target		PT100								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Machine bed reference temperature										+82-XG-BT0	1	1		+50-BT31	2	GN								&E01+10/66.1	
Machine bed reference temperature										+82-XG-BT0	2	2		+50-BT31	1	WH								&E01+10/66.1	
Machine bed reference temperature										+82-XG-BT0	3	3		+50-BT31	2	BN								&E01+10/66.1	
												4													
shield										+82-XG-BT0	5(A-Z)	5(A-Z)		+50-BT31	PE									&E01+10/66.2	
														+50-WG31.2		SH									

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Connector pin assignment

Function indication	Cable marking									Plug +55-XG8.1						+55-WG8.2								Cable marking	
	Cable type								PUR4(C) AL-WAKS4-03-AL-WAKS4/5/3/8-WG8.1 4x0,34 mm²	Source		Plug		Target		4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
C-AXIS bearing temperature control										+10-XG8	PE	PE		+55-BT8		SH								&E01+10/212.3	
C-AXIS bearing temperature control									BN	+10-XG8				+55-BT8	POWER	WH								&E01+10/212.2	
C-AXIS bearing temperature control									BU	+10-XG8				+55-BT8		GN								&E01+10/212.2	
C-AXIS bearing temperature control									BK	+10-XG8				+55-BT8	GND	BN								&E01+10/212.2	
C-AXIS bearing temperature control									WH	+10-XG8				+55-BT8		YE								&E01+10/212.2	

Connector pin assignment

Function indication	Cable marking	+60-WG302	Plug +60-XG302.1 external brake Z-axis						Cable marking	Page / Path
	Cable type	PUR4(4) 4x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
2.Z axis brake		BN	+10-XG302	1	1		+60-QL302	1		&E01+10/106.2
							+60-XG302.1			
2.Z axis brake		WH	+10-XG302	2	2		+60-XG302.1	1		&E01+10/106.2
2.Z axis brake		BU	+10-XG302	3	3		+60-XG302.1	4		&E01+10/106.3
2.Z axis brake		BK	+10-XG302	4	4		+60-QL302	2		&E01+10/106.3
							+60-XG302.1			

Connector pin assignment

Function indication	Cable marking								+68-WG922.7	Plug +65-XG922.7													Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target									Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection									
Position of cooling lubricant adjustment at front									BK	+68-XF922	X6:4	4		+65-BG922.7									&E01+10/154.6	
Position of cooling lubricant adjustment at front									BU	+68-XF922	X6:3	3		+65-BG922.7									&E01+10/154.6	
Position of cooling lubricant adjustment at front									BN	+68-XF922	X6:1	1		+65-BG922.7									&E01+10/154.6	

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Connector pin assignment

Function indication	Cable marking								+68-WG922.8	Plug +65-XG922.8													Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target									Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection									
Position of cooling lubricant adjustment at rear									BK	+68-XF922	X7:4	4		+65-BG922.8									&E01+10/154.7	
Position of cooling lubricant adjustment at rear									BU	+68-XF922	X7:3	3		+65-BG922.8									&E01+10/154.8	
Position of cooling lubricant adjustment at rear									BN	+68-XF922	X7:1	1		+65-BG922.8									&E01+10/154.8	

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Connector pin assignment

Function indication	Cable marking								+67-WD500	Plug +67-XD500 -XD500 B-Achse Leistung Motor												Cable marking	
	Cable type								4x 10 C 6FX8002-5CS64-1BA0 4x10 mm²	Source		Plug		Target								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection								
B axis, motor									GNYE	+10-AA500	PE2	PE		+67-MA500	PE							&E01+10/98.2	
B axis, motor									SH	+10-AA500	SH3	SH										&E01+10/98.1	
B axis, motor									U	+10-AA500	U4	U		+67-MA500	U1							&E01+10/98.1	
B axis, motor									V	+10-AA500	V4	V		+67-MA500	W1							&E01+10/98.2	
B axis, motor									W	+10-AA500	W4	W		+67-MA500	V1							&E01+10/98.2	

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Connector pin assignment

Function indication	Cable marking								+67-WG11.1	Plug +67-XG11.1						+67-WG11.2								Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target		PUR3 3x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
position acceptance grinding wheel									BN	+10-XG11		1		+67-BG11		BN								&E01+10/129.2	
position acceptance grinding wheel									BK	+10-XG11				+67-BG11		BK								&E01+10/129.1	
position acceptance grinding wheel									WH	+10-XG11														&E01+10/129.1	
position acceptance grinding wheel									BU	+10-XG11				+67-BG11		BU								&E01+10/129.2	

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Connector pin assignment

Function indication	Cable marking	Plug +67-XG500 -XG500 B-Achse Temperatur Motor						+67-WG500	Cable marking	
	Cable type	Source		Plug		Target		PUR(C) 7x0,5 mm²	Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection			
B axis, motor		+67-MA500	1R2	1		+10-TF501	X521:1	WH	&E01+10/98.3	

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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +67-XG501.1 -XG501.1 B-Achse Messystem 1 Abtastopf 1						Cable marking	Cable type	Page / Path
			Source		Plug		Target				
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
B-Achse Messsystem 1							+67-BG501	1			&E01+10/98.7

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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +67-XG501.2 -XG501.2 B-Achse Messystem 1 Abtastkopf 2						Cable marking	Cable type	Page / Path
			Source		Plug		Target				
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
B-Achse Messsystem 1							+67-BG501	1			&E01+10/98.7

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Connector pin assignment

Function indication	Cable marking	+75-WD75.1	Plug +75-XD75.2						Cable marking	Page / Path
	Cable type	PUR UL/CSA 7x1,5 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Slewing crane		1	+10-XD75.1	1	1		+75-GM75	L1		&E01+10/68.2
Slewing crane		2	+10-XD75.1	2	2		+75-GM75	L2		&E01+10/68.2
Slewing crane		3	+10-XD75.1	3	3		+75-GM75	L3		&E01+10/68.2
(Option)		4	+10-XD75.1	4	4		+75-BG75	26		&E01+10/205.5
Slewing crane in parking position		5	+10-XD75.1	5	5		+75-BG75	24		&E01+10/205.5
Slewing crane in parking position		6	+10-XD75.1	6	6		+75-BG75	28		&E01+10/205.5
Slewing crane		GNYE	+10-XD75.1	PE	GND		+75-GM75	GND		&E01+10/68.2

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Connector pin assignment

Function indication	Cable marking								+82-WG31	Plug +82-XG-BT0 Coolant lubricant cleaning unit, reference temperature for machine bed						+50-WG31.1								Cable marking	
	Cable type								3x0,25 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Machine bed reference temperature									GN	+82-HQ82-1XL29	1	1		+50-XG2	1									&E01+10/66.1	
Machine bed reference temperature									WH	+82-HQ82-1XL29	2	2		+50-XG2	2									&E01+10/66.1	
Machine bed reference temperature									BN	+82-HQ82-1XL29	3	3		+50-XG2	3									&E01+10/66.1	
												4													
shield										+82-HQ82-1XL29	PE	5(A-Z)		+50-XG2	5(A-Z)									&E01+10/66.2	

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Connector pin assignment

Function indication	Cable marking	Plug +82-XG100 +82-XG100 filter system interface					+82-WG82	Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	PURN 25x1 mm²	
24VDC from machine		+82-HQ82-1XL2		1		+10-XG82	1	1	&E01+10/66.2
0VDC from machine		+82-HQ82-1XL2		2		+10-XG82	2	2	&E01+10/66.3
Channel 1		+82-HQ82-1XL2		3		+10-XG82	3	3	&E01+10/66.3
Emergency stop of filter system channel 1		+82-HQ82-1XL2		4		+10-XG82	4	4	&E01+10/66.3
Channel 2		+82-HQ82-1XL2		5		+10-XG82	5	5	&E01+10/66.4
Emergency stop of filter system channel 2		+82-HQ82-1XL2		6		+10-XG82	6	6	&E01+10/66.4
Emergency stop of filter system channel 2		+82-HQ82-1XL2		7		+10-XG82	7	7	&E01+10/66.4
Emergency stop of filter system channel 2		+82-HQ82-1XL2		8		+10-XG82	8	8	&E01+10/66.4
Emergency stop of filter system channel 2		+82-HQ82-1XL2		9		+10-XG82	9	9	&E01+10/66.5
Emergency stop of filter system channel 2		+82-HQ82-1XL2		10		+10-XG82	10	10	&E01+10/66.5
Emergency stop of filter system channel 2		+82-HQ82-1XL2		11		+10-XG82	11	11	&E01+10/66.5
Emergency stop machine channel 1		+82-HQ82-1XL2		12		+10-XG82	12	12	&E01+10/66.6
Emergency stop machine channel 1		+82-HQ82-1XL2		13		+10-XG82	13	13	&E01+10/66.6
Emergency stop machine channel 2		+82-HQ82-1XL2		14		+10-XG82	14	14	&E01+10/66.6
24VDC from filter system		+82-HQ82-1XL2		15		+10-XG82	15	15	&E01+10/66.7
0VDC from filter system		+82-HQ82-1XL2		16		+10-XG82	16	16	&E01+10/66.7
0VDC from filter system		+82-HQ82-1XL2		17		+10-XG82	17	17	&E01+10/66.7
0VDC from filter system		+82-HQ82-1XL2		18		+10-XG82	18	18	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		19		+10-XG82	19	19	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		20		+10-XG82	20	20	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		21		+10-XG82	21	21	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		22		+10-XG82	22	22	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		23		+10-XG82	23	23	&E01+10/66.8
0VDC from filter system		+82-HQ82-1XL2		24		+10-XG82	24	24	&E01+10/66.9
				PE					
0VDC from filter system		+82-HQ82-1XL2		PE		+10-XG82	PE	GNYE	&E01+10/66.9

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Connector pin assignment

Function indication	Cable marking	+83-WD83	Plug +83-HR83-X2 +83-HR83-X2 oil mist collector performance						Cable marking	
	Cable type	PURN 4x1,5 mm²	Source		Plug		Target		Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Oil mist collector		1	+10-XD83	1	1					&E01+10/76.1
Oil mist collector		2	+10-XD83	2	2					&E01+10/76.1
Oil mist collector		3	+10-XD83	3	3					&E01+10/76.2
					4					
					5					
					6					
Oil mist collector		GNYE	+10-XD83	PE	PE					&E01+10/76.2

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Connector pin assignment

Function indication	Cable marking								+83-WG83	Plug +83-HR83-X3 +83-HR83-X3 oil mist collector signals														Cable marking	
	Cable type								PUR N 7X 1,0 7x1 mm²	Source		Plug		Target										Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Oil mist collector									1	+10-XG83	1	1												&E01+10/76.4	
Oil mist collector									2	+10-XG83	2	2												&E01+10/76.4	
Oil mist collector									3	+10-XG83	3	3												&E01+10/76.4	
Oil mist collector									4	+10-XG83	4	4												&E01+10/76.5	
Oil mist collector									5	+10-XG83	5	5												&E01+10/76.5	
Oil mist collector									6	+10-XG83	6	6												&E01+10/76.5	
Oil mist collector									GNYE	+10-XG83	PE	PE												&E01+10/76.6	

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Connector pin assignment

Function indication	Cable marking	+88-WD88.2	Plug +88-MA88-XD1						Cable marking	Page / Path
	Cable type	PUR(C) 4x1,5 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Return oil pump		1	+10-XD88	1	1					&E01+10/74.1
Return oil pump		2	+10-XD88	2	2					&E01+10/74.1
Return oil pump		3	+10-XD88	3	3					&E01+10/74.2
Return oil pump			+88-MA88-XD1	7	6					&E01+10/74.2
Return oil pump			+88-MA88-XD1	6	7					&E01+10/74.2
Return oil pump			+88-MA88-XD1	7	8					&E01+10/74.3
Return oil pump		GNYE	+10-XD88	GND	PE					&E01+10/74.2

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Connector pin assignment

Function indication	Cable marking	Cable type	Plug +88-MA88-XD1:1 +88-MA88-XD1:1 return oil pump						Cable marking	Cable type	Page / Path
			Source		Plug		Target				
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
					1						
					2						
					3						
					4						
					5						
					6						
					7						
					8						
					9						
					10						
					PE						

Connector pin assignment

Function indication	Cable marking								+90-WD520	Plug +90-XD520						+90-WD520.1								Cable marking	
	Cable type								4XZ,5 C 6FX8002-5CS16-1AG0 4+2x2,5 +1,5 mm²	Source		Plug		Target										Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection											
B2 axis, motor										+10-KF520	U2	1		+90-MA520	U1	OG									&E01+10/108.2
B2 axis, motor										+10-KF520	V2	2		+90-MA520	V1	BK									&E01+10/108.2
B2 axis, motor										+10-KF520	W2	6		+90-MA520	W1	RD									&E01+10/108.2
B2 axis, motor										+10-KF520	PE	PE													&E01+10/108.2
B2 axis, motor									SH	+10-KF520	SH	SH													&E01+10/108.2

Connector pin assignment

Function indication	Cable marking								+90-WG520.1	Plug +90-XG520						+90-WG520								Cable marking	
	Cable type									Source		Plug		Target		6FX8002-2SL10-1AE0 7x0,5 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
B2 axis, motor									WH	+90-XG520.1				+10-TF521	X200:1	WH								&E01+10/108.5	
B2 axis, motor									BN	+90-XG520.1				+10-TF521	X200:2	BN								&E01+10/108.5	
B2 axis, motor									GN	+90-XG520.1				+10-TF521	X200:3	GN								&E01+10/108.5	
B2 axis, motor									YE	+90-XG520.1				+10-TF521	X200:4	YE								&E01+10/108.6	
B2 axis, motor									GY	+90-XG520.1				+10-TF521	X200:5	GY								&E01+10/108.6	
B2 axis, motor									PK	+90-XG520.1				+10-TF521	X200:6	PK								&E01+10/108.6	
B2 axis, motor									GNYE	+90-XG520.1				+10-TF521	X200:PE	GNYE								&E01+10/108.7	
B2 axis, motor														+10-TF521	X200:SH	SH								&E01+10/108.7	

Connector pin assignment

Function indication	Cable marking	+50-WG600	Plug +90-XG600.1						+90-WG600.1	Cable marking	
	Cable type	PUR4(C) 4x0,34 mm²	Source		Plug		Target		PUR(C) 3x0,34 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
Head dressing at base position		BN	+10-XG600	1	1		+90-XG600.2	1	BN	&E01+10/208.7	
Head dressing at base position		BU	+10-XG600	3	3		+90-XG600.2	3	BU	&E01+10/208.7	
Head dressing at base position		BK	+10-XG600	4	4		+90-XG600.2	4	BK	&E01+10/208.7	

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Connector pin assignment

Function indication	Cable marking								+90-WG600.1	Plug +90-XG600.2 !!!WORT FEHLT!!!						+90-WG600.2								Cable marking	
	Cable type								PUR(C) 3x0,34 mm²	Source		Plug		Target		PUR(C) 3x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Head dressing at base position									BN	+90-XG600.1	1	1		+90-XG600.3	1	BN								&E01+10/208.7	
Head dressing at base position									BU	+90-XG600.1	3	3		+90-XG600.3	3	BU								&E01+10/208.7	
Head dressing at base position									BK	+90-XG600.1	4	4		+90-XG600.3	4	BK								&E01+10/208.7	

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Connector pin assignment

Function indication	Cable marking	+90-WG600.2	Plug +90-XG600.3						Cable marking	Page / Path
	Cable type	PUR(C) 3x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Head dressing at base position		BN	+90-XG600.2	1	1		+90-BG600			&E01+10/208.7
Head dressing at base position		BU	+90-XG600.2	3	3		+90-BG600			&E01+10/208.7
Head dressing at base position		BK	+90-XG600.2	4	4		+90-BG600			&E01+10/208.7

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Connector pin assignment

Function indication	Cable marking								+50-WG601	Plug +90-XG601.1						+90-WG601.1								Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target		PUR(C) 3x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Head dressing at operating position									BN	+10-XG601	1	1		+90-XG601.2	1	BN								&E01+10/208.8	
Head dressing at operating position									BU	+10-XG601	3	3		+90-XG601.2	3	BU								&E01+10/208.8	
Head dressing at operating position									BK	+10-XG601	4	4		+90-XG601.2	4	BK								&E01+10/208.8	

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Connector pin assignment

Function indication	Cable marking	+90-WG601.1	Plug +90-XG601.2 !!!WORT FEHLT!!!						+90-WG601.2	Cable marking	
	Cable type	PUR(C) 3x0,34 mm²	Source		Plug		Target		PUR(C) 3x0,34 mm²	Cable type	Page / Path
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
Head dressing at operating position		BN	+90-XG601.1	1	1		+90-XG601.3	1	BN		&E01+10/208.8
Head dressing at operating position		BU	+90-XG601.1	3	3		+90-XG601.3	3	BU		&E01+10/208.8
Head dressing at operating position		BK	+90-XG601.1	4	4		+90-XG601.3	4	BK		&E01+10/208.8

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +90-XG601.2 -XG601.2 Kopfabrichter in Arbeitsposition	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 715
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking	+90-WG601.2	Plug +90-XG601.3						Cable marking	Page / Path
	Cable type	PUR(C) 3x0,34 mm²	Source		Plug		Target		Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
Head dressing at operating position		BN	+90-XG601.2	1	1		+90-BG601			&E01+10/208.8
Head dressing at operating position		BU	+90-XG601.2	3	3		+90-BG601			&E01+10/208.8
Head dressing at operating position		BK	+90-XG601.2	4	4		+90-BG601			&E01+10/208.8

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +90-XG601.3	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 716
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking								+92-WG20.1	Plug +92-XG20.1 +92-XG20.1 vibration sensor Z1 axis						+92-WG20.2								Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target		PUR4(C) 4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Z1 axis, counter support 1 vibration sensor									BN	+10-XG20	1	1		+92-XG20.2	1	BN								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									WH	+10-XG20	2	2		+92-XG20.2	2	WH								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									BU	+10-XG20	3	3		+92-XG20.2	3	BU								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									BK	+10-XG20	4	4		+92-XG20.2	4	BK								&E01+10/131.2	
												SH													
Z1 axis, counter support 1 vibration sensor									SH	+10-XG20	PE	SH		+92-XG20.2	SH	SH								&E01+10/131.2	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +92-XG20.1 +92-XG20.1 vibration sensor Z1 axis	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 717
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking								+92-WG20.2	Plug +92-XG20.2						+92-WG20.3								Cable marking	
	Cable type								PUR4(C) 4x0,34 mm²	Source		Plug		Target		4x0,34 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Z1 axis, counter support 1 vibration sensor									BN	+92-XG20.1	1	1		+92-BS20	L+	BN								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									WH	+92-XG20.1	2	2		+92-BS20	OUT	WH								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									BU	+92-XG20.1	3	3		+92-BS20	GND	BU								&E01+10/131.1	
Z1 axis, counter support 1 vibration sensor									BK	+92-XG20.1	4	4		+92-BS20	TEST	BK								&E01+10/131.2	
Z1 axis, counter support 1 vibration sensor									SH	+92-XG20.1	SH	SH		+92-BS20	SH	SH								&E01+10/131.2	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +92-XG20.2	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 718
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking	Plug +93-XG21.1 +93-XG21.1 vibration sensor Z2 axis					Cable marking	
	Cable type	Source		Plug		Target		Cable type / Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection	
				1				
				2				
				3				
				4				
				SH				

Connector pin assignment

Function indication	Cable marking								+99-WD99	Plug +99-XD99 3 oder 5 polig Versorgung Löschanlage					+99-WD99.1								Cable marking	
	Cable type								ÖLFLEX-540P 3x1,5 mm²	Source		Plug		Target		ÖLFLEX-540P 3x1,5 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Thermal detector									BN	+10-XD99	1	1		+99-FM99	L1	1								&E01+10/51.2	
230VAC									BU	+10-XD99	2	2		+99-FM99	L2/N	2								&E01+10/51.2	
												3													
												4													
												5													
												6													
230VAC									GNYE	+10-XD99	PE	PE		+99-FM99	PE	GNYE								&E01+10/51.2	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +99-XD99 +99-XD99 fire extinguishing system interface	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 720
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking								+10-WG99	Plug +99-XG99 +99-XG99 fire extinguishing system interface						+99-WG99.1								Cable marking	
	Cable type								SUPERFLEX PLUS N PUR 18x0,5 mm²	Source		Plug		Target		PUR UL/CSA 18x0,5 mm²								Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Voltage supply 24 V DC									1	+10-XG99	1	1		+99-FM99	nc	1								&E01+10/52.0	
Voltage supply 24 V DC									2	+10-XG99	2	2		+99-FM99	nc	2								&E01+10/52.1	
Emergency stop circuit channel 1									3	+10-XG99	3	3		+99-FM99	32	3								&E01+10/52.1	
Emergency stop circuit channel 1									4	+10-XG99	4	4		+99-FM99	33	4								&E01+10/52.2	
Emergency stop circuit channel 2									5	+10-XG99	5	5		+99-FM99	38	5								&E01+10/52.2	
Emergency stop circuit channel 2									6	+10-XG99	6	6		+99-FM99	39	6								&E01+10/52.2	
(External door contact)									7	+10-XG99	7	7		+99-FM99	21	7								&E01+10/52.3	
(Working chamber closed/locked)									8	+10-XG99	8	8		+99-FM99	22	8								&E01+10/52.3	
(Working chamber closed/locked)									9	+10-XG99	9	9		+99-FM99	23	9								&E01+10/52.4	
(Working chamber closed/locked)									10	+10-XG99	10	10		+99-FM99	24	10								&E01+10/52.4	
Fire extinguishing system ready to extinguish									11	+10-XG99	11	11		+99-FM99	40	11								&E01+10/52.4	
Fire extinguishing system OK									12	+10-XG99	12	12		+99-FM99	36	12								&E01+10/52.6	
relay 3									13	+10-XG99	13	13		+99-FM99	43	13								&E01+10/52.6	
fire extinguishing system fire detected									14	+10-XG99	14	14		+99-FM99	45	14								&E01+10/52.7	
relay 2									15	+10-XG99	15	15		+99-FM99	41	15								&E01+10/52.5	
Fault relay									16	+10-XG99	16	16		+99-FM99	35	16								&E01+10/52.6	
Air supply ON									17	+10-XG99	17	17		+99-FM99	44	17								&E01+10/52.7	
												18													
												19													
												20													
												21													
												22													
												23													
												24													
fire extinguishing system fire detected									GNYE	+10-XG99	PE	PE		+99-FM99	PE	GNYE								&E01+10/52.9	

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +99-XG99 +99-XG99 fire extinguishing system interface	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 721
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Connector pin assignment

Function indication	Cable marking	Plug +99-XG99.1 +99-XG99 Fire extinguishing system manual release						Cable marking	
	Cable type	Source		Plug		Target		Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection		
		+99-FM99	3	1				&E01+10/51.0	
UV sensor		+99-FM99	4	2				&E01+10/51.1	
230VAC		+99-FM99	7	3		+75-XG99.5	3:a	&E01+10/51.3	
Manual release		+99-FM99	8	4		+75-XG99.5	4:a	&E01+10/51.3	
UV sensor		+99-FM99	9	5		+75-XG99.5	5:a	&E01+10/51.1	
Thermal detector		+99-FM99	10	6		+75-XG99.5	6:a	&E01+10/51.2	
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				PE		+75-XG99.5	1PE:a	&E01+10/51.0	
				1					
				2					
				3					
				4					
				5					
				6					
				7					
				8					
				9					

Connector pin assignment

Function indication	Cable marking	Cable type	Plug +99-XG99.1 +99-XG99 Fire extinguishing system manual release					Cable marking	Cable type	Page / Path
			Source		Plug		Target			
			Equipment	Connection	Connection	Bridge	Equipment	Connection		
					10					
					11					
					12					
					13					
					14					
					15					
					16					
					17					
					18					
					19					
					20					
					21					
					22					
					23					
					24					
					PE					

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +99-XG99.1 +99-XG99 Fire extinguishing system manual release	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 722.1
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking							+101-WG101.21	+101-WG101.2	Plug +101-XG101.3 +101-XG101.3 loading door safety strip														Cable marking	
	Cable type							PURN 3x1 mm²	PURN 3x1 mm²	Source		Plug		Target										Cable type	Page / Path
										Equipment	Connection	Connection	Bridge	Equipment	Connection										
Safety strip Loading door not activated Channel 1									1	+10-XG101.2	1	1		+101-QQ101.2	1									&E01+10/186.8	
Safety strip Loading door not activated Channel 2								1		+10-XG101.2	2	2		+101-QQ101.2	2									&E01+10/186.9	
												3													
												4													
												5													
												6													
												PE													

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +101-XG101.3 +101-XG101.3 loading door safety strip	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 723
modification	date	name	see cover page		machine type	manufacturer	page description	drawing number	from 726

Connector pin assignment

Function indication	Cable marking	+101-WG101	Plug +101-XG101.4						+101-WG101.4	Cable marking	Page / Path
	Cable type	PUR4 4x0,34 mm²	Source		Plug		Target		PUR3 3x0,34 mm²	Cable type	
			Equipment	Connection	Connection	Bridge	Equipment	Connection			
Intermediate storage		BN	+10-XG101	1	1		+101-EA101	X1:1	BN	&E01+10/63.8	
Intermediate storage		BU	+10-XG101	3	3		+101-EA101	X1:3	BU	&E01+10/63.8	
Intermediate storage		BK	+10-XG101	4	4		+101-EA101	X1:4	BK	&E01+10/63.7	

Connector pin assignment

Function indication	Cable marking	Cable type	Plug +102-UC102-X6110 Source Equipment	Source Connection	Plug Connection	Plug Bridge	Target Equipment	Target Connection	Cable marking	Cable type	Page / Path
			+10-XG102	1:1	1		+102-UC102				&E01+10/178.1
			+10-XG102	2:2	2		+102-UC102				&E01+10/178.1
			+10-XG102	3:3	3						&E01+10/178.1
			+10-XG102	4:4	4						&E01+10/178.2
			+10-XG102	5:5	5						&E01+10/178.2
			+10-XG102	6:6	6						&E01+10/178.2
			+10-XG102	7:7	7						&E01+10/178.3
			+10-XG102	8:8	8						&E01+10/178.3
			+10-XG102	9:9	9						&E01+10/178.4
			+10-XG102	10:10	10						&E01+10/178.4
			+10-XG102	11:11	11						&E01+10/178.4
			+10-XG102	12:12	12						&E01+10/178.5
			+10-XG102	13:13	13						&E01+10/178.5
			+10-XG102	14:14	14						&E01+10/178.6
			+10-XG102	15:15	15						&E01+10/178.6
			+10-XG102	16:16	16						&E01+10/178.6
			+10-XG102	17:17	17						&E01+10/178.7
			+10-XG102	18:18	18						&E01+10/178.7
			+10-XG102	19:19	19						&E01+10/178.8
			+10-XG102	24:24	24						&E01+10/178.8

			date	2022-12-13	Speed Viper 300	KLINGELNBERG	plug diagram +102-UC102-X6110	433021	& E07
			edited by	Kusc_Nil					+
			Checked					650.01.433021	page 725
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Connector pin assignment

Function indication	Cable marking	Plug +102-UC102-X6111								+102-WG103								Cable marking	
	Cable type	Source		Plug		Target				PURN 18x1 mm²								Cable type	Page / Path
		Equipment	Connection	Connection	Bridge	Equipment	Connection												
		+102-UC102		1		+10-XG103	1	1										&E01+10/178.1	
		+102-UC102		2		+10-XG103	2	2										&E01+10/178.1	
				3		+10-XG103	3	3										&E01+10/178.1	
				4		+10-XG103	4	4										&E01+10/178.2	
				5		+10-XG103	5	5										&E01+10/178.2	
				6		+10-XG103	6	6										&E01+10/178.2	
				7		+10-XG103	7	7										&E01+10/178.3	
				8		+10-XG103	8	8										&E01+10/178.3	
				9		+10-XG103	9	9										&E01+10/178.4	
				10		+10-XG103	10	10										&E01+10/178.4	
				11		+10-XG103	11	11										&E01+10/178.5	
				12		+10-XG103	12	12										&E01+10/178.5	
				13		+10-XG103	13	13										&E01+10/178.5	
				14		+10-XG103	14	14										&E01+10/178.6	
		+102-UC102		15		+10-XG103	15	15										&E01+10/178.6	
		+102-UC102		16		+10-XG103	16	16										&E01+10/178.7	

Device list

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+10-AA500	VPM120 B-AXIS	VPM 120 6SN1113-1AA00-1JA1 Voltage Protection Module, 120A *SIEMENS	SIEMENS	1	362610A	&E01+10/96.2	I
+10-AA500	VPM120 B-AXIS	REDUZIERUNG M50X1,5/M32X1,5 MS*LÜTZE-ARTIKEL-NR. 600229 .	LUETZE	2	362243A	&E01+10/96.2	I
+10-AA500	VPM120 B-AXIS	GEGENMUTTER M50 *PFLITSCH ART.NR.250/5 *PFLITSCH	PFLITSCH	2	366660A	&E01+10/96.2	I
+10-AA500	VPM120 B-AXIS	KABELVERSHR TOP-T-S-EMV M32x1,5 15-21MM (15-21MM MS/NEOPRENE) ART.-NR.600174 *LUETZE	LUETZE	2	390250A	&E01+10/96.2	I
+10-AA500	VPM120 B-AXIS	KABELVERSHR TOP-T-S-EMV M16x1,5 5,5-10MM (5,5-10MM MS/NEOPRENE)ART.-NR.600171 *LUETZE	LUETZE	1	421260A	&E01+10/96.2	I
+10-AA500	VPM120 B-AXIS	GEGENMUTER M16X1,5 EN 50262 *LÜTZE-ARTIKEL-Nr.600361 MS/VERNICKELT	LUETZE	1	336352A	&E01+10/96.2	I
+10-BA1	balancing unit	RACK 1/2 19" REMOTE 24VDC 9APVM2000RA050	BALANCE SYSTEMS	1	7834225A	&E01+10/157.0	I
+10-BA1	balancing unit	WUCHTKARTE 9SHVM2511BN220 2E,ABS,BL,V11 9SHVM2511BN220	BALANCE SYSTEMS	1	448813A	&E01+10/157.0	I
+10-BA1	balancing unit	TD KARTE V11DP 2CH HF,POW 9SHVM2511TD280 *BALANCE SYSTEM S.P.A	BALANCE SYSTEMS	1	7834226A	&E01+10/157.0	I
+10-BA1	balancing unit	MULTINET PROFIBUS/PROFIN. 9SHVM2511MN020 *BALANCE SYSTEM S.P.A	BALANCE SYSTEMS	1	7834227A	&E01+10/157.0	I
+10-BA256	Remote diagnostics	SECOMEA SITEMANAGER 1529: SEC32209 ELEKTRISCHE EIGENSCHAFTEN • 800 MHZ ARM CORTEX A7 MCU	SECOMEA	1	7838762A	&E01+10/229.0	I
+10-BG1	Control cabinet door 1 closed	PS 4127.000 TÜRPOSITIONSSCHALTER TÜRPOSITIONSSCHALTER	RITTAL	1	7823291A	&E01+10/198.1	I
+10-BG2	Control cabinet door 2 closed	PS 4127.000 TÜRPOSITIONSSCHALTER TÜRPOSITIONSSCHALTER	RITTAL	1	7823291A	&E01+10/198.2	I
+10-BT56.1	Temperature max control cabinet not exceeded	THERMOSTAT SERIE KTO 01140 8MR2 170-2BA 1Ö	SIEMENS	1	7823442A	&E01+10/198.3	I
+10-CA500	capacitormodul	CAPACITOR MODULE 6SL3100-1CE14-0AA0 (SINAMICS) EINGANG: DC 600V 4000 uF *SIEMENS	SIEMENS	1	391208A	&E01+10/128.3	I

B = Providing M = machine PU = operating control unit KLD = embedding KLD I = cabinet I II = cabinet II

Device list

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+10-CA500	capacitormodul	KLEMMENADAPTER 6SL3162-2AA00-0AA0 SINAMICS 24-V-KLEMMENADAPTER FÜR MODULE IM BOOKSIZE-FORMAT	SIEMENS	1	700878A	&E01+10/128.3	I
+10-CA501	capacitormodul	CAPACITOR MODULE 6SL3100-1CE14-0AA0 (SINAMICS) EINGANG: DC 600V 4000 uF *SIEMENS	SIEMENS	1	391208A	&E01+10/128.6	I
+10-CA501	capacitormodul	KLEMMENADAPTER 6SL3162-2AA00-0AA0 SINAMICS 24-V-KLEMMENADAPTER FÜR MODULE IM BOOKSIZE-FORMAT	SIEMENS	1	700878A	&E01+10/128.6	I
+10-CA501	capacitormodul	ZWISCHENKREISADAPTER 6SL3162-2BD00-0AA0 SINAMICS ZWISCHENKREIS-EINSPEISEADAPTER FÜR DIREKTE EINSPEISUNG SCHRAUBKLEMMEN 0,5-10 MM2	SIEMENS	1	459788A	&E01+10/128.6	I
+10-CA501	capacitormodul	KLEMMBÜGEL KLBÜ 3-8 SC NR.1692261001 *WEIDMÜLLER	WEIDMÜLLER	1	480797A	&E01+10/128.6	I
+10-CA502	DC-Link Smoothing Capacitor	CAPACITOR DIN RAIL 6SL3100-1DC02-0AA0 HUTSCHIENENMODUL FÜR KONDENSATORBAUGRUPPE A5E42489982	SIEMENS	1	480796A	&E01+10/128.8	I
+10-CA502	DC-Link Smoothing Capacitor	KLEMMBÜGEL KLBÜ 3-8 SC NR.1692261001 *WEIDMÜLLER	WEIDMÜLLER	2	480797A	&E01+10/128.8	I
+10-EA1	enclosure light	SCHALTSCHRANKLEUCHTE SZ 2500.220 LED 24V (DC), 11W , 900 LM , BREITE 437 MM, GEHÄUSE RAL 7016	RITTAL	1	459565A	&E01+10/62.0	I
+10-EA2	enclosure light	SCHALTSCHRANKLEUCHTE SZ 2500.220 LED 24V (DC), 11W , 900 LM , BREITE 437 MM, GEHÄUSE RAL 7016	RITTAL	1	459565A	&E01+10/62.0	I
+10-EC51	Control cabinet air-conditioning	KÜHLGERÄT BLUE E+ SK 3189.949 *RITTAL SK KÜHLGERÄT BLUE E+ SONDERFARBE RAL 9005	RITTAL	1	483061A	&E01+10/70.2	I
+10-FB3	Control cabinet socket	FEHLERSTROMSCHUTZSCHALTER 5SU1356-6KK06 FI/LS-SCHUTZEINRICHTUNG TYP A (PSE/SSF), T=70MM IFN 30MA, 6KA, 1+N-POL B 6A	SIEMENS	1	7834835A	&E01+10/61.1	I
+10-FB3	Control cabinet socket	HILFSSTROMSCHALTER 5ST3010 ANBAUBAR 1S + 1OE, FÜR LS-SCHALTER T=70MM *SIEMENS	SIEMENS	1	367578A	&E01+10/61.1	I
+10-FB3	Control cabinet socket	GRIFFVERBINDER FÜR FI-SCHALTER 5ST3805-1 GRIFFVERBINDER FÜR FI-LEITUNGSSCH. T=70MM FÜR ANBAU VON ZUSATZKOMPONENTEN (1 SATZ=5 STÜCK IM POLYBEUTEL)	SIEMENS	1	7837087A	&E01+10/61.1	I
+10-FB4	Control cabinet socket	FEHLERSTROMSCHUTZSCHALTER 5SU1356-6KK06 FI/LS-SCHUTZEINRICHTUNG TYP A (PSE/SSF), T=70MM IFN 30MA, 6KA, 1+N-POL B 6A	SIEMENS	1	7834835A	&E01+10/61.4	I
+10-FB4	Control cabinet socket	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/61.4	I

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+10-FB4	Control cabinet socket	GRIFFVERBINDER FÜR FI-SCHALTER 5ST3805-1 GRIFFVERBINDER FÜR FI-LEITUNGSSCH. T=70MM FÜR ANBAU VON ZUSATZKOMPONENTEN (1 SATZ=5 STÜCK IM POLYBEUTEL)	SIEMENS	1	7837087A	&E01+10/61.4	I
+10-FC1	Supply 230VAC	LS-SCHALTER 5SY4110-7 10A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 10A, T=70MM	SIEMENS	1	394622A	&E01+10/60.4	I
+10-FC1	Supply 230VAC	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/60.4	I
+10-FC01	Energy meter	LS-SCHALTER 5SY4310-7 10A C 3POL LEITUNGSSCHUTZSCHALTER 400V 10KA, 3POLIG, C, 10A, T=70MM	SIEMENS	1	394621A	&E01+10/47.3	I
+10-FC02	Energy meter	LS-SCHALTER 5SY4101-7 1A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 1A, T=70MM	SIEMENS	1	394623A	&E01+10/47.4	I
+10-FC6	Supply for drives	NH-TRENNER SV 9343.010 Gr.00 160A 690VAC 3pol. 60mm Schraube M8 bis 95mm2 Abgang oben/unten	RITTAL	1	390436A	&E01+10/91.1	I
+10-FC6	Supply for drives	NH-SICHERUNG 00 GL 50A 500V DIN 43620,VDE 0636,BEST.NR.3NA3 820 *SIEMENS	SIEMENS	3	001486A	&E01+10/91.1	I
+10-FC7	24VDC before main breaker	MICO POWER CONTROL 2.6 (2 KANÄLE, STROMBEREICH 1A,2A,4A,6A) ART.-NO.9000-41042-0100600 *MURRELEKTRONIK	MURRELEKTRONIK	1	448130A	&E01+10/50.2	I
+10-FC13	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/78.1	I
+10-FC13	Load circuit monitoring	BRÜCKKAMM F. MICO 4.6/4.10 Art.Nr.9000-41034-0000002 *MURRELEKTRONIK	MURRELEKTRONIK	1	378352A	&E01+10/78.1	I
+10-FC14	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/78.4	I
+10-FC14	Load circuit monitoring	BRÜCKKAMM F. MICO 4.6/4.10 Art.Nr.9000-41034-0000002 *MURRELEKTRONIK	MURRELEKTRONIK	1	378352A	&E01+10/78.4	I
+10-FC15	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/78.7	I
+10-FC16	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/79.1	I
+10-FC16	Load circuit monitoring	BRÜCKKAMM F. MICO 4.6/4.10 Art.Nr.9000-41034-0000002 *MURRELEKTRONIK	MURRELEKTRONIK	1	378352A	&E01+10/79.1	I

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+10-FC17	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/79.4	I
+10-FC23	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/81.2	I
+10-FC23	Load circuit monitoring	BRÜCKKAMM F. MICO 4.6/4.10 Art.Nr.9000-41034-0000002 *MURRELEKTRONIK	MURRELEKTRONIK	1	378352A	&E01+10/81.2	I
+10-FC24	Load circuit monitoring	MICO POWER CONTROL 4.10 (4 KANÄLE, STROMBEREICH 4A,6A,8A,10A) ART.-NO.9000-41034-0401000 *MURRELEKTRONIK	MURRELEKTRONIK	1	378332A	&E01+10/81.5	I
+10-FC24	Load circuit monitoring	BRÜCKKAMM F. MICO 4.6/4.10 Art.Nr.9000-41034-0000002 *MURRELEKTRONIK	MURRELEKTRONIK	1	378352A	&E01+10/81.5	I
+10-FC29	supply balancing unit	LS-SCHALTER 5SY4106-7 6A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 6A, T=70MM	SIEMENS	1	394605A	&E01+10/79.6	I
+10-FC29	supply balancing unit	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/79.6	I
+10-FC31.1	central lubrication power unit	LS-SCHALTER 5SY4104-7 4A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 4A, T=70MM	SIEMENS	1	394619A	&E01+10/84.2	I
+10-FC31.1	central lubrication power unit	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/84.2	I
+10-FC99	supply AC230V (before main switch)	LS-SCHALTER 5SY4102-7 2A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 2A, T=70MM	SIEMENS	1	394608A	&E01+10/49.2	I
+10-FC99	supply AC230V (before main switch)	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/49.2	I
+10-FC130	Supply Sidoor	LS-SCHALTER 5SY4108-7 8A C 1POL LEITUNGSSCHUTZSCHALTER 230/400V 10KA, 1POLIG, C, 8A, T=70MM	SIEMENS	1	394618A	&E01+10/119.1	I
+10-FC130	Supply Sidoor	HILFSSTROMSCHALTER 5ST3013 FÜR LS-SCHALTER 5SL, 5SY, 5SP EINBAUSCHALTER 5TL1, FI/LS 5SU1, FI 5SV	SIEMENS	1	448841A	&E01+10/119.1	I
+10-GB12	Battery Module	BATTERIEMODUL 6EP4134-0GB00-0AY0 TYP: SITOP UPS1100 DC 24V / 7AH MIT WARTUNGSFREIEN VERSCHLOSSENEN BLEIAKKUS	SIEMENS	1	480837A	&E01+10/77.5	I
+10-GB22	Battery Module	BATTERIEMODUL 6EP4134-0GB00-0AY0 TYP: SITOP UPS1100 DC 24V / 7AH MIT WARTUNGSFREIEN VERSCHLOSSENEN BLEIAKKUS	SIEMENS	1	480837A	&E01+10/80.5	I

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+10-KF11	Buffer operation, switch off 24V battery	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/215.1	I
+10-KF12	Buffer operation, switch off 24V battery drives	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/215.2	I
+10-KF20.1	Measuring input (function 3) activate gap finding sensor 1 (on Z3)	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.1	I
+10-KF20.1	Measuring input (function 3) activate gap finding sensor 1 (on Z3)	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/216.1	I
+10-KF20.2	Messeingang (Funktion 3) Einlücksensor 1 (an Z3) aktivieren	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.1	I
+10-KF21.1	Measuring input (function 2) activate touch grinding	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.2	I
+10-KF21.1	Measuring input (function 2) activate touch grinding	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/216.2	I
+10-KF21.2	Messeingang (Funktion 2) Anschleifen aktivieren	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.2	I
+10-KF22.1	Measuring input (function 10) activate gap finding sensor 2 (on Z4)	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.5	I
+10-KF22.1	Measuring input (function 10) activate gap finding sensor 2 (on Z4)	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/216.5	I
+10-KF22.2	Messeingang (Funktion 10) Einlücksensor 2 (an Z4) aktivieren	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.6	I
+10-KF23.1	Measuring input (function 4) activate NC triggering	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.3	I
+10-KF23.1	Measuring input (function 4) activate NC triggering	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/216.3	I
+10-KF23.2	Messeingang (Funktion 4) NC-Triggerung aktivieren	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.4	I
+10-KF24.1	Measuring input (function 5) activate switching measuring probe	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.4	I

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+10-KF24.1	Measuring input (function 5) activate switching measuring probe	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/216.4	I
+10-KF24.2	measuring input (function 5) tracer stylus switching enable	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/216.5	I
+10-KF25.1	measuring input orientation grinding wheel	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/218.8	I
+10-KF25.1	measuring input orientation grinding wheel	VERBINDUNGSKAMM 2-POLIG 3RQ3901-0A *SIEMENS	SIEMENS	2	448863A	&E01+10/218.8	I
+10-KF31.1	Central lubrication grease On	HILFSSCHÜTZ 3RH2131-2BB40 3S+1Ö, DC 24V, 3POL, BGR.S00 FEDERZUGANSCHLUSS *SIEMENS	SIEMENS	1	392267A	&E01+10/223.1	I
+10-KF31.1	Central lubrication grease On	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/223.1	I
+10-KF33.5	illumination control cabinet On -UC1 / -UC2	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/62.5	I
+10-KF51	Switch on air-conditioner control cabinet	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/215.7	I
+10-KF55.1	no EMERGENCY STOP delayed	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/188.3	I
+10-KF55.2	no EMERGENCY STOP delayed	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/188.4	I
+10-KF57	No emergency stop to VDMA automation: MA_SFY_NoEStop	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/190.1	I
+10-KF58	Working chamber closed/locked to VDMA automation: MA_SFY_GuardClod	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/190.3	I
+10-KF59	Maximum of one open door to VDMA automation: MA_SFY_MaxOneGuardOpen	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/190.5	I
+10-KF60	Release brake 1 Z axis	HILFSSCHÜTZ 3RH2131-2BB40 3S+1Ö, DC 24V, 3POL, BGR.S00 FEDERZUGANSCHLUSS *SIEMENS	SIEMENS	1	392267A	&E01+10/224.2	I
+10-KF60	Release brake 1 Z axis	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/224.2	I

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+10-KF61	Release brake 2 Z axis	HILFSSCHÜTZ 3RH2131-2BB40 3S+1Ö, DC 24V, 3POL, BGR.S00 FEDERZUGANSCHLUSS *SIEMENS	SIEMENS	1	392267A	&E01+10/224.3	I
+10-KF61	Release brake 2 Z axis	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/224.3	I
+10-KF62	Z-axis brake disengage	SICHERHEITSSCHALTGERÄT 3SK1111-2AB30 3SK1111-2AB30 SIRIUS SICHERHEITSSCHALTGERAET GRUNDGERAET	SIEMENS	1	7835796A	&E01+10/105.2	I
+10-KF63	Z-axis brake disengage	HILFSSCHÜTZ 3RH2131-2BB40 3S+1Ö, DC 24V, 3POL, BGR.S00 FEDERZUGANSCHLUSS *SIEMENS	SIEMENS	1	392267A	&E01+10/105.5	I
+10-KF63	Z-axis brake disengage	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/105.5	I
+10-KF64	Z axis, release brake	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/105.6	I
+10-KF70	Loading access closed to VDMA automation: MA_SFY_LdgDoorClod	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/190.7	I
+10-KF75	Switch on lighting in working chamber	HILFSSCHÜTZ 3RH2131-2BB40 3S+1Ö, DC 24V, 3POL, BGR.S00 FEDERZUGANSCHLUSS *SIEMENS	SIEMENS	1	392267A	&E01+10/218.4	I
+10-KF75	Switch on lighting in working chamber	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/218.4	I
+10-KF99	(Signal "Arbeitsraum geschlossen/verriegelt" für Feuerlöschanlage)	NOT-AUS-ERWEITERUNG 3SK1211-2BB40 SIRIUS SICHERHEITSSCHALTGERAET AUSGANGSERWEITERUNG 4RO MIT RELAIS-FREIGABEKREISEN 4 SCHLIESSER +	SIEMENS	1	7834511A	&E01+10/188.1	I
+10-KF100	X/Z axis, inverter	DOUBLE MOTOR MODULE 6SL3120-2TE21-8AC0 SINAMICS S120 DOUBLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 18A/18A BAUFORM:	SIEMENS	1	448573A	&E01+10/101.0	I
+10-KF100	X/Z axis, inverter	KLEMMENADAPTER 6SL3162-2AA00-0AA0 SINAMICS 24-V-KLEMMENADAPTER FÜR MODULE IM BOOKSIZE-FORMAT	SIEMENS	1	700878A	&E01+10/101.0	I
+10-KF130	Control unit Sidoor	STEUERGERÄT SIDOOR 6FB1141-3AT10-3WE2 SIDOOR ATD430W STEUERGERÄT FÜR WERKZEUGMASCHINEN, BIS 600KG TÜRGEWICHT, PROFINET IO CONFORMANCE	SIEMENS	1	7836087A	&E01+10/119.6	I
+10-KF130	Control unit Sidoor	SIDOOR ATD4x0W 6FB1144-0AT00-3AS0 DIN HUTSCHIENHALTER FUER DIE STEUERGERAETE SIDOOR ATD4X0W UND FÜR SIDOOR ATE53XS	SIEMENS	1	459935A	&E01+10/119.6	I
+10-KF200	Y/X1 axis, inverter	DOUBLE MOTOR MODULE 6SL3120-2TE15-0AD0 SINAMICS S120 DOUBLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 5A/5A BAUFORM:	SIEMENS	1	448571A	&E01+10/111.1	I

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+10-KF310	Z1 axis, inverter	SINGLE MOTOR MODULE 6SL3120-1TE21-0AD0 SINAMICS S120 SINGLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 9A BAUFORM:	SIEMENS	1	448565A	&E01+10/115.1	I
+10-KF330	Z3/Z4 axis, inverter	DOUBLE MOTOR MODULE 6SL3120-2TE15-0AD0 SINAMICS S120 DOUBLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 5A/5A BAUFORM:	SIEMENS	1	448571A	&E01+10/120.1	I
+10-KF400	A axis, inverter	SINGLE MOTOR MODULE 6SL3120-1TE24-5AC0 SINAMICS S120 SINGLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 45A BAUFORM:	SIEMENS	1	483503A	&E01+10/93.0	I
+10-KF400	A axis, inverter	SCHIRMANSCHLUSSBLECH 6SL3162-1AD00-0AA0 SINAMICS SCHIRMANSCHLUSSBLECH FUER 100MM 45A/60A MOTOR MODULES	SIEMENS	1	483505A	&E01+10/93.0	I
+10-KF500	B axis, inverter	SINGLE MOTOR MODULE 6SL3120-1TE24-5AC0 SINAMICS S120 SINGLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 45A BAUFORM:	SIEMENS	1	483503A	&E01+10/96.1	I
+10-KF500	B axis, inverter	SCHIRMANSCHLUSSBLECH 6SL3162-1AD00-0AA0 SINAMICS SCHIRMANSCHLUSSBLECH FUER 100MM 45A/60A MOTOR MODULES	SIEMENS	1	483505A	&E01+10/96.1	I
+10-KF500	B axis, inverter	KLEMMENADAPTER 6SL3162-2AA00-0AA0 SINAMICS 24-V-KLEMMENADAPTER FÜR MODULE IM BOOKSIZE-FORMAT	SIEMENS	1	700878A	&E01+10/96.1	I
+10-KF504	Braking Module	BRAKING MODULE 6SL3100-1AE31-0AB1 EINGANG: DC 600 V: AUSGANG: SPITZE 100KW/2S BAUFORM: BOOKSIZE, BAUGRUPPEN LACKIERT	SIEMENS	1	392796A	&E01+10/128.1	I
+10-KF505	NCU 720.3B PN	NCU 720.3B PN 6FC5372-0AA30-0AB0 SINUMERIK 840D SL NCU 720.3B PN MIT PLC 317-3 PN/DP INKL.	SIEMENS	1	456299A	&E01+10/85.0	I
+10-KF506	NC-EXTENSION NX15.3	NC-EXTENSION NX15.3 6SL3040-1NB00-0AA0 (SINAMICS) ERWEITERUNG ANTRIEBSREGELUNG F.SINUMERIK 840D SL BIS ZU 6 ACHSEN	SIEMENS	1	392411A	&E01+10/87.2	I
+10-KF508	NC-EXTENSION NX15.3	NC-EXTENSION NX15.3 6SL3040-1NB00-0AA0 (SINAMICS) ERWEITERUNG ANTRIEBSREGELUNG F.SINUMERIK 840D SL BIS ZU 6 ACHSEN	SIEMENS	1	392411A	&E01+10/89.2	I
+10-KF520	B2/C3 axis, inverter	DOUBLE MOTOR MODULE 6SL3120-2TE21-8AC0 SINAMICS S120 DOUBLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 18A/18A BAUFORM:	SIEMENS	1	448573A	&E01+10/107.1	I
+10-KF610	C axis, inverter	SINGLE MOTOR MODULE 6SL3120-1TE26-0AC0 SINAMICS S120 SINGLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 60A BAUFORM:	SIEMENS	1	483504A	&E01+10/99.0	I
+10-KF610	C axis, inverter	SCHIRMANSCHLUSSBLECH 6SL3162-1AD00-0AA0 SINAMICS SCHIRMANSCHLUSSBLECH FUER 100MM 45A/60A MOTOR MODULES	SIEMENS	1	483505A	&E01+10/99.0	I
+10-KF610	C axis, inverter	ZWISCHENKREISADAPTER 6SL3162-2BE00-0AA0 S120 ZWISCHENKREIS-EINSPEISEADAPTER FÜR DIREKTE EINSPEISUNG SCHRAUBKL. -35 MM2 72A FÜR 100, 150, 200 UND 300MM LINE/MOTOR	SIEMENS	1	490001A	&E01+10/99.0	I

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+10-KF610	C axis, inverter	KLEMMENADAPTER 6SL3162-2AA00-0AA0 SINAMICS 24-V-KLEMMENADAPTER FÜR MODULE IM BOOKSIZE-FORMAT	SIEMENS	1	700878A	&E01+10/99.0	I
+10-KF640	C4/X4 axis, inverter	DOUBLE MOTOR MODULE 6SL3120-2TE15-0AD0 SINAMICS S120 DOUBLE MOTOR MODULE EINGANG: DC 600V AUSGANG: 3AC 400V, 5A/5A BAUFORM:	SIEMENS	1	448571A	&E01+10/124.1	I
+10-KF800	ET200SP Interfacemodul	INTERFACEMODUL IM155 6ES7155-6AA01-0BN0 SIMATIC ET 200SP, PROFINET INTERFACEMODUL IM155-6PN STANDARD, MAX. 32 PERIPHERIEMODULE,	SIEMENS	1	459729A	&E01+10/179.1	I
+10-KF801	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.2	I
+10-KF801	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/179.2	I
+10-KF802	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.2	I
+10-KF802	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.2	I
+10-KF803	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.2	I
+10-KF803	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.2	I
+10-KF804	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.3	I
+10-KF804	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.3	I
+10-KF805	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.3	I
+10-KF805	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.3	I
+10-KF809	ET200SP	ELEKTRONIKMODUL 6ES7136-6BA01-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 8 F-DI HF PROFISAFE DC 24V, 15MM BAUBREITE	SIEMENS	1	392890A	&E01+10/179.4	I
+10-KF809	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.4	I

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+10-KF810	ET200SP	ELEKTRONIKMODUL 6ES7136-6DB00-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 4 F-DQ PROFISAFE DC 24V/2A, 15MM BAUBREITE	SIEMENS	1	392891A	&E01+10/179.4	I
+10-KF810	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.4	I
+10-KF811	ET200SP	ELEKTRONIKMODUL 6ES7136-6DB00-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 4 F-DQ PROFISAFE DC 24V/2A, 15MM BAUBREITE	SIEMENS	1	392891A	&E01+10/179.4	I
+10-KF811	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.4	I
+10-KF818	ET200SP	ELEKTRONIKMODUL 6ES7136-6DB00-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 4 F-DQ PROFISAFE DC 24V/2A, 15MM BAUBREITE	SIEMENS	1	392891A	&E01+10/179.5	I
+10-KF818	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.5	I
+10-KF819	ET200SP	ELEKTRONIKMODUL 6ES7136-6DB00-0CA0 SIMATIC DP, ELEKTRONIKMODUL F. ET 200SP 4 F-DQ PROFISAFE DC 24V/2A, 15MM BAUBREITE	SIEMENS	1	392891A	&E01+10/179.5	I
+10-KF819	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/179.5	I
+10-KF821	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.2	I
+10-KF821	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/180.2	I
+10-KF822	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.2	I
+10-KF822	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.2	I
+10-KF823	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.2	I
+10-KF823	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.2	I
+10-KF824	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.3	I

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+10-KF824	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.3	I
+10-KF825	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.3	I
+10-KF825	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.3	I
+10-KF826	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.3	I
+10-KF826	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.3	I
+10-KF827	ET200SP	EINGANGSMODUL 6ES7131-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES EINGANGSMODUL, DI 16X 24VDC STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392602A	&E01+10/180.4	I
+10-KF827	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/180.4	I
+10-KF840	ET200SP	EINGANGSMODUL 6ES7134-6HB00-0CA1 SIMATIC ET 200SP, ANALOGES EINGANGSMODUL, AI 2x U/I 2-,4-Wire HIGH FEATURE,	SIEMENS	1	480818A	&E01+10/180.4	I
+10-KF840	ET200SP	BASE UNIT ET200SP 6ES7193-6BP40-0DA1 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+12D/T, BU-TYPE A1-GETRENNT,	SIEMENS	1	7834905A	&E01+10/180.4	I
+10-KF840	ET200SP	SCHIRMKLEMMEN 6ES7193-6SC20-1AM0 SIMATIC ET 200SP, 5 SCHIRMKLEMMEN UND 5 SCHIRMAUFLAGEN, FUER DIREKTANSCHLUSS	SIEMENS	1	392622A	&E01+10/180.4	I
+10-KF841	ET200SP	EINGANGSMODUL 6ES7134-6HB00-0CA1 SIMATIC ET 200SP, ANALOGES EINGANGSMODUL, AI 2x U/I 2-,4-Wire HIGH FEATURE,	SIEMENS	1	480818A	&E01+10/180.5	I
+10-KF841	ET200SP	BASE UNIT ET200SP 6ES7193-6BP40-0BA1 SIMATIC ET 200SP, BASE UNIT BU15-P16+A0+12B/T, BU-TYPE A1-GEBRÜCKT,	SIEMENS	1	7834906A	&E01+10/180.5	I
+10-KF841	ET200SP	SCHIRMKLEMMEN 6ES7193-6SC20-1AM0 SIMATIC ET 200SP, 5 SCHIRMKLEMMEN UND 5 SCHIRMAUFLAGEN, FUER DIREKTANSCHLUSS	SIEMENS	1	392622A	&E01+10/180.5	I
+10-KF850	ET200SP	AUSGANGSMODUL 6ES7135-6HD00-0BA1 SIMATIC ET 200SP, ANALOGES AUSGANGSMODUL, AQ 4XU/I STANDARD,	SIEMENS	1	392612A	&E01+10/180.6	I
+10-KF850	ET200SP	BASE UNIT ET200SP 6ES7193-6BP40-0BA1 SIMATIC ET 200SP, BASE UNIT BU15-P16+A0+12B/T, BU-TYPE A1-GEBRÜCKT,	SIEMENS	1	7834906A	&E01+10/180.6	I

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+10-KF850	ET200SP	SCHIRMKLEMMEN 6ES7193-6SC20-1AM0 SIMATIC ET 200SP, 5 SCHIRMKLEMMEN UND 5 SCHIRMAUFLAGEN, FUER DIREKTANSCHLUSS	SIEMENS	1	392622A	&E01+10/180.6	I
+10-KF860	ET200SP	AUSGANGSMODUL 6ES7132-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 16X24VDC/0,5A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392605A	&E01+10/181.1	I
+10-KF860	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/181.1	I
+10-KF861	ET200SP	AUSGANGSMODUL 6ES7132-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 16X24VDC/0,5A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392605A	&E01+10/181.1	I
+10-KF861	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/181.1	I
+10-KF862	ET200SP	AUSGANGSMODUL 6ES7132-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 16X24VDC/0,5A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392605A	&E01+10/181.2	I
+10-KF862	ET200SP	BASEUNIT 6ES7193-6BP00-0BA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2B, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392615A	&E01+10/181.2	I
+10-KF863	ET200SP	AUSGANGSMODUL 6ES7132-6BD20-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 4X24VDC/2A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392603A	&E01+10/181.3	I
+10-KF863	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/181.3	I
+10-KF864	ET200SP	AUSGANGSMODUL 6ES7132-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 16X24VDC/0,5A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392605A	&E01+10/181.3	I
+10-KF864	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/181.3	I
+10-KF865	ET200SP	AUSGANGSMODUL 6ES7132-6BH01-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 16X24VDC/0,5A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392605A	&E01+10/181.4	I
+10-KF865	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/181.4	I
+10-KF866	ET200SP	AUSGANGSMODUL 6ES7132-6BD20-0BA0 SIMATIC ET 200SP, DIGITALES AUSGANGSMODUL, DQ 4X24VDC/2A STANDARD, PASSEND FUER BU-TYP A0,	SIEMENS	1	392603A	&E01+10/181.5	I
+10-KF866	ET200SP	BASEUNIT 6ES7193-6BP00-0DA0 SIMATIC ET 200SP, BASEUNIT BU15-P16+A0+2D, BU-TYPE A0, PUSH-IN KLEMMEN, OHNE AUX-KLEMMEN,	SIEMENS	1	392616A	&E01+10/181.5	I

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+10-KF902.3	delay disengagement Sealing air	KOPPELRELAIS 3RQ3018-2AB01 24V AC/DC 1W BAUBREITE 6,2MM, FEDERZUGKLEMMEN (PUSH IN) HARTVERGOLDET *SIEMENS	SIEMENS	1	448644A	&E01+10/50.8	I
+10-KF999	monitoring module vibration sensor	DIAGNOSEELEKTRONIK VSE100 BETRIEBSSSPG: 24VDC +-20% / 100mA EINGÄNGE: 4xSENSOR 0..10mA, 2xDREHZAHL 0/4...20mA	IFM	1	391653A	&E01+10/131.1	I
+10-KF999	monitoring module vibration sensor	SCHIRMANSCHLUSSKLEMME 3 -14MM 3062799 3062799	PHOENIX	4	7834535A	&E01+10/131.1	I
+10-KT902.3	Sealing air shut-off delay	ZEITRELAIS 3RP2505-2AW30 (15 ZEITBEREICHE, 1W. MIT 13 FUNKTIONEN) AC/DC 12-240V 50-60HZ, FEDERZUGANSCHLUSS	SIEMENS	1	448615A	&E01+10/50.6	I
+10-PG1	Energy meter	MESSGERÄT PAC3220 7KM3220-0BA01-1DA0 SENTRON PAC3220, LCD 96X96MM POWER MONITORING DEVICE SCHALTTAFELEINBAUGERÄT ZUR MESSUNG ELEKTRISCHER GRÖSSEN	SIEMENS	1	483675A	&E01+10/47.3	I
+10-PG1-PG1.1	Energy meter	PROFINETMODUL 7KM9300-0AE02-0AA0 ERWEITERUNGSMODUL SWITCHED ETHERNET PROFINET V3, STECKBAR,FÜR 7KM PAC3200	SIEMENS	1	483740A	&E01+10/47.6	I
+10-PG1-PG1.1	Energy meter	FASTCONNECT RJ45 6GK1901-1BB10-2AA0 RJ45-Steckverbinder für Industrial-Ethernet mit robustem Metallgehäuse und integrierten	SIEMENS	2	378443A	&E01+10/47.6	I
+10-QA1	supply 230VAC	LEISTUNGSSCHALTER 3RV2411-1KA10 BGR. S00, F.TRAFOSCHUTZ, A-AUSL.9...12,5A, N-AUSL.260A,	SIEMENS	1	392048A	&E01+10/60.2	I
+10-QA1	supply 230VAC	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/60.2	I
+10-QA1	supply 230VAC	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/60.2	I
+10-QA3	24VDC supply before main breaker	LEISTUNGSSCHALTER 3RV2011-1EA10 BGR. S00, F.MOTORSCHUTZ, CLASS 10, A-AUSL.2,8...4A, N-AUSL.52A,	SIEMENS	1	392014A	&E01+10/50.0	I
+10-QA3	24VDC supply before main breaker	HILFSSCHALTER QUER 1S+1Ö 3RV2901-2E F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, FEDERZUGANSCHLUSS	SIEMENS	1	392255A	&E01+10/50.0	I
+10-QA10	24VDC supply	LEISTUNGSSCHALTER 3RV2011-1EA10 BGR. S00, F.MOTORSCHUTZ, CLASS 10, A-AUSL.2,8...4A, N-AUSL.52A,	SIEMENS	1	392014A	&E01+10/77.2	I
+10-QA10	24VDC supply	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/77.2	I
+10-QA20	24VDC supply drives	LEISTUNGSSCHALTER 3RV2011-1EA10 BGR. S00, F.MOTORSCHUTZ, CLASS 10, A-AUSL.2,8...4A, N-AUSL.52A,	SIEMENS	1	392014A	&E01+10/80.2	I

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+10-QA20	24VDC supply drives	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/80.2	I
+10-QA36	Hydraulics motor	VERBR.ABZW.2,2-3,2A 3RA2110-1DD15-1BB4 3RA2110-1DD15-1BB4	SIEMENS	1	7822939A	&E01+10/72.1	I
+10-QA36	Hydraulics motor	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/72.1	I
+10-QA36	Hydraulics motor	DIODENKOMBINATION S00 3RT2916-1EH00 3RT2916-1EH00	SIEMENS	1	7822964A	&E01+10/72.1	I
+10-QA40	cooling unit 1	VERBR.ABZW.9-12,5A 3RA2120-1KD24-0BB4 3RA2120-1KD24-0BB4	SIEMENS	1	7822945A	&E01+10/67.1	I
+10-QA40	cooling unit 1	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/67.1	I
+10-QA40	cooling unit 1	DIODENKOMBINATION S0 3RT2926-1ER00 3RT2926-1ER00	SIEMENS	1	7822965A	&E01+10/67.1	I
+10-QA51	cooling unit control cabinet	LEISTUNGSSCHALTER 3RV2011-4AA10 BGR. S00, F.MOTORSCHUTZ, CLASS 10, A-AUSL.10...16A, N-AUSL.208A,	SIEMENS	1	392020A	&E01+10/70.2	I
+10-QA51	cooling unit control cabinet	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/70.2	I
+10-QA51	cooling unit control cabinet	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/70.2	I
+10-QA75.1	elevating mechanism	LEISTUNGSSCHALTER 3RV2411-1GA10 BGR. S00, F.TRAFOSCHUTZ, A-AUSL.4,5...6,3A, N-AUSL.130A,	SIEMENS	1	392045A	&E01+10/68.2	I
+10-QA75.1	elevating mechanism	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/68.2	I
+10-QA75.1	elevating mechanism	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/68.2	I
+10-QA83	Oil mist collector	VERBR.ABZW.9-12,5A 3RA2120-1KD24-0BB4 3RA2120-1KD24-0BB4	SIEMENS	1	7822945A	&E01+10/76.1	I
+10-QA83	Oil mist collector	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/76.1	I

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+10-QA83	Oil mist collector	DIODENKOMBINATION S0 3RT2926-1ER00 3RT2926-1ER00	SIEMENS	1	7822965A	&E01+10/76.1	I
+10-QA88	Return oil pump	Verbraucherabzweig S0 60 mm, 3,5 - 5 A 3RA2120-1FD24-0BB4	Siemens AG	1	7822941A	&E01+10/73.2	I
+10-QA88	Return oil pump	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/73.2	I
+10-QA88	Return oil pump	DIODENKOMBINATION S0 3RT2926-1ER00 3RT2926-1ER00	SIEMENS	1	7822965A	&E01+10/73.2	I
+10-QA99	supply 230VAC (before main switch)	LEISTUNGSSCHALTER 3RV2411-1DA10 BGR. S00, F.TRAFOSCHUTZ, A-AUSL.2,2...3,2A, N-AUSL.65A,	SIEMENS	1	392042A	&E01+10/49.2	I
+10-QA99	supply 230VAC (before main switch)	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/49.2	I
+10-QA130	Supply Sidoor	LEISTUNGSSCHALTER 3RV2011-1DA10 BGR. S00, F.MOTORSCHUTZ, CLASS 10, A-AUSL.2,2...3,2A, N-AUSL.42A,	SIEMENS	1	392013A	&E01+10/119.1	I
+10-QA130	Supply Sidoor	HILFSSCHALTER 3RV2901-1E QUER 1S+1Ö F.LEISTUNGSSCHALTER 3RV2... BGR. S00/S0, FRONTSEITIG ANBAUBAR, SCHRAUBANSCHLUSS	SIEMENS	1	392058A	&E01+10/119.1	I
+10-QA130	Supply Sidoor	SAMMELSCHIENENADAPTER 8US1251-5DS10 8US1251-5DS10	SIEMENS	1	7822954A	&E01+10/119.1	I
+10-QB0	Main switch	HAUPTSCHALTER KG160 T103/17E *KRAUS+NAIMER	KRAUS-NAIMER	1	369091A	&E01+10/48.1	I
+10-QB0	Main switch	ABGRIFFKLEMME AGK 10-UKH 50 Imax=57A Artikel-Nr. 30 01 76 3	PHOENIX	3	369469A	&E01+10/48.1	I
+10-QB0	Main switch	KLEMMENABDECKUNG K3 M160/42 f.Schaltertype KG125, KG160 4-pol. *Kraus u. Naimer	KRAUS-NAIMER	2	378329A	&E01+10/48.1	I
+10-RA302	2.brake Z-axis	METALLOXID-VARIST B72214-S300-K101 SIOV-S14K30 METALLOXID-VARIST SIOV-S14K30 METAL-OXIDE VARIST	EPCOS	1	7826767A	&E01+10/106.2	I
+10-RA504	braking resistor	BREMSWIDERSTAND 6SN1113-1AA00-0DA0 (SINAMICS) EINGANG: DC 600V; 0,3KW/25KW *SIEMENS	SIEMENS	1	391425A	&E01+10/128.1	I
+10-RF0	line filter	EMV-FILTER FN3270H-80-35 *SCHAFFNER DREIPHASEN-EMV-FILTER, 45KW, 80A, 3X 520/300 VAC (480 VAC +10% POSSIBLE)	FA. SCHAFFNER	1	490145A	&E01+10/48.1	I

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+10-RF500	Active Interface Modul	ACTIVE INTERFACE MOD. 6SL3100-0BE23-6AB0 (SINAMICS) FÜR 36KW ACTIVE LINE MODULE; EINGANG: 3AC 380-480V, 50/60HZ	SIEMENS	1	391413A	&E01+10/91.0	I
+10-RF500	Active Interface Modul	Schirmanschlussblech für Active Interface Module 150 mm 6SL3163-1AF00-0AA0	SIEMENS	1	7821461A	&E01+10/91.0	I
+10-RF501	DC-Link Smoothing Filterl	SMOOTHING FILTER 55KW 6SL3100-0DC25-5AA0 DC LINK SMOOTHING FILTER 55KW A5E44882799	SIEMENS	1	480795A	&E01+10/92.0	I
+10-RF501	DC-Link Smoothing Filterl	Schirmanschlussblech für Active Interface Module 150 mm 6SL3163-1AF00-0AA0	SIEMENS	1	7821461A	&E01+10/92.0	I
+10-TA1	Supply 230VAC	Trafo 208-550 V / 115-230 V, 2,5 kVA 4AM6542-8DD40-0FA0	SIEMENS	1	7822756A	&E01+10/60.1	I
+10-TA2.1	Current transformer phase L1	STROMWANDLER ASK31.3 PRIMÄR-STROM:100A SEKUNDÄR-STROM:5A 2,5 VA; GENAUIGKEITSKLASSE: 0,5	MBS AG	1	490295A	&E01+10/47.1	I
+10-TA2.2	Current transformer phase L2	STROMWANDLER ASK31.3 PRIMÄR-STROM:100A SEKUNDÄR-STROM:5A 2,5 VA; GENAUIGKEITSKLASSE: 0,5	MBS AG	1	490295A	&E01+10/47.1	I
+10-TA2.3	Current transformer phase L3	STROMWANDLER ASK31.3 PRIMÄR-STROM:100A SEKUNDÄR-STROM:5A 2,5 VA; GENAUIGKEITSKLASSE: 0,5	MBS AG	1	490295A	&E01+10/47.1	I
+10-TA11	24 V supply	STROMVERSORGUNG 6EP4137-3AB00-0AY0 TYP: SITOP UPS1600 DC 24 V/40 A EINGANG: DC 24 V	SIEMENS	1	480834A	&E01+10/77.2	I
+10-TA21	24 V supply for drives	STROMVERSORGUNG 6EP4137-3AB00-0AY0 TYP: SITOP UPS1600 DC 24 V/40 A EINGANG: DC 24 V	SIEMENS	1	480834A	&E01+10/80.2	I
+10-TA99	AC 230V supply (before main breaker)	TRAFO 630VA/1PH 4AM5242-8DD40-0FA0 PRIM.550-525-500-480-460-440-415-400- 380-230-208V, SEK.2x115V, 50-60HZ	SIEMENS	1	378143A	&E01+10/49.2	I
+10-TB0	24VDC supply before main breaker	STROMVERSORGUNG 6EP1333-3BA10 DC 24V/ 5A Typ: SITOP modular 5A 1/2phasig, Prim.AC 120/230-500V 50/60Hz,	SIEMENS	1	378029A	&E01+10/50.0	I
+10-TB10	24 V supply	STROMVERSORGUNG 6EP3437-8SB00-0AY0 TYP: SITOP PSU8200 24 V/40 A; Prim.3AC 400-500V; 50-60HZ;	SIEMENS	1	480810A	&E01+10/77.2	I
+10-TB20	24 V supply for drives	STROMVERSORGUNG 6EP3437-8SB00-0AY0 TYP: SITOP PSU8200 24 V/40 A; Prim.3AC 400-500V; 50-60HZ;	SIEMENS	1	480810A	&E01+10/80.2	I
+10-TB130	Supply Sidoor	SITOP PSU8200 36V/13A 6EP3446-8SB10-0AY0 GEREGELTE STROMVERSORGUNG EINGANG: 3 AC 400-500 V	SIEMENS	1	459934A	&E01+10/119.1	I

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+10-TB501	Supply for drives	ACTIVE LINE MODULE 6SL3130-7TE23-6AA3 (SINAMICS) EINGANG: 3AC 380-480V; 50/60HZ; AUSGANG: DC 600V, 117A, 36KW;	SIEMENS	1	391411A	&E01+10/92.5	I
+10-TB501	Supply for drives	SCHIRMANSCHLUSSBLECH 6SL3162-1AF00-0AA1 SINAMICS SCHIRMANSCHLUSSBLECH FUER 150MM LINE/MOTOR MODULES	SIEMENS	1	392705A	&E01+10/92.5	I
+10-TB501	Supply for drives	ZWISCHENKREISADAPTER 6SL3162-2BE00-0AA0 S120 ZWISCHENKREIS-EINSPEISEADAPTER FÜR DIREKTE EINSPEISUNG SCHRAUBKL. -35 MM2 72A FÜR 100, 150, 200 UND 300MM LINE/MOTOR	SIEMENS	1	490001A	&E01+10/92.5	I
+10-TF101	X-axis meas. system	SENSOR MODULE SME25 6SL3055-0AA00-5HA3 (SINAMICS) ABSOLUTWERT ENCODER: ENDAT; SCHUTZART IP67; OHNE DRIVE-CLIQ LEITUNG	SIEMENS	1	391128A	&E01+10/102.6	M
+10-TF201	Y-axis meas. system	SENSOR MODULE SME25 6SL3055-0AA00-5HA3 (SINAMICS) ABSOLUTWERT ENCODER: ENDAT; SCHUTZART IP67; OHNE DRIVE-CLIQ LEITUNG	SIEMENS	1	391128A	&E01+10/112.6	M
+10-TF302	2.brake Z-axis	SCHNELLSCHALTMODUL ROBA-SWITCH 24V 1/018.100.2 1/018.100.2	MAYR	1	7822927A	&E01+10/106.1	I
+10-TF302	2.brake Z-axis	BEFESTIGUNGSSATZ F.ROBA-SWITCH 1802911 1802911	MAYR	1	7822928A	&E01+10/106.1	I
+10-TF308	sensor module tracer stylus	SENSOR MODULE SMC30 6SL3055-0AA00-5CA2 SINAMICS SENSOR MODULE F.INKREMENTAL GEBER:TTL/HTL ODER KOMBI GEBER SSI MIT INKREMENTALSPUREN	SIEMENS	1	700668A	&E01+10/134.4	I
+10-TF401	A-axis motor temperature control	TERMINAL MODULE TM120 6SL3055-0AA00-3KA0 6SL3055-0AA00-3KA0	SIEMENS	1	7821443A	&E01+10/94.4	I
+10-TF401	A-axis motor temperature control	SCHIRMANSCHLUSSKLEMME SK 14 3-14MM, ANZUGSMOMENT 0,8NM ART-NR.:3025176	PHOENIX CONTACT	1	424863A	&E01+10/94.4	I
+10-TF501	B-AXIS motor temperature control	TERMINAL MODULE TM120 6SL3055-0AA00-3KA0 6SL3055-0AA00-3KA0	SIEMENS	1	7821443A	&E01+10/96.5	I
+10-TF501.1	B-AXIS meas. system 1 scanning head 1	SENSOR MODULE SMC20 6SL3055-0AA00-5BA3 SINAMICS S120 SENSOR MODULE SMC20 BAUGRUPPE ZUR AUSWERTUNG VON	SIEMENS	1	720945A	&E01+10/96.7	I
+10-TF501.2	B-AXIS meas. system 1 scanning head 2	SENSOR MODULE SMC20 6SL3055-0AA00-5BA3 SINAMICS S120 SENSOR MODULE SMC20 BAUGRUPPE ZUR AUSWERTUNG VON	SIEMENS	1	720945A	&E01+10/97.4	I
+10-TF521	B2-axis motor temperature control	SENSOR MODULE SME120 6SL3055-0AA00-5JA3 SINAMICS INCREMENTAL ENCODER: SIN/COS 1VPP; PTC- UND KTY-EINGÄNGE MIT SET;	SIEMENS	1	391129A	&E01+10/108.5	I
+10-TF611	C-AXIS motor temperature control	TERMINAL MODULE TM120 6SL3055-0AA00-3KA0 6SL3055-0AA00-3KA0	SIEMENS	1	7821443A	&E01+10/99.5	I

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+10-TF611.1	C-Achse Motorgeber	SENSOR MODULE SME 20 6SL3055-0AA00-5EA3 (SINAMICS) INCREMENTAL ENCODER: SIN/COS 1VPP; SCHUTZART IP67; OHNE DRIVE-CLIQ LEITUNG	Siemens AG	1	391201A	&E01+10/100.7	M
+10-TF631	C3-axis motor temperature control	TERMINAL MODULE TM120 6SL3055-0AA00-3KA0 6SL3055-0AA00-3KA0	SIEMENS	1	7821443A	&E01+10/110.4	I
+10-UC55.1	C-AXIS motor terminal box	KLEMMENKASTEN AS 200 (BEARBEITET) *ROLEC	ROLEC	1	369384A	&E01+10/100.0	M
+10-UC55.1-XD610	motor C-axis	KLEMMENKASTEN AS 200 (BEARBEITET) *ROLEC	ROLEC	1	369384A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	REIHENKLEMME WDU 16 BEIGE NR.102040 (1000V, 76A, 16MM2, WEMID/DUNKELBEIGE) !!!WORT FEHLT!!!	WEIDMÜLLER	3	267147A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	REIHENKLEMME WPE 16 1010400000 (...-V, 76A, 16MM2, WEMID/GRUEN-GELB) BEST.-NR.1010400000 *WEIDMUELLER	WEIDMÜLLER	2	267149A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	REIHENKLEMME WDU 2,5 BEIGE NR.102000 (800V, 24A, 2,5MM2, WEMID/DUNKELBEIGE) *WEIDMUELLER	WEIDMÜLLER	1	281112A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	ABSCHLUSSPL. WAP 2,5-10 1050000000 BEST.-NR.105000000 *WEIDMÜLLER	WEIDMÜLLER	1	255643A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	REIHENKLEMME WPE 2.5 1010000000 (800V, 24A, 2,5MM2, WEMID/GRUEN-GELB)	WEIDMÜLLER	1	281114A	&E01+10/100.1	M
+10-UC55.1-XD610	motor C-axis	QUERVERBINDUNG WQV 2,5/ 2 NR.105366 !!!WORT FEHLT!!!	WEIDMÜLLER	1	281115A	&E01+10/100.1	M
+10-WC1	busbar system control cabinet	Einspeisung 35-120 mm² 8US1921-1AA00	SIEMENS	1	7822567A	&E01+10/48.5	CB
+10-WC1	busbar system control cabinet	SAMMELSCHIENENHALTER 3P.UL 8US1923-3UA01 8US1923-3UA01	SIEMENS	6	7822555A	&E01+10/48.5	CB
+10-WC1	busbar system control cabinet	ENDABDECKUNG SCHIENENSYS. 8US1922-1AC00 8US1922-1AC00	SIEMENS	2	7822560A	&E01+10/48.5	CB
+10-WC1	busbar system control cabinet	RESTFELDABDECKUNG 8US1922-2EA00 RESTFELDTRÄGER 32MM FÜR SAMMELSCHIENE N-SYSTEM 60MM	SIEMENS	4	7837866A	&E01+10/48.5	CB
+10-WC1	busbar system control cabinet	RESTFELDABDECKUNG 8US1922-2EB00 8US1922-2EB00	SIEMENS	1	7835790A	&E01+10/48.5	CB

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+10-WC1	busbar system control cabinet	BODENWANNE BREITE 230MM UL 8US1922-2UA01 8US1922-2UA01	SIEMENS	2	7822556A	&E01+10/48.5	CB
+10-WC1	busbar system control cabinet	SAMMELSCHIENENKUPFER 30X5MM 8WC5133 8WC5133	SIEMENS	3	7822557A	&E01+10/48.5	CB
+10-WD88.1	Return oil pump	SUPERFLEX + M (C) PUR 4G1,5 111460.1000 TYP: SUPERFLEX PLUS M (C) PUR 0,6/1kV MANTELFARBE ORANGE, KABEL-$=8,0MM,	LUETZE	1	392472A	&E01+10/74.1	I
+10-WD610	Motor cable C axis work pieces spindle	LEISTUNGSLEITUNG 6FX8008-1BB51-2AA0 (METERWARE 100M, 4X10,0MM2 M.SCHIRM, KABEL-$=19,4MM) *SIEMENS	SIEMENS	1	301611A	&E01+10/100.1	M
+10-WE68.2	PE-line balance	PE-LEITUNG 1 G 10,0 CFPE.100.01 CHAINFLEX TPE 1x10,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	490416A	&E01+10/55.7	
+10-WE82	PE-cable Filter system	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/66.0	M
+10-WE610.1	PE-cable C-AXIS terminal box	PE-LEITUNG 1 G 16,0 CFPE.160.01 CHAINFLEX TPE 1x16,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391380A	&E01+10/100.3	M
+10-WF1	BALANCE - USB-RS485 Converter	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/157.4	I
+10-WF1.1	Profinet SIEMENS PAC3220	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/47.7	I
+10-WF8.1	Network LAN-Modem	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/229.6	I
+10-WF100	DRIVE-CLiQ SINAMICS DOUBLE MOTOR MODULE	DRIVE-CLIQ LEITUNG 6SL3060-4AK00-0AA0 (SINAMICS) LAENGE: 0,31M *SIEMENS	SIEMENS	1	391224A	&E01+10/101.2	I
+10-WF130	Profinet SIDOOR CONTROL DEVICE	ETH. KABEL 2XRJ45 CAT6 3M 6XV1870-3QH30 6XV1870-3QH30 6XV1870-3QH30	SIEMENS	1	7835865A	&E01+10/119.8	I
+10-WF130.1	Profinet SIMATIC NCU <-> SCALANCE X216	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/227.6	I
+10-WF150.1	Profinet SIMATIC NCU <-> SCALANCE X216	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/227.6	I
+10-WF249	Profinet SIMATIC NCU <-> SCALANCE XC208	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/227.1	I

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+10-WF256	System network	PATCHKABEL RJ45 0,5M GRÜN CAT5E HALOGEN RJ45 Patchkab. HRS TM11 SF/UTP Mit DRAKA SF/UTP 300 MHz Kabel	EFB-Elektronik	1	436261A	&E01+10/229.3	I
+10-WF308	DRIVE-CLiQ Cable	DRIVE-CLiQ LEITUNG 6SL3060-4AJ20-0AA0 SINAMICS DRIVE-CLIQ LEITUNG IP20/IP20 L= 2,8M *SIEMENS	SIEMENS	1	7821475A	&E01+10/87.4	I
+10-WF330	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AF10-0AA0 SINAMICS DRIVE-CLIQ LEITUNG IP20/IP20 L= 1,45M *SIEMENS	SIEMENS	1	700514A	&E01+10/120.3	I
+10-WF401	DRIVE-CLIQ Terminal Module TM120	DRIVE-CLIQ LEITUNG 6SL3060-4AA10-0AA0 (SINAMICS) L= 0,95M *SIEMENS	SIEMENS	1	391244A	&E01+10/94.8	I
+10-WF501	DRIVE-CLIQ Terminal Module TM120	DRIVE-CLIQ LEITUNG 6SL3060-4AW00-0AA0 (SINAMICS) L= 1,20M *SIEMENS	SIEMENS	1	391226A	&E01+10/96.8	I
+10-WF501.1	DRIVE-CLIQ Terminal Module TM120	DRIVE-CLIQ LEITUNG 6SL3060-4AA10-0AA0 (SINAMICS) L= 0,95M *SIEMENS	SIEMENS	1	391244A	&E01+10/96.7	I
+10-WF501.11	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AA10-0AA0 (SINAMICS) L= 0,95M *SIEMENS	SIEMENS	1	391244A	&E01+10/92.7	I
+10-WF505	DRIVE-CLIQ DMC20	DRIVE-CLIQ LEITUNG 6SL3060-4AW00-0AA0 (SINAMICS) L= 1,20M *SIEMENS	SIEMENS	1	391226A	&E01+10/97.4	I
+10-WF506	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AD00-0AA0 (SINAMICS) L= 0,16M *SIEMENS	SIEMENS	1	391222A	&E01+10/87.2	I
+10-WF508	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AD00-0AA0 (SINAMICS) L= 0,16M *SIEMENS	SIEMENS	1	391222A	&E01+10/89.2	I
+10-WF520	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AW00-0AA0 (SINAMICS) L= 1,20M *SIEMENS	SIEMENS	1	391226A	&E01+10/107.3	I
+10-WF521	DRIVE-CLiQ Sensor Module SME120	SIGNALLEITUNG 6FX8002-2DC10-1AE0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 4M	SIEMENS	1	391685A	&E01+10/108.8	I
+10-WF610	DRIVE-CLIQ Cable	DRIVE-CLIQ LEITUNG 6SL3060-4AF10-0AA0 SINAMICS DRIVE-CLIQ LEITUNG IP20/IP20 L= 1,45M *SIEMENS	SIEMENS	1	700514A	&E01+10/99.2	I
+10-WF611	DRIVE-CLIQ Terminal Module TM120	DRIVE-CLIQ LEITUNG 6SL3060-4AW00-0AA0 (SINAMICS) L= 1,20M *SIEMENS	SIEMENS	1	391226A	&E01+10/99.8	I
+10-WF611.1	C-AXIS Motor encoder	DRIVE-CLIQ SIGNALLT. 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0	SIEMENS	1	7821533A	&E01+10/100.7	I

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+10-WF631	DRIVE-CLIQ Terminal Module TM120	DRIVE-CLIQ LEITUNG 6SL3060-4AW00-0AA0 (SINAMICS) L= 1,20M *SIEMENS	SIEMENS	1	391226A	&E01+10/110.8	M
+10-WF800	Profinet ET200S	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+10/179.1	I
+10-WF920	PROFINET cable NCU <-> IO link master I	KABEL BCC M414-E834-8G-668-PS54T2-020 VERBINDUNGSKABEL M12 4-POL/STI // RJ45; PUR-KABEL 4x0,34MM2; D= 6,7MM; L= 2,0M	BALLUFF	1	392523A	&E01+10/136.3	I
+10-WF920A	PROFINET cable NCU <-> IO link master I	VERB.-LT.BCC M414-M414-6D-331-PS54N2-003 STECKER M12 AUF STECKER M12 ; GERADE auf GERADE L=0,3M;4-POL; IP67;PUR GESCHIRMT; D= 6,7 MM	BALLUFF	1	448609A	&E01+10/136.8	I
+10-WF999	B axis, radial vibration sensor	ETH. KABEL 2XRJ45 CAT6 3M 6XV1870-3QH30 6XV1870-3QH30 6XV1870-3QH30	SIEMENS	1	7835865A	&E01+10/131.8	I
+10-WG11	BALANCE - USB-RS485 Converter	KABEL 10M WHEEL MASTER 9WM010-0000000 *BALANCE SYSTEMS S.P.A *BALANCE SYSTEMS S.P.A	BALANCE SYSTEMS	1	7834229A	&E01+10/157.8	PU / I
+10-WG74.3	Control cabinet lighting -UC1 / -UC2	ANSCHLUSSLEITUNG SZ 2500.410 AUSFÜHRUNG EINSPEISUNG, 2-POLIG (MIT BUCHSE, OHNE STECKER)	RITTAL	1	459566A	&E01+10/62.1	I
+10-WG74.4	Control cabinet lighting -UC1 / -UC2	ANSCHLUSSLEITUNG SZ 2500.440 AUSFÜHRUNG DURCHGANGSVERDRAHTUNG, 2-POLIG (MIT BUCHSE UND STECKER)	RITTAL	1	459567A	&E01+10/62.1	I
+10-WG99	Fire extinguishing system interface	SUPERFLEX + 3000 PUR 18G0,5 113038 SUPERFLEX PLUS N PUR 300V Ø9,3 mm ART.NR. 113038 *LÜTZE	LUETZE	1	832287A	&E01+10/52.0	M
+10-WG101	X axis, lineal	DRIVE-CLIQ SIGNALLT. 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0	SIEMENS	1	7821533A	&E01+10/102.7	M
+10-WG101.11	X axis, lineal	Signalleitung Verlängerung Motor MS absolut 4 m 6FX8002-2EQ14-1AE0	SIEMENS	1	7834479A	&E01+10/102.7	M
+10-WG201	Y-axis meas. system	DRIVE-CLIQ SIGNALLT. 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0 6FX8002-2DC10-1AD0	SIEMENS	1	7821533A	&E01+10/112.8	M
+10-WG306	BLUM - Measuring probe	ANSCHLUSSKABEL IC 57 *BLUM RUNDSTECKVERBINDER M12x1, LEITUNGSENDE OFFEN 2x0.25 MM2+ 6x0.14 MM2; pur; DMAX=5,9 MM	BLUM	1	456444A	&E01+10/134.2	M
+10-WG505	SINUMERIK NCU inputs / outputs	PUR UL/CSA Kabel geschirmt 14x0,34 mm² 0028904	LAPP	1	7824253A	&E01+10/86.8	I
+10-WG505	SINUMERIK NCU inputs / outputs	SCHIRMANSCHLUSSKLEMME 3 -14MM 3062799 3062799	PHOENIX	1	7834535A	&E01+10/86.8	I

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+10-WG610	Temperature C-axis workpiece spindle	SIGNALLEITUNG 6FX8008-1BD00-2AA0 METERWARE 100M, 3X 2X 0.5+1X 1 C, FÜR TEMPERATURSENSOR, SCHLEPPFÄHIG; UL/CSA;	SIEMENS	1	483008A	&E01+10/100.6	M
+10-WG921	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-020 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	392532A	&E01+10/136.1	I
+10-WG921A	power cable PROFINET	KABEL BCC M415-A315-3L0-762-PX85A5-003 M12x1-BUCHSE, GERADE, 5-POLIG,L-CODIERT 7/8"-STECKER, GERADE, 5-POLIG	BALLUFF	1	490663A	&E01+10/136.1	I
+10-WG922	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-020 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	392532A	&E01+10/136.5	I
+10-WG922A	power cable PROFINET	KABEL BCC M415-A315-3L0-762-PX85A5-003 M12x1-BUCHSE, GERADE, 5-POLIG,L-CODIERT 7/8"-STECKER, GERADE, 5-POLIG	BALLUFF	1	490663A	&E01+10/136.5	I
+10-XD0	Supply for control cabinet	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	REIHENKLEMME 50 MM2 GRAU 285-150 mit CAGE CLAMP Anschluss 1000V; 150A; 10 - 50(70)mm2; Farbe: grau	WAGO	3	392734A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	REIHENKLEMME 50 MM2 BLAU 285-154 mit CAGE CLAMP Anschluss 1000V; 150A; 10 - 50(70)mm2; Farbe: blau	WAGO	1	392735A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	REIHENKLEMME 50 MM2 GN-GE 285-157 mit CAGE CLAMP Anschluss 1000V; 150A; 10 - 50(70)mm2; Farbe: grün-gelb	WAGO	1	392736A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	WARNABDECKUNG GELB M.BLITZ 285-440 für Reihenklemmen 10 - 50(70)mm2; Farbe: gelb Typ: 285-440 *WAGO	WAGO	3	392737A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	FINGERSCHUTZABDECKUNG GELB 285-441 für Hochstromklemmen 50 mm2; Farbe: gelb Typ: 285-441 *WAGO	WAGO	3	392738A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	QUERBRÜCKER 150A ISOL/GRAU 285-450 isoliert; Nennstrom 150A; für Hochstromklemmen 50 mm2; Farbe: grau	WAGO	1	392739A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	POTENZIALABGRIFF 50MM2 285-447 2 x 0,2–6 mm²; AWG 24–10 ; grau 1000V / 8 kV / 3, 41A, *WAGO	WAGO	4	456292A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	REIHENKLEMME ZDU 2.5 BL 1608520000 2,5MM2, WEMID/BLAU BEST.-NR.1608520000 *WEIDMUELLER	WEIDMÜLLER	3	390653A	&E01+10/46.4	I
+10-XD0	Supply for control cabinet	ABSCHLUSSDECKEL ZAP/TW 1 1608740000 ABSCHLUSSDECKEL ZAP/TW 1 BEIGE 1608740000	WEIDMÜLLER	1	7834909A	&E01+10/46.4	I

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+10-XD0	Supply for control cabinet	ENDWINKEL WEW 35/2 BEIGE NR.1061200000 (0,5Nm, BLH= 8,0x56x47mm) *WEIDMUELLER	WEIDMÜLLER	3	262157A	&E01+10/46.4	I
+10-XD22	Supply for AC 230 V (before main breaker)	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/49.2	I
+10-XD25	-XD25 Control panel supply	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.0	I
+10-XD36	-XD36 Hydraulics	6 polig + PE		1	HAN6E_PE	&E01+10/39.2	I
+10-XD36	-XD36 Hydraulics	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.2	M
+10-XD36	-XD36 Hydraulics	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.2	M
+10-XD36	-XD36 Hydraulics	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.2	I
+10-XD36	-XD36 Hydraulics	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.2	I
+10-XD36	-XD36 Hydraulics	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.2	I
+10-XD36	-XD36 Hydraulics	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.2	I
+10-XD36	-XD36 Hydraulics	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.2	M
+10-XD40	-XD40 cooling unit	6 polig + PE		1	HAN6E_PE	&E01+10/39.3	I
+10-XD40	-XD40 cooling unit	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.3	M
+10-XD40	-XD40 cooling unit	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.3	M
+10-XD40	-XD40 cooling unit	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.3	I

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+10-XD40	-XD40 cooling unit	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.3	I
+10-XD40	-XD40 cooling unit	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.3	I
+10-XD40	-XD40 cooling unit	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.3	I
+10-XD40	-XD40 cooling unit	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.3	M
+10-XD74.3	illumination control cabinet	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/62.2	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	6 polig + PE		1	HAN6E_PE	&E01+10/39.4	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.4	M
+10-XD75.1	-XD75.1 column-mounted slewing crane	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.4	M
+10-XD75.1	-XD75.1 column-mounted slewing crane	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.4	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.4	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.4	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.4	I
+10-XD75.1	-XD75.1 column-mounted slewing crane	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.4	M
+10-XD83	-XD83 Oil mist collector	6 polig + PE		1	HAN6E_PE	&E01+10/39.6	I
+10-XD83	-XD83 Oil mist collector	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.6	M

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+10-XD83	-XD83 Oil mist collector	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.6	M
+10-XD83	-XD83 Oil mist collector	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.6	I
+10-XD83	-XD83 Oil mist collector	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.6	I
+10-XD83	-XD83 Oil mist collector	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.6	I
+10-XD83	-XD83 Oil mist collector	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.6	I
+10-XD83	-XD83 Oil mist collector	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.6	M
+10-XD88	-XD88 Return oil pump	6 polig + PE		1	HAN6E_PE	&E01+10/39.8	I
+10-XD88	-XD88 Return oil pump	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.8	M
+10-XD88	-XD88 Return oil pump	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.8	M
+10-XD88	-XD88 Return oil pump	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.8	I
+10-XD88	-XD88 Return oil pump	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.8	I
+10-XD88	-XD88 Return oil pump	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.8	I
+10-XD88	-XD88 Return oil pump	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.8	I
+10-XD88	-XD88 Return oil pump	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.8	M
+10-XD99	-XG99 fire extinguishing system interface	6 polig + PE		1	HAN6E_PE	&E01+10/39.1	I

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+10-XD99	-XG99 fire extinguishing system interface	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.1	M
+10-XD99	-XG99 fire extinguishing system interface	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.1	M
+10-XD99	-XG99 fire extinguishing system interface	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.1	I
+10-XD99	-XG99 fire extinguishing system interface	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.1	I
+10-XD99	-XG99 fire extinguishing system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/39.1	I
+10-XD99	-XG99 fire extinguishing system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/39.1	I
+10-XD99	-XG99 fire extinguishing system interface	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.1	M
+10-XD99.1	safety switch	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/52.2	I
+10-XD101	power supply 230VAC	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/60.0	I
+10-XD102	Control cabinet socket	SCHUKO-STECKDOSE 16A GRAU 5TE6800 SCHUKO-STECKDOSE 16A GRAU NACH DIN VDE 0620 FÜR VERTEILEREINBAU	SIEMENS	1	459595A	&E01+10/61.1	I
+10-XD102.1	-XD102.1 disengagement Sealing air	6 polig + PE		1	HAN6E_PE	&E01+10/39.8	I
+10-XD102.1	-XD102.1 disengagement Sealing air	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.8	M
+10-XD102.1	-XD102.1 disengagement Sealing air	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.8	M
+10-XD102.1	-XD102.1 disengagement Sealing air	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.8	I
+10-XD102.1	-XD102.1 disengagement Sealing air	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.8	I

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+10-XD102.1	-XD102.1 disengagement Sealing air	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.8	I
+10-XD102.1	-XD102.1 disengagement Sealing air	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.8	I
+10-XD102.1	-XD102.1 disengagement Sealing air	KABELVERSHR TOP-TR M20x1,5 6 - 12MM (6 - 12MM) ART.-NR.:600781 *LÜTZE	LÜTZE	1	391162A	&E01+10/39.8	M
+10-XD103	Control cabinet socket	SCHUKO-STECKDOSE 16A GRAU 5TE6800 SCHUKO-STECKDOSE 16A GRAU NACH DIN VDE 0620 FÜR VERTEILEREINBAU	SIEMENS	1	459595A	&E01+10/61.4	I
+10-XD302	2.brake Z-axis	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/106.3	I
+10-XD302.1	brake Z-axis disengage	COMBICON-STECKBLOCK 2 POL.5,08 MVSTBU 2.5/2 GFB,no:1788347 MVSTBU 2.5/2 GFB,no:1788347	PHOENIX	1	7825857A	&E01+10/105.0	I
+10-XD302.1	brake Z-axis disengage	COMBICON-STIFTLEISTE 2POL.5,08 screw-on, no: 18 63 63 1	PHOENIX	1	7825858A	&E01+10/105.0	I
+10-XD302.2	Z-axis brake 1 disengage	COMBICON-STECKBLOCK 2 POL.5,08 MVSTBU 2.5/2 GFB,no:1788347 MVSTBU 2.5/2 GFB,no:1788347	PHOENIX	1	7825857A	&E01+10/105.7	I
+10-XD302.2	Z-axis brake 1 disengage	COMBICON-STIFTLEISTE 2POL.5,08 screw-on, no: 18 63 63 1	PHOENIX	1	7825858A	&E01+10/105.7	I
+10-XD400	Unclamping A axis valve 1	COMBICON-STECKBLOCK 2 POL.5,08 MVSTBU 2.5/2 GFB,no:1788347 MVSTBU 2.5/2 GFB,no:1788347	PHOENIX	1	7825857A	&E01+10/95.0	I
+10-XD400	Unclamping A axis valve 1	COMBICON-STIFTLEISTE 2POL.5,08 screw-on, no: 18 63 63 1	PHOENIX	1	7825858A	&E01+10/95.0	I
+10-XD505	NCU inputs/outputs	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/86.8	I
+10-XD813.1	A-axis Unclamping	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/95.7	I
+10-XD-	supply control cabinet 24 V -	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/77.0	I
+10-XF249	Switch Anlagennetz	SCALANCE XC208 6GK5208-0BA00-2AC2 8 X 10/100MBIT;LED-DIAGNOSE, 1x KONSOLENPORT, 8x 10/100 MBIT/S RJ45-PORTS,	SIEMENS	1	480729A	&E01+10/227.1	I

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+10-XF251	Switch Profinet	SCALANCE XC216 6GK5216-0BA00-2AC2 MANAGEBARER LAYER 2 IE SWITCH; 16 X 10/100MBIT/S RJ45-PORTS; 1 X KONSOLEN-PORT, DIAGNOSE- LED;	SIEMENS	1	483671A	&E01+10/227.7	I
+10-XF251	Switch Profinet	C-PLUG WECHSELMEDIUM 6GK1900-0AB00 ZUM EINFACHEN TAUSCH D.GERAETE I.FEHLERFALL ZUR AUFNAHME V.KONFIGURATIONS- BZW.	SIEMENS	1	436248A	&E01+10/227.7	I
+10-XF920	PROFINET IO-Link master 1	IO-LINK MASTER AL1402 MIT PROFINET-SCHNITTSTELLE 16 EIN- UND AUSGÄNGE (KONFIGURIERBAR)	IFM	1	490660A	&E01+10/136.1	M
+10-XF920A	PROFINET IO-Link Master 1.1	IO-LINK MASTER AL1402 MIT PROFINET-SCHNITTSTELLE 16 EIN- UND AUSGÄNGE (KONFIGURIERBAR)	IFM	1	490660A	&E01+10/136.5	M
+10-XG8	-XG8 C1 axis, bearing temperature monitoring	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG8.1	LAN- MODEM	BUCHSENEINSATZ RJ45 Bu/Bu VS-8-BU-RJ45/BU	PHOENIX	1	7824924A	&E01+10/229.6	I
+10-XG8.1	LAN- MODEM	ANBAURAHMEN RJ45 1-FACH VS-8-A-RJ45/MOD-1-IP67 VS-8-A-RJ45/MOD-1-IP67	PHOENIX	1	7824923A	&E01+10/229.6	I
+10-XG8.2	Corporate network	BUCHSENEINSATZ RJ45 Bu/Bu VS-8-BU-RJ45/BU	PHOENIX	1	7824924A	&E01+25/232.9	I
+10-XG8.2	Corporate network	ANBAURAHMEN RJ45 1-FACH VS-8-A-RJ45/MOD-1-IP67 VS-8-A-RJ45/MOD-1-IP67	PHOENIX	1	7824923A	&E01+25/232.9	I
+10-XG10	-XG10 B axis, bearing temperature monitoring	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG11	-XG11 B-AXIS sensor orientation grinding wheel	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG20	-XG20 Z1 axis counter support 1 vibration sensor	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG22	-XG22 B axis, axial vibration sensor	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG23	-XG23 B axis, radial vibration sensor	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.0	I
+10-XG35	-XG35 Central lubrication	6 polig + PE		1	HAN6E_PE	&E01+10/39.0	I

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+10-XG35	-XG35 Central lubrication	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.0	M
+10-XG35	-XG35 Central lubrication	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.0	M
+10-XG35	-XG35 Central lubrication	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.0	I
+10-XG35	-XG35 Central lubrication	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.0	I
+10-XG35	-XG35 Central lubrication	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.0	I
+10-XG35	-XG35 Central lubrication	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.0	I
+10-XG35	-XG35 Central lubrication	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.0	M
+10-XG35.2	-XG35.2 sealing air shut-off	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG40	-XG40 cooling unit 1 interface	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG75	-XG75 working chamber lighting	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG75.1	-XG75.1 door switch with locking system on operating side	24 polig + PE		1	HAN24E_PE	&E01+10/39.0	I
+10-XG75.1	-XG75.1 door switch with locking system on operating side	STECKEREINSATZ 09.33.024.2601 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097531A	&E01+10/39.0	M
+10-XG75.1	-XG75.1 door switch with locking system on operating side	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/39.0	M
+10-XG75.1	-XG75.1 door switch with locking system on operating side	ANSCHLUSSVERT. 09.33.024.4725 HAN E AV 24POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304515A	&E01+10/39.0	I
+10-XG75.1	-XG75.1 door switch with locking system on operating side	ANBAUGEHÄUSE 09.30.024.0301 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform	HARTING	1	132586A	&E01+10/39.0	I

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+10-XG75.1	-XG75.1 door switch with locking system on operating side	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	4	302611A	&E01+10/39.0	I
+10-XG75.1	-XG75.1 door switch with locking system on operating side	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	4	302612A	&E01+10/39.0	I
+10-XG75.1	-XG75.1 door switch with locking system on operating side	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.0	M
+10-XG75.3	-XG75.2 deflagration flap monitoring	EINBAUBUCHSE EC-FKFD4.5-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG M12X1 GEWINDE MIT LITZE(UL)5X0,34MM² LÄNGE 3,00 M	ESCHA	1	456285A	&E01+10/40.0	I
+10-XG82	-XG82 filter system interface	24 polig + PE		1	HAN24E_PE	&E01+10/39.2	I
+10-XG82	-XG82 filter system interface	STECKEREINSATZ 09.33.024.2601 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097531A	&E01+10/39.2	M
+10-XG82	-XG82 filter system interface	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/39.2	M
+10-XG82	-XG82 filter system interface	ANSCHLUSSVERT. 09.33.024.4725 HAN E AV 24POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304515A	&E01+10/39.2	I
+10-XG82	-XG82 filter system interface	ANBAUGEHÄUSE 09.30.024.0301 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform	HARTING	1	132586A	&E01+10/39.2	I
+10-XG82	-XG82 filter system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.2	M
+10-XG82	-XG82 filter system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	3	302612A	&E01+10/39.2	M
+10-XG82	-XG82 filter system interface	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.2	M
+10-XG83	-XG83 oil mist collector	6 polig + PE		1	HAN6E_PE	&E01+10/39.5	I
+10-XG83	-XG83 oil mist collector	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.5	M
+10-XG83	-XG83 oil mist collector	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.5	M

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+10-XG83	-XG83 oil mist collector	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.5	I
+10-XG83	-XG83 oil mist collector	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.5	I
+10-XG83	-XG83 oil mist collector	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.5	I
+10-XG83	-XG83 oil mist collector	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.5	I
+10-XG83	-XG83 oil mist collector	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.5	M
+10-XG99	-XG99 fire extinguishing system interface	24 polig + PE		1	HAN24E_PE	&E01+10/39.3	I
+10-XG99	-XG99 fire extinguishing system interface	STECKEREINSATZ 09.33.024.2601 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097531A	&E01+10/39.3	M
+10-XG99	-XG99 fire extinguishing system interface	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/39.3	M
+10-XG99	-XG99 fire extinguishing system interface	ANSCHLUSSVERT. 09.33.024.4725 HAN E AV 24POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304515A	&E01+10/39.3	I
+10-XG99	-XG99 fire extinguishing system interface	ANBAUGEHÄUSE 09.30.024.0301 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform	HARTING	1	132586A	&E01+10/39.3	I
+10-XG99	-XG99 fire extinguishing system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.3	I
+10-XG99	-XG99 fire extinguishing system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.3	I
+10-XG99	-XG99 fire extinguishing system interface	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.3	M
+10-XG100	-XG100 working chamber lighting loading	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG100.1	XG100.1 swivel loader door at front	EINBAUBUCHSE SACCBP-FS-8CON-M16/2,0- PUR SCO (Einbaubuchse geschirmt M12 8-pol. A-codiert;	PHOENIX	1	448206A	&E01+10/40.5	I

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+10-XG100.2	XG100.2 swivel loader door at rear	EINBAUBUCHSE SACCBP-FS-8CON-M16/2,0- PUR SCO (Einbaubuchse geschirmt M12 8-pol. A-codiert;	PHOENIX	1	448206A	&E01+10/40.5	I
+10-XG100.3	XG100.3 service door closed	EINBAUBUCHSE SACCBP-FS-8CON-M16/2,0- PUR SCO (Einbaubuchse geschirmt M12 8-pol. A-codiert;	PHOENIX	1	448206A	&E01+10/40.5	I
+10-XG101	-XG101 working chamber lighting intermediate storage	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG101.1	-XG101.1-loading door	24 polig + PE		1	HAN24E_PE	&E01+10/39.4	I
+10-XG101.1	-XG101.1-loading door	STECKEREINSATZ 09.33.024.2601 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097531A	&E01+10/39.4	M
+10-XG101.1	-XG101.1-loading door	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/39.4	M
+10-XG101.1	-XG101.1-loading door	ANSCHLUSSVERT. 09.33.024.4725 HAN E AV 24POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304515A	&E01+10/39.4	I
+10-XG101.1	-XG101.1-loading door	ANBAUGEHÄUSE 09.30.024.0301 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform	HARTING	1	132586A	&E01+10/39.4	I
+10-XG101.1	-XG101.1-loading door	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.4	I
+10-XG101.1	-XG101.1-loading door	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.4	I
+10-XG101.1	-XG101.1-loading door	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.4	M
+10-XG101.2	-XG101.2 loading door connecting block	6 polig + PE		1	HAN6E_PE	&E01+10/39.6	I
+10-XG101.2	-XG101.2 loading door connecting block	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.6	M
+10-XG101.2	-XG101.2 loading door connecting block	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.6	M
+10-XG101.2	-XG101.2 loading door connecting block	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.6	I

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+10-XG101.2	-XG101.2 loading door connecting block	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.6	I
+10-XG101.2	-XG101.2 loading door connecting block	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/39.6	I
+10-XG101.2	-XG101.2 loading door connecting block	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	3	302612A	&E01+10/39.6	I
+10-XG101.2	-XG101.2 loading door connecting block	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/39.6	M
+10-XG102	-XG102 external loading device	24 polig + PE		1	HAN24E_PE	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	STECKDOSENEINS. 09.33.024.2701 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097530A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	Anschlußverteiler 09 33 024 4625 Han E AV 24pol+PE, St-Links 16A/400V~ (600V~ UL/CSA)	HARTING	1	335442A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	ANBAUGEHÄUSE 09.30.024.0301 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform	HARTING	1	132586A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	4	302611A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	4	302612A	&E01+10/39.5	I
+10-XG102	-XG102 external loading device	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.5	I
+10-XG103	-XG103 external loading device	16 polig + PE		1	HAN16E_PE	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	STECKEREINSATZ 09.33.016.2601 HAN 16 E 16POL+PE,16A/380V AC *HARTING	HARTING	1	097534A	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	TÜLLENGEHÄUSE 19.30.016.1521 *HARTING	HARTING	1	353510A	&E01+10/39.6	I

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+10-XG103	-XG103 external loading device	ANSCHLUSSVERT. 09.33.016.4725 HAN E AV 16POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304514A	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	ANBAUGEHÄUSE 09.30.016.0301 *HARTING	HARTING	1	101758A	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	4	302611A	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	4	302612A	&E01+10/39.6	I
+10-XG103	-XG103 external loading device	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/39.6	I
+10-XG112	-XG112 control panel signals	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.6	I
+10-XG112	-XG112 control panel signals	MPV EINSATZ M23 BU 4000-69000-1600000 Modlink MPV Datensteckverbindereinsatz M23 (19-polig Buchse), Einzelader 3m	MURRELEKTRONIK	1	7834954A	&E01+10/41.6	I
+10-XG113	-XG113 control panel signals	MPV EINSATZ M23 BU 4000-69000-1600000 Modlink MPV Datensteckverbindereinsatz M23 (19-polig Buchse), Einzelader 3m	MURRELEKTRONIK	1	7834954A	&E01+10/41.0	I
+10-XG114	-XG114 control panel signals	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.6	I
+10-XG114	-XG114 control panel signals	MPV EINSATZ M23 BU 4000-69000-1600000 Modlink MPV Datensteckverbindereinsatz M23 (19-polig Buchse), Einzelader 3m	MURRELEKTRONIK	1	7834954A	&E01+10/41.6	I
+10-XG115	-XG115 control panel signals	MPV EINSATZ M23 BU 4000-69000-1600000 Modlink MPV Datensteckverbindereinsatz M23 (19-polig Buchse), Einzelader 3m	MURRELEKTRONIK	1	7834954A	&E01+10/41.0	I
+10-XG116	-XG116 grinding wheel step switch	MPV EINSATZ M23 BU 4000-69000-1600000 Modlink MPV Datensteckverbindereinsatz M23 (19-polig Buchse), Einzelader 3m	MURRELEKTRONIK	1	7834954A	&E01+10/41.0	I
+10-XG116	-XG116 grinding wheel step switch	MPV EINBAURAHMEN 4000-69212-0000000 1-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 6(35x52mm), IP65	MURRELEKTRONIK	1	459584A	&E01+10/41.0	I
+10-XG300	-XG300 workpiece clamping device C1 nominal value	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.5	I
+10-XG302	-XG302 2.Brake Z axis	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I

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+10-XG600	-XG600 Head dresser in basic position	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG601	-XG601 Head dresser in working position	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG602	-XG602 valve Head dresser to working position	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.0	I
+10-XG812.2	-XG812.2 release pneumatic movements	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG813.1	-XG813.1 unclamping A axis valve 1	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG813.2	-XG813.2 unclamping A axis valve 2	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG814	-XG814 release undo tool clamping device	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG900	-XG900 24VDC valve terminal	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.6	I
+10-XG900	-XG900 24VDC valve terminal	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.6	I
+10-XG902.3	-XG902.3 sealing air shut-off	6 polig + PE		1	HAN6E_PE	&E01+10/39.7	I
+10-XG902.3	-XG902.3 sealing air shut-off	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/39.7	M
+10-XG902.3	-XG902.3 sealing air shut-off	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/39.7	M
+10-XG902.3	-XG902.3 sealing air shut-off	ANSCHLUSSVERT. 09.33.006.4725 HAN E AV 6POL+PE BU -LI, 16A/400V (UL/CSA 600V AC) *HARTING	HARTING	1	304512A	&E01+10/39.7	I
+10-XG902.3	-XG902.3 sealing air shut-off	ANBAUGEHÄUSE 09.30.006.0301 *HARTING	HARTING	1	097552A	&E01+10/39.7	I
+10-XG902.3	-XG902.3 sealing air shut-off	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/39.7	I

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+10-XG902.3	-XG902.3 sealing air shut-off	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/39.7	I
+10-XG902.3	-XG902.3 sealing air shut-off	KABELVERSHR TOP-TR M20x1,5 6 - 12MM (6 - 12MM) ART.-NR.:600781 *LÜTZE	LÜTZE	1	391162A	&E01+10/39.7	M
+10-XG905.1	-XG905.1 valve gripper 1	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG905.2	-XG905.2 valve gripper 1	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG906.1	-XG906.1 valve gripper 2	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG906.2	-XG906.2 valve gripper 2	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/40.5	I
+10-XG911	-XG911 24VDC IO link master hydraulics	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.6	I
+10-XG912	-XG912 24VDC IO link master hydraulics	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.0	I
+10-XG912	-XG912 24VDC IO link master hydraulics	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.0	I
+10-XG920	-XG920 gap finding sensor C1 axis	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.5	I
+10-XG920.32	-XG920.32 tool clamping fixture position actual value	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/41.0	I
+10-XG921	-XG921 24VDC IO link master machine	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.6	I
+10-XG922	-XG922 24VDC IO link master machine	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.0	I
+10-XG922	-XG922 24VDC IO link master machine	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.0	I
+10-XG930	-XG930 gap finding sensor C2 axis	EINBAUBUCHSE EC-FKFDS4.5-3/16/S370 M12X1 FLANSCH KUPPLUNG AXIAL 5-POLIG;OFFENES ENDE GESCHIRMT PUR(UL) SCHWARZ LÄNGE 3,00 M	ESCHA	1	456283A	&E01+10/40.5	I

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+10-XG931	-XG931 24VDC IO link master cooling	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.6	I
+10-XG932	-XG932 24VDC IO link master cooling	MPV EINBAURAHMEN 4000-69222-0000000 2-FACH(30°-ABGANG) FÜR NORMAUSSCHNITT, BAUGRÖßE 24(35x112mm), IP65	MURRELEKTRONIK	1	390903A	&E01+10/41.0	I
+10-XG932	-XG932 24VDC IO link master cooling	MPV EINS. 7/8"BUCHSE 4000-69000-2000000 MPV STECKVERBINDEREINSATZ 7/8"(BUCHSE) / FEDERKRAFTKLEMME; IP65	MURRELEKTRONIK	1	391337A	&E01+10/41.0	I
+10-XG940	-XG940 level leakage oil collector pan	EINBAUBUCHSE EC-FKFD4-3/16 M12X1 FLANSCH KUPPLUNG AXIAL 4-POLIG M16X1,5 GEWINDE MIT LITZE(UL)4X0,34MM² LÄNGE 3,00 M	ESCHA	1	456284A	&E01+10/41.0	I
+25-FA1	operating control unit	ADAPTERPLATTE CP120 *ROSE AUF RÜCKWAND SL1000 RAL 9005 MATT FEINSTRUKTUR	ROSE	1	459638A	&E01+25/231.1	PU
+25-FA1	operating control unit	KUPPLUNG CP 120 SONDER *RITTAL FÜR TRAGARMANSCHLUSS 130MM RAL 9005 MATT, STRUKTURLACK	RITTAL	1	459518A	&E01+25/231.1	PU
+25-FA1	operating control unit	TRAGPROFIL SYS. 60_120_180 SOND. *RITTAL RAL 9005 MATT, STRUKTURLACK ART.-NR.:6203009	RITTAL	1	459519A	&E01+25/231.1	PU
+25-FA1	operating control unit	WINKELSTÜCK 90 GRD CP 120 SOND. *RITTAL RAL 9005 MATT, STRUKTURLACK ART.-NR.:6212609	RITTAL	1	459520A	&E01+25/231.1	PU
+25-FA1	operating control unit	WANDGELENK CP120 SONDER *RITTAL RAL 9005 MATT, STRUKTURLACK ART.-NR.:6212749	RITTAL	1	459521A	&E01+25/231.1	PU
+25-KF251	IPC427E	SIMATIC BOX IPC427E 6AG4141-5AB17-0FA0 SIMATIC IPC427E (MICROBOX PC), HD GRAFIK ONBOARD, 4 X USB V3.0 (HIGH CURRENT), PCIE (OPTIONAL),	SIEMENS	1	483548A	&E01+25/232.2	PU
+25-KF251	IPC427E	MONTAGESET HUTSCHIENE 6ES7648-1AA21-0YM0 SIMATIC IPC, MONTAGE-SET HUTSCHIENE FÜR MICROBOX IPC427E	SIEMENS	1	480811A	&E01+25/232.2	PU
+25-PF504	System On	LED-LAMPE WEISS DC24V 3SB3901-1UB 3SB3901-1UB	SIEMENS	1	7822679A	&E01+25/236.4	PU
+25-PF505	System Off	LED-LAMPE WEISS DC24V 3SB3901-1UB 3SB3901-1UB	SIEMENS	1	7822679A	&E01+25/236.5	PU
+25-PH250	monitor	TFT-DISPLAY 6AV6646-1BA18-0NA0 SIMATIC ITC1900 V3, INDUSTRIAL THIN CLIENT, 19" WIDESCREEN-TFT-DISPLAY, KAPAZITIVER TOUCHSENSOR, UNTERSTÜTZTE PROTOKOLLE: RDP, VNC, SMARTSERVER	SIEMENS	1	7837832A	&E01+25/232.1	PU
+25-SF1	keyboard	TASTATUR G84-4400LUBEU-2 *CHERRY USB SLIMLINE M.INTEGR.TRACKBALL, US-TASTATUR MIT -SYMBOL, SCHWARZ	CHERRY	1	391260A	&E01+25/232.8	PU

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+25-SF11	Set up channel 1 (MSO2)	SCHLÜSSELSCHALTER 3SU1000-5BF01-0AA0 CES, 22MM, RUND, KUNSTSTOFF, SCHLIESS-NR. SSG10, MIT 2 SCHLUESSELN, 2 SCHALTSTELLUNGEN O-I,	SIEMENS	1	459822A	&E01+10/182.5	PU
+25-SF11	Set up channel 1 (MSO2)	KONTAKTMODUL 3SU1400-1AA10-1DA0 2S SCHRAUBANSCHLUSS, FRONTPLATTENBEFESTIGUNG *SIEMENS	SIEMENS	1	459764A	&E01+10/182.5	PU
+25-SF11	Set up channel 1 (MSO2)	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/182.5	PU
+25-SF11	Set up channel 1 (MSO2)	HALTER 3SU1500-0AA10-0AA0 (KUNSTSTOFF) HALTER FÜR 3 MODULE (KONTAKTMODULE) *SIEMENS	SIEMENS	1	459771A	&E01+10/182.5	PU
+25-SF20	pushbutton agreement	DRUCKTASTER 3SU1000-0AB10-0AA0 (SCHWARZ) 22MM, RUND, KUNSTSTOFF, DRUCKTASTER, FLACH, TASTEND, SCHWARZ	SIEMENS	1	459814A	&E01+10/183.1	PU
+25-SF20	pushbutton agreement	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/183.1	PU
+25-SF20	pushbutton agreement	KONTAKTMODUL 3SU1400-1AA10-1DA0 2S SCHRAUBANSCHLUSS, FRONTPLATTENBEFESTIGUNG *SIEMENS	SIEMENS	1	459764A	&E01+10/183.1	PU
+25-SF20	pushbutton agreement	HALTER 3SU1500-0AA10-0AA0 (KUNSTSTOFF) HALTER FÜR 3 MODULE (KONTAKTMODULE) *SIEMENS	SIEMENS	1	459771A	&E01+10/183.1	PU
+25-SF21	pushbutton move -	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/183.8	PU
+25-SF21	pushbutton move -	KONTAKTMODUL 3SU1400-1AA10-1DA0 2S SCHRAUBANSCHLUSS, FRONTPLATTENBEFESTIGUNG *SIEMENS	SIEMENS	1	459764A	&E01+10/183.8	PU
+25-SF21	pushbutton move -	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/183.8	PU
+25-SF22	pushbutton move +	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/183.5	PU
+25-SF22	pushbutton move +	KONTAKTMODUL 3SU1400-1AA10-1DA0 2S SCHRAUBANSCHLUSS, FRONTPLATTENBEFESTIGUNG *SIEMENS	SIEMENS	2	459764A	&E01+10/183.5	PU
+25-SF22	pushbutton move +	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/183.5	PU
+25-SF252	Emergency stop circuit	MASCHINENSTEUERTAFEL 6FC5303-0AF25-0AA0 MCP 398C INDUSTRIAL ETHERNET;BREITE 398MM MECHANISCHE TASTEN;22MM NOT-HALT	SIEMENS	1	459960A	&E01+25/234.0	PU

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+25-SF252	Emergency stop circuit	ERWEITERUNGSMODUL 6FC5303-0AF30-0AA0 BREITE 66 MM, FÜR MCP 398 BEFESTIGUNG MIT SPANNERN MIT BIS ZU 4 EINBAUPLÄTZE FÜR	SIEMENS	1	459961A	&E01+25/234.0	PU
+25-SF504	pushbutton System On	DRUCKTASTER GRÜN 24V 1S 3SB2206-0AE01 3SB2206-0AE01 1S	SIEMENS	1	7822681A	&E01+25/235.4	PU
+25-SF505	pushbutton System off	DRUCKTASTER ROT 24V 1Ö 3SB2207-0AC01 3SB2207-0AC01 Pressure switch	SIEMENS	1	7822680A	&E01+25/235.5	PU
+25-SF514	gripper 1 open	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.1	PU
+25-SF514	gripper 1 open	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.1	PU
+25-SF515	gripper 1 close	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.2	PU
+25-SF515	gripper 1 close	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.2	PU
+25-SF516	gripper 2 open	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.3	PU
+25-SF516	gripper 2 open	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.3	PU
+25-SF517	gripper 2 close	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.4	PU
+25-SF517	gripper 2 close	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.4	PU
+25-SF518	swivel loader doors open	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.5	PU
+25-SF518	swivel loader doors open	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.5	PU
+25-SF519	swivel loader doors close	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.6	PU
+25-SF519	swivel loader doors close	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.6	PU

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+25-SF520	workpiece 1 clamping	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.7	PU
+25-SF520	workpiece 1 clamping	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.7	PU
+25-SF521	workpiece 1 disengage	LEUCHTDRUCKTASTER 3SU1102-0AB70-1FAO Leuchtdrucktaster, 22 mm, rund, Kunststoff, klar, Druckknopf, flach, tastend, mit Halter, 1S+1Ö, LED-Modul mit integrierter LED AC/DC	SIEMENS	1	7835420A	&E01+10/209.8	PU
+25-SF521	workpiece 1 disengage	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+10/209.8	PU
+25-SH1	handwheel	ELEKTRON.HANDRAD 6FC9320-5DC01 FRONTPLATTE 76,2X76,2MM 5V DC SIGNALPEGEL: RS422 (TTL)	SIEMENS	1	306464A	&E01+25/234.6	PU
+25-WD25	Supply SIMATIC IPC & Multitouch Panel	PUR-KABEL 3x1,5qmm UL/CSA 12496	HELUKABEL	1	7824232A	&E01+25/232.1	PU / I
+25-WD25	Supply SIMATIC IPC & Multitouch Panel	STECKVERBINDER STIFTE 7/8" 6GK1905-0FA00 6GK1905-0FA00	SIEMENS	1	7821259A	&E01+25/232.1	PU / I
+25-WE25	PE-line SIMATIC IPC & control panel	PE-LEITUNG 1 G 16,0 CFPE.160.01 CHAINFLEX TPE 1x16,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391380A	&E01+25/232.3	PU / I
+25-WF8.2	Network cable	ETH. KABEL 2XRJ45 CAT6 10M 6XV1870-3QN10 6XV1870-3QN10 6XV1870-3QN10	SIEMENS	1	7821523A	&E01+25/232.8	PU
+25-WF27.2	USB extension	USB-VERLÄNGERUNG A-A ST/BU WEISS 0,8M 1199.8946	SECOMP	1	7834274A	&E01+25/232.5	PU
+25-WF250	Profinet cable	ETH. KABEL 2XRJ45 CAT6 0,5m 6XV1870-3QE5 6XV1870-3QE50 *SIEMENS	SIEMENS	1	459586A	&E01+25/232.4	PU
+25-WF250.8	USB extension	USB-VERLÄNGERUNG A-A ST/BU WEISS 0,8M 1199.8946	SECOMP	1	7834274A	&E01+25/232.7	PU
+25-WF251.1	Profinet cable	ETH. KABEL 2XRJ45 CAT6 2M 6XV1870-3QH20 6XV1870-3QH20 6XV1870-3QH20	SIEMENS	1	7821521A	&E01+25/232.3	PU
+25-WF252	Network cable	ETH. KABEL 2XRJ45 CAT6 10M 6XV1870-3QN10 6XV1870-3QN10 6XV1870-3QN10	SIEMENS	1	7821523A	&E01+25/234.1	PU / I
+25-WG25.2	Control panel safety inputs	PUR-KABEL 18X0,34 NR.0028905 0028905	LAPP	1	7824126A	&E01+10/182.3	PU / I

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+25-WG25.2	Control panel safety inputs	STECKER M23 - CA - 19P1N1280DN-1619751 Kabelsteckverbinder, gerade, geschirmt, Schraubverriegelung, M23, Polzahl: 16+3,	PHOENIX	1	7834955A	&E01+10/182.3	PU / I
+25-WG25.3	Interface control panel	PUR-KABEL 18X0,34 NR.0028905 0028905	LAPP	1	7824126A	&E01+10/209.1	PU / I
+25-WG25.3	Interface control panel	STECKER M23 - CA - 19P1N1280DN-1619751 Kabelsteckverbinder, gerade, geschirmt, Schraubverriegelung, M23, Polzahl: 16+3,	PHOENIX	1	7834955A	&E01+10/209.1	PU / I
+25-WG25.4	Control panel safety inputs	PUR-KABEL 18X0,34 NR.0028905 0028905	LAPP	1	7824126A	&E01+10/183.1	PU / I
+25-WG25.4	Control panel safety inputs	STECKER M23 - CA - 19P1N1280DN-1619751 Kabelsteckverbinder, gerade, geschirmt, Schraubverriegelung, M23, Polzahl: 16+3,	PHOENIX	1	7834955A	&E01+10/183.1	PU / I
+25-WG25.7	MSR, handwheel	SIGNALLEITUNG 6FX8002-2CP00-1AB0 L=1,0M (MCP483<(><<)>->HANDRAD) *SIEMENS	SIEMENS	1	391761A	&E01+25/234.6	PU
+25-WG99.511	Fire extinguishing system manual release	ANSCHLUSSLEIT. AL-WASS4-10/S370 STECKER M12X1 AXIAL, GESCHIRMT, 4POL, 10M PUR-KABEL, OFFENES KABELENDE	ESCHA	1	459507A	&E01+10/51.4	PU / I
+25-WG252.1	machine control panel	UNITRONIC LIYY-KABEL 20X0,25 AUSSEN-Ø 8.60 MM,FLAMMWIDRIG,50V,PVC, ADERIDENTCODE DIN 47100,NICHT KETTENTAUGLICH	LAPP	1	483398A	&E01+25/235.1	PU
+25-XD25	supply operat. panel	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+25/232.0	I
+25-XD112	inputs operat. panel	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/182.2	I
+25-XD113	Inputs control panel	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/209.1	I
+25-XG1	USB-RS485 Converter	VM25 HMI V11 WIN USB+DOC 9HMVM2511USWP0 VM25 lokale Kommunikationsschnittstelle USB-RS485 Adapter	BALANCE SYSTEMS	1	7834228A	&E01+25/232.5	PU
+25-XG10	USB connection point	USB-KABEL M.WANDANSCHLUSS SZ 2482.220 (Innen: St-A / Wandanschluss: Bu-A; L= 1m; IP66/67 bei geschlossener Schutzkappe)	RITTAL	1	390780A	&E01+25/232.7	PU
+25-XG10	USB connection point	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+25/232.7	PU
+25-XG10.1	USB connection point	USB-KABEL M.WANDANSCHLUSS SZ 2482.220 (Innen: St-A / Wandanschluss: Bu-A; L= 1m; IP66/67 bei geschlossener Schutzkappe)	RITTAL	1	390780A	&E01+25/232.7	PU

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+25-XG10.1	USB connection point	SCHILDTRÄGER 3SU1900-0AS10-0AA0 RAHMEN UNTEN ABGERUNDET, SCHWARZ F.BEZEICHNUNGSSCHILD 17,5 X 27MM	SIEMENS	1	459755A	&E01+25/232.7	PU
+35-WG602	release Head dresser to working position	VERB.-LEITG.AL-WWAKS4-13-AL-WASS4/S370 M12 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448401A	&E01+10/191.1	M
+35-WG812.1	Pneumatics main pressure On	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/164.1	M
+35-WG812.2	Release pneumatic movements	VERB.-LEITG.AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/188.5	M
+35-WG814	Release undo tool clamping device	VERB.-LEITG.AL-WAKS4-13-AL-WASS4/S370 M12X1; 4POL; 13,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	362396A	&E01+10/188.7	M
+35-WG902.3	Switch off sealing air	ANSCHLUSSLEIT.AL-WAK4-10/S370 KUPPLUNG M12X1 GERADE, 4POL, 10M PUR-KABEL S370 (Lif9YH-11YH)	ESCHA	1	354313A	&E01+10/50.5	M
+35-WG905.1	Gripper 1, open Z3 axis	VERB.-LEITG.AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/189.1	M
+35-WG905.2	Gripper 1, close Z3 axis	VERB.-LEITG.AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/189.3	M
+35-WG906.1	Gripper 2, open Z4 axis	VERB.-LEITG.AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/189.5	M
+35-WG906.2	Gripper 2, close Z4 axis	VERB.-LEITG.AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/189.7	M
+35-WG910.2	Hydraulics, level monitoring	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/147.4	M
+35-WG910.3	Hydraulics, temperature monitoring	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/147.5	M
+35-WG910.4	Hydraulics, filter soiling	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/147.8	M
+35-BF904.1	Air gap workpiece C1 axis actual value	DURCHFLUSSSENSOR SFAB-50U-HQ6-2SV-M12 FESTO-Nr. 565390*FESTO	FESTO	1	7838414A	&E01+10/165.1	M
+35-BF904.3	Flow pneumatics actual value	DURCHFLUSSSENSOR SFAB-10U-HQ6-2SV-M12 0,1-10 l/min; 10 bar; IP65 Stecker gerade M12 5-polig,	FESTO	1	436006A	&E01+10/165.4	M

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+35-BF930.5	IO link, flow sensor advance B axis	STRÖMUNGSSENSOR SA5000 PROZESSANSCHLUSS: INNENGEWINDE M18X1,5 FÜR ADAPTER STABLÄNGE L: 45 MM	IFM	1	456286A	&E01+10/143.2	M
+35-BF930.6	IO link, flow sensor advance A axis	STRÖMUNGSSENSOR SA5000 PROZESSANSCHLUSS: INNENGEWINDE M18X1,5 FÜR ADAPTER STABLÄNGE L: 45 MM	IFM	1	456286A	&E01+10/143.3	M
+35-BF930.7	IO link, flow sensor advance B2 axis	STRÖMUNGSSENSOR SA5000 PROZESSANSCHLUSS: INNENGEWINDE M18X1,5 FÜR ADAPTER STABLÄNGE L: 45 MM	IFM	1	456286A	&E01+10/143.5	M
+35-BF930.8	IO link, flow sensor advance C axis	STRÖMUNGSSENSOR SA5000 PROZESSANSCHLUSS: INNENGEWINDE M18X1,5 FÜR ADAPTER STABLÄNGE L: 45 MM	IFM	1	456286A	&E01+10/143.6	M
+35-BG602.1	release Head dresser in working position			1	HYDR_SV_01	&E01+10/150.7	M
+35-BG901.5	Release pneumatic movements confirmation OK			1	PNEU_SV_01	&E01+10/163.3	M
+35-BG901.11	Unclamping A axis valve 1 feedback			1	PNEU_SV_01	&E01+10/163.6	M
+35-BG901.13	Unclamping A axis valve 1 feedback			1	PNEU_SV_01	&E01+10/163.7	M
+35-BG910.11	Release undo tool clamping device			1	HYDR_SV_01	&E01+10/149.5	M
+35-BL910.2	Hydraulics, level/temperature	NIVEAUSCHALTER ENS 3000 *HYDAC KAPAZITIVER FÜLLSTANDSENSOR, STABLÄNGE: 250MM, MESSBEREICH: 170MM, ANSCHLUSS: M12x1/8POL	HYDAC	1	392644A	&E01+10/147.3	M
+35-BP901.1	Pressure supply pneumatics OK			1	PNEU_SV_01	&E01+10/163.0	M
+35-BP901.3	monitoring pressure gripper 1			1	PNEU_SV_01	&E01+10/173.3	M
+35-BP901.4	monitoring pressure gripper 2			1	PNEU_SV_01	&E01+10/173.4	M
+35-BP910.1	Hydraulics, system pressure, pressure sensor	DRUCKSCHALTER EDS 824-F31-0250-000 0-250bar; G 1/4", 10-21V DC PNP, IP67 IO LINK SCHNITTSTELLE / FREI KONFIGURIERBARER	HYDAC	1	459550A	&E01+10/147.2	M
+35-BP910.4	Hydraulics, filter soiling	VERSCHMUTZUNGSANZEIGE VR 2 LZ.1/-BO OPTISCHE ANZEIGE DURCH ROTEN STIFT UND JE 1 ELEKTR. SCHALTKONTAKT BEI 75% UND 100% DES ANSPRECHDRUCKS	HYDAC	1	456345A	&E01+10/147.7	M

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+35-BP910.5	IO link, pressure sensor clamping pressure C1 axis	DRUCKSCHALTER EDS 824-F31-0100-000 0-100bar; G 1/4", 10-21V DC PNP, IP67 IO LINK SCHNITTSTELLE / FREI KONFIGURIERBARER	HYDAC	1	459551A	&E01+10/148.2	M
+35-BP910.14	IO link, pressure sensor clamping pressure C1 axis	DRUCKSCHALTER EDS 824-F31-0100-000 0-100bar; G 1/4", 10-21V DC PNP, IP67 IO LINK SCHNITTSTELLE / FREI KONFIGURIERBARER	HYDAC	1	459551A	&E01+10/150.4	M
+35-GP3	Zentralschmierung	KOMPAKT-AGGREGAT MKF2-12BC12000+924 KOMPAKT-AGGREGAT,FLIESSFETT(UL) MKF2-12BC12000 + 924 (24V DC)	SKF	1	7832474A	&E01+10/84.1	M
+35-GP36	Hydraulics motor	HYDR.AGGREGAT SV V1 O3 ES180/300 In Variante V1 mit:	HYDAC	1	472916A	&E01+10/72.1	M
+35-KF900	interface module assembly valve terminal			1	PNEU_SV_01	&E01+10/162.2	M
+35-KF901	inputs valve terminal			1	PNEU_SV_01	&E01+10/163.0	M
+35-KF902	outputs valve terminal			1	in VTSA-Insel integriert	&E01+10/164.0	M
+35-KF904	analogue inputs valve terminal			1	in VTSA-Insel integriert	&E01+10/165.0	M
+35-KH907	valve			1	PNEU_SV_01	&E01+10/166.5	M
+35-KH908	valve			1	PNEU_SV_01	&E01+10/166.7	M
+35-KH909	valve			1	PNEU_SV_01	&E01+10/167.0	M
+35-KH910	valve			1	PNEU_SV_01	&E01+10/167.2	M
+35-KH911	valve			1	PNEU_SV_01	&E01+10/167.5	M
+35-KH912	valve			1	PNEU_SV_01	&E01+10/167.7	M
+35-KH913	valve			1	PNEU_SV_01	&E01+10/168.2	M

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+35-KH914	valve			1	PNEU_SV_01	&E01+10/168.5	M
+35-KH915	valve			1	PNEU_SV_01	&E01+10/168.7	M
+35-KK1	fire extinguishing system fire detected	3/2 Wege-Magnetventil MS6-EE-1/2-10V24-S-Z 542603	FESTO	1	7835025A	&E01+10/52.7	M
+35-KK603	Valve, overhead dresser, approach operating position			1	HYDR_SV_01	&E01+10/150.6	M
+35-KK812.1	Pneumatics main pressure On			1	PNEU_SV_01	&E01+10/164.1	M
+35-KK813.1	Unclamping A axis valve 1	5/2 Wegeventil VSVA-B-M52-MZH-A1-1C1-APP	FESTO	1	7832632A	&E01+10/95.3	M
+35-KK813.2	Unclamping A axis valve 2	5/2 Wegeventil VSVA-B-M52-MZH-A1-1C1-APP	FESTO	1	7832632A	&E01+10/95.6	M
+35-KK850.1	Proportionalventil Spannvorrichtung C1-Achse	Siehe Stückliste Hydraulik see partslist hydraulic	HYDRAULIK	1	HYDR-01	&E01+10/213.2	M
+35-KK902.3	Switch off sealing air	siehe Stückliste PNEUMATIK see partslist pneumatic	PNEUMATIK	1	PNEU-01	&E01+10/50.5	M
+35-KK910.7	Valve, pressureless circulation			1	HYDR_SV_01	&E01+10/148.5	M
+35-KK910.8	Valve, automatic accumulator relief			1	HYDR_SV_01	&E01+10/148.6	M
+35-KK910.9	Valve, clamp workpiece C1 axis			1	HYDR_SV_01	&E01+10/149.2	M
+35-KK910.10	Valve tool unclamped			1	HYDR_SV_01	&E01+10/149.4	M
+35-KK910.12	Valve, raise measuring bracket			1	HYDR_SV_01	&E01+10/149.7	M
+35-KK910.13	Valve, clamp workpiece C1 axis			1	HYDR_SV_01	&E01+10/150.2	M

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+35-KK910.91	Valve, release workpiece C1 axis			1	HYDR_SV_01	&E01+10/149.3	M
+35-KK910.131	Valve, release workpiece C1 axis			1	HYDR_SV_01	&E01+10/150.3	M
+35-TF300	Hydraulics, proportional valve amplifier	STECKERVERSTÄRKER EHCD-AP011XXXD *HYDAC LEISTUNGSVERSTÄRKER FÜR PROPORTIONALVENTILE MIT 0...10V EINGANG, ANSCHLUSS M12 5POL.	HYDAC	1	392641A	&E01+10/213.1	M
+35-TF300	Hydraulics, proportional valve amplifier	INTERFACE-BOX EHCD-APIFB 6108514 *HYDAC INTERFACE BOX FÜR STECKERVERSTÄRKER *HYDAC	HYDAC	0	392695A	&E01+10/213.1	M
+35-TF930.3	IO link temperature sensor machine bed	MESSSIGNALWANDLER TP9237 TP-CEC-B-DVG/US/; FÜR MESSELEMENT PT100+PT1000; 0..10V;	IFM	1	392933A	&E01+10/142.5	M
+35-WD35	Central lubrication	PUR-KABEL 4X0,5 M.SCHUTZL. GN-GE UL/CSA Maximale Trommelgröße:	LAPP	1	7824233A	&E01+10/84.2	M
+35-WD36	Hydraulics, motor	SUPERFLEX + N PUR 4G1,5 113110 TYP SUPERFLEX-PLUS N PUR 300/500V BEST.NR.113110 *LÜTZE	LUETZE	1	278453A	&E01+10/72.2	M
+35-WE35	PE-line installation board	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/57.6	M
+35-WE36	PE hydraulic unit	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/72.4	M
+35-WF900	Profinet activation I/O modules pneumatics	KABEL BCC M414-M414-6D-331-PS54T2-060 VERBINDUNGSKABEL M12 4-POL/STI // M12 4-POL/STI PUR-KABEL 4x0,34MM2; D= 6,7MM; L= 6,0M	BALLUFF	1	7836947A	&E01+10/162.1	M
+35-WF910	PROFINET cable IO link master I <-> IO link master II	KABEL BCC M414-M414-6D-331-PS54T2-050 VERBINDUNGSKABEL M12 4-POL/STI // M12 4-POL/STI PUR-KABEL 4x0,34MM2; D= 6,7MM; L= 5,0M	BALLUFF	1	392527A	&E01+10/146.4	M
+35-WF930	PROFINET cable IO link master I <-> IO link master II	KABEL BCC M414-M414-6D-331-PS54N2-100 VERBINDUNGSKABEL M12 4-POL/STI // M12 4-POL/STI PUR-KABEL 4x0,34MM2; D= 6,7MM; L=10,0M	BALLUFF	1	392528A	&E01+10/141.4	M
+35-WG35	Central lubrication	VERB.-LEITG.AL-WAK4-3-AL-WAS4/S370 M12 KUPPLUNG/GERADE / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448326A	&E01+10/84.5	M
+35-WG35.2	Luftzufuhr EIN	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/52.7	M
+35-WG300.2	Workpiece clamping device C1 axis nominal value	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/213.2	M

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+35-WG602.1	!!!WORT FEHLT!!!	VERB.-LEITG.AL-WWAKS4-01-AL-WASS4/S370 M12 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448080A	&E01+10/150.7	M
+35-WG813.1	Unclamping A axis valve 1	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/95.3	M
+35-WG813.2	Unclamping A axis valve 2	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/95.6	M
+35-WG900	Profinet activation I/O modules pneumatics	KABEL BCC A315-A315-30-335-PX05A5-100 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	391341A	&E01+10/162.3	M
+35-WG901.1	Pressure supply pneumatics OK	siehe Stückliste PNEUMATIK see partslist pneumatic	PNEUMATIK	1	PNEU-01	&E01+10/163.0	M
+35-WG901.3	monitoring pressure gripper 1 + 2	Y-VERTEILER M12-M8 7000-40821-6300200 M12-STECKER AUF 2 X M8-BUCHSE 2M KABEL, MAX.300V AC/DC; MAX. 4 A; IP67;	MURRELEKTRONIK	1	459633A	&E01+10/173.3	M
+35-WG904.1	Air gap workpiece C1 axis actual value	Verbindungsleitung 1,5 m NEBU-M12G5-K-1,5-M12G5 571308	FESTO	1	7835051A	&E01+10/165.2	M
+35-WG904.3	Flow pneumatics actual value	Verbindungsleitung 1,5 m NEBU-M12G5-K-1,5-M12G5 571308	FESTO	1	7835051A	&E01+10/165.5	M
+35-WG910.1	Hydraulics, system pressure, pressure sensor	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/147.2	M
+35-WG910.5	IO link, pressure sensor clamping pressure C1 axis	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/148.2	M
+35-WG910.7	Valve, pressureless circulation	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/148.5	M
+35-WG910.8	Valve, automatic accumulator relief	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/148.6	M
+35-WG910.11	Release undo tool clamping device	VERB.-LEITG.AL-WWAKS4-01-AL-WASS4/S370 M12 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448080A	&E01+10/149.5	M
+35-WG910.14	IO link, pressure sensor workpiece clamping device C1 actual value (undo)	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/150.4	M
+35-WG911	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-100 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	391341A	&E01+10/146.1	M

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+35-WG912	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-100 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	391341A	&E01+10/146.2	M
+35-WG930.5	IO link, flow sensor advance B axis	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/143.2	M
+35-WG930.6	IO link, flow sensor advance A axis	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/143.3	M
+35-WG930.7	IO link, flow sensor advance C3 axis	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/143.5	M
+35-WG930.8	IO link, flow sensor advance C axis	VERBIND.LEIT.RST4-RKT4-225/1M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	7835052A	&E01+10/143.6	M
+35-WG930.10	Coaxial valve, process cooling	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/144.3	M
+35-WG930.11	Coaxial valve, bed rinsing 150l/min 20bar	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/144.5	M
+35-WG930.12	Coaxial valve, bed rinsing 50l/min 6bar	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/144.6	M
+35-WG930.13	Coaxial valve, manual cleaning gun	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/145.2	M
+35-WG930.14	Coaxial valve, flush locking devices	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/145.3	M
+35-WG930.15	Coaxial valve, dressing unit	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/145.5	M
+35-WG931	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-100 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	391341A	&E01+10/141.1	M
+35-WG932	PROFINET power cable	KABEL BCC A315-A315-30-335-PX05A5-100 PROFIBUS POWER-VERBINDUNGSLEITUNG BUCHSE 7/8" 5-POL // STECKER 7/8" 5-POL;	BALLUFF	1	391341A	&E01+10/141.2	M
+35-XD36.1	+35-XD36.1 motor hydraulics	10 polig + PE		1	HAN10E_PE	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	TÜLLENGEHÄUSE 19.30.010.0547 *HARTING	HARTING	1	364381A	&E01+10/42.3	M

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+35-XD36.1	+35-XD36.1 motor hydraulics	STECKDOSENEINS. 09.33.010.2701 HAN 10 E 10POL+PE,16A/500V AC *HARTING	HARTING	1	097540A	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	4	302611A	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	4	302612A	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	VARISTOR RC 3 R ART.-NR.23172 (VDR/STERN, 3X575V AC -4,0KW, M16X1,5) *MURRELEKTRONIK	MURRELEKTRONIK	1	364213A	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	REDUZIERUNG M32X1,5/M20X1,5 MS*LÜTZE-ARTIKEL-NR. 600225	LUETZE	1	362239A	&E01+10/42.3	M
+35-XD36.1	+35-XD36.1 motor hydraulics	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.3	M
+35-XE1	PE rail	POTENTIALAUSGLEICHSSCHIENE 1809 M*OBO MIT METALLFUSS FÜR DEN POTENTIALAUSGLEICH FÜR 7 ANSCHLÜSSE	OBO	1	456295A	&E01+10/57.6	M
+35-XF910	PROFINET IO-Link Master 3	PROFINET MODUL BNI PNT-509-105-Z033 32 STECKPLÄTZE (32x E/A ODER 16x IO-LINK) BESTELLCODE: BNI007M *BALLUFF	BALLUFF	1	448824A	&E01+10/146.1	M
+35-XF910	PROFINET IO-Link Master 3	PROFINET MODUL BNI PNT-508-105-Z015 8 Steckplätze (16x E/A oder 8x IO-Link) BESTELLCODE: BNI005H *BALLUFF	BALLUFF	1	392531A	&E01+10/147.1	M
+35-XF930	PROFINET IO-Link Master 2	PROFINET MODUL BNI PNT-509-105-Z033 32 STECKPLÄTZE (32x E/A ODER 16x IO-LINK) BESTELLCODE: BNI007M *BALLUFF	BALLUFF	1	448824A	&E01+10/141.1	M
+35-XG910.2	Hydraulics, level Y- distributor	Y-VERTEILER EXS 3000/8POL *HYDAC M12x1 BUCHSE UND STECKER DIN EN 61076-2-101 *HYDAC	HYDAC	1	392645A	&E01+10/147.3	M
+40-EC40-XS40	+40-EC40-XS40 cooling unit	6 polig + PE		1	HAN6E_PE	&E01+10/42.3	M
+40-EC40-XS40	+40-EC40-XS40 cooling unit	STECKDOSENEINS. 09.33.006.2701 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097545A	&E01+10/42.3	M
+40-EC40-XS40	+40-EC40-XS40 cooling unit	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/42.3	M
+40-EC40-XS40	+40-EC40-XS40 cooling unit	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.3	M

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+40-EC40-XS40	+40-EC40-XS40 cooling unit	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.3	M
+40-EC40-XS40	+40-EC40-XS40 cooling unit	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.3	M
+48-BG920	Gap finding sensor Z3-axis	NÄHERUNGSSCHALT.BES 516-3040-I02-C-PU-02 ABMESSUNG 25 X 5 X 5 MM;EINBAU BÜNDIG ANSCHLUSSART KABEL, 2M, ANZAHL DER LEITER 3	BALLUFF	1	459591A	&E01+10/130.1	M
+48-BG920	Gap finding sensor Z3-axis	NÄHERUNGSSCHALTER BES516-3005-E4-C-PU-02 *BALLUFF *BALLUFF	BALLUFF	1	7817685A	&E01+10/130.1	M
+48-BG923.3	Thread in workpiece 1, gap finding sensor operating position reached	NÄHERUNGSSCHAL.SMT-8M-A-PS-24V-E-0,3-M8D TEILE-NR. FESTO 574334 PNP, MAGNETORESISTIV, KONTAKTLOS	FESTO	1	459546A	&E01+10/155.6	M
+48-BG923.4	Thread in workpiece 1, gap finding sensor base position reached	NÄHERUNGSSCHAL.SMT-8M-A-PS-24V-E-0,3-M8D TEILE-NR. FESTO 574334 PNP, MAGNETORESISTIV, KONTAKTLOS	FESTO	1	459546A	&E01+10/155.7	M
+48-WG920.1	Detection of gear gap C1 sensor at Z3	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/130.2	M
+48-WG920.2	Detection of gear gap C1 sensor at Z3	VERBIND.LEIT.AL-WWAKS4-3-AL-WASS4/S370 STECKER M12 / WINKELKUPPLUNG M12, GERADE/WINKEL, IP67/IP69K,BEMESSUNGSSP: MAX:250V,	ESCHA	1	392475A	&E01+10/130.2	M
+48-WG920.3	Detection of gear gap C1 sensor at Z3	FLANSCH M12x1 EC-FSE4-L/16 *ESCHA STECKER M12x1, 4POL. 1 BN, 2 WH, 3 BU, 4 BK	ESCHA	1	459547A	&E01+10/130.1	M
+48-XG920.2	+48-XG920.2 Gap finding sensor Z3-axis	STECKER M12 4POL RSCS 4/9 KONFEKTIONIERBAR, MIT SCHRAUBVERSCHLUSS, IP 67, MAX. 0,75MM für KABEL-D=4,0-9MM	LUMBERG	1	367161A	&E01+10/43.0	M
+49-BG924.3	Thread in workpiece 2, gap finding sensor operating position reached	NÄHERUNGSSCHAL.SMT-8M-A-PS-24V-E-0,3-M8D TEILE-NR. FESTO 574334 PNP, MAGNETORESISTIV, KONTAKTLOS	FESTO	1	459546A	&E01+10/156.6	M
+49-BG924.4	Thread in workpiece 2, gap finding sensor base position reached	NÄHERUNGSSCHAL.SMT-8M-A-PS-24V-E-0,3-M8D TEILE-NR. FESTO 574334 PNP, MAGNETORESISTIV, KONTAKTLOS	FESTO	1	459546A	&E01+10/156.7	M
+49-BG930	Gap finding sensor Z4 axis cleaning ON	NÄHERUNGSSCHALT.BES 516-3040-I02-C-PU-02 ABMESSUNG 25 X 5 X 5 MM;EINBAU BÜNDIG ANSCHLUSSART KABEL, 2M, ANZAHL DER LEITER 3	BALLUFF	1	459591A	&E01+10/130.5	M
+49-BG930	Gap finding sensor Z4 axis cleaning ON	NÄHERUNGSSCHALTER BES516-3005-E4-C-PU-02 *BALLUFF *BALLUFF	BALLUFF	1	7817685A	&E01+10/130.5	M
+49-WG930.1	Detection of gear gap C1 sensor at Z4	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/130.5	M

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+49-WG930.2	Detection of gear gap C1 sensor at Z4	VERBIND.LEIT.AL-WWAKS4-3-AL-WASS4/S370 STECKER M12 / WINKELKUPPLUNG M12, GERADE/WINKEL, IP67/IP69K,BEMESSUNGSSP: MAX:250V,	ESCHA	1	392475A	&E01+10/130.5	M
+49-WG930.3	Detection of gear gap C1 sensor at Z4	FLANSCH M12x1 EC-FSE4-L/16 *ESCHA STECKER M12x1, 4POL. 1 BN, 2 WH, 3 BU, 4 BK	ESCHA	1	459547A	&E01+10/130.5	M
+49-XG930.2	+49-XG930.2 Gap finding sensor Z4-axis	STECKER M12 4POL RSCS 4/9 KONFEKTIONIERBAR, MIT SCHRAUBVERSCHLUSS, IP 67, MAX. 0,75MM für KABEL-D=4,0-9MM	LUMBERG	1	367161A	&E01+10/43.0	M
+50-BL930.2	Level cooling lubricant machine bed overflow	FÜLLSTANDSENSOR LMT110 LMACE-A12E/QPKG/1/US; 18...30VDC; 1S/1Ö;	IFM	1	392896A	&E01+10/142.3	M
+50-BL930.2	Level cooling lubricant machine bed overflow	KLEMMVERSCHRAUBUNG G1/2 E30018 FÜR TEMPERATURSENSOREN TS/TT Ø 6/8/10 mm - G1/2	IFM	1	311678A	&E01+10/142.3	M
+50-BL940	Level leakage oil collector pan no max alarm	VIBRATIONSGRENZSCHALTER FTL31-CA4M2AAWCJ Serie: LIQUIPHANT FTL31 DC PNP Stecker: M12x1 Gewindeanschluss: G 3/4"	ENDRESS+HAUSER	1	408749A	&E01+10/208.1	M
+50-BT930.3	Machine bed temperature sensor	TEMPERATURSENSOR TS2089 TS-200KLKD10-...../US/; MESSELEMENT 1xPT100; MESSFÜHLER D=10mm;	IFM	1	392934A	&E01+10/142.5	M
+50-BT930.3	Machine bed temperature sensor	KLEMMVERSCHRAUBUNG G1/2 E30018 FÜR TEMPERATURSENSOREN TS/TT Ø 6/8/10 mm - G1/2	IFM	1	311678A	&E01+10/142.5	M
+50-WG31.1	Coolant lubricant cleaning unit	VERB.-LEITG.AL-WAKS4-20-AL-WASS4/S370 M12X1; 4POL; 20,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	362395A	&E01+10/66.1	M
+50-WG600	Head dressing at base position	VERB.-LEITG.AL-WAKS4-05-AL-WASS4/S370 M12X1; 4POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	336742A	&E01+10/208.7	M
+50-WG601	Head dressing at operating position	VERB.-LEITG.AL-WAKS4-05-AL-WASS4/S370 M12X1; 4POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	336742A	&E01+10/208.7	M
+50-WG930.2	Level cooling lubricant machine bed overflow	VERB.-LEITG.AL-WAK4-3-AL-WAS4/S370 M12 KUPPLUNG/GERADE / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448326A	&E01+10/142.4	M
+50-WG930.3	Machine bed reference temperature, actual value	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/142.5	M
+50-WG940	Level leakage oil collector pan no max alarm	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/208.1	M
+50-XG2	Coolant lubricant cleaning unit, reference temperature for machine bed	BUCHSE M12 GER. 7000-12961-0000000 BUCHSE M12 GERADE 6-8MM 5POL 12961 ART.-NR. 7000-12961-0000000	LUMBERG	1	350834A	&E01+10/66.2	M

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+50-XG2	Coolant lubricant cleaning unit, reference temperature for machine bed	STECKER M12 GERADE 6-8MM 5POL 12761 ART.-NR. 7000-12761-0000000 *MURRELEKTRONIK	MURRELEKTRONIK	1	350833A	&E01+10/66.2	M
+52-BG101	X-axis meas. system	Längen-Messsystem absolut 5 µm LC 485 ML=320 mm	HEIDENHAIN	1	448255A	&E01+10/102.7	M
+52-MA100	X axis, motor (radial slide)	SERVOMOTOR 1FT7084-1AF71-1CG1 SIMOTICS S SYNCHRONMOTOR 1FT7, 1FT7084-1AF71-1CG1 *SIEMENS	SIEMENS	1	448725A	&E01+10/102.0	M
+52-WD100	Motor cable X-axis (radial slide)	LEISTUNGSLEITUNG 6FX8002-5CS16-1BB0 6FX8002-5CS16 *SIEMENS LAENGE (M) = + 0 + 10 + 1 + 0	SIEMENS	1	456230A	&E01+10/102.1	M
+52-WE52	PE-line column radial	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/55.4	M
+52-WE52.1	PE-line X-axis radial slide			1	456341A	&E01+10/102.4	M
+52-WG100	X axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1BB0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 11m	SIEMENS	1	391228A	&E01+10/102.6	M
+52-WG101.1	X axis, lineal	Adapterkabel EnDat für LC 183 + LC 483, 6 m 533631-06	HEIDENHAIN	1	7818512A	&E01+10/102.7	M
+55-BG611	C axis, motor encoder	ABTASTKOPF ERA 4480 NR. 1181312-03 ø 100 - ... MM;TP 40 µM;~1VSS GRENZFREQUENZ (-3 DB) 1000,00 KHZ	HEIDENHAIN	1	490085A	&E01+10/100.7	M
+55-BG611	C axis, motor encoder	TEILUNGSTROMMEL ERA 4400C NR.532728-12 STRICHZAHL: 8192; TEILUNGSPERIODE: 40µM;	HEIDENHAIN	1	7838444A	&E01+10/100.7	M
+55-BT8	C-AXIS bearing temperature control	SENSOR KLGCSMALT15SF0505 *OPTRIS CSMICRO SENSOR KLGCSMALT15SF0505 BESTEHEND AUS:	OPTRIS	1	490030A	&E01+10/212.2	M
+55-MA610	C axis, motor	STATOR 1FE1114-6WW31-8BW8-Z X70 SIMOTICS M SYNCHRONEINBAUMOTOR EINZELKOMPONENTE STATOR	SIEMENS	1	480513A	&E01+10/100.1	M
+55-MA610	C axis, motor	ROTOR 1FE1114-6WW31-5WA0 SIMOTICS M SYNCHRONEINBAUMOTOR EINZELKOMPONENTE NUR ROTOR ZK 600 V, 105 K,	SIEMENS	1	448784A	&E01+10/100.1	M
+55-WE610	PE-line C-axis workpiece spindle	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/100.3	M
+55-WG8.1	C-Achse Lager Temperatur Überwachung	VERB.-LEITG. AL-WAKS4-03-AL-WASS4/S370 M12X1; 4POL; 3,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	459636A	&E01+10/212.3	M

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+55-WG611.1	angle encoder C-axis	SIGNALLEITUNG 6FX8002-2CB54-1AD0 L= 3M (Verl.12pol. Stecker/Bu-Kupplung/Sti) *SIEMENS	SIEMENS	1	390042A	&E01+10/100.7	M
+55-XD610.1	C axis, motor	STOSSVERBINDER 10 MM2 ART.-NR. 22R (aus E-CU-Rohr, galvanisch verzinkt) *KLAUKE	KLAUKE	3	390176A	&E01+10/100.2	M
+60-BG301	Z axis, measurement system, direct position	LÄNGENMESSSYSTEM LC185 ML= 540MM Genauig.: 3,0 µM TEILUNG.:20,000 µM MESSSCHRITT: 5,0000 NM; ENDAT 2.2	HEIDENHAIN	1	448792A	&E01+10/104.8	M
+60-BP920.4	A axis clamping lever pressure sensor	DRUCKSENSOR PN7094 -1-10bar; -14,5-145PSI; -0,1-1,0MPa, 18-30V DC PNP, 2x NO/NC, G 1/4"	IFM	1	448461A	&E01+10/137.7	M
+60-MA300	Z axis, motor (stroke axis)	SERVOMOTOR 1FT7102-1AC71-1CH1 SIMOTICS S SYNCHRONMOTOR 1FT7, 1FT7102-1AC71-1CH1 *SIEMENS	SIEMENS	1	448727A	&E01+10/104.1	M
+60-QL302	Gr.100 180NM	SICHERHEITSBREMSE ROBA-STOP-M100 *MAYR	MAYR	1	7837258A	&E01+10/106.2	M
+60-TF301	Z-Achse Messsystem direkte Lage	SENSOR MODULE SME25 6SL3055-0AA00-5HA3 (SINAMICS) ABSOLUTWERT ENCODER: ENDAT; SCHUTZART IP67; OHNE DRIVE-CLIQ LEITUNG	SIEMENS	1	391128A	&E01+10/104.7	M
+60-WD300	Z axis, motor (stroke axis)	LEISTUNGSLEITUNG 6FX8002-5DS36-1AK0 6FX8002-5DS36 *SIEMENS LAENGE (M) = + 0 + 0 + 9 + 0	SIEMENS	1	456197A	&E01+10/104.1	M
+60-WE60	PE-line grinding head	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/55.5	M
+60-WG300	Z axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1BA0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 10M	SIEMENS	1	391227A	&E01+10/104.6	M
+60-WG301	Z-axis meas. system	SIGNALLEITUNG 6FX8002-2DC10-1BA0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 10M	SIEMENS	1	391227A	&E01+10/104.8	M
+60-WG301.1	Z-Achse Lineal	ADAPTERKABEL ID.-NR.533631-02 (Kabel 2m mit Kupplg/St 17pol., LC183/LC185/LC483/LC485 -ENDAT 02	HEIDENHAIN	1	390125A	&E01+10/104.8	M
+60-WG302	Brake 2 Z axis	VERB.-LEITG.AL-WAKS4-08-AL-WASS4/S370 M12X1; 4POL; 8,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	343308A	&E01+10/106.2	M
+60-WG920.4	Monitoring workpiece clamping pressure	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/137.7	M
+60-XG302.1	external brake Z-axis	STECKER M12 GERADE 6-8MM 5POL 12761 ART.-NR. 7000-12761-0000000 *MURRELEKTRONIK	MURRELEKTRONIK	1	350833A	&E01+10/43.0	M

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+65-BG922.7	Nozzle adjustment at front	NÄHERUNGSSCHAL.BES 516-324-E4-C-S4-01 M8x1,KABEL 1,00 METER MIT STECKVERBINDER M12x1, 4POL.	BALLUFF	1	459585A	&E01+10/154.6	M
+65-BG922.8	Nozzle adjustment at rear	NÄHERUNGSSCHAL.BES 516-324-E4-C-S4-01 M8x1,KABEL 1,00 METER MIT STECKVERBINDER M12x1, 4POL.	BALLUFF	1	459585A	&E01+10/154.7	M
+65-BP920.2	Cooling nozzle pressure	Drucksensor PP7552 DRUCKBEREICH: 0...100 BAR, ANSCHLUSSGEW. G 1/4 A/M5I 24VDC, 2S O. 2Ö PROGRAMMIERBAR,(ERSETZT PP7022)	IFM	1	362755A	&E01+10/137.3	M
+65-WG920.2	Grinding wheel cleaning pressure sensor	VERB.-LEITG.AL-WAKS4-11-AL-WASS4/S370 M12X1; 4POL; 11,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	392763A	&E01+10/137.3	M
+67-BG11	position acceptance grinding wheel	NÄHERUNGSSCHALT.BES M08EA-PSD15B-S49G (M8x1, PNP, S , Sn=1,5mm / bündig, Steckbar M8x1, L=11/18mm) BES0277 *BALLUFF	BALLUFF	1	390749A	&E01+10/129.1	M
+67-BG501	B-Achse Messsystem 1	ABTASTKOPF ERM 2283 ID.NR. 1144058-11 STRICHZAHL: 2400 TROMMELAUSSENDURCHMESSER: 150,88 MM	HEIDENHAIN	2	483843A	&E01+10/98.6	M
+67-BG501	B-Achse Messsystem 1	TEILUNGSTR. ERM 2203C ID.NR. 1144130-05 STRICHZAHL: 2400 DURCHMESSER AUSSEN: 150,88MM	HEIDENHAIN	1	483844A	&E01+10/98.6	M
+67-BG920.3	Path sensor grinding wheel clamped	NÄHERUNGSSCHALT.BAW M12ME-UAD50B-BP01 (INDUKTIVE SENSOR) ANSCHLUSSART KABEL, 1.00 M, PUR	BALLUFF	1	490007A	&E01+10/137.5	M
+67-BG920.3	Path sensor grinding wheel clamped	STRECKER M12 4POL 0.14 - 0.34 *MURR KONFEKTIONIERBAR, MIT SCHNEIDKLEMME, IP 67, ANSCHLUSSQUERSCHNITT: 0,14 - 0,34 MM2	MURRELEKTRONIK	1	456329A	&E01+10/137.5	M
+67-BS1	Vibration Sensors 1	BESCHL.SENSOR 9TRASDACW00500 BESCHL.SENSOR,RADIAL,DREHBAR,0,5M *BALANCE SYSTEM S.P.A	BALANCE SYSTEMS	1	448806A	&E01+10/157.2	M
+67-BS2	Vibration Sensors 2	BESCHL.SENSOR 9TRASDACW00500 BESCHL.SENSOR,RADIAL,DREHBAR,0,5M *BALANCE SYSTEM S.P.A	BALANCE SYSTEMS	1	448806A	&E01+10/157.1	M
+67-BS3.1	Multi-purpose transmitting unit Stator	KOLLEKTOR STAT. ABS, BL XS001680 OHNE ANSCHNITTERKENNUNG ARTIKEL-NR.:9NDF00010B2080	BALANCE SYSTEMS	1	483782A	&E01+10/157.3	M
+67-BS3.2	Receiver Rotor	KOLLEKTOR ROT PASSIVE 9NDRAE01062000 ABS,BL+AE 9NDRAE01062000, PASSIVE	BALANCE SYSTEMS	1	7837246A	&E01+10/157.3	M
+67-BS3.3	Balancing head	WUCHTKOPF 2E ABS OHNE AE XS001680C OHNE ANSCHNITTERKENNUNG ARTIKEL-NR.:9CGJ036B042200	BALANCE SYSTEMS	1	483783A	&E01+10/157.1	M
+67-BT10	B-Achse Lager Temperatur Überwachung	TEMPERATURSENSOR TM5411 *IFM MESSBEREICH -40...150 °C -40...302 °F G 1/2 EINBAULÄNGE 50MM;PT1000;STABLÄNGE 36MM	IFM	1	483262A	&E01+10/211.2	M

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+67-MA500	B-Achse Motor	SYNCHR.EINBAUMOTOR 1FE1082-6WQ31-5WD2 1FE1082-6WQ31-5WD2 *SIEMENS EINZELKOMPONENTE ROTOR PN = 29,3KW	SIEMENS	1	448780A	&E01+10/98.0	M
+67-MA500	B-Achse Motor	SYNCHR.EINBAUMOTOR 1FE1082-6WQ31-8BW2 SIMOTICS M SYNCHRONEINBAUMOTOR EINZELKOMPONENTE STATOR	SIEMENS	1	480511A	&E01+10/98.0	M
+67-TF1	tracer stylus	Interface AD76 P06.7600-072.002	BLUM	1	7818611A	&E01+10/134.0	M
+67-TF10	B-Achse Lager Temperatur Überwachung	MESSSIGNALWANDLER TP3237 TP-CEC-A-ZVG/US/; FÜR MESSELEMENT PT100+PT1000; 4..20MA;	IFM	1	448145A	&E01+10/211.2	M
+67-WD500	B-Achse Leistungsleitung Motor	LEISTUNGSLEITUNG 6FX8002-5CS64-1BA0 (1FT/1FK ZU SINAMICS) 4x10,0 C; STECKER GR.1,5/10MM2;	SIEMENS	1	456194A	&E01+10/98.1	M
+67-WE67	PE-line grinding spindle	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/55.7	M
+67-WG10.1	B axis, bearing temperature monitoring	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/211.3	M
+67-WG10.2	B-Achse Lager Temperatur Überwachung	VERB.-LEITG. AL-WWAK4-1-AL-WAS4/S370 M12 KUPPLUNG/GEWINKELT / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	7835442A	&E01+10/211.2	M
+67-WG11.1	Position Aufnahme Schleifscheibe	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/129.2	M
+67-WG11.2	Position Aufnahme Schleifscheibe	KABEL BCC M323-0000-10-001-PX0334-020 ANSCHLUSSLEITUNG M 8x1, PNP+NPN, S+OE+ WINKEL; L=2M	BALLUFF	1	459902A	&E01+10/129.1	M
+67-WG11.2	Position Aufnahme Schleifscheibe	STRECKER M12 4POL 0.14 - 0.34 *MURR KONFEKTIONIERBAR, MIT SCHNEIDKLEMME, IP 67, ANSCHLUSSQUERSCHNITT: 0,14 - 0,34 MM2	MURRELEKTRONIK	1	456329A	&E01+10/129.1	M
+67-WG67.1	BALANCE Acceleration Pick-up 1	ANSCHL.KABEL,4-POLIG,14M 9PL04014KV00M0 9PL04014KV00M0	BALANCE SYSTEMS	1	448825A	&E01+10/157.2	M
+67-WG67.4	BALANCE Schwingungsaufnehmer 2	ANSCHL.KABEL,4-POLIG,14M 9PL04014KV00M0 9PL04014KV00M0	BALANCE SYSTEMS	1	448825A	&E01+10/157.1	M
+67-WG67.7	BALANCE Multi-purpose transmitting unit Stator	ANSCHL.KABEL,12-POLIG,14M 9PL12014KV00M0	BALANCE SYSTEMS	1	448826A	&E01+10/157.3	M
+67-WG67.13	BALANCE	SPIRALKABEL 9CF813N0330660 *BALANCE SYSTEM S.P.A D=Durchmesser	BALANCE SYSTEMS	1	448807A	&E01+10/157.2	M

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+67-WG67.13	BALANCE	KOLLEKTOR STAT.,ABS,BL+ 9NDFAEA90A8080	BALANCE SYSTEMS	1	448802A	&E01+10/157.2	M
+67-WG67.13	BALANCE	KOLLEKTOR ROT.,ABS,BL+AE 9NDRAEA1062000	BALANCE SYSTEMS	1	448803A	&E01+10/157.2	M
+67-WG67.13	BALANCE	SPIRALKABEL 9CF813N0210360 HT8P,D=13MM,210-360MM *BALANCE SYSTEM S.P.A	BALANCE SYSTEMS	1	448805A	&E01+10/157.2	M
+67-WG500	B-Achse Temperatur Motor	SIGNALLEITUNG 6FX8002-2SL20-1BA0 6FX8002-2SL20 FUER TEMPERATURSENSOR *SIEMENS	SIEMENS	1	448698A	&E01+10/98.3	M
+67-WG501.1	B-Achse Messsystem 1 Abtastkppf 1	SIGNALLEITUNG 6FX8002-2CA31-1BB0 KONFEKTIONIERT F. INKR. GEBER MIT C/D-SPUREN 3X(2X0.14)C+4X0,14+2X0.5+4X0.22 C STECKER M23	SIEMENS	1	307631A	&E01+10/98.6	M
+67-WG501.2	B-Achse Messsystem 1 Abtastkppf 2	SIGNALLEITUNG 6FX8002-2CA31-1BB0 KONFEKTIONIERT F. INKR. GEBER MIT C/D-SPUREN 3X(2X0.14)C+4X0,14+2X0.5+4X0.22 C STECKER M23	SIEMENS	1	307631A	&E01+10/98.7	M
+67-WG920.3	Path sensor grinding wheel clamped	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/137.5	M
+67-XD500	-XD500 B-Achse Leistung Motor	WINKELEINBAUDOSE 940 DREHBAR 6P C ED A 257 MR 49 00 0056 000 *INTERCONTEC	INTERCONTEC	1	461131A	&E01+10/98.0	M
+67-XF920.1	tool clamping fixture position actual value	IO-LINK KONVERTER DP1222 *IFM KONVERTER ZWISCHEN ANALOGSIGNALEN UND IO-LINK	IFM	1	480961A	&E01+10/137.5	M
+67-XG500	-XG500 B-Achse Temperatur Motor	DURCHFÜHRUNG 917 7 POLIG INTERCONTEC FLANSCH 25,7MM x 25,7MM 7 POLIG, BUCHSE, CODE 2	INTERCONTEC	1	483798A	&E01+10/98.0	M
+67-XG500	-XG500 B-Achse Temperatur Motor	KONTAKTBUCHSE 1MM 60.001.11 INTERCONTEC DURCHMESSER: 1,0 MM ANSCHLUSS: CRIMPBEREICH: 0,14 - 1,0 MM2	INTERCONTEC	8	483799A	&E01+10/98.0	M
+67-XG501.1	-XG501.1 B-Achse Messystem 1 Abtastopf 1	EINBAUDOSE 623 17POL SPEEDTEC ISOLIERKÖRPER UNCODIERT FLANSCHBEFESTIGUNG /FLANSCH 25X25	INTERCONTEC	1	490002A	&E01+10/98.6	M
+67-XG501.2	-XG501.2 B-Achse Messystem 1 Abtastkopf 2	EINBAUDOSE 623 17POL SPEEDTEC ISOLIERKÖRPER UNCODIERT FLANSCHBEFESTIGUNG /FLANSCH 25X25	INTERCONTEC	1	490002A	&E01+10/98.6	M
+67-XG920.3	+67-XG920.3 position sensor clamping system grinding spindle	STRECKER M12 4POL 0.14 - 0.34 *MURR KONFEKTIONIERBAR, MIT SCHNEIDKLEMME, IP 67, ANSCHLUSSQUERSCHNITT: 0,14 - 0,34 MM2	MURRELEKTRONIK	1	456329A	&E01+10/43.0	M
+68-BG201	Y-axis meas. system	Längen-Messsystem absolut 5 µm LC 485 ML=270 mm	HEIDENHAIN	1	448254A	&E01+10/112.7	M

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+68-BG922.5	Grinding wheel release turning OK	NÄHERUNGSSCHALT.BES M08EA-POC15B-EP02 M8x1, PNP ÖFFNER (NC), SN=1,5mm / BÜNDIG, ABMESSUNG 8X10MM, LED, KABEL 2.00 METER PUR,	BALLUFF	1	490507A	&E01+10/154.3	M
+68-BP922.6	Lubrication pressure OK	DRUCKSENSOR PN7092 0-100bar; 0-1450PSI; 0-10MPa, G 1/4", 18-30V DC PNP, 2x NO/NC	IFM	1	448459A	&E01+10/154.4	M
+68-MA110	X1 axis, motor	SERVOMOTOR 1FK7032-2AK71-1RH1-Z J13+Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-CT 1FK7032-2AK71-1RH1-Z J13+Q31 *SIEMENS	SIEMENS	1	448820A	&E01+10/114.1	M
+68-MA200	Y axis, motor	SYNCHRONMOTOR 1FT7064-5AF71-1CH2-Z Q12 SIMOTICS S SYNCHRONMOTOR 1FT7, M0=9NM	SIEMENS	1	466296A	&E01+10/112.1	M
+68-WD110	Motor cable X1-axis	LEISTUNGSLEITUNG 6FX8002-5DS06-1BB0 4X1,5 (2x1.5)C C, STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456195A	&E01+10/114.1	M
+68-WD200	Motor cable Y-axis motor	LEISTUNGSLEITUNG 6FX8002-5DS06-1BC0 4X1,5 (2x1.5)C C, STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456196A	&E01+10/112.1	M
+68-WE68	PE-line grinding spindle shift axis	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/55.6	M
+68-WE68.1	PE-line grinding spindle shift axis	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/55.8	M
+68-WG110	X1 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1BC0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 12m	SIEMENS	1	391229A	&E01+10/114.6	M
+68-WG200	Y axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1BD0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 13M	SIEMENS	1	391230A	&E01+10/112.6	M
+68-WG201	Y-axis meas. system	Adapterkabel EnDat für LC 183 + LC 483, 1 m 533631-01	HEIDENHAIN	1	7818510A	&E01+10/112.8	M
+68-WG201.11	Y-axis meas. system	Signalleitung Verlängerung Motor MS absolut 12 m 6FX8002-2EQ14-1BC0	SIEMENS	1	7821718A	&E01+10/112.8	M
+68-WG922	IO link line sensor stroke Y axis	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/153.1	M
+68-WG922.5	Grinding wheel release turning OK	STRECKER M12 4POL 0.14 - 0.34 *MURR KONFEKTIONIERBAR, MIT SCHNEIDKLEMME, IP 67, ANSCHLUSSQUERSCHNITT: 0,14 - 0,34 MM2	MURRELEKTRONIK	1	456329A	&E01+10/154.3	M
+68-WG922.6	Lubrication pressure OK	VERBIND.LEIT.RST4-RKT4-225/0,6M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	448522A	&E01+10/154.4	M

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+68-WG922.7	Nozzle adjustment at front	VERB.-LEITG.AL-WAKS4-05-AL-WASS4/S370 M12X1; 4POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	336742A	&E01+10/154.6	M
+68-WG922.8	Nozzle adjustment at rear	VERB.-LEITG.AL-WAKS4-05-AL-WASS4/S370 M12X1; 4POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	336742A	&E01+10/154.7	M
+68-XF922	IO link sensor stroke Y axis	IO-LINK MODUL BNI IOL-302-S01-K006 8 Steckplätze (16x IO-Link Eingänge/Ausgänge) BESTELLCODE: BNI005T *BALLUFF	BALLUFF	1	448144A	&E01+10/153.1	M
+69-BG401	A axis, motor encoder	TEILUNGSTROMMEL RESA30USA200B RESA30USA200B *RENISHAW Single-Track Absolut-Winkelmess-System,	RENISHAW	1	456314A	&E01+10/94.8	M
+69-BG401	A axis, motor encoder	ABTSTKOPF SA26DRA200B05S ABTASTKOPF RESOLUTE F.RINGDURCHMESSER 200MM SCHNITTSTELLE SIEMENS DRIVE-CLIQ	RENISHAW	1	448869A	&E01+10/94.8	M
+69-MA400	A axis, motor	ROTOR SIMOTICS T 1FW6160-8RA20-0AA0 für Motor 1FW6160-0.B20-....; Durchm. 440mm; Länge 270mm;	SIEMENS	1	7835398A	&E01+10/94.0	M
+69-MA400	A axis, motor	STATOR SIMOTICS T 1FW6160-8TB20-5GA3-Z -P01+U99+W99 STATOR MIT PT1000	SIEMENS	1	490569A	&E01+10/94.0	
+69-TF401.1	A axis, motor encoder	SINGLE INTERFACE DRIVE-CLIQ A-9796-0575 SINGLE INTERFACE SIEMENS DRIVE-CLIQ ZERTIFIZIERT NACH SIL2 / PLD	RENISHAW	1	448872A	&E01+10/94.8	M
+69-WD400	Motor cable A-axis, motor	LEISTUNGSLEITUNG 6FX8002-5CS64-1BA0 (1FT/1FK ZU SINAMICS) 4x10,0 C; STECKER GR.1,5/10MM2;	SIEMENS	1	456194A	&E01+10/94.1	M
+69-WE69	PE-line swiviel axis	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.1	M
+69-WF401.1	RENISHAW DQ-Interface	DRIVE-CLIQ LTG. 10M 6FX8002-2DC30-1BA0 KONFEKTIONIERT FUER DIREKTE MESSSYSTEME MIT RJ45,IP20 UND GEGENSTECKER M12,	SIEMENS	1	448710A	&E01+10/94.8	M
+69-WG400	Temperature motor A-axis swievel grinding head	SIGNALLEITUNG 6FX8002-2SL20-1BA0 6FX8002-2SL20 FUER TEMPERATURSENSOR *SIEMENS	SIEMENS	1	448698A	&E01+10/94.4	M
+69-WG401	RENISHAW reading head	VERB.-LEITG. AL-WAKS8-01-AL-WASS8/S370 M12X1; 8POL; 1,0M PUR-KABEL M.SCHIRM; KUPPLUNG: M12X1 GERADE	SIEMENS	1	456342A	&E01+10/94.8	M
+75-BG1	Pressure relief flap closed	NÄHERUNGSSCHALTER BES 516-325-S4-C (M12x1, PNP, Schließer, Sn=2mm / bündig, Steckbar M12x1, L=40/70mm, LED)	BALLUFF	1	257102A	&E01+10/196.3	M
+75-BG921.1	Swivel loader door at front top open	NÄHERUNGSSCHALTER BES 516-325-S4-C (M12x1, PNP, Schließer, Sn=2mm / bündig, Steckbar M12x1, L=40/70mm, LED)	BALLUFF	1	257102A	&E01+10/151.3	M

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+75-BG921.3	Swivel loader door at back top open	NÄHERUNGSSCHALTER BES 516-325-S4-C (M12x1, PNP, Schließer, Sn=2mm / bündig, Steckbar M12x1, L=40/70mm, LED)	BALLUFF	1	257102A	&E01+10/151.6	M
+75-EA75	Working chamber lighting	EINBAULEUCHTE LME0480-0000A 22-28 V DC / 10 W / 140° / kaltweiss / Floatglas gehärtet / Al Gehäuse /	DIANA ELECTRONIC	1	436275A	&E01+10/63.1	M
+75-EA75	Working chamber lighting	EINBAUDICHTUNG ZMDEE-0480E geeignet für Einbauleuchten Serie 110x70 / Abmessungen 110/90 x 70/50 x 2 mm /	DIANA ELECTRONIC	1	436276A	&E01+10/63.1	M
+75-GM75	Slewing crane	HANDHABUNGSVORRICHTUNG KOMPLETT TRAGFÄHIGKEIT: 100 KG BETRIEBSSPANNUNG/FREQUENZ: 400 VOLT/50HZ	SPIESS	1	460101A	&E01+10/68.1	M
+75-MA130	X3 axis, (Sidoor) motor	GETRIEBEMOTOR SIDOOR 6FB1103-0AT13-3MC2 SIDOOR MDG4 R GETRIEBEMOTOR 6FB1103-0AT13-3MC2 MDG4 R GETRIEBEM., WELLE RE. MIT NUT- UND PASSF. A5X5	SIEMENS	1	7838060A	&E01+10/119.6	M
+75-MA130	X3 axis, (Sidoor) motor	RIEMENRAD MDG-PULLEY 6FB1104-0AT14-0AS1 SIDOOR MDG-PULLEY 14-S8M-56 RIEMENRAD FÜR DC-GETRIEBEMOTOR MDG4, MDG5 UND ZAHNRIEMEN S8M,	SIEMENS	1	7838061A	&E01+10/119.6	M
+75-PF925	Status indication of machine	SIGNALLEUCHTE BNI IOL-802-000-Z037 5 SEGMENTE, SIRENE, 18..30V DC, IP54 BESTELLCODE: BNI0083 *BALLUFF	BALLUFF	1	456343A	&E01+10/140.2	M
+75-QQ100.3	Safety switch, service door	SICHERHEITSSCHALTER CES-AR-C01-AH-SA BERÜHRUNGSLOSER SICHERHEITSSCHALTER UNICODE BEST.NR.098941 *EUCHNER	EUCHNER	1	392582A	&E01+10/194.1	M
+75-QQ100.3	Safety switch, service door	BETÄTIGER CES-A-BPA QUADERFÖRMIGE BAUFORM 40 X 40MM FÜR SICHERHEITSSCHALTER CES-AR-C01-AH-SA	EUCHNER	1	392583A	&E01+10/194.1	M
+75-QQ101.1	safety switch loader door	SICHERHEITSSCHALT.STP3A-2131A024L024RC18 24V DC +-15%; IP65; -20 - +55 GRD C; STECKVERBINDER M23 19POL (RC18)	EUCHNER	1	490654A	&E01+10/192.2	M
+75-QQ101.1	safety switch loader door	BETÄTIGER-S-WQT-LN 095741 *EUCHNER BETÄTIGER L ABGEWINKELT FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM	EUCHNER	1	490655A	&E01+10/192.2	M
+75-QQ101.1	safety switch loader door	EINFÜHRTRICHTER-S 093157 *EUCHNER FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM BEST.NR.093157 *EUCHNER	EUCHNER	1	490656A	&E01+10/192.2	M
+75-QQ101.1	safety switch loader door	NOTENTSPERRUNG AE-M-A1-99877 *EUCHNER FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM BEST.NR.099877 *EUCHNER	EUCHNER	1	490657A	&E01+10/192.2	M
+75-TF641	C4 axis, external measuring system	SINGLE INTERFACE DRIVE-CLIQ A-9796-0575 SINGLE INTERFACE SIEMENS DRIVE-CLIQ ZERTIFIZIERT NACH SIL2 / PLD	RENISHAW	1	448872A	&E01+10/125.8	M
+75-UC00	power supply machine	KOMPAKTSCHALTSCHR. – AE 1034.500 *RITTAL Gehäuse mit scharnierter Tür, rundum geschlossen Flanschplatte im Gehäuseboden	RITTAL	1	456388A	&E01+10/45.2	M

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+75-UC00	power supply machine	PROFILSCHIENE F.BÜGELSCHELLEN L=2M B=35MM,H=18MM,SCHLITZBREITE=16MM, STAHL,SENDZIMIRVERZINKT,UNGELOCHT	KLEINHUIS	1	293173A	&E01+10/45.2	M
+75-UC00	power supply machine	BÜGELSCHELLE 42-46MM NR.1491A46 (f. C-Profilschiene m.Schlitz 16-17mm) *KLEINHUIS	KLEINHUIS	2	390351A	&E01+10/45.2	M
+75-UC00	power supply machine	GEGENWANNE F.BÜGELSCHELLE 42-46MM ART.NR.1591/46 *KLEINHUIS	KLEINHUIS	2	390352A	&E01+10/45.2	M
+75-UC00	power supply machine	TRAGSCHIENE TS35X15 GELOCHT EN50022 ART.NR.537LO/2 *KLEINHUIS ..	KLEINHUIS	1	298078A	&E01+10/45.2	M
+75-WD0	Supply for SV300	GUMMISCHLAUCHLEITG.H07RN-F 5 G50 ARTIKEL-NR.: 4533105 *LAPPKABEL	LAPP	1	456391A	&E01+10/45.3	M
+75-WD75.1	Supply slewing crane	SUPERFLEX + N PUR 7G1,5 113112 TYP SUPERFLEX-PLUS N PUR 300/500V BEST.NR.113112 *LÜTZE	LÜTZE	1	162156A	&E01+10/68.2	M
+75-WD130	X3 axis, (Sidoor) motor	SIDOOR MOTORKABEL 6FB1104-0AT10-0CB2 SIDOOR MDG-CABLE 6FB1104-0AT10-0CB2SIDOOR MDG-CABLE 10M MOTORKABEL FÜR MDG3, MDG4, MDG5,	SIEMENS	1	7838062A	&E01+10/119.6	M
+75-WF641	RENISHAW DQ-Interface	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0 KONFEKTIONIERT FUER DIREKTE MESSSYSTEME MIT RJ45,IP20 UND GEGENSTECKER M12,	SIEMENS	1	448706A	&E01+10/125.8	M
+75-WG75	Working chamber lighting	VERB.-LEITG. AL-SWKP3-5-AL-WAS3/S370 M8 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 60-250V DC / 4A, IP67, 3-polig,	ESCHA	1	456239A	&E01+10/63.1	M
+75-WG75.1	safety switch main guard door	C-M23F19-19XDIFPU06,0-MA-077018 M23 BUCHSENSTECKER WINKLIG/LINKS KABEL L= 6M 18-POLIG + PE;PUR-LEITUNG;MIT OFFENEM	EUCHNER	1	354308A	&E01+10/192.2	M
+75-WG75.3	Deflagration flap closed	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/196.3	M
+75-WG100.31	Safety switch for loading door, on left	VERB.-LEITG. AL-WAK8-6-AL-WAS8/S370 M12 KUPPLUNG/GERADE - M12 STECKER/GERADE, 30V DC / 2A, OHNE LED, IP67, 8-polig,	ESCHA	1	456297A	&E01+10/194.2	M
+75-WG901.7	Loading device for grinding wheel, sensors	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/172.2	M
+75-WG901.15	Loading device for grinding wheel, sensors	VERB.-LEITG. AL-WAKS4-10-AL-WASS4/S370 M12X1; 4POL; 10,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	333683A	&E01+10/172.6	M
+75-WG921	IO link line sensor stroke machine cover	VERB.-LEITG.AL-WAKS4-04-AL-WASS4/S370 M12X1; 4POL; 4,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	436071A	&E01+10/151.1	M

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+75-WG921.1	Loading door in top left open	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/151.3	M
+75-WG921.3	Loading door in top right open	VERBIND.LEIT.RST4-RKT4-225/2M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362786A	&E01+10/151.6	M
+75-WG925	Status indication of machine	VERB.-LEITG. AL-WWAKS4-06-AL-WASS4/S370 WINKELKUPPLUNG M12 / GERADER STECKER M12, 4-POLIG; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	436086A	&E01+10/140.2	M
+75-XD0	Supply for terminal box	Klemmleiste terminal strip regleta de bornes		1	000000A	&E01+10/45.6	M
+75-XD0	Supply for terminal box	REIHENKLEMME 95 MM2 GRAU 285-195 *WAGO REIHENKLEMME 95 MM2 GRAU 285-195	WAGO	3	456378A	&E01+10/45.6	M
+75-XD0	Supply for terminal box	REIHENKLEMME 95 MM2 BLAU 285-194 *WAGO REIHENKLEMME 95 MM2 BLAU 285-194	WAGO	1	456379A	&E01+10/45.6	M
+75-XD0	Supply for terminal box	REIHENKLEMME 95 MM2 GN-GE 285-197 *WAGO REIHENKLEMME 95 MM2 GN-GE 285-197	WAGO	1	456380A	&E01+10/45.6	M
+75-XD0	Supply for terminal box	WARNABDECKUNG FÜR 95 MM2 285-170 *WAGO WARNABDECKUNG FÜR 95 MM2 285-170	WAGO	4	456386A	&E01+10/45.6	M
+75-XF921	IO link sensor stroke machine cover	IO-LINK MODUL BNI IOL-302-S01-K006 8 Steckplätze (16x IO-Link Eingänge/Ausgänge) BESTELLCODE: BNI005T *BALLUFF	BALLUFF	1	448144A	&E01+10/151.1	M
+75-XG901.7	Grinding wheel changer sensors limit positions	T-STÜCK M12 ST. GER. AUF M8 BU. GER*MURR SCHRAUBGEWINDE M8/M12 x 1mm, SELBSTSICHERND IP67 IN GESTECKTEM UND VERSCHRAUBTEM ZUSTAND	MURRELEKTRONIK	1	448484A	&E01+10/172.2	M
+75-XG901.15	Grinding wheel changer sensors collision	T-STÜCK M12 ST. GER. AUF M8 BU. GER*MURR SCHRAUBGEWINDE M8/M12 x 1mm, SELBSTSICHERND IP67 IN GESTECKTEM UND VERSCHRAUBTEM ZUSTAND	MURRELEKTRONIK	1	448484A	&E01+10/172.6	M
+78-WE78	PE-line floor tray	PE-LEITUNG 1 G 16,0 CFPE.160.01 CHAINFLEX TPE 1x16,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391380A	&E01+10/59.5	M
+79-BG901.7	Grinding wheel changer in base position	NÄHERUNGSSCHALT.BES M08EA-PSD15B-S49G (M8x1, PNP, S , Sn=1,5mm / bündig, Steckbar M8x1, L=11/18mm) BES0277 *BALLUFF	BALLUFF	1	390749A	&E01+10/172.2	M
+79-BG901.8	Grinding wheel changer in operating position	NÄHERUNGSSCHALT.BES M08EA-PSD15B-S49G (M8x1, PNP, S , Sn=1,5mm / bündig, Steckbar M8x1, L=11/18mm) BES0277 *BALLUFF	BALLUFF	1	390749A	&E01+10/172.4	M
+79-BG901.15	Grinding wheel adapter collision Z axis	NÄHERUNGSSCHALT.BES M08EA-POD15B-S49G (M8x1, PNP, OE, Sn=1,5mm / bündig, Steckbar M8x1, L=11/18mm) *BALLUFF	BALLUFF	1	391000A	&E01+10/172.6	M

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+79-BG901.16	Grinding wheel adapter collision Y axis	NÄHERUNGSSCHALT.BES M08EA-POD15B-S49G (M8x1, PNP, OE, Sn=1,5mm / bündig, Steckbar M8x1, L=11/18mm) *BALLUFF	BALLUFF	1	391000A	&E01+10/172.7	M
+79-WG901.71	Grinding wheel changer in base position	KABEL BCC M323-M313-30-300-PX0334-020 VERBINDUNGSKABEL M8 3-POL/BU GEWINKELT // M8 3-POL/STI GERADE	BALLUFF	1	459734A	&E01+10/172.2	M
+79-WG901.81	Grinding wheel changer in operating position	KABEL BCC M323-M313-30-300-PX0334-020 VERBINDUNGSKABEL M8 3-POL/BU GEWINKELT // M8 3-POL/STI GERADE	BALLUFF	1	459734A	&E01+10/172.3	M
+79-WG901.151	Grinding wheel changer in base position	KABEL BCC M323-M313-30-300-PX0334-020 VERBINDUNGSKABEL M8 3-POL/BU GEWINKELT // M8 3-POL/STI GERADE	BALLUFF	1	459734A	&E01+10/172.6	M
+79-WG901.161	Grinding wheel changer in base position	KABEL BCC M323-0000-10-001-PX0334-050 M 8x1; PNP; S+Ö; WINKEL; HALOGENFREI BESTELLCODE: BCC02MM *BALLUFF	BALLUFF	1	319843A	&E01+10/172.7	M
+79-WG901.161	Grinding wheel changer in base position	STECKER M 8 GERADE 3P 7000-08331-0000000 MOSA M8 STECKER, GERADE, 3POLIG, MIT SELBSTANSCHL.SCHNEIDKLEMME 0,14-0,34MM2,	MURRELEKTRONIK	1	459737A	&E01+10/172.7	M
+82-HQ82	Coolant lubricant cleaning unit	FILTERANLAGE HSF100SE SV 60HZ 2 KREISKÜH HSF 100 SE/OEDRK 260-V-2 Filteranlage ähnlich 7837618A allerdings	HOFFMANN	1	7838495A	&E01+10/66.0	M
+82-WF82	Profinet filter system	KABEL BCC M414-E834-8G-668-PS54T2-200 VERBINDUNGSKABEL M12 4-POL/STI // RJ45; PUR-KABEL 4x0,34MM2; D= 6,7MM; L=20,0M	BALLUFF	1	392806A	&E01+10/66.8	M
+82-WG82	Filter system interface	SUPERFLEX + 3000 PUR 25G1,0 113056 TYP SUPERFLEX-PLUS N PUR 300/500V BEST.NR. 113056 *LÜTZE	LUETZE	1	135158A	&E01+10/66.2	M
+82-XG-BT0	Coolant lubricant cleaning unit, reference temperature for machine bed	BUCHSE M12 GER. 7000-12961-0000000 BUCHSE M12 GERADE 6-8MM 5POL 12961 ART.-NR. 7000-12961-0000000	LUMBERG	1	350834A	&E01+10/66.2	M
+82-XG-BT0	Coolant lubricant cleaning unit, reference temperature for machine bed	STECKER M12 GERADE 6-8MM 5POL 12761 ART.-NR. 7000-12761-0000000 *MURRELEKTRONIK	MURRELEKTRONIK	1	350833A	&E01+10/66.2	M
+82-XG100	+82-XG100 filter system interface	24 polig + PE		1	HAN24E_PE	&E01+10/42.4	M
+82-XG100	+82-XG100 filter system interface	STECKEREINSATZ 09.33.024.2601 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097531A	&E01+10/42.4	M
+82-XG100	+82-XG100 filter system interface	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/42.4	M
+82-XG100	+82-XG100 filter system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/42.4	M

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+82-XG100	+82-XG100 filter system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/42.4	M
+82-XG100	+82-XG100 filter system interface	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/42.4	M
+83-HR83	Oil mist collector	ÖLNEBELABSAUG. ELSTAR EL 2002 NAS*INDUSA ARTIKELNUMMER: LE4302040 5132 NACH ANGEBOT AN160372	INDUSA	1	457738A	&E01+10/76.1	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	6 polig + PE		1	HAN6E_PE	&E01+10/42.0	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	STECKDOSENEINS. 09.33.006.2701 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097545A	&E01+10/42.0	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/42.0	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.0	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.0	M
+83-HR83-X2	+83-HR83-X2 oil mist collector performance	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.0	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	6 polig + PE		1	HAN6E_PE	&E01+10/42.2	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	STECKDOSENEINS. 09.33.006.2701 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097545A	&E01+10/42.2	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/42.2	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.2	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.2	M
+83-HR83-X3	+83-HR83-X3 oil mist collector signals	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.2	M

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+83-WD83	Supply oil mist collector	SUPERFLEX + N PUR 4G1,5 113110 TYP SUPERFLEX-PLUS N PUR 300/500V BEST.NR.113110 *LÜTZE	LUETZE	1	278453A	&E01+10/76.1	M
+83-WE83	PE-line oil mist collector	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/76.6	M
+83-WG83	Interface oil mist collector	STEUERLEITG.PUR N 7x 1,0 MM2 113402 TYP SUPERFLEX-PLUS N PUR 300/500V BEST.NR.113 402 *LÜTZE	LUETZE	1	135155A	&E01+10/76.4	M
+88-MA88	Return oil pump	SCHLÜRF-TAUCHP. SGL502/370-3717 SCHLÜRF-TAUCHPUMPE MIT MOTOR 2,2KW; 3X380-415V +/-5%; 50HZ; 2890U/MIN	BRINKMANN	1	489855A	&E01+10/74.1	
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	10 polig + PE		1	HAN10E_PE	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	TÜLLENGEHÄUSE 19.30.010.0547 *HARTING	HARTING	1	364381A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	STECKDOSENEINS. 09.33.010.2701 HAN 10 E 10POL+PE,16A/500V AC *HARTING	HARTING	1	097540A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	1	302611A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	1	302612A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	VARISTOR RC 3 R ART.-NR.23172 (VDR/STERN, 3X575V AC -4,0KW, M16X1,5) *MURRELEKTRONIK	MURRELEKTRONIK	1	364213A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	REDUZIERUNG M32X1,5/M20X1,5 MS*LÜTZE-ARTIKEL-NR. 600225	LUETZE	2	362239A	&E01+10/42.4	M
+88-MA88-XD1:1	+88-MA88-XD1:1 return oil pump	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	2	391163A	&E01+10/42.4	M
+88-WD88.2	Return oil pump	SUPERFLEX + M (C) PUR 4G1,5 111460.1000 TYP: SUPERFLEX PLUS M (C) PUR 0,6/1kV MANTELFARBE ORANGE, KABEL-$=8,0MM,	LUETZE	1	392472A	&E01+10/74.1	M
+90-BG521	B2 axis, motor encoder	DREHGEBER ERN 1080 534913-31 INKREMENTALER DREHGEBER MIT EIGENLAGERUNG ZUM ANBAU ÜBER STATORKUPPLUNG	HEIDENHAIN	1	448662A	&E01+10/108.8	M
+90-BG600	Head dressing at base position	NÄHERUNGSSCHALT. BES049E *BALLUFF BES R04MC-PSC20B-EP00,2-GS49-107 16 X 8 X 4,7 MM REICHWEITE 2 MM PNP	BALLUFF	1	7836914A	&E01+10/208.7	M

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+90-BG601	Head dressing at operating position	NÄHERUNGSSCHALT. BES049E *BALLUFF BES R04MC-PSC20B-EP00,2-GS49-107 16 X 8 X 4,7 MM REICHWEITE 2 MM PNP	BALLUFF	1	7836914A	&E01+10/208.8	M
+90-BG631	C3 axis, motor encoder	TEILUNGSTROMMEL RESA30USA150B RESA30USA150B *RENISHAW RESA30USA150B	RENISHAW	1	448562A	&E01+10/110.8	M
+90-BG631	C3 axis, motor encoder	ABTSTKOPF SA26DBA150B05S ABTASTKOPF RESOLUTE F.RINGDURCHMESSER 150MM SCHNITTSTELLE SIEMENS DRIVE-CLIQ	RENISHAW	1	448871A	&E01+10/110.8	M
+90-BP920.1	Dressing unit pressure	Drucksensor PP7554 DRUCKBEREICH: -1...10 BAR, ANSCHLUSSGEW. G 1/4 A/M5I 24VDC, 2S O. 2Ö PROGRAMMIERBAR,(ERSETZT PP7024)	IFM	1	362754A	&E01+10/137.1	M
+90-BS4	AE-sensor	AE-SENSOR STATISCH 9AETF050000100	BALANCE SYSTEMS	1	448822A	&E01+10/157.7	M
+90-BS4.1	AE-sensor	AE-SENSOR ROTATORISCH 9AETR010950000 9AETR010950000	BALANCE SYSTEMS	1	448821A	&E01+10/157.7	M
+90-MA520	B2 axis, motor	STATOR 1FE1041-6WM30-7BW0 SIMOTICS M SYNCHRONEINBAUMOTOR	SIEMENS	1	480510A	&E01+10/108.0	M
+90-MA520	B2 axis, motor	ROTOR 1FE1041-6WM30-3WA0 SIMOTICS M SYNCHRONEINBAUMOTOR	SIEMENS	1	448581A	&E01+10/108.0	M
+90-MA630	C3 axis, motor	TORQUEMOTOR 1FW6090-0PB07-1JD2 1FW6090-0PB07-1JD2 *SIEMENS KOMPONENTEN 3-PHASEN-SYNCHRONMOTOR;	SIEMENS	1	448759A	&E01+10/110.0	M
+90-MA630	C3 axis, motor	ROTOR 1FW6090-8RA07-0AA0 FÜR MOTOR 1FW6090-0.B07-....; DURCHM. 230MM, LÄNGE 110MM	SIEMENS	0	456465A	&E01+10/110.0	M
+90-MA630	C3 axis, motor	STATOR 1FW6090-8PB07-1JD2 SIMOTICS T, ÄUßERER KÜHLMANTEL, AXIALER LEITUNSABGANG	SIEMENS	0	456464A	&E01+10/110.0	N
+90-TF631.1	C3 axis, motor encoder	SINGLE INTERFACE DRIVE-CLIQ A-9796-0575 SINGLE INTERFACE SIEMENS DRIVE-CLIQ ZERTIFIZIERT NACH SIL2 / PLD	RENISHAW	1	448872A	&E01+10/110.8	M
+90-WD520	Motor cable B2-axis, motor	LEISTUNGSLEITUNG 6FX8002-5CS16-1AG0 6FX8002-5CS16 *SIEMENS LAENGE (M) = + 0 + 0 + 6 + 0	SIEMENS	1	456241A	&E01+10/108.2	M
+90-WD630	Motor cable C3 axis, motor	LEISTUNGSLEITUNG 6FX8002-5CS16-1AG0 6FX8002-5CS16 *SIEMENS LAENGE (M) = + 0 + 0 + 6 + 0	SIEMENS	1	456241A	&E01+10/110.1	M
+90-WE90	PE-line dressing unit housing	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/56.2	M

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+90-WE520	LE-line B2-axis dressing spindle	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/108.3	M
+90-WE520.1	LE-line B2-axis dressing spindle	PE-LEITUNG 1 G 6,0 CFPE.60.01 CHAINFLEX TPE 1x6,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	392649A	&E01+10/108.3	M
+90-WF631.1	RENISHAW DQ-Interface	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0 KONFEKTIONIERT FUER DIREKTE MESSSYSTEME MIT RJ45,IP20 UND GEGENSTECKER M12,	SIEMENS	1	448706A	&E01+10/110.8	M
+90-WG90.2	BALANCE Multi-purpose transmitting unit Stator	ANSCHL.KABEL,4PM-7PF, 9CVSAE00KV08M0	BALANCE SYSTEMS	1	448828A	&E01+10/157.7	M
+90-WG520	B2 axis temperature monitoring	SIGNALLEITUNG 6FX8002-2SL10-1AE0 SIGNALLEITUNG VERLÄNGERUNG (TEMPERATURSENSOR TORQUE UND LINEARMOTOREN)	SIEMENS	1	7835777A	&E01+10/108.5	M
+90-WG520.1	B2 axis temperature monitoring	SIGNALLEITUNG 6FX8002-2SL00-1AB0 SIGNALLEITUNG KONFEKTIONIERT TYP: 6FX8002-2SL00 FUER TEMPERATURSENSOR 3X2X0.5+1X1 C	SIEMENS	1	7835773A	&E01+10/108.7	M
+90-WG520.1	B2 axis temperature monitoring	STOSSVERBINDER 0,1- 0,4 MM2 ART.-NR.669 ISOLIERTE STOßVERBINDER 0,1-0,4 MM2 FÜR FEIN- UND FEINSTDRÄHTIGE LEITER	KLAUKE	6	490542A	&E01+10/108.7	M
+90-WG520.1	B2 axis temperature monitoring	STOSSVERBINDER 1,5- 2,5 MM2 ART.-NR.680 ISOLIERTE STOßVERBINDER 1,5-2,5 MM2 FÜR FEIN- UND FEINSTDRÄHTIGE LEITER	KLAUKE	1	392496A	&E01+10/108.7	M
+90-WG521	B2 axis, motor encoder	SIGNALLEITUNG 6FX8002-2CB54-1AE0 SIGNALLEITUNG VERLAENG. F. GEBER TTL 5V, 6FX2001-2, 4X(2X0.34) + 4X0.5 C	SIEMENS	1	392625A	&E01+10/108.8	M
+90-WG600.1	Head dressing at base position	VERBINDUNGSLEITUNG AL-SKP3-1-AL-WAS3 AL-SKP3-1-AL-WAS3/S370 3POL; 1,0M PUR-KABEL M.SCHIRM;	ESCHA	1	461614A	&E01+10/208.7	M
+90-WG600.1	Head dressing at base position	SCHUTZKAPPE F.STECKER M12X 1 UNVERLIERBAR, IP67, ART.-NR.8048569 *ESCHA	ESCHA	1	392481A	&E01+10/208.7	M
+90-WG600.2	Head dressing at base position	VERBINDUNGSLEITUNG AL-SKP3-0,5-AL-SSP3.. AL-SKP3-0,5-AL-SSP3/S370	ESCHA	1	461625A	&E01+10/208.7	M
+90-WG601.1	Head dressing at operating position	VERBINDUNGSLEITUNG AL-SKP3-1-AL-WAS3 AL-SKP3-1-AL-WAS3/S370 3POL; 1,0M PUR-KABEL M.SCHIRM;	ESCHA	1	461614A	&E01+10/208.7	M
+90-WG601.1	Head dressing at operating position	SCHUTZKAPPE F.STECKER M12X 1 UNVERLIERBAR, IP67, ART.-NR.8048569 *ESCHA	ESCHA	1	392481A	&E01+10/208.7	M
+90-WG601.2	Head dressing at operating position	VERBINDUNGSLEITUNG AL-SKP3-0,5-AL-SSP3.. AL-SKP3-0,5-AL-SSP3/S370	ESCHA	1	461625A	&E01+10/208.7	M

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+90-WG630	Temperature motor C3 axis	SIGNALLEITUNG 6FX8002-2SL20-1AG0 VERLÄNGERUNGSLEITUNG FÜR TEMPERATURSENSOR TORQUE UND LINEARMOTOREN EINSEITIG MIT STECKER M17 (AUSSENGEWINDE, Gr.0,5) UND	SIEMENS	1	456243A	&E01+10/110.4	M
+90-WG920.1	Dresser unit pressure sensor	VERB.-LEITG.AL-WAKS4-05-AL-WASS4/S370 M12X1; 4POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	336742A	&E01+10/137.2	M
+90-XD520	B2 axis, motor	KABELKUPPLUNG F.MOTOR M25x1,5 923 KUPPLUNG, SPEEDTEC-READY ZENTRALBEFESTIGUNG M25X1,5, 6 POLIG	INTERCONTEC	1	456453A	&E01+10/108.2	M
+90-XG600.2	!!!WORT FEHLT!!!	SCHALTSCHRANKDURCHFÜHRUNG M8 3-POL BEST.NR. 7000-88111-0000000 *MURR ELEKTRONIK	MURRELEKTRONIK	1	461498A	&E01+10/208.8	I
+90-XG600.2	!!!WORT FEHLT!!!	SCHRAUBSTOPFEN F.BUCHSE M8X1 IP67, SCHWARZ ART.-NR.8081771*ESCHA	ESCHA	1	468182A	&E01+10/208.8	M
+90-XG601.2	!!!WORT FEHLT!!!	SCHALTSCHRANKDURCHFÜHRUNG M8 3-POL BEST.NR. 7000-88111-0000000 *MURR ELEKTRONIK	MURRELEKTRONIK	1	461498A	&E01+10/208.8	I
+90-XG601.2	!!!WORT FEHLT!!!	SCHRAUBSTOPFEN F.BUCHSE M8X1 IP67, SCHWARZ ART.-NR.8081771*ESCHA	ESCHA	1	468182A	&E01+10/208.8	M
+92-BG920.5	Path sensor, counter support center 1	INDUKT. SENSOR BIP LD2-T017-04-BP00,5-S4 Baugrösse: 30 x 18 x 40.5 mm Betriebsspg: 24V DC	BALLUFF	1	480505A	&E01+10/138.2	M
+92-BG920.5	Path sensor, counter support center 1	POSITIONSGEBER BAM TG-XE-020 für Bedämpfung Induktive Sensoren Abmessung: 27 x 10 x 28 mm	BALLUFF	1	480506A	&E01+10/138.2	M
+92-BS20	Z1 axis, counter support 1 vibration sensor	SCHWINGUNGSSENSOR VSA004 BETRIEBSSSPG: 9VDC / 15mA MESSBEREICH: +- 25g, ÜBERLAST: 500g	IFM	1	391652A	&E01+10/131.1	M
+92-BS20	Z1 axis, counter support 1 vibration sensor	STECKER M12 4POL RSCS 4/9 KONFEKTIONIERBAR, MIT SCHRAUBVERSCHLUSS, IP 67, MAX. 0,75MM für KABEL-D=4,0-9MM	LUMBERG	1	367161A	&E01+10/131.1	M
+92-MA310	Z1 axis, motor	SERVOMOTOR 1FK7060-2AF71-1RH1-Z Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-CT 1FK7060-2AF71-1RH1-Z Q31 *SIEMENS	SIEMENS	1	448732A	&E01+10/116.1	M
+92-WD310	Motor cable Z1-axis, motor	LEISTUNGSLEITUNG 6FX8002-5DS06-1AG0 4X1,5, (2X1.5)C C STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456193A	&E01+10/116.1	M
+92-WE92	PE-line counter support 1	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.4	M
+92-WG20.1	Z1 axis, counter support 1 vibration sensor	VERB.-LEITG.AL-WAKS4-04-AL-WASS4/S370 M12X1; 4POL; 4,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	436071A	&E01+10/131.2	M

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+92-WG20.2	Z1 axis, counter support 1 vibration sensor	VERB.-LEITG. AL-WAKS4-03-AL-WASS4/S370 M12X1; 4POL; 3,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	459636A	&E01+10/131.2	M
+92-WG310	Z1 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1AG0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 6M	SIEMENS	1	392090A	&E01+10/116.6	M
+92-WG920.5	Path sensor, counter support center 1	VERB.-LEITG.AL-WAKS4-04-AL-WASS4/S370 M12X1; 4POL; 4,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	436071A	&E01+10/138.2	M
+92-WG920.51	Path sensor, counter support center 1	VERB.-LEITG.AL-WAK4-3-AL-WAS4/S370 M12 KUPPLUNG/GERADE / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	448326A	&E01+10/138.2	M
+92-XG20.1	+92-XG20.1 vibration sensor Z1 axis	STECKER M12 4POL RSCS 4/9 KONFEKTIONIERBAR, MIT SCHRAUBVERSCHLUSS, IP 67, MAX. 0,75MM für KABEL-D=4,0-9MM	LUMBERG	1	367161A	&E01+10/43.0	M
+93-XG21.1	+93-XG21.1 vibration sensor Z2 axis	STECKER M12 4POL RSCS 4/9 KONFEKTIONIERBAR, MIT SCHRAUBVERSCHLUSS, IP 67, MAX. 0,75MM für KABEL-D=4,0-9MM	LUMBERG	1	367161A	&E01+10/43.0	M
+95-WE95	PE-line counter support 1	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.5	M
+95-WE95.1	PE-line counter support 1	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.6	M
+99-FM99	CO2 extinguishing system	CO2-LÖSCHANLAGE BIS 6,5 M3 AUTOM. SV FÜR SPEED VIPER² 80/180 UND SPEED VIPER 180/300 GEMÄß ANGEBOT-NR.: 30129-0 VOM 10.04.2021	KRAFT+BAUER	1	7837931A	&E01+10/51.0	M
+99-WD99	Supply fire extinguishing system	STEUERLEITG.ÖLFLEX-540P 3G 1,5 (GELB) ADER-IDENT-CODE FARBIG NACH VDE0293 450/750V ART.-NR.0012463	LAPP	1	331531A	&E01+10/51.2	M
+99-WD99.1	Supply fire extinguishing system	STEUERLEITG.ÖLFLEX-540P 3G 1,5 (GELB) ADER-IDENT-CODE FARBIG NACH VDE0293 450/750V ART.-NR.0012463	LAPP	1	331531A	&E01+10/51.2	M
+99-WG99.1	Fire extinguishing system interface	PUR-KABEL 18X0,5QMM UL/CSA mit Schutzleiter GN-YE, AD=12,8mm Best.Nr.24376	HELUKABEL	1	7834430A	&E01+10/52.0	M
+99-XD99	+99-XD99 fire extinguishing system interface	6 polig + PE		1	HAN6E_PE	&E01+10/42.7	M
+99-XD99	+99-XD99 fire extinguishing system interface	STECKDOSENEINS. 09.33.006.2701 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097545A	&E01+10/42.7	M
+99-XD99	+99-XD99 fire extinguishing system interface	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/42.7	M

B = Providing M = machine PU = operating control unit KLD = embedding KLD I = cabinet I II = cabinet II

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+99-XD99	+99-XD99 fire extinguishing system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.7	M
+99-XD99	+99-XD99 fire extinguishing system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.7	M
+99-XD99	+99-XD99 fire extinguishing system interface	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.7	M
+99-XG99	+99-XG99 fire extinguishing system interface	24 polig + PE		1	HAN24E_PE	&E01+10/42.6	M
+99-XG99	+99-XG99 fire extinguishing system interface	STECKDOSENEINS. 09.33.024.2701 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097530A	&E01+10/42.6	M
+99-XG99	+99-XG99 fire extinguishing system interface	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/42.6	M
+99-XG99	+99-XG99 fire extinguishing system interface	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.6	M
+99-XG99	+99-XG99 fire extinguishing system interface	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.6	M
+99-XG99	+99-XG99 fire extinguishing system interface	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/42.6	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	24 polig + PE		1	HAN24E_PE	&E01+10/42.8	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	STECKDOSENEINS. 09.33.024.2701 Han 24 E Baugrösse 24 B; Schraubanschluss; 24pol+PE; 16A/500V AC	HARTING	1	097530A	&E01+10/42.8	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	TÜLLENGEHÄUSE 19.30.024.1521 Baugrösse 24 B mit 2-Querbügel am Unterteil; niedrige Bauform; 1 seitl.Kabelausgang M25;	HARTING	1	353518A	&E01+10/42.8	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.8	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.8	M
+99-XG99.1	+99-XG99 Fire extinguishing system manual release	KABELVERSHR TOP-T M25x1,5 11- 18MM (11 - 18MM) ART.-NR.:600762 *LÜTZE	LÜTZE	1	391165A	&E01+10/42.8	M

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+100-BG331	Z3 axis, external measuring system	MONORAIL AMSABS 3B 35X600 "EIN SATZ BESTEHEND AUS: 1X AMS ABS 3B S 35-NU-G1-KC-R12-600-202-20-CN-TA1	SCHNEEBERGER	1	7837781A	&E01+10/121.8	M
+100-BG331	Z3 axis, external measuring system	LITHIUM-BATTERIE AA LS 14500 *SAFT 3,6V 2,6Ah 50mA D14,5 x L50,3mm *SAFT	SAFT	1	459564A	&E01+10/121.8	M
+100-BG341	Z4 axis, external measuring system	MONORAIL AMSABS 3B 35X600 "EIN SATZ BESTEHEND AUS: 1X AMS ABS 3B S 35-NU-G1-KC-R12-600-202-20-CN-TA1	SCHNEEBERGER	1	7837781A	&E01+10/123.8	M
+100-BG341	Z4 axis, external measuring system	LITHIUM-BATTERIE AA LS 14500 *SAFT 3,6V 2,6Ah 50mA D14,5 x L50,3mm *SAFT	SAFT	1	459564A	&E01+10/123.8	M
+100-BG641	C4 axis, external measuring system	ABTASTKOPF SA26DBA104B10S *RENISHAW ABTASTKOPF SA26DBA104B10S *RENISHAW	RENISHAW	1	7835353A	&E01+10/125.8	M
+100-BG641	C4 axis, external measuring system	WINKELMESSSYSTEM RESA30USA104B *RENISHAW DURCHMESSER 104 MM MAX. DREHZAHL 18.000 MIN-1 RESA30USA104B *RENISHAW	RENISHAW	1	7835352A	&E01+10/125.8	M
+100-BG920.7	Hubüberwachung Greifer 1 Z3- Achse (nur bei "ES")	POSITIONIERSYSTEM PMI40-F90-IU2EP-IO-V15 INDUKTIVES POSITIONSMESSSYSTEM PMI40-F90-IU2EP-IO-V15 *PEPPERL+FUCHS	PEPPERL + FUCHS GmbH	1	7837754A	&E01+10/138.5	M
+100-BG920.8	Hubüberwachung Greifer 2 Z4- Achse (nur bei "ES")	POSITIONIERSYSTEM PMI40-F90-IU2EP-IO-V15 INDUKTIVES POSITIONSMESSSYSTEM PMI40-F90-IU2EP-IO-V15 *PEPPERL+FUCHS	PEPPERL + FUCHS GmbH	1	7837754A	&E01+10/138.7	M
+100-EA100	loading device	EINBAULEUCHTE KSP0444-1000A 22-28 V DC / 36 W / 140° / kaltweiss / neutralweisst / Al Gehäuse /	DIANA ELECTRONIC	1	7835316A	&E01+10/63.4	M
+100-MA330	Z3 axis, motor	SERVOMOTOR 1FK7060-2AF71-1RH1-Z Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-CT 1FK7060-2AF71-1RH1-Z Q31 *SIEMENS	SIEMENS	1	448732A	&E01+10/121.1	M
+100-MA340	Z4 axis, motor	SERVOMOTOR 1FK7060-2AF71-1RH1-Z Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-CT 1FK7060-2AF71-1RH1-Z Q31 *SIEMENS	SIEMENS	1	448732A	&E01+10/123.1	M
+100-MA640	C4 axis, motor	SERVOMOTOR 1FK7062-3BF71-1RH1-Z Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-HI 1FK7062-3BF71-1RH1-Z Q31 *SIEMENS	SIEMENS	1	448731A	&E01+10/125.1	M
+100-QQ100.1	Safety switch for loading door, on left	SICHERHEITSSCHALTER CES-AR-C01-AH-SA BERÜHRUNGSLOSER SICHERHEITSSCHALTER UNICODE BEST.NR.098941 *EUCHNER	EUCHNER	1	392582A	&E01+10/193.1	M
+100-QQ100.1	Safety switch for loading door, on left	BETÄTIGER CES-A-BPA QUADERFÖRMIGE BAUFORM 40 X 40MM FÜR SICHERHEITSSCHALTER CES-AR-C01-AH-SA	EUCHNER	1	392583A	&E01+10/193.1	M
+100-QQ100.2	Safety switch for loading door, on right	SICHERHEITSSCHALTER CES-AR-C01-AH-SA BERÜHRUNGSLOSER SICHERHEITSSCHALTER UNICODE BEST.NR.098941 *EUCHNER	EUCHNER	1	392582A	&E01+10/193.5	M

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+100-QQ100.2	Safety switch for loading door, on right	BETÄTIGER CES-A-BPA QUADERFÖRMIGE BAUFORM 40 X 40MM FÜR SICHERHEITSSCHALTER CES-AR-C01-AH-SA	EUCHNER	1	392583A	&E01+10/193.5	M
+100-WD330	Motor cable Z3-axis, motor	LEISTUNGSLEITUNG 6FX8002-5DS06-1AK0 4X1,5 (2x1.5)C C, STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456198A	&E01+10/121.1	M
+100-WD340	Motor cable Z4-axis, motor	LEISTUNGSLEITUNG 6FX8002-5DS06-1AK0 4X1,5 (2x1.5)C C, STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456198A	&E01+10/123.1	M
+100-WD640	Motor cable C4 axis, motor	LEISTUNGSLEITUNG 6FX8002-5DS06-1AG0 4X1,5, (2X1.5)C C STECKER VOLLGEWINDE GR.1 KABEL: MOTION-CONNECT 800PLUS, SCHLEPPFÄHIG,	SIEMENS	1	456193A	&E01+10/125.1	M
+100-WE100	PE-line loader	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.7	M
+100-WG100	loading device	VERB.-LEITG. AL-SWKP3-5-AL-WAS3/S370 M8 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 60-250V DC / 4A, IP67, 3-polig,	ESCHA	1	456239A	&E01+10/63.4	M
+100-WG100.12	Safety switch for loading door, on left	VERB.-LEITG. AL-WAK8-6-AL-WAS8/S370 M12 KUPPLUNG/GERADE - M12 STECKER/GERADE, 30V DC / 2A, OHNE LED, IP67, 8-polig,	ESCHA	1	456297A	&E01+10/193.2	M
+100-WG100.22	Safety switch for loading door, on left	VERB.-LEITG. AL-WAK8-6-AL-WAS8/S370 M12 KUPPLUNG/GERADE - M12 STECKER/GERADE, 30V DC / 2A, OHNE LED, IP67, 8-polig,	ESCHA	1	456297A	&E01+10/193.5	M
+100-WG330	Z3 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1AK0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 9M	SIEMENS	1	391418A	&E01+10/121.6	M
+100-WG331	DRIVE-CLIQ Schneeberger AMSABS 35X600	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0 KONFEKTIONIERT FUER DIREKTE MESSSYSTEME MIT RJ45,IP20 UND GEGENSTECKER M12,	SIEMENS	1	448706A	&E01+10/121.8	M
+100-WG331.1	DRIVE-CLIQ Schneeberger AMSABS 35X600	VERB.-LEITG. AL-WAKS8-03-AL-WASS8/S370 M12X1; 8POL; 3,0M PUR-KABEL M.SCHIRM; U-Max 30V; I-Max 2A; IP67;	ESCHA	1	7835684A	&E01+10/121.8	M
+100-WG340	Z4 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1AK0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 9M	SIEMENS	1	391418A	&E01+10/123.6	M
+100-WG341	DRIVE-CLIQ Schneeberger AMSABS 35X600	DRIVE-CLIQ LTG. 6M 6FX8002-2DC30-1AG0 KONFEKTIONIERT FUER DIREKTE MESSSYSTEME MIT RJ45,IP20 UND GEGENSTECKER M12,	SIEMENS	1	448706A	&E01+10/123.8	M
+100-WG341.1	DRIVE-CLIQ Schneeberger AMSABS 35X600	VERB.-LEITG. AL-WAKS8-03-AL-WASS8/S370 M12X1; 8POL; 3,0M PUR-KABEL M.SCHIRM; U-Max 30V; I-Max 2A; IP67;	ESCHA	1	7835684A	&E01+10/123.8	M
+100-WG640	C4 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1AG0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 6M	SIEMENS	1	392090A	&E01+10/125.6	M

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number		Page/path	Index
+100-WG641	RENISHAW reading head	VERB.-LEITG. AL-WAKS8-05-AL-WASS8/S370 M12X1; 8POL; 5,0M PUR-KABEL M.SCHIRM; U-Max 30V; I-Max 2A; IP67;	ESCHA	1	459556A	&E01+10/125.8	M
+100-WG920.7	Stroke monitoring for gripper 1, Z3-axis (only with "ES")	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/138.5	M
+100-WG920.8	Stroke monitoring for gripper 2, Z4-axis (only with "ES")	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/138.7	M
+100-WG920.71	Stroke monitoring for gripper 1, Z3-axis (only with "ES")	VERBINDUNGSLEITUNG AL-SWKP4-3-AL-WAS4 AL-SWKP4-3-AL-WAS4/S370 M8 Kupplung abgew., M12 Stecker ger., L = 3m, 4pol.	ESCHA	1	480338A	&E01+10/138.5	M
+100-WG920.81	Stroke monitoring for gripper 2, Z4-axis (only with "ES")	VERBINDUNGSLEITUNG AL-SWKP4-3-AL-WAS4 AL-SWKP4-3-AL-WAS4/S370 M8 Kupplung abgew., M12 Stecker ger., L = 3m, 4pol.	ESCHA	1	480338A	&E01+10/138.7	M
+100-WG923	IO link line sensor stroke Z3 axis	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/155.1	M
+100-WG923.1	IO link line sensor stroke Z3 axis	VERB.-LEITG.AL-WWAKS4-02-AL-WASS4/S370 M12 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	392504A	&E01+10/155.1	M
+100-WG924	IO link line sensor stroke Z4 axis	VERB.-LEITG.AL-WAKS4-06-AL-WASS4/S370 M12X1; 4POL; 6,0M PUR-KABEL M.SCHIRM; U-Max 250V; I-Max 4A; IP67/IP69K;	ESCHA	1	364190A	&E01+10/156.1	M
+100-WG924.1	IO link line sensor stroke Z4 axis	VERB.-LEITG.AL-WWAKS4-02-AL-WASS4/S370 M12 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 250V DC / 4A, OHNE LED, IP67, 4-polig,	ESCHA	1	392504A	&E01+10/156.1	M
+100-XF923	IO link sensor stroke Z3 axis	IO-LINK MODUL BNI IOL-101-S01-K018 4 Steckplätze (4x IO-Link Eingänge) BESTELLCODE: BNI001W *BALLUFF	BALLUFF	1	448466A	&E01+10/155.0	M
+100-XF924	IO link sensor stroke Z3 axis	IO-LINK MODUL BNI IOL-101-S01-K018 4 Steckplätze (4x IO-Link Eingänge) BESTELLCODE: BNI001W *BALLUFF	BALLUFF	1	448466A	&E01+10/156.0	M
+101-WG101.2	safety rail loader door	SUPERFLEX + 3000 PUR 3G1,0 113050 TYP SUPERFLEX-PLUS N PUR 300/500V HALOGENFREI	LUETZE	1	169463A	&E01+10/186.8	M
+101-WG101.21	safety rail loader door	SUPERFLEX + 3000 PUR 3G1,0 113050 TYP SUPERFLEX-PLUS N PUR 300/500V HALOGENFREI	LUETZE	1	169463A	&E01+10/186.9	M
+101-BG921.6	Loading door open	NÄHERUNGSSCHALTER BES 516-325-S4-C (M12x1, PNP, Schließer, Sn=2mm / bündig, Steckbar M12x1, L=40/70mm, LED)	BALLUFF	1	257102A	&E01+10/152.5	M
+101-EA101	Intermediate storage	EINBAULEUCHTE LME0480-0000A 22-28 V DC / 10 W / 140° / kaltweiss / Floatglas gehärtet / Al Gehäuse /	DIANA ELECTRONIC	1	436275A	&E01+10/63.7	M

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+101-EA101	Intermediate storage	EINBAUDICHTUNG ZMDEE-0480E geeignet für Einbauleuchten Serie 110x70 / Abmessungen 110/90 x 70/50 x 2 mm /	DIANA ELECTRONIC	1	436276A	&E01+10/63.7	M
+101-MA140	X4 axis, motor	SERVOMOTOR 1FK7032-2AK71-1RG1-Z Q31 SIMOTICS S SYNCHRONMOTOR 1FK7-CT PN=0,50 KW; UZK=600V M0=1,15NM (100K);	SIEMENS	1	459619A	&E01+10/127.0	M
+101-QQ101.1	safety switch loader door	SICHERHEITSSCHALT.STP3A-2131A024L024RC18 24V DC +-15%; IP65; -20 - +55 GRD C; STECKVERBINDER M23 19POL (RC18)	EUCHNER	1	490654A	&E01+10/195.2	M
+101-QQ101.1	safety switch loader door	BETÄTIGER-S-WQT-LN 095741 *EUCHNER BETÄTIGER L ABGEWINKELT FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM	EUCHNER	1	490655A	&E01+10/195.2	M
+101-QQ101.1	safety switch loader door	EINFÜHRTRICHTER-S 093157 *EUCHNER FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM BEST.NR.093157 *EUCHNER	EUCHNER	1	490656A	&E01+10/195.2	M
+101-QQ101.1	safety switch loader door	NOTENTSPERRUNG AE-M-A1-99877 *EUCHNER FÜR SICHERHEITSSCHALTER SGA/SGP/STA/STP/STM BEST.NR.099877 *EUCHNER	EUCHNER	1	490657A	&E01+10/195.2	M
+101-QQ101.2	safety rail loader door	SICHERHEITSSCHALTLEISTE / SAFTEY EDGES siehe Stückliste Mechanik see partslist mechanic	HAAKE	1	Haake-01	&E01+10/186.8	M
+101-WD140	X4-axis motor	LEISTUNGSLEITUNG 6FX8002-5CS06-1AH0 6FX8002-5CS06 *SIEMENS MM LAENGE (M) = + 0 + 0 + 7 + 0	SIEMENS	1	456327A	&E01+10/127.1	M
+101-WE101	PE line intermediate storage	PE-LEITUNG 1 G 25,0 CFPE.250.01 CHAINFLEX TPE 1x25,0 SCHUTZLEITER GN-GE UNGESCHIRMT MIT TPE AUSSENMANTEL TIEFSCHWARZ;	IGUS	1	391381A	&E01+10/56.8	M
+101-WG101	Intermediate storage	VERBIND.LEIT.RST4-RKT4-225/5M (M12 Stecker/Gerade - M12 Kupplung/Gerade, max. 240V / 4A, ohne LED, IP68,	LUMBERG	1	362785A	&E01+10/63.7	M
+101-WG101.1	Sicherheitsschalter Beladetür	C-M23F19-19XDIFPU010,0-MA-092902 M23 BUCHSENSTECKER WINKLIG/RECHTS KABEL L=10M 18-POLIG + PE;PUR-LEITUNG;MIT OFFENEM	EUCHNER	1	846144A	&E01+10/195.2	M
+101-WG101.4	Intermediate storage	VERB.-LEITG. AL-SWKP3-2-AL-WAS3/S370 M8 KUPPLUNG/WINKIG / M12 STECKER/GERADE, 60-250V DC / 4A, IP67, 3-polig,	ESCHA	1	459620A	&E01+10/63.7	M
+101-WG140	X4 axis, motor encoder	SIGNALLEITUNG 6FX8002-2DC10-1AH0 (SINAMICS DRIVE CLIQ) STECKER IP20/IP67; MIT 24V MOTION-CONNECT 800; L= 7M	SIEMENS	1	392085A	&E01+10/127.6	M
+101-WG921.6	Loading door open	VERBIND.LEIT.RST4-RKWT/LED P4-225/2M STECKER M12 / WINKELKUPPLUNG M12 MIT 3 LED, GERADE/WINKEL, IP68/IP68,BETRIEBSSP: 10-30VDC, MAX:4A	LUMBERG	1	367741A	&E01+10/152.5	M
+101-XG101.3	+101-XG101.3 loading door safety strip	6 polig + PE		1	HAN6E_PE	&E01+10/42.0	M

B = Providing M = machine PU = operating control unit KLD = embedding KLD I = cabinet I II = cabinet II

Device list

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DT	Designation (BMK)	Elektrical value (type)	Manufacturer	Part number Number	Part number	Page/path	Index
+101-XG101.3	+101-XG101.3 loading door safety strip	STECKDOSENEINS. 09.33.006.2701 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097545A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	TÜLLENGEHÄUSE 19.30.006.1540 *HARTING	HARTING	1	353500A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	KABELVERSHR TOP-T M20x1,5 8- 13MM (8 - 13MM) ART.-NR.:600761 *LÜTZE	LÜTZE	1	391163A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	STECKEREINSATZ 09.33.006.2601 HAN 6 E 6POL+PE,16A/380V AC *HARTING	HARTING	1	097547A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	SOCKELGEHÄUSE 19.30.006.1295 *HARTING	HARTING	1	353503A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	FÜHRUNGSSTIFT 09.33.000.9908 *HARTING	HARTING	2	302611A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	FÜHRUNGSBUCHSE 09.33.000.9909 *HARTING	HARTING	2	302612A	&E01+10/42.0	M
+101-XG101.3	+101-XG101.3 loading door safety strip	KABELVERSHR TOP-TR M20x1,5 6 - 12MM (6 - 12MM) ART.-NR.:600781 *LÜTZE	LÜTZE	1	391162A	&E01+10/42.0	M
+102-WF102	Profinet couple with extern automation	KABEL BCC M414-E834-8G-668-PS54T2-100 VERBINDUNGSKABEL M12 4-POL/STI // RJ45; PUR-KABEL 4x0,34MM2; D= 6,7MM; L=10,0M	BALLUFF	1	392525A	&E01+10/178.9	M
+102-WG103	Interface external automation	PUR-N-KABEL 18X1 NR.22141 18x1 A-Nr.22141 Pur-N-Kabel	HELUKABEL	1	7824100A	&E01+10/178.0	M

B = Providing M = machine PU = operating control unit KLD = embedding KLD I = cabinet I II = cabinet II