



electrical documentation

model : N 1000/H

order number : 534200

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■ Made
■ in
■ Germany

Table of contents

function	Mounting location	sheet	Page description	Date	Edited by
	DOKU	1	cover	06.10.2022	J.Ohlgrogge
	DOKU	2	table of contents	12.01.2023	J.Ohlgrogge
	DOKU	2.a	table of contents	12.01.2023	J.Ohlgrogge
	DOKU	2.b	table of contents	12.01.2023	J.Ohlgrogge
	DOKU	2.c	table of contents	12.01.2023	J.Ohlgrogge
	DOKU	2.d	table of contents	26.10.2022	J.Ohlgrogge
	DOKU	4.a	electrical data	06.10.2022	J.Ohlgrogge
	DOKU	4.b	rating plate	06.10.2022	J.Ohlgrogge
	DOKU	4.c	switch cabinet specification	06.10.2022	J.Ohlgrogge
	DOKU	4.d	conductor colors DIN / EN standard	06.10.2022	J.Ohlgrogge
	DOKU	4.f	Structure identifier overview	06.10.2022	J.Ohlgrogge
	DOKU	5	overview at the installationparts	06.10.2022	J.Ohlgrogge
	SA	6	power feed-in	14.10.2022	J.Ohlgrogge
	SA	7	protective-conductor terminals	06.10.2022	J.Ohlgrogge
	SA	10	semiconductor heating furnace	06.10.2022	J.Ohlgrogge
	SA	11	heating furnace	26.10.2022	J.Ohlgrogge
	SA	12	Control semiconductor heating furnace	06.10.2022	J.Ohlgrogge
	SA	40	control exhaust air flap	06.10.2022	J.Ohlgrogge
	SA	69	Potentialfreie Kontakte	06.10.2022	J.Ohlgrogge
	SA	75	reserve cables	17.10.2022	J.Ohlgrogge
	SA	81	switchgear lighting and service socket-outlet	14.10.2022	J.Ohlgrogge
	SA	83	switch cabinet ventilation	06.10.2022	J.Ohlgrogge
	SA	86	control voltage primary 230V and 24V	14.10.2022	J.Ohlgrogge
	SA	87	control voltage 230V AC	06.10.2022	J.Ohlgrogge
	SA	90	control current supply 24V DC	06.10.2022	J.Ohlgrogge
	SA	93	UPS control voltage 24V	06.10.2022	J.Ohlgrogge
	SA	95	control voltage	06.10.2022	J.Ohlgrogge
	SA	100	NCC	06.10.2022	J.Ohlgrogge

Table of contents

function	Mounting location	sheet	Page description	Date	Edited by
	SA	101	VPN-Router eWON	06.10.2022	J.Ohlgrogge
	SA	102	communication	06.10.2022	J.Ohlgrogge
	SA	103	PLC - overview	06.10.2022	J.Ohlgrogge
	SA	105	PLC - power supply Inputs	06.10.2022	J.Ohlgrogge
	SA	106	PLC - power supply Outputs	06.10.2022	J.Ohlgrogge
	SA	110	overview Inputs(I) / Outputs(Q)	06.10.2022	J.Ohlgrogge
	SA	111	overview Inputs(I) / Outputs(Q)	06.10.2022	J.Ohlgrogge
	SA	112	overview Inputs(I) / Outputs(Q)	06.10.2022	J.Ohlgrogge
	SA	119	overview Inputs(I) reserve	06.10.2022	J.Ohlgrogge
	SA	120	overview Outputs(Q) reserve	06.10.2022	J.Ohlgrogge
	SA	121	over-temperature limiter with manual reset furnace chamber	06.10.2022	J.Ohlgrogge
	SA	123	interlock door front (Gray room)	06.10.2022	J.Ohlgrogge
	SA	124	interlock door rear (Clean room)	06.10.2022	J.Ohlgrogge
	SA	125	door safety switch	06.10.2022	J.Ohlgrogge
	SA	135	safety contactors	06.10.2022	J.Ohlgrogge
	SA	140	thermocouples furnace chamber part 1	15.11.2022	J.Ohlgrogge
	SA	141	thermocouples furnace chamber part 2	06.10.2022	J.Ohlgrogge
	SA	180	signal column switch cabinet	06.10.2022	J.Ohlgrogge
	SA	181	signal column Clean room	06.10.2022	J.Ohlgrogge
	SA	182	control box Clean room	06.10.2022	J.Ohlgrogge
	SA	250	emergency stop switching device	23.11.2022	Schorlemmer-Dettmer
	SA	251	-X0 terminal strip main connecting	06.10.2022	J.Ohlgrogge
	SA	252	-X3 transition terminal strip transducer	06.10.2022	J.Ohlgrogge
	SA	253	-X6 clamping distributor 24V signal column	06.10.2022	J.Ohlgrogge
	SA	254	-1X0 clamping distributor switchgear lighting	06.10.2022	J.Ohlgrogge
	SA	255	-1X1 outgoing terminal strip heating	06.10.2022	J.Ohlgrogge
	SA	256	-1X1 outgoing terminal strip heating	06.10.2022	J.Ohlgrogge
	SA	257	-1X2 transition terminal strip 230V mounting plate / operating	06.10.2022	J.Ohlgrogge

Table of contents

function	Mounting location	sheet	Page description	Date	Edited by
	SA	258	-1X5 clamping distributor 230V~ door	06.10.2022	J.Ohlgrogge
	SA	259	-1X5L clamping distributor 230V~ door	06.10.2022	J.Ohlgrogge
	SA	260	-1X5N clamping distributor 0V~ door	06.10.2022	J.Ohlgrogge
	SA	261	-2X1 outgoing terminal strip thermocouples	06.10.2022	J.Ohlgrogge
	SA	262	-2X2 transition terminal strip 24 V mounting plate / operating	09.11.2022	J.Ohlgrogge
	SA	263	-2X5L clamping distributor 230V~	06.10.2022	J.Ohlgrogge
	SA	264	-2X5N clamping distributor 0V~	06.10.2022	J.Ohlgrogge
	SA	265	-3X0 outgoing terminal strip potential-free contacts	06.10.2022	J.Ohlgrogge
	SA	266	-3X1 outgoing terminal strip 24V	06.10.2022	J.Ohlgrogge
	SA	267	-3X1 outgoing terminal strip 24V	06.10.2022	J.Ohlgrogge
	SA	268	-3X2 transition terminal strip signal column	06.10.2022	J.Ohlgrogge
	SA	269	-3X4 clamping distributor 24V+ PLC	06.10.2022	J.Ohlgrogge
	SA	270	-3X4M clamping distributor 24V-	06.10.2022	J.Ohlgrogge
	SA	271	-3X4P clamping distributor 24V+	12.01.2023	J.Ohlgrogge
	SA	272	-4X1 outgoing terminal strip power 230/400V	06.10.2022	J.Ohlgrogge
	SA	273	-5X1 terminal strip protective-conductor	06.10.2022	J.Ohlgrogge
	SA	274	-5X4 clamping distributor Control heating	06.10.2022	J.Ohlgrogge
	SA	275	-6X1 outgoing terminal strip door switch 24/230V	06.10.2022	J.Ohlgrogge
	SA	276	-14X1 outgoing terminal strip motor for exhaust air flaps	06.10.2022	J.Ohlgrogge
	SA	277	-14X1.1 outgoing terminal strip 24V motor for exhaust air flaps	06.10.2022	J.Ohlgrogge
	SA	278	-33X1 outgoing terminal strip safty shut-down	06.10.2022	J.Ohlgrogge
	PC	1	-100X0 clamping distributor NCC	06.10.2022	J.Ohlgrogge
	KK01	1	-1X6 Field terminal strip heating	26.10.2022	J.Ohlgrogge
	KK01	2	-1X6 Field terminal strip heating	26.10.2022	J.Ohlgrogge
	KK01	3	-2X6 Field terminal strip thermocouples	26.10.2022	J.Ohlgrogge
	KK01	4	-3X6 Field terminal strip 24V	26.10.2022	J.Ohlgrogge
	KK01	5	-4X6 Field terminal strip power 230/400V	26.10.2022	J.Ohlgrogge
	KK01	6	-6X6 Field terminal strip door safety switch 24/230V	26.10.2022	J.Ohlgrogge

Table of contents

function	Mounting location	sheet	Page description	Date	Edited by
	AW	804	list of parts	06.10.2022	J.Ohlrogge
	AW	805	list of parts	06.10.2022	J.Ohlrogge
	AW	806	list of parts	06.10.2022	J.Ohlrogge
	AW	807	list of parts	06.10.2022	J.Ohlrogge
	AW	808	list of parts	13.10.2022	J.Ohlrogge
	AW	809	list of parts	06.10.2022	J.Ohlrogge
	AW	810	list of parts	06.10.2022	J.Ohlrogge
	AW	811	list of parts	06.10.2022	J.Ohlrogge
	AW	950	configuration over-temperature limiter with manual reset execution 2	06.10.2022	J.Ohlrogge

electrical data							
	power rated [kW]	nominal current [A]	fuses the each main circuits	control fuses primary	control-power transformer	automatic circuit-breakers secondary	wiring
switchgear	77	L1 = 111,9 L2 = 111,9 L3 = 114,7					
N 1000/H	75	L1 = 108,4 L2 = 108,4 L3 = 108,4	3x NH000 50A				3x delta
switchgear lighting service socket-outlet	1,0	L2 = 2,87 L3 = 2,87	1x B10A 1x C 4A	2x NH000 10A			
control voltage 230V	1,0	L1 = 2,87 L3 = 2,87	power circuit-breaker 1,6-2,5A setting value: 2,87A		1,0 kVA / 4,35A	1x C4A	
control voltage 24 V		L1 = 0,6 L2 = 0,6 L3 = 0,6	power circuit-breaker 2,8 - 4A setting value: 3A			1x C10A 2x C 3A 1x C 2A	

equipments indentification by DIN EN81346-2

Nabertherm

model:

N 1000/H

serial number :

look rating plate
switchgear

rated voltage :

3/PE 50cps 400V

rated current :

L1 =111,9 A
L2 =111,9 A
L3 =114,7 A

load:

77 kW

wiring diagram-no.:

M058500

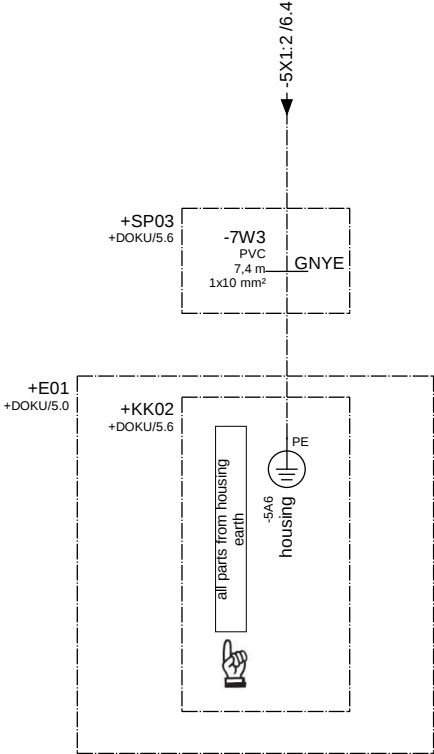
switch cabinet

measure cabinet (WxHxD):	1200x2000x400 mm inclusive 200mm plinth
measure mounting plate:	1099x1696 mm
locking system cabinet:	3mm double bit
color outside:	RAL 7035
color inside:	RAL 7035
color mounting plate:	zinc-plated
support rails:	zinc-plated
color plinth:	RAL 9005

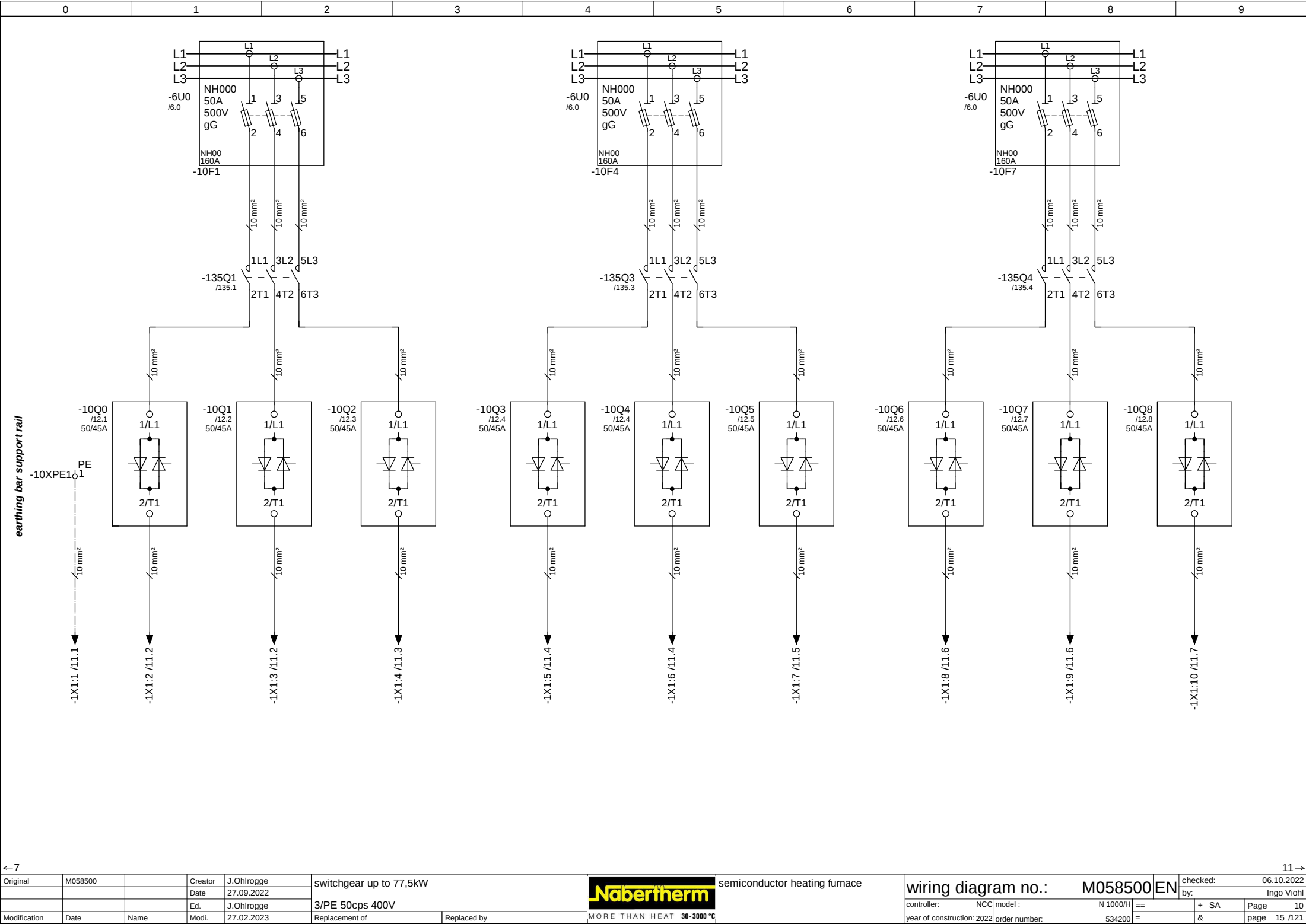
conductor colors DIN / EN standard		
conductor colors main current:		
L1	= BK	
L2	= BK	
L3	= BK	
L	= BK	
N	= BU	
PE	= GNYE	
conductor colors control:		
pilot circuit 230V AC L1	= RD 1mm²	H05V-K
pilot circuit 230V AC L0	= RD 1mm²	H05V-K
pilot circuit 24V DC L+	= DBU 1mm²	H05V-K
pilot circuit 24V DC L-	= DBU 1mm²	H05V-K
pilot circuit 24V DC L+	= DBU 0,5mm² PLC	H05V-K
pilot circuit 24V DC L-	= DBU 1mm² PLC	H05V-K
measuring transformer-circuit	= WH 1,5mm²	H07V-K
external voltage / voltage before the main switch	= OG	
ASi-single conductor wiring	= YE 1,5mm²	H07V-K
thermocouple-compensations wire by DIN IEC 584		
voltages:		
power mains:	3/PE 50cps 400V	
control voltage:	230V	

Structure identifier overview

Full designation	Structure description
location	
+DOKU	general technical specifications
+SA	switchgear with terminal lay-outs
+PC	PC + NCC
+E01	furnace with terminal lay-outs
+KK01	terminal box 1 at furnace
+KK02	terminal box 2 at furnace
+KK03	terminal box 3 at furnace
+SP01	tube 1
+SP02	tube 2
+SP03	tube 3
+AN	view switch cabinet
+AW	Evaluation



protective-conductor
terminal control box Clean room

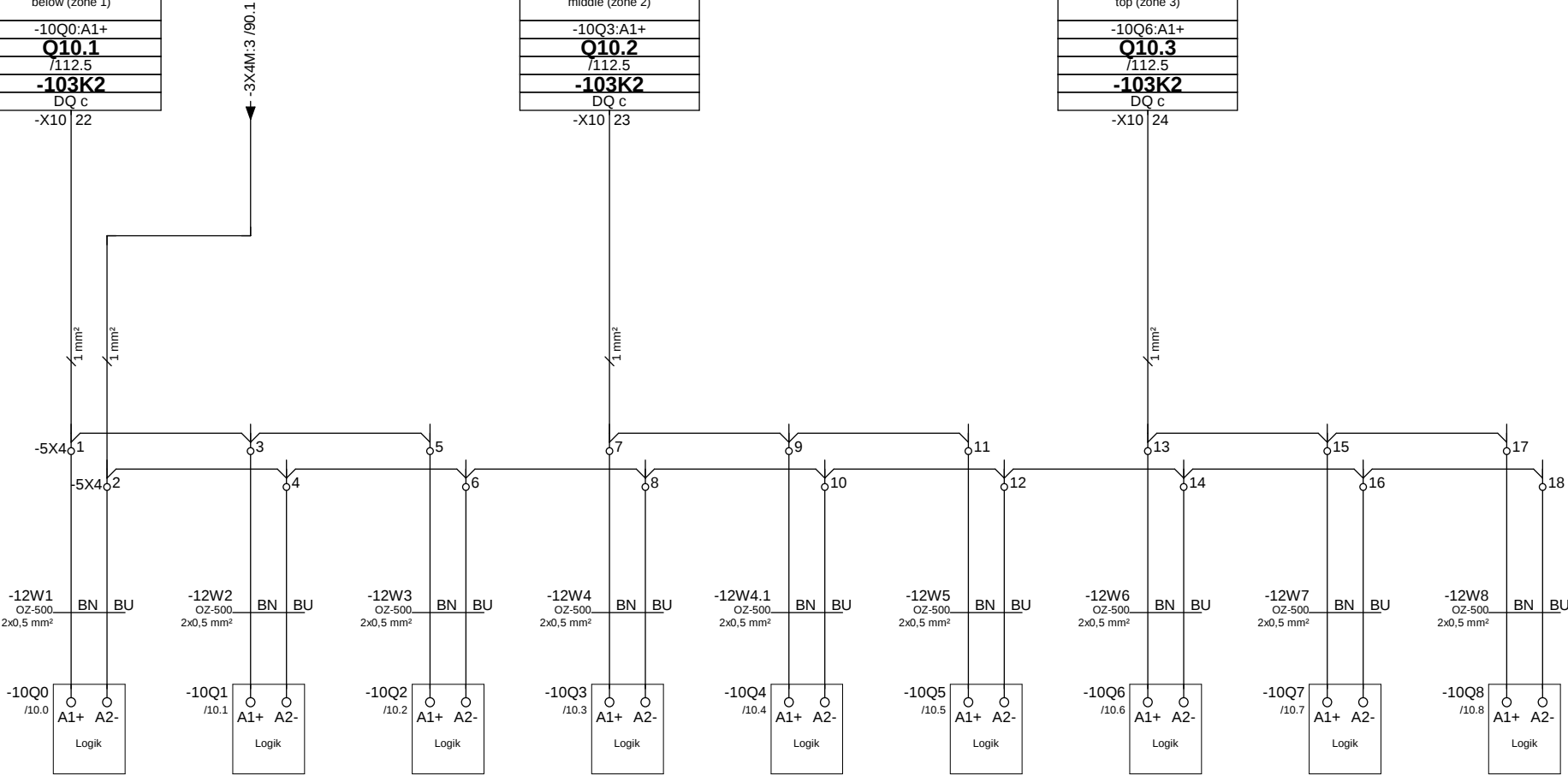


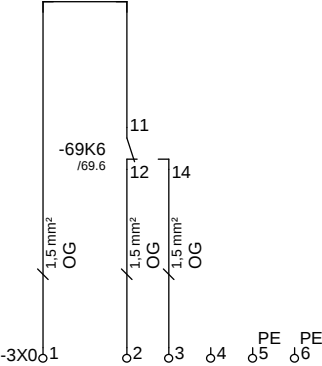
B = bottom
SL = side left
SR = side right
TH = door rear
TV = door front

Control semiconductor relay step below (zone 1)	
-10Q0:A1+	
Q10.1	
/112.5	
-103K2	
DQ c	
-X10	22

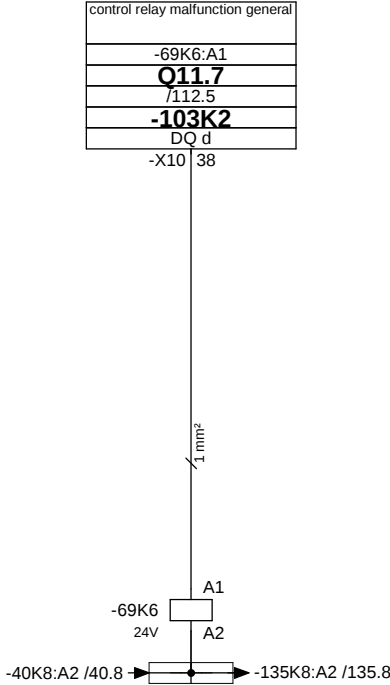
Control semiconductor relay step middle (zone 2)	
-10Q3:A1+	
Q10.2	
/112.5	
-103K2	
DQ c	
-X10	23

Control semiconductor relay step top (zone 3)	
-10Q6:A1+	
Q10.3	
/112.5	
-103K2	
DQ c	
-X10	24



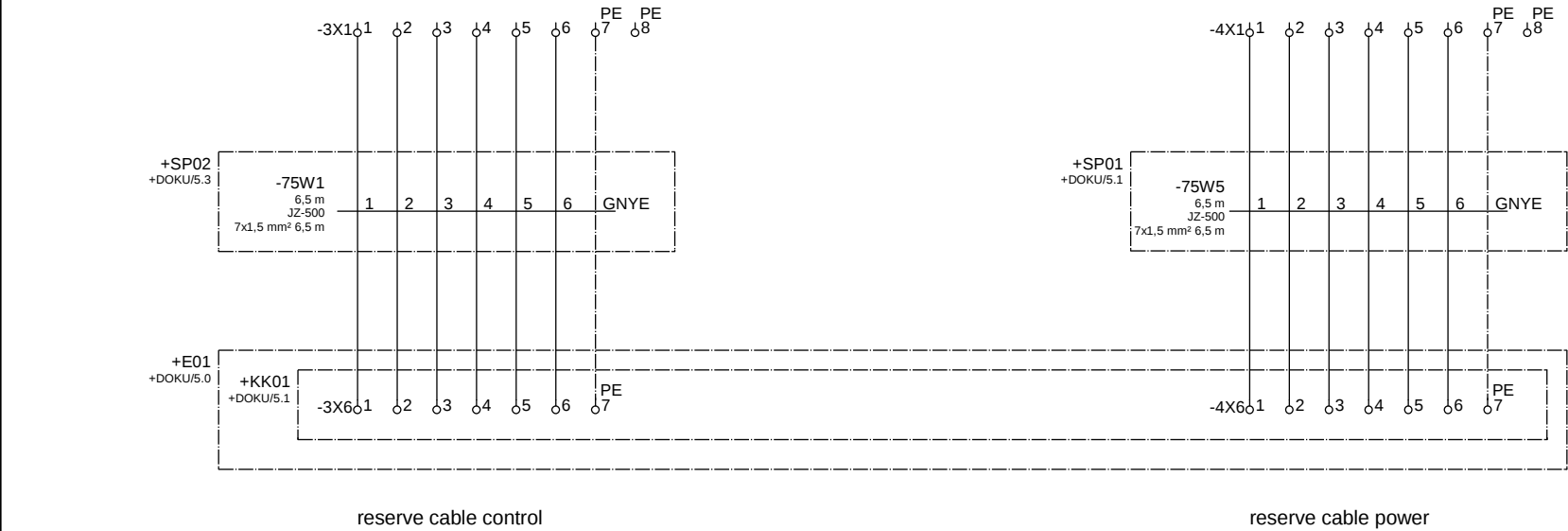


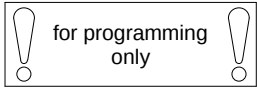
potential-free
contact
collectiv failure indication



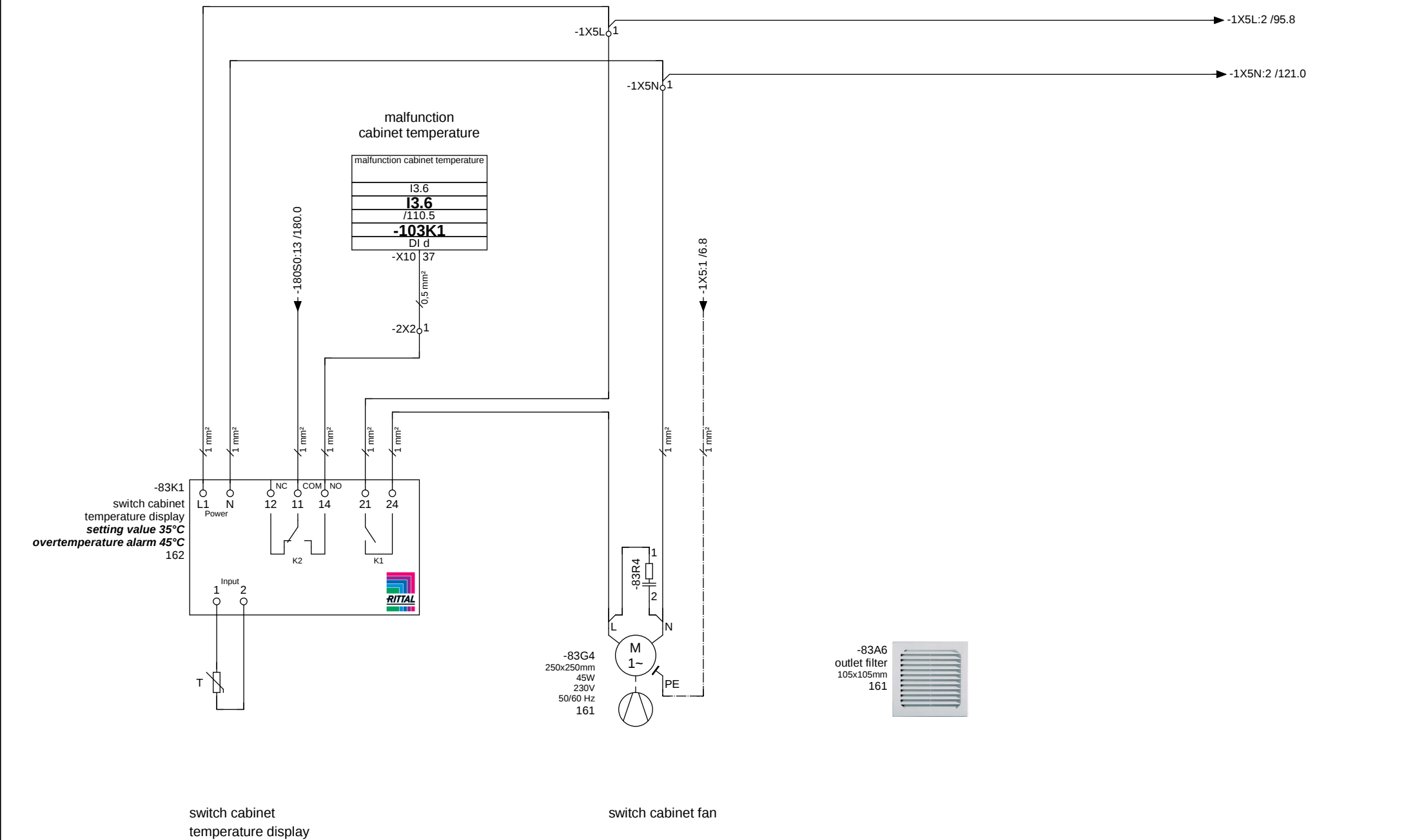
control relay
malfunction
general

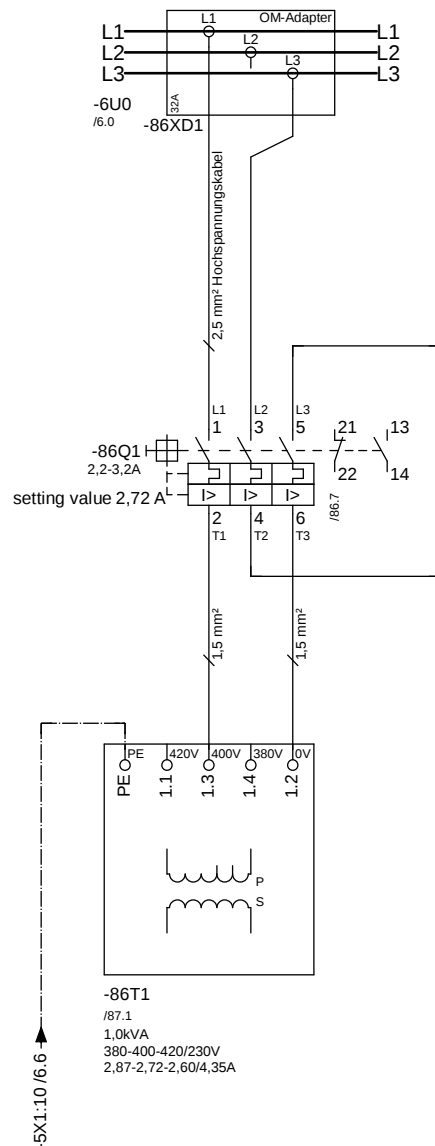
RIF-1-RPT-LDP-24DC/1X21
14 7
12 11 /69.2



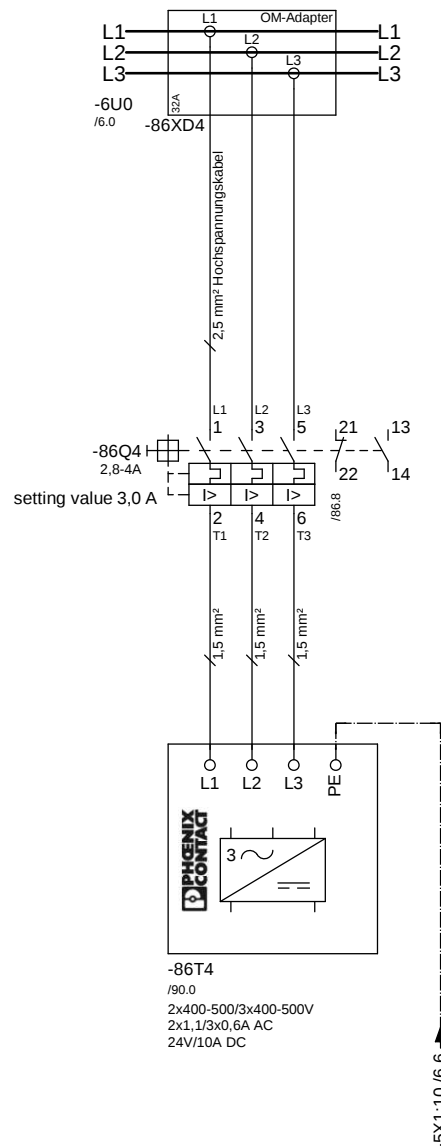


switchgear
lighting

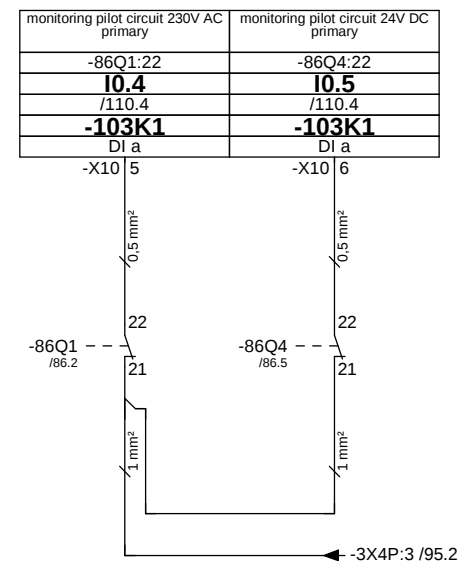




control voltage 230V

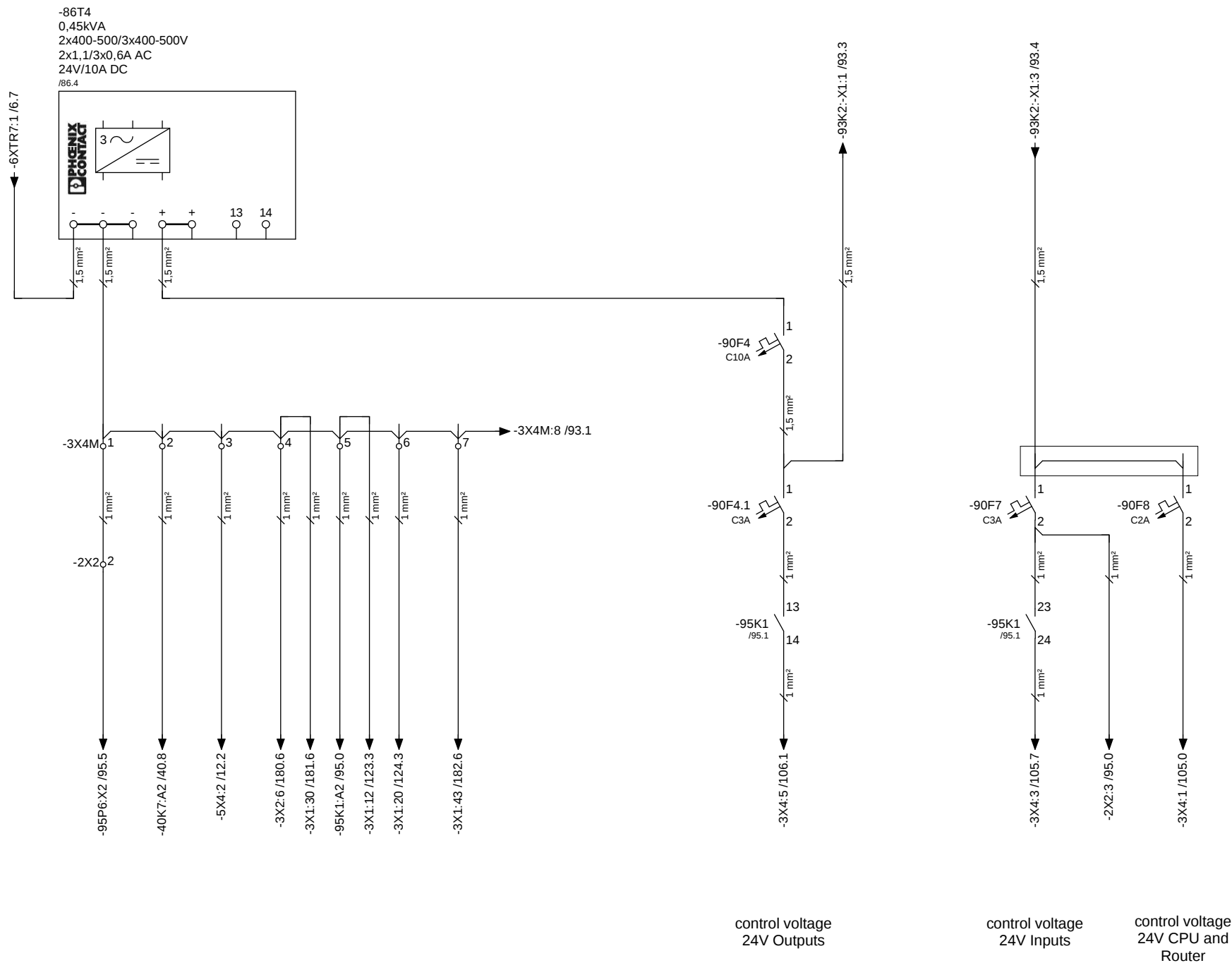


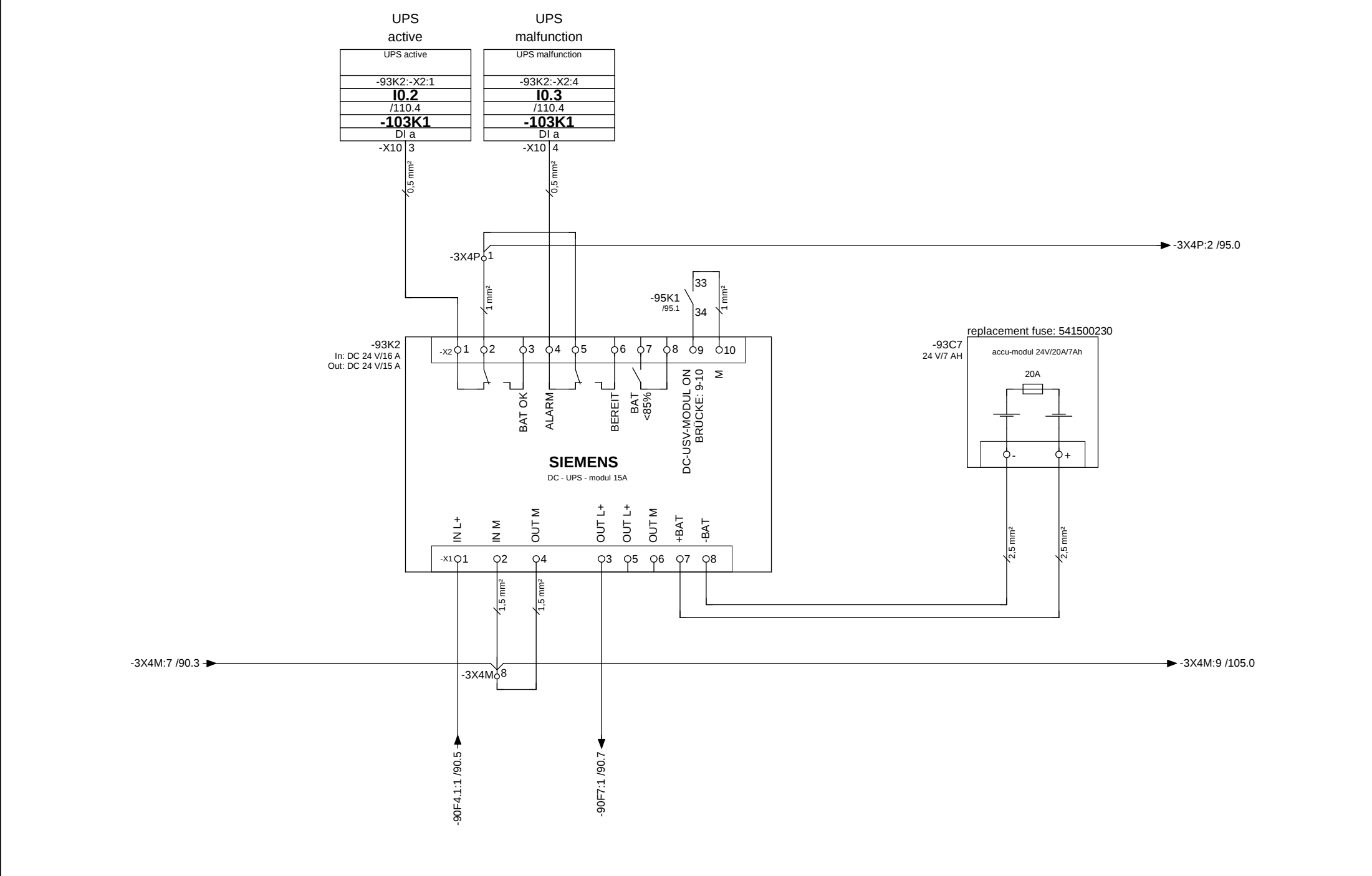
control voltage 24V



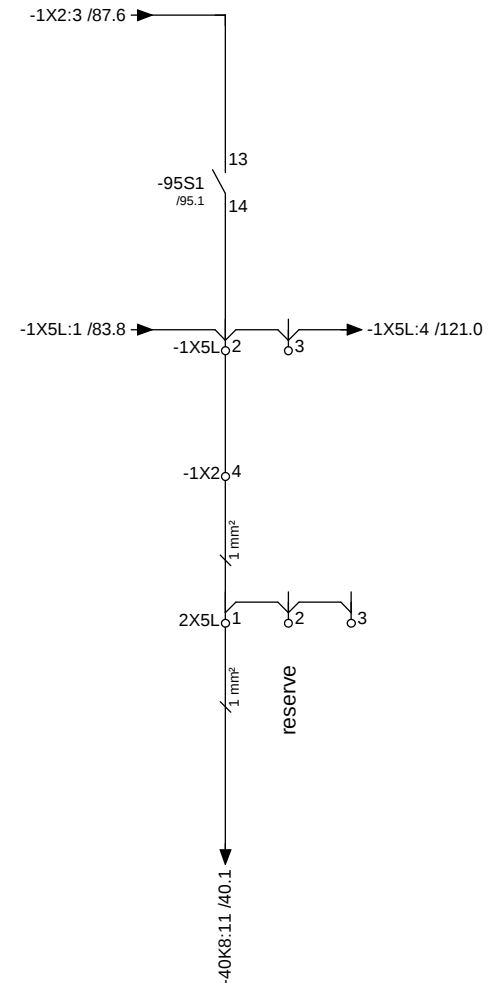
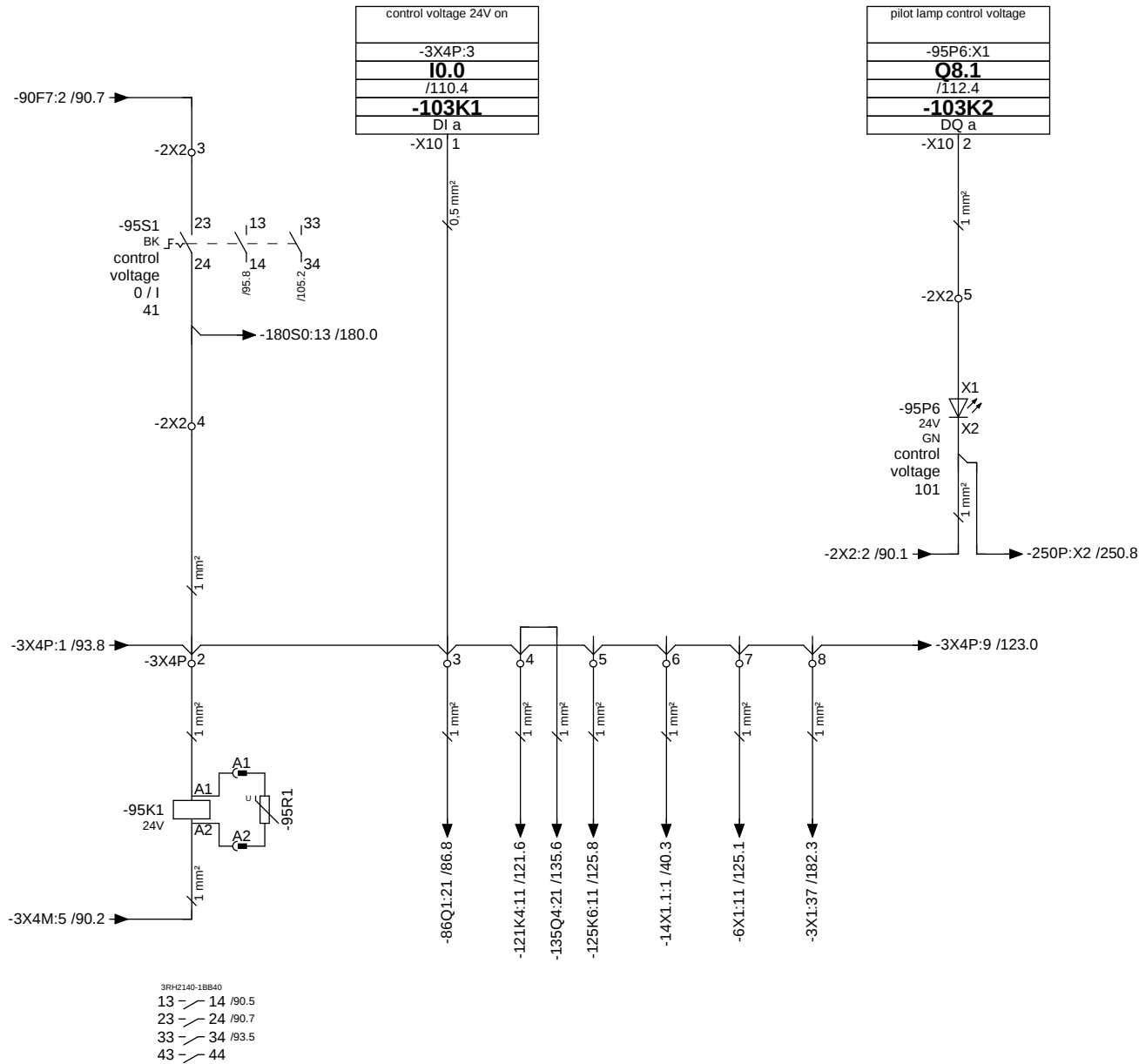
monitoring pilot
circuit 230V AC
primary

monitoring pilot
circuit 24V DC
primary





control voltage 230V

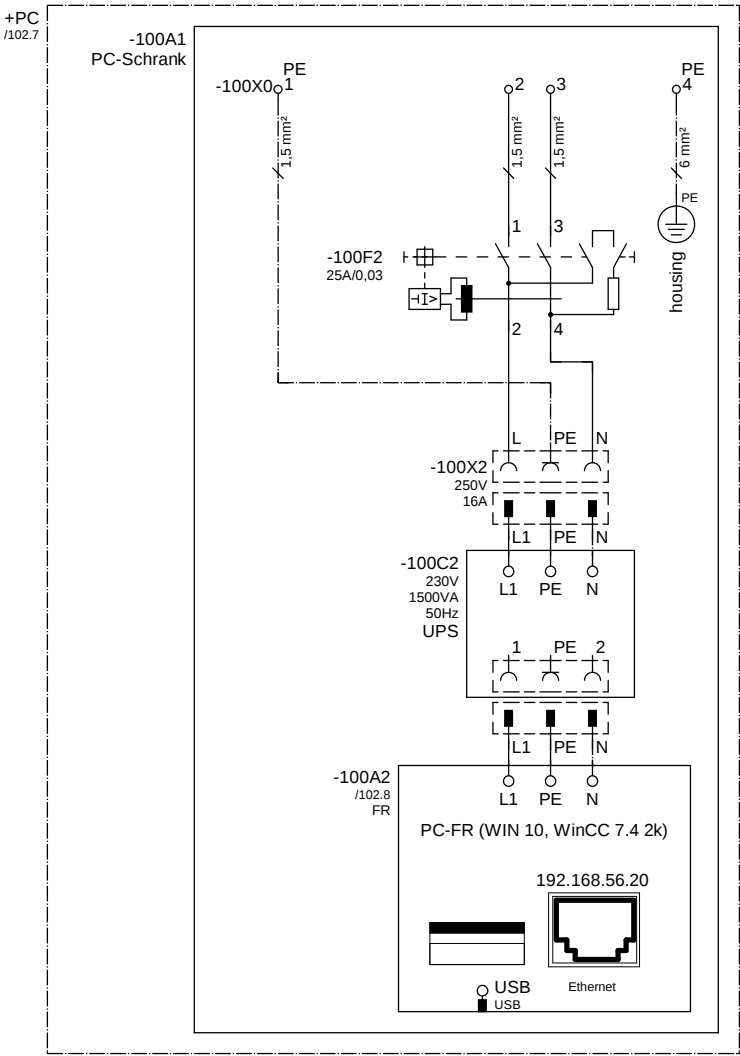


control contactor
control voltage

control voltage 24V
on

pilot lamp
control voltage

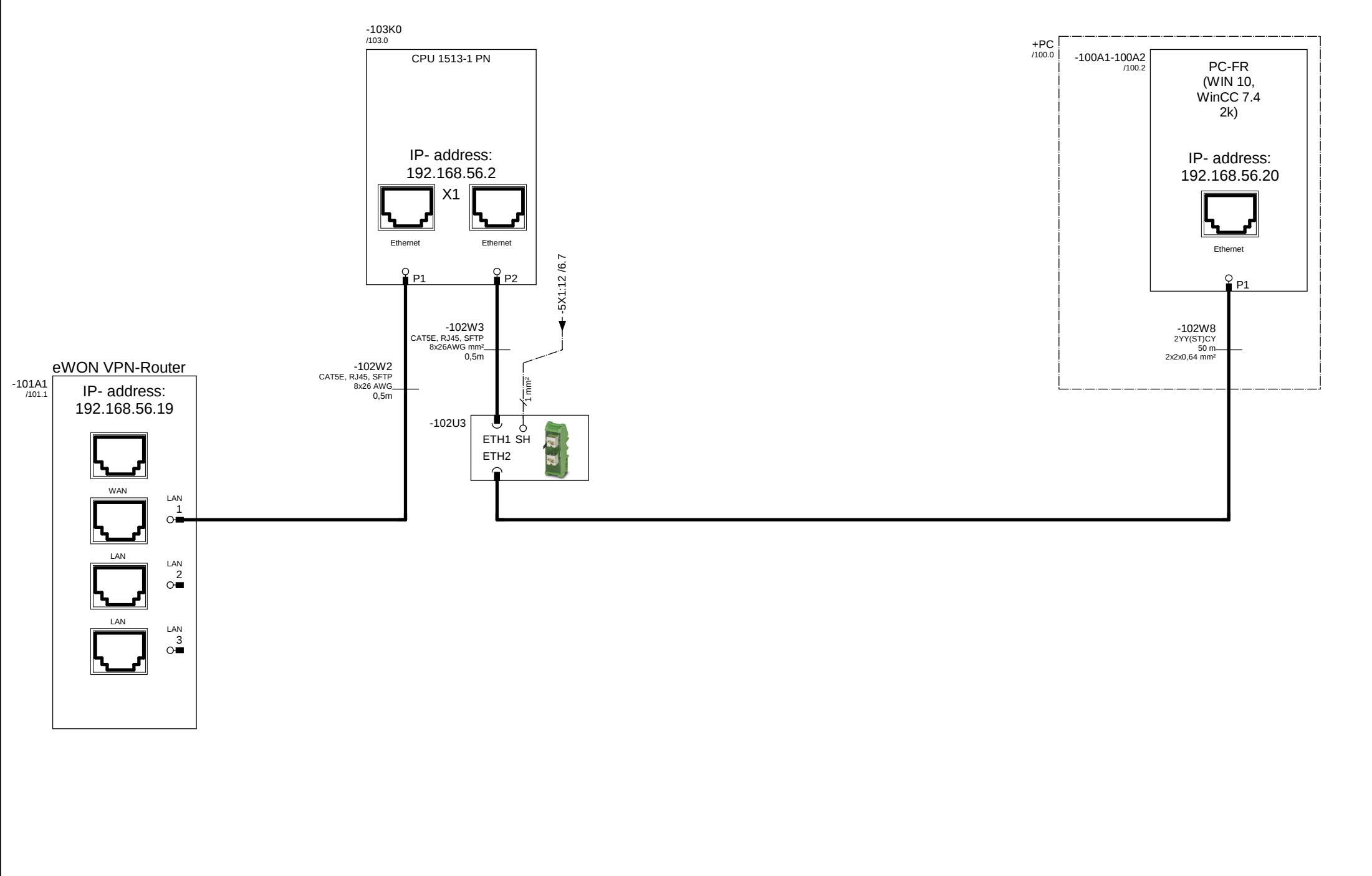
control voltage 230V
on

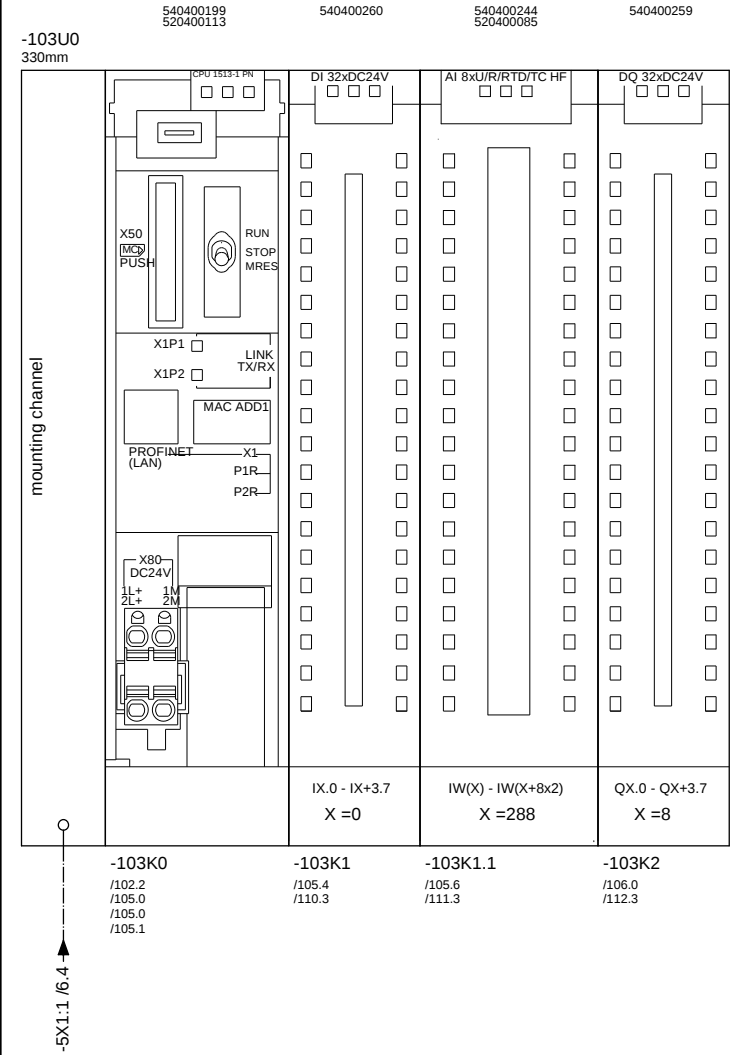


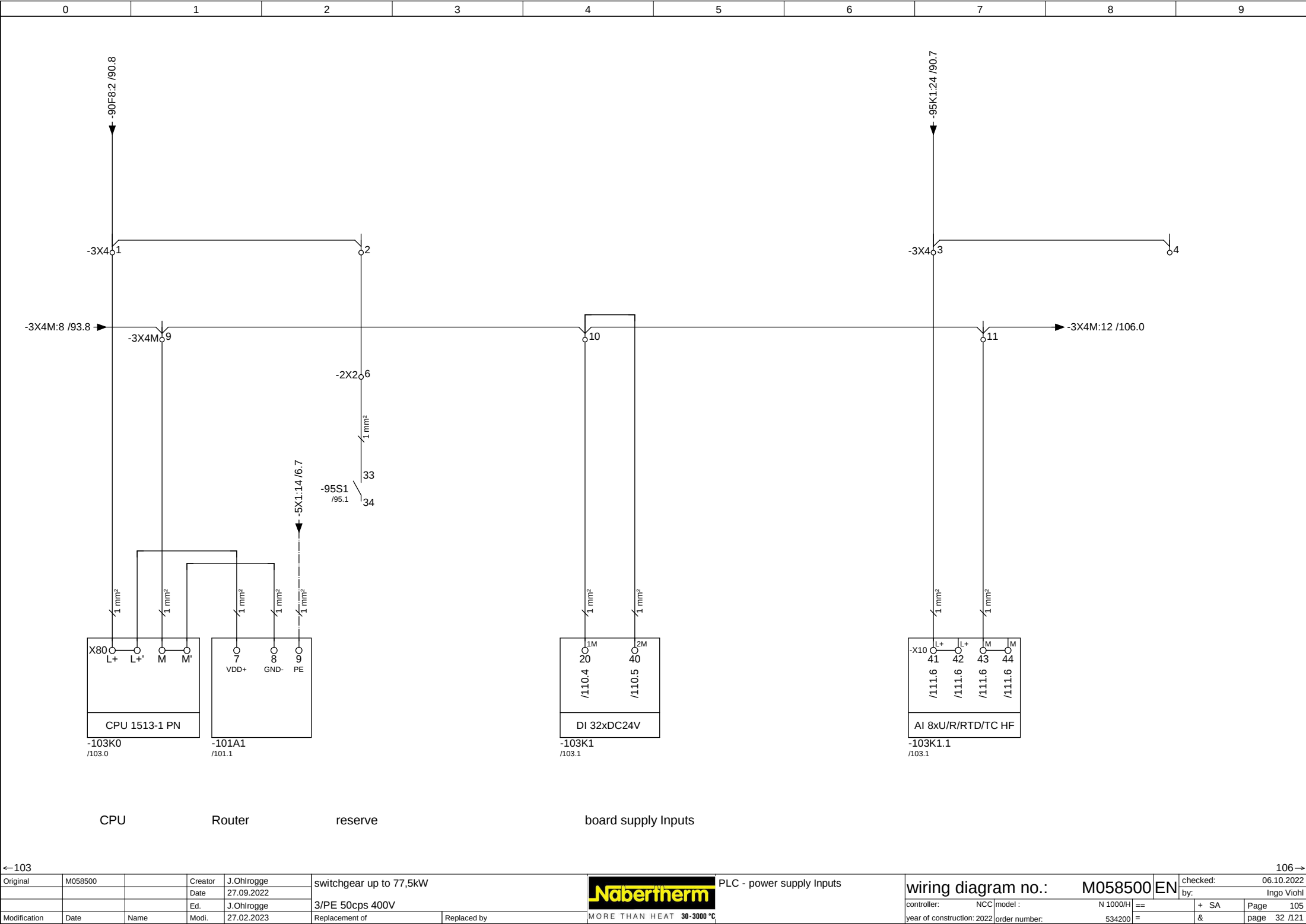


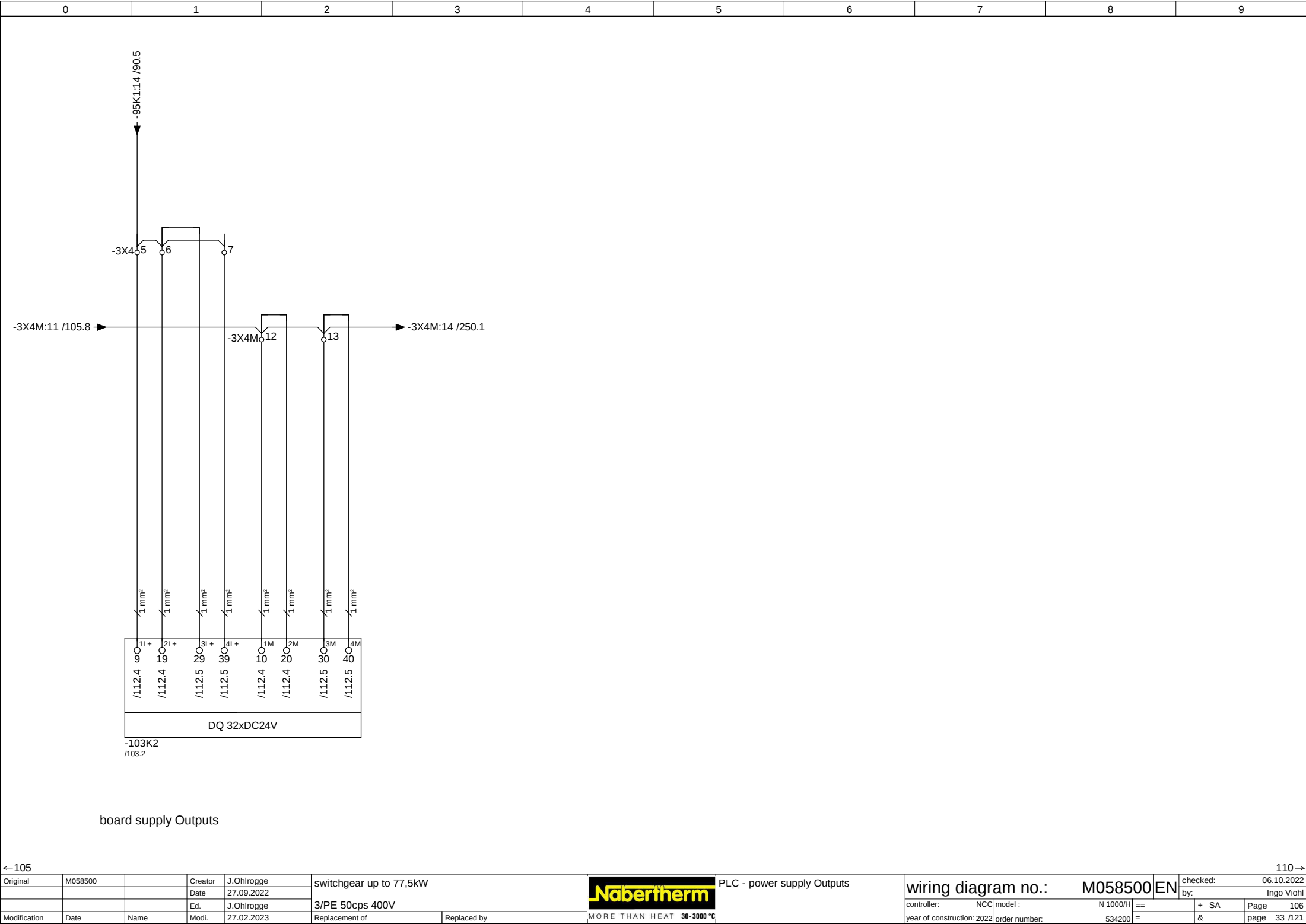
VPN-Router
eWON

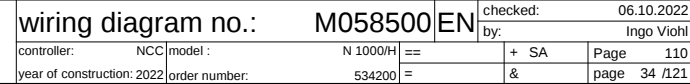
-101A1
/102.0
/105.1
eWON
VPN-Router



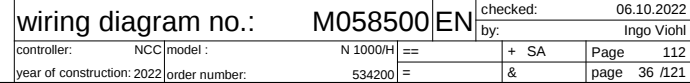












not used	not used	not used	not used	not used	not used
I0.7	I1.2	I1.3	I1.4	I1.5	I1.6
I0.7	I1.2	I1.3	I1.4	I1.5	I1.6
/110.4	/110.4	/110.4	/110.4	/110.4	/110.4
-103K1	-103K1	-103K1	-103K1	-103K1	-103K1
DI a	DI b	DI b	DI b	DI b	DI b
-X10 '8	-X10 '13	-X10 '14	-X10 '15	-X10 '16	-X10 '17

not used	not used	not used
I2.4	I2.5	I2.7
I2.4	I2.5	I2.7
/110.5	/110.5	/110.5
-103K1	-103K1	-103K1
DI c	DI c	DI c
-X10 '25	-X10 '26	-X10 '28

not used	not used	not used	not used
I3.2	I3.3	I3.4	I3.5
I3.2	I3.3	I3.4	I3.5
/110.5	/110.5	/110.5	/110.5
-103K1	-103K1	-103K1	-103K1
DI d	DI d	DI d	DI d
-X10 '33	-X10 '34	-X10 '35	-X10 '36

not used
I3.7
I3.7
/110.5
-103K1
DI d
-X10 '38

not used	not used	not used
IW300	IW302	IW304
IW300	IW302	IW304
/111.6	/111.6	/111.6
-103K1.1	-103K1.1	-103K1.1
M6+ U6+ -X10 '31	M6- U6- 32	M7+ U7+ -X10 '35
	M7- U7- 36	M8+ U8+ -X10 '39
		M8- U8- 40

not used
Q8.2
Q8.2
/112.4
-103K2
DQ a
-X10 3

not used
Q9.2
Q9.2
/112.4
-103K2
DQ b
-X10 13

not used	not used
Q9.6	Q9.7
Q9.6	Q9.7
/112.4	/112.4
-103K2	-103K2
DQ b	DQ b
-X10 17	-X10 18

not used
Q10.0
Q10.0
/112.5
-103K2
DQ c
-X10 21

relay 2	relay 3	relay 4	relay 5
Q10.4	Q10.5	Q10.6	Q10.7
Q10.4	Q10.5	Q10.6	Q10.7
/112.5	/112.5	/112.5	/112.5
-103K2	-103K2	-103K2	-103K2
DQ c	DQ c	DQ c	DQ c
-X10 25	-X10 26	-X10 27	-X10 28

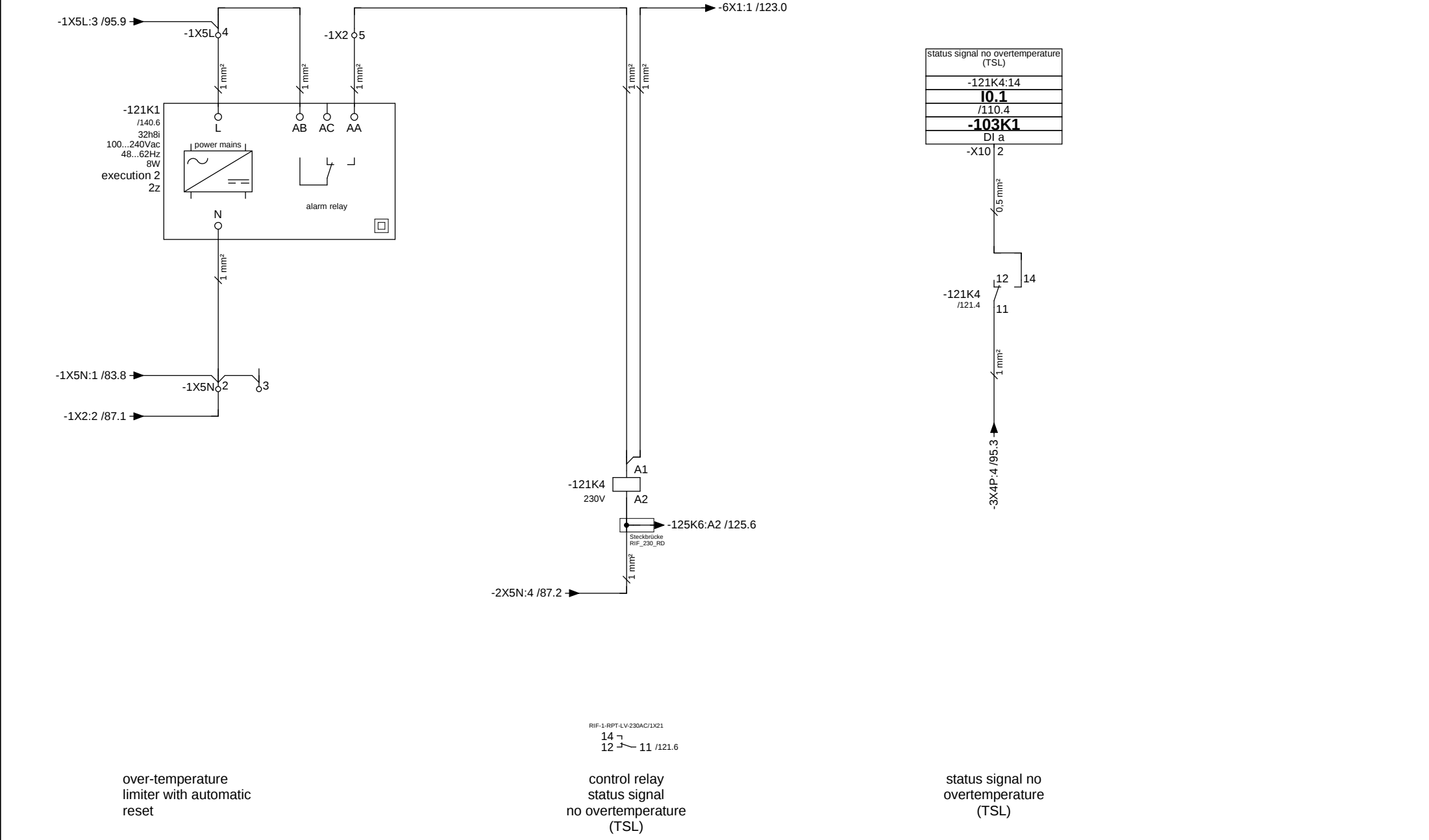
relay 2

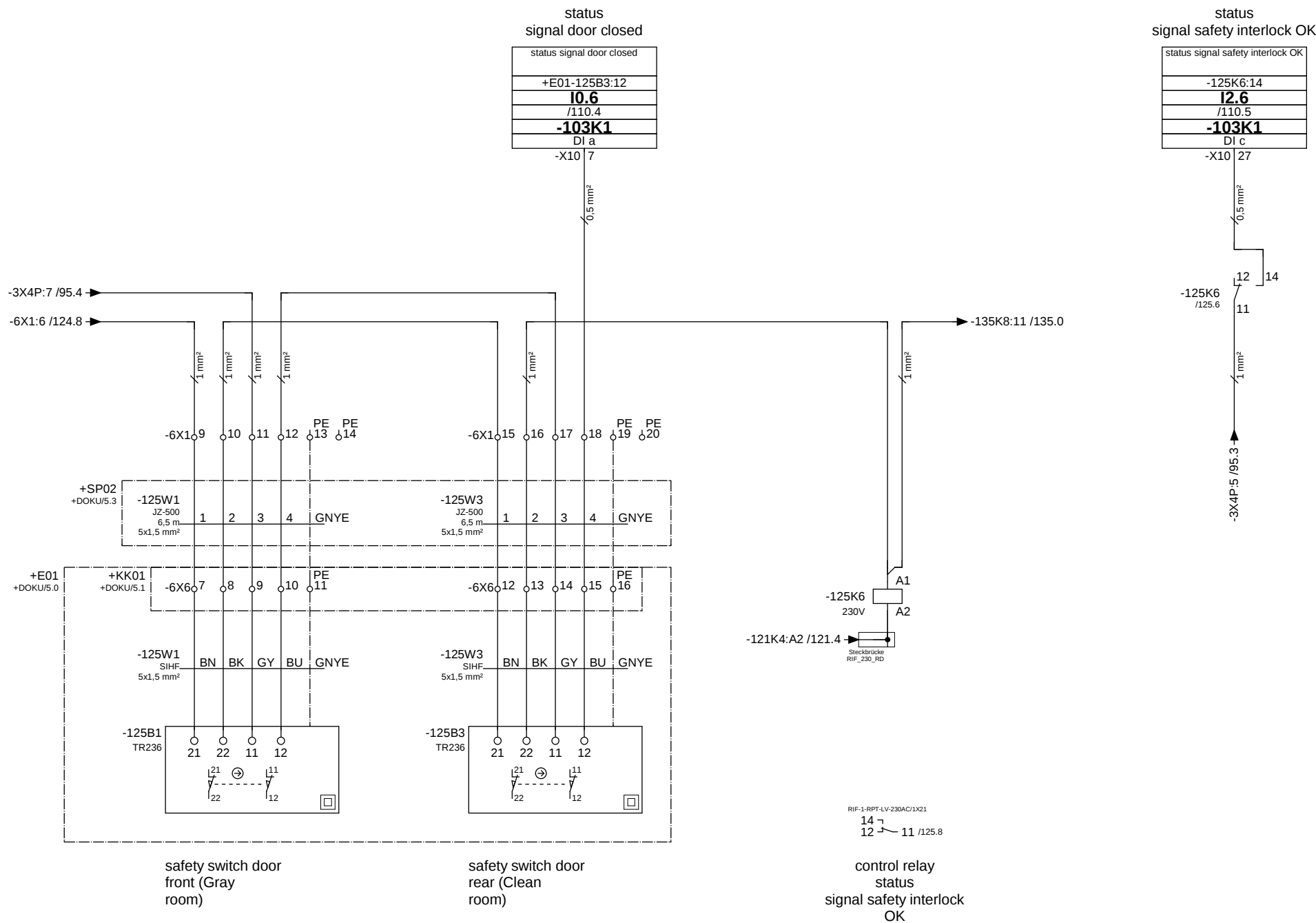
relay 3

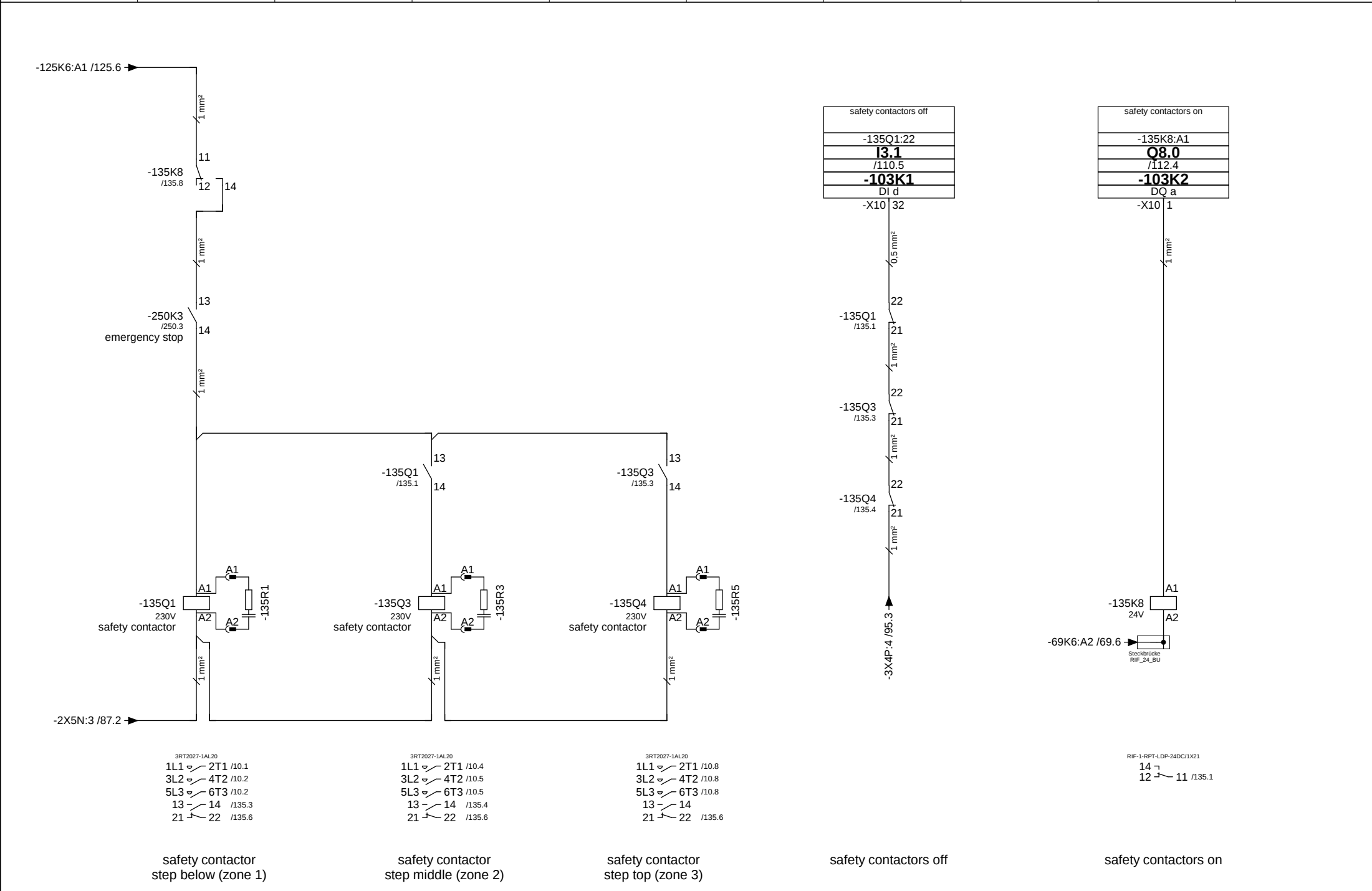
relay 4

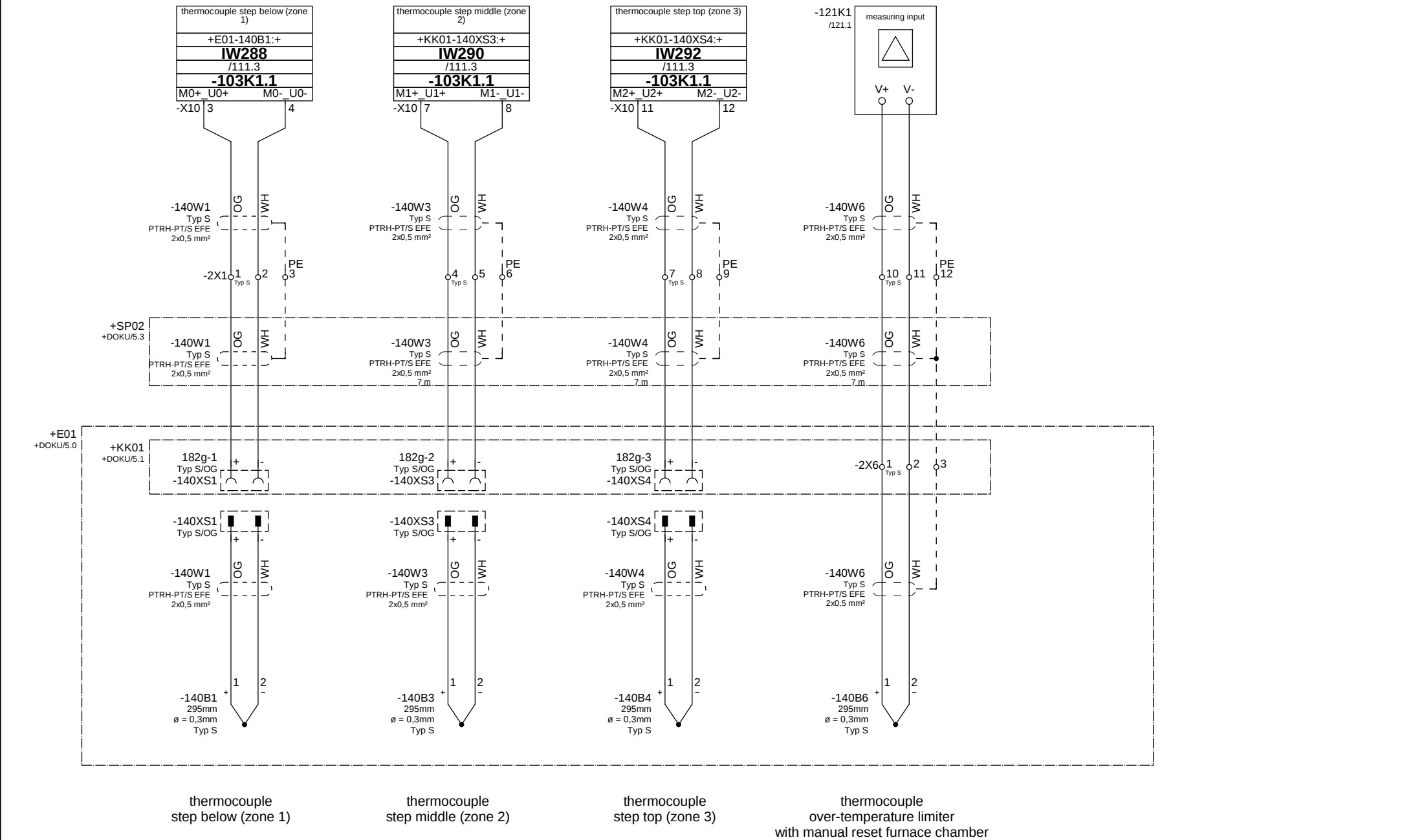
relay 5

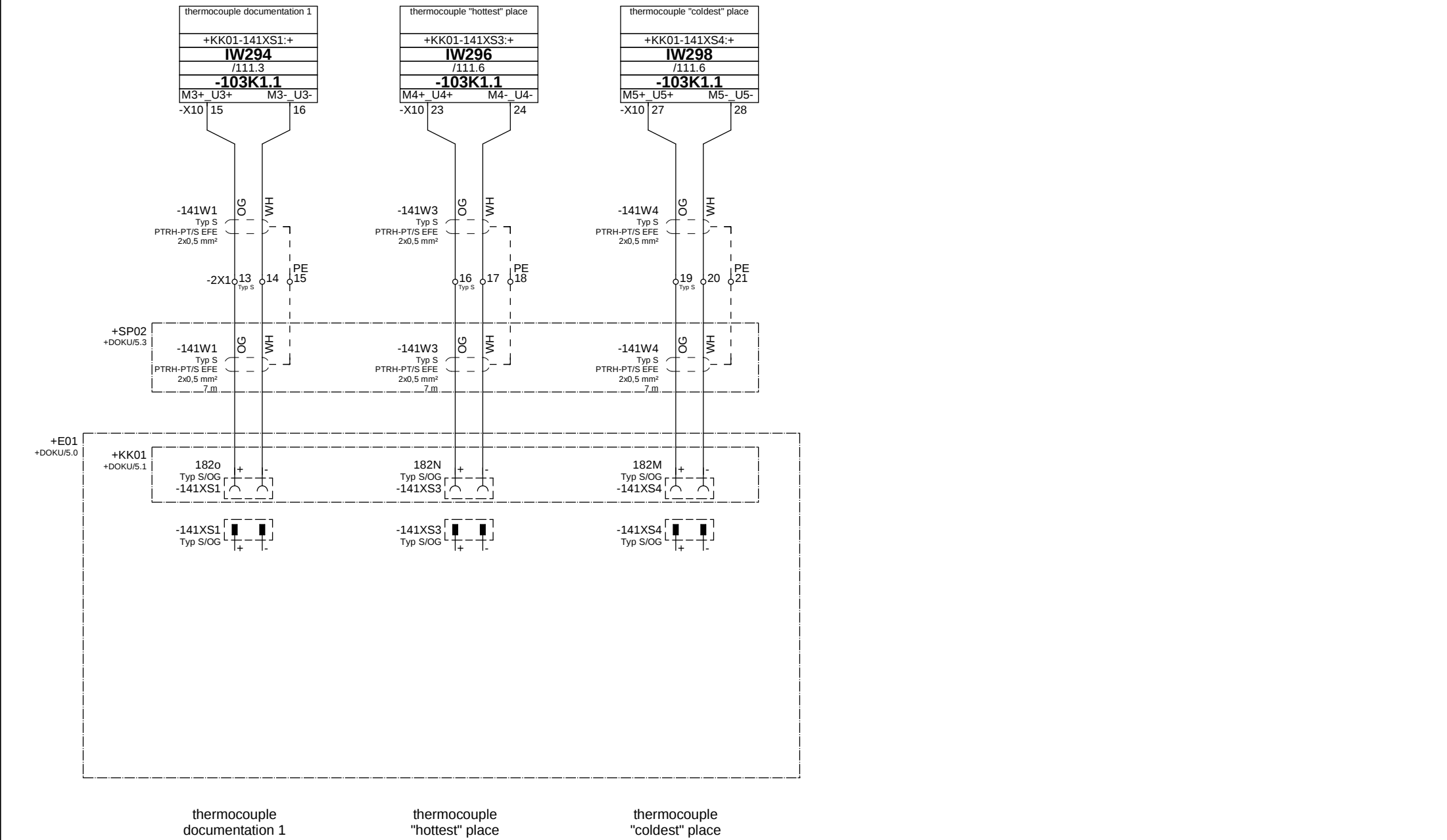
not used	not used	not used	not used
Q11.2	Q11.3	Q11.4	Q11.5
Q11.2	Q11.3	Q11.4	Q11.5
/112.5	/112.5	/112.5	/112.5
-103K2	-103K2	-103K2	-103K2
DQ d	DQ d	DQ d	DQ d
-X10 33	-X10 34	-X10 35	-X10 36

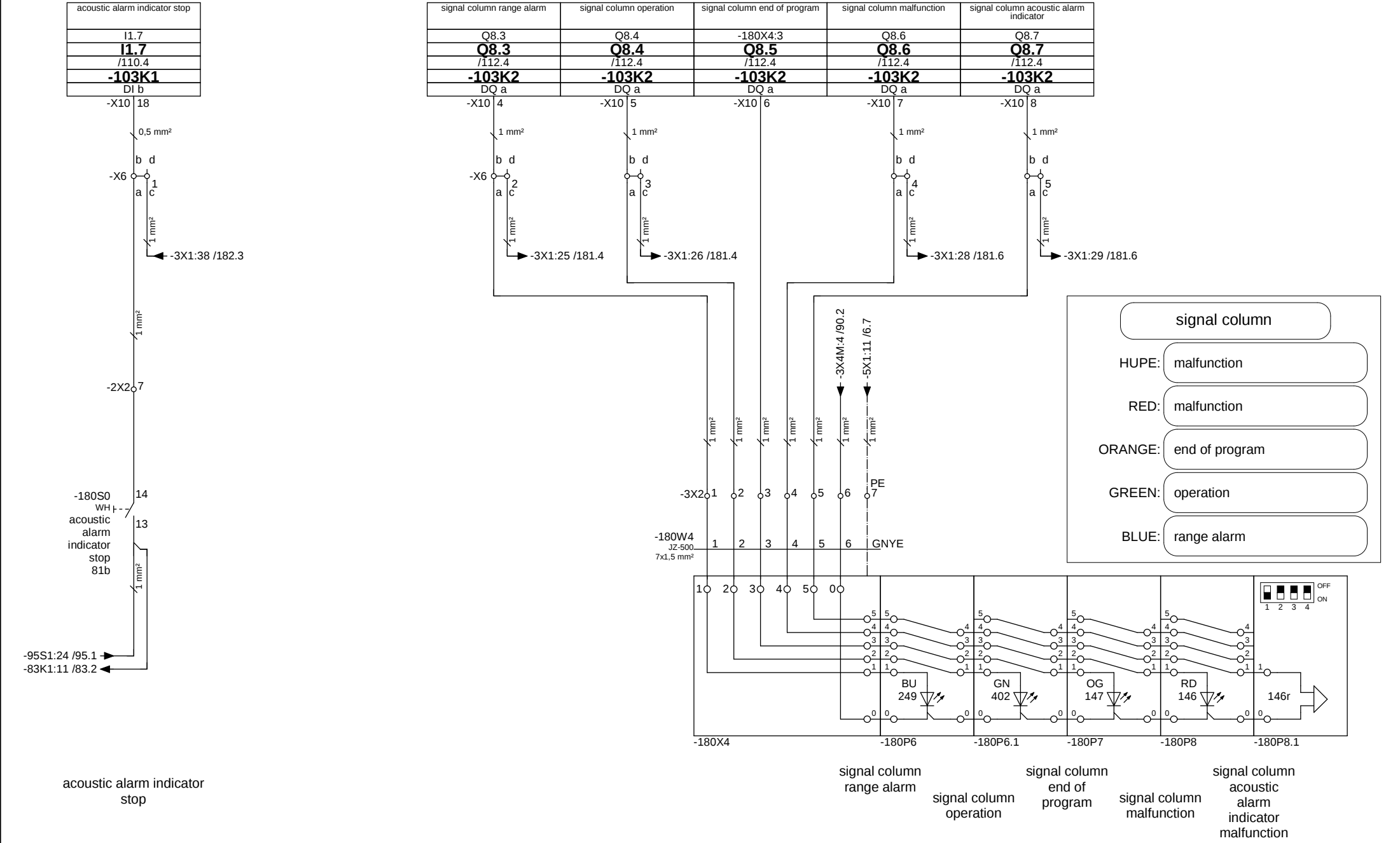


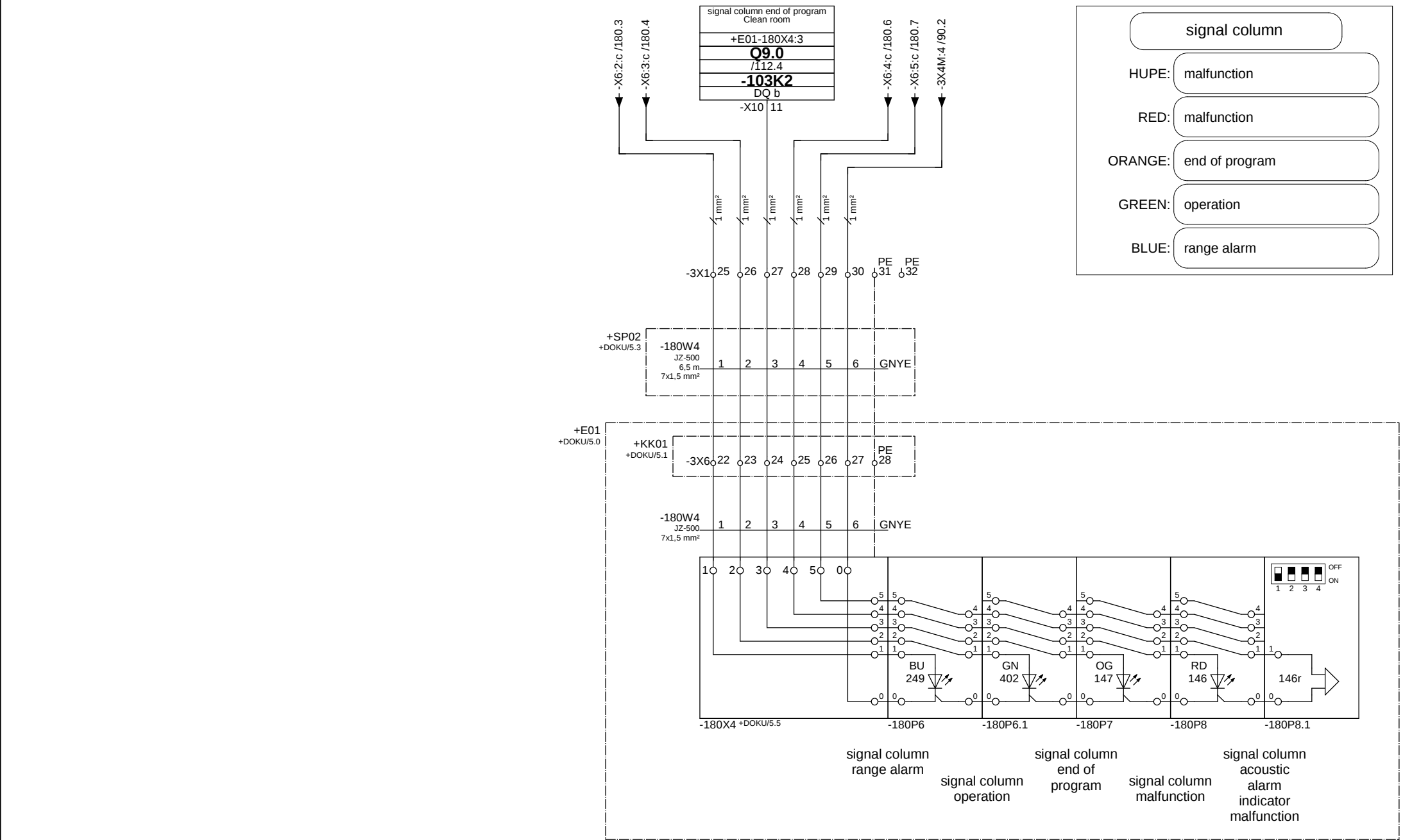


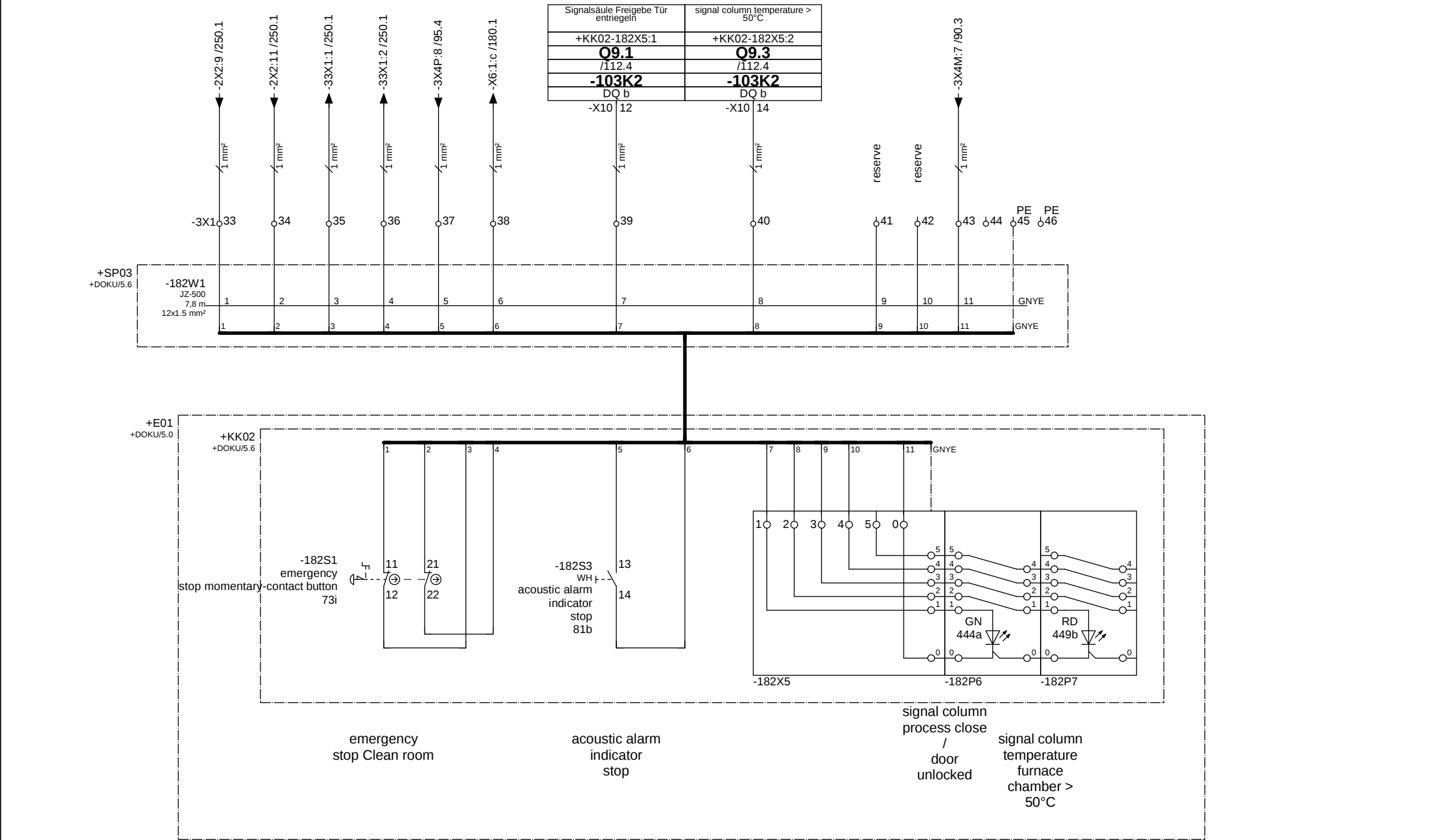


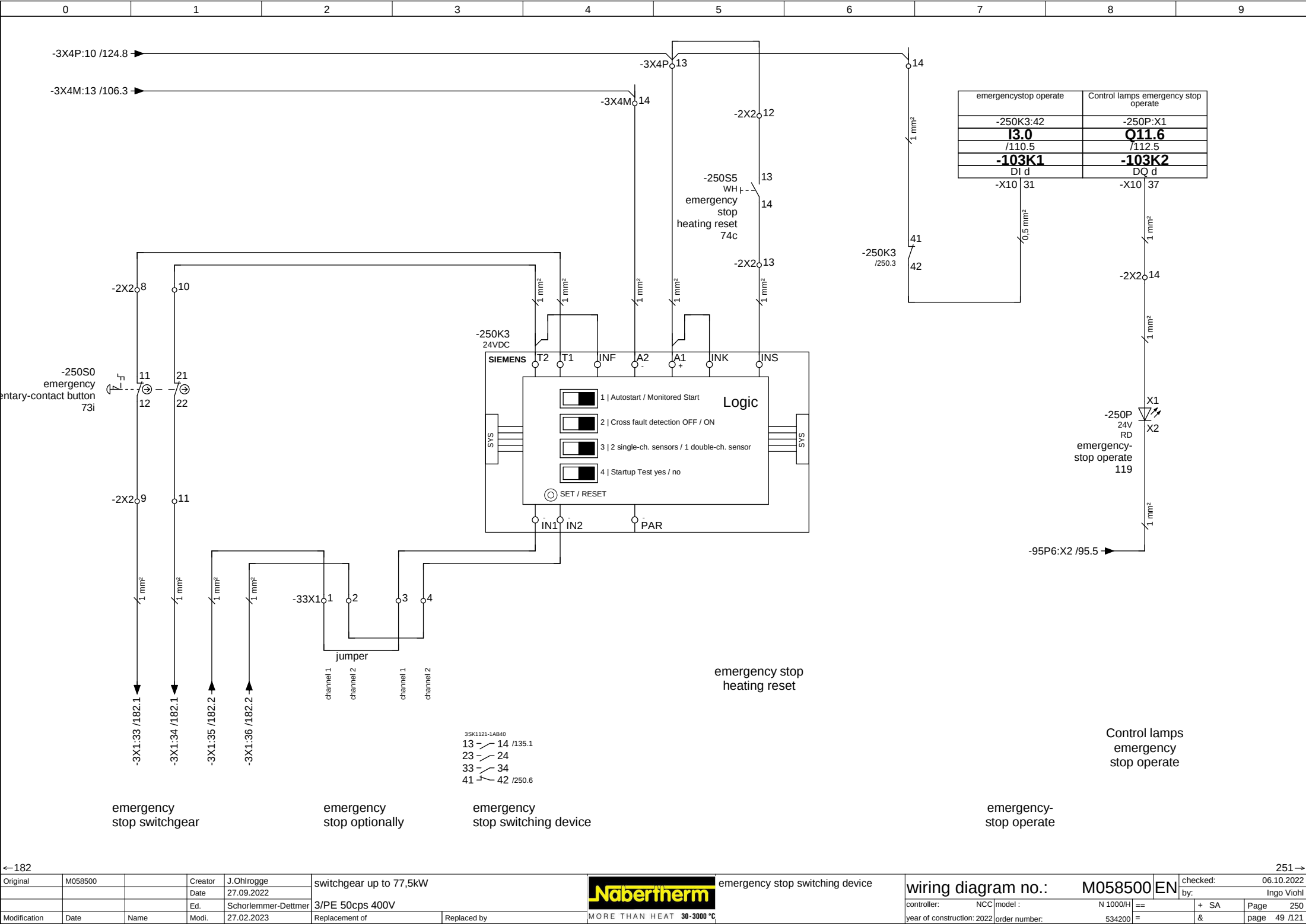












Connection list hose package

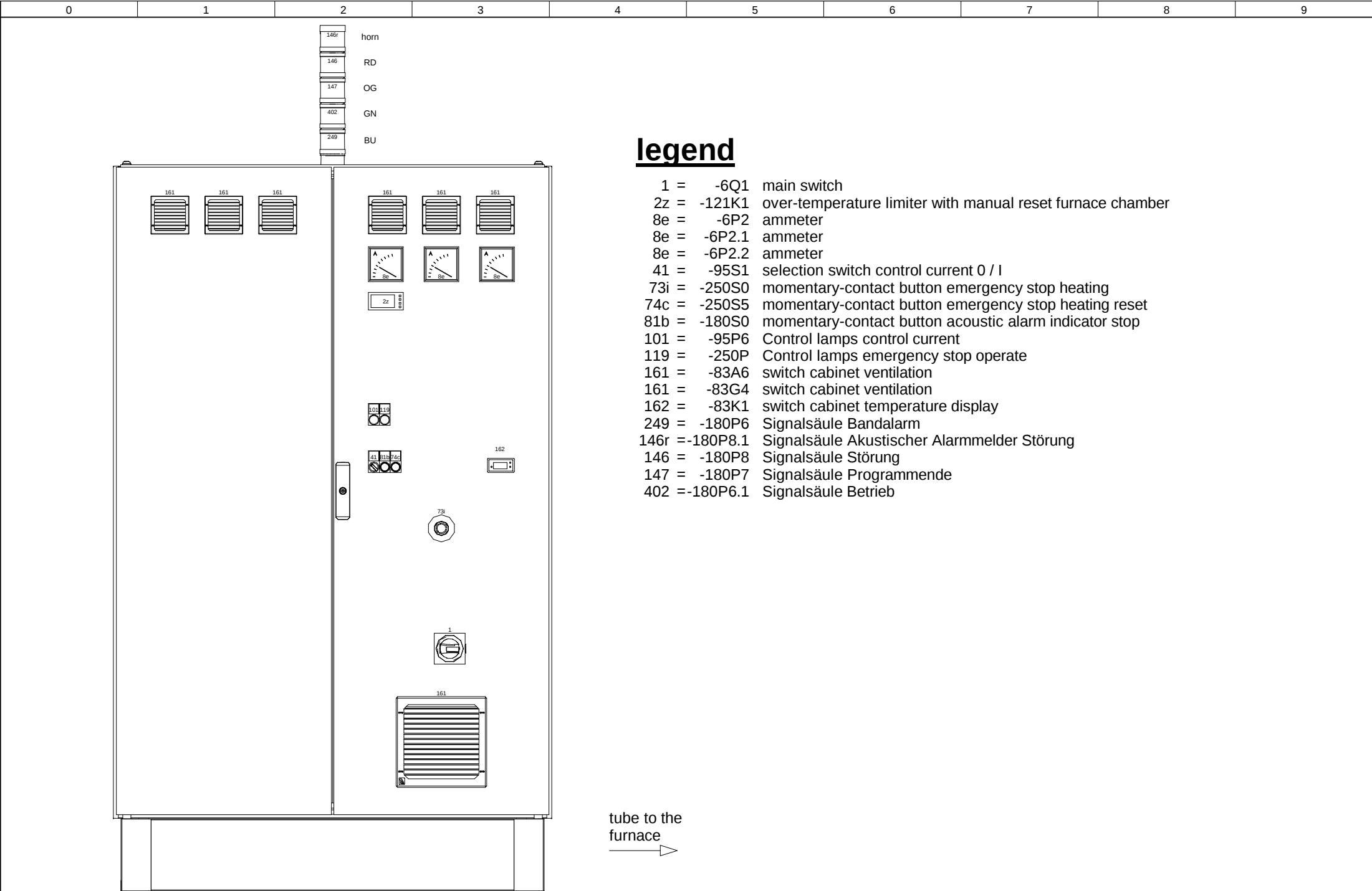
SP02

cable	type	color / cable	Cross-section	Source	length in m	Target	length in m	length
-5W3	Metallschlauch NW 1.1/4"		M40	+KK01-5A2		+SA-5A1		3 m
-40W1	JZ-500 4x1,5 mm²	1	1,5	+SA-14X1:1	2	+KK01-14X6:1	1,5	6,5 m
=	=	2	1,5	+SA-14X1:2	2	+KK01-14X6:2	1,5	6,5 m
=	=	3	1,5	+SA-14X1:3	2	+KK01-14X6:3	1,5	6,5 m
=	=	GNYE	1,5	+SA-14X1:5	2	+KK01-14X6:4	1,5	6,5 m
-40W3	OZ-500 4x1,5 mm²	1	1,5	+SA-14X1.1:1	2	+KK01-14X6.1:1	1,5	6,5 m
=	=	2	1,5	+SA-14X1.1:2	2	+KK01-14X6.1:3	1,5	6,5 m
=	=	3	1,5	+SA-14X1.1:3	2	+KK01-14X6.1:4	1,5	6,5 m
=	=	4	1,5	+SA-14X1.1:4	2	+KK01-14X6.1:6	1,5	6,5 m
-75W1	JZ-500 7x1,5 mm²	1	1,5	+SA-3X1:1	2	+KK01-3X6:1	1,5	6,5 m
=	=	2	1,5	+SA-3X1:2	2	+KK01-3X6:2	1,5	6,5 m
=	=	3	1,5	+SA-3X1:3	2	+KK01-3X6:3	1,5	6,5 m
=	=	4	1,5	+SA-3X1:4	2	+KK01-3X6:4	1,5	6,5 m
=	=	5	1,5	+SA-3X1:5	2	+KK01-3X6:5	1,5	6,5 m
=	=	6	1,5	+SA-3X1:6	2	+KK01-3X6:6	1,5	6,5 m
=	=	GNYE	1,5	+SA-3X1:7	2	+KK01-3X6:7	1,5	6,5 m
-123W1	=	1	1,5	+SA-3X1:9	2	+KK01-3X6:8	1,5	6,5 m
=	=	2	1,5	+SA-3X1:10	2	+KK01-3X6:9	1,5	6,5 m
=	=	3	1,5	+SA-3X1:11	2	+KK01-3X6:10	1,5	6,5 m
=	=	4	1,5	+SA-3X1:12	2	+KK01-3X6:11	1,5	6,5 m
=	=	5	1,5	+SA-3X1:13	2	+KK01-3X6:12	1,5	6,5 m
=	=	6	1,5	+SA-3X1:14	2	+KK01-3X6:13	1,5	6,5 m
=	=	GNYE	1,5	+SA-3X1:15	2	+KK01-3X6:14	1,5	6,5 m
-123W5	JZ-500 3x1,5 mm²	1	1,5	+SA-6X1:1	2	+KK01-6X6:1	1,5	6,5 m
=	=	2	1,5	+SA-6X1:2	2	+KK01-6X6:2	1,5	6,5 m
=	=	GNYE	1,5	+SA-6X1:3	2	+KK01-6X6:3	1,5	6,5 m
-124W1	JZ-500 7x1,5 mm²	1	1,5	+SA-3X1:17	2	+KK01-3X6:15	1,5	6,5 m
=	=	2	1,5	+SA-3X1:18	2	+KK01-3X6:16	1,5	6,5 m
=	=	3	1,5	+SA-3X1:19	2	+KK01-3X6:17	1,5	6,5 m
=	=	4	1,5	+SA-3X1:20	2	+KK01-3X6:18	1,5	6,5 m
=	=	5	1,5	+SA-3X1:21	2	+KK01-3X6:19	1,5	6,5 m
=	=	6	1,5	+SA-3X1:22	2	+KK01-3X6:20	1,5	6,5 m
=	=	GNYE	1,5	+SA-3X1:23	2	+KK01-3X6:21	1,5	6,5 m
-124W5	JZ-500 3x1,5 mm²	1	1,5	+SA-6X1:5	2	+KK01-6X6:4	1,5	6,5 m
=	=	2	1,5	+SA-6X1:6	2	+KK01-6X6:5	1,5	6,5 m
=	=	GNYE	1,5	+SA-6X1:7	2	+KK01-6X6:6	1,5	6,5 m
-125W1	JZ-500 5x1,5 mm²	1	1,5	+SA-6X1:9	2	+KK01-6X6:7	1,5	6,5 m
=	=	2	1,5	+SA-6X1:10	2	+KK01-6X6:8	1,5	6,5 m
=	=	3	1,5	+SA-6X1:11	2	+KK01-6X6:9	1,5	6,5 m
=	=	4	1,5	+SA-6X1:12	2	+KK01-6X6:10	1,5	6,5 m

Connection list hose package

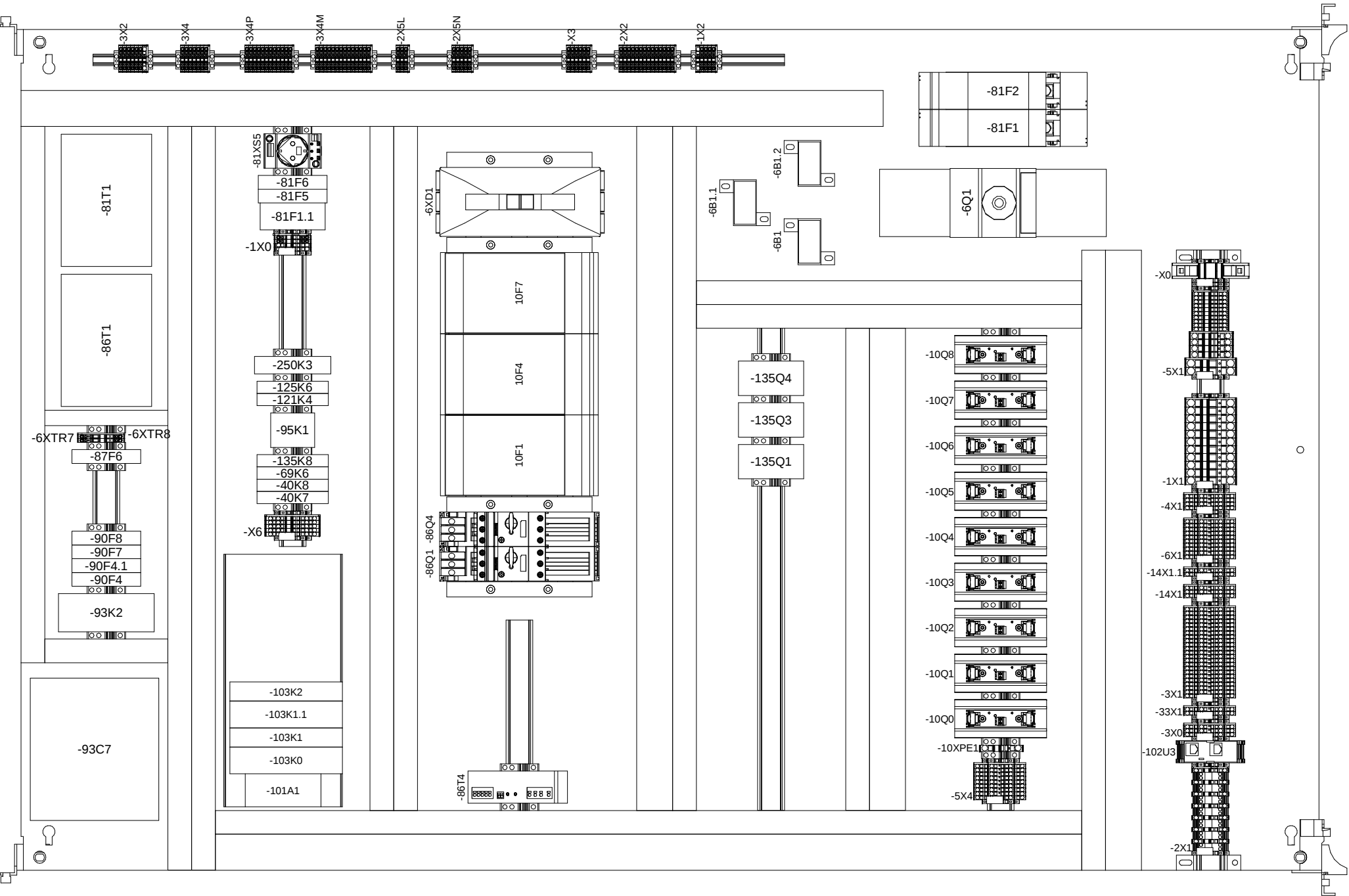
SP02

cable	type	color / cable	Cross-section	Source	length in m	Target	length in m	length
-125W1	JZ-500 5x1,5 mm²	GNYE	1,5	+SA-6X1:13	2	+KK01-6X6:11	1,5	6,5 m
-125W3	=	1	1,5	+SA-6X1:15	2	+KK01-6X6:12	1,5	6,5 m
=	=	2	1,5	+SA-6X1:16	2	+KK01-6X6:13	1,5	6,5 m
=	=	3	1,5	+SA-6X1:17	2	+KK01-6X6:14	1,5	6,5 m
=	=	4	1,5	+SA-6X1:18	2	+KK01-6X6:15	1,5	6,5 m
=	=	GNYE	1,5	+SA-6X1:19	2	+KK01-6X6:16	1,5	6,5 m
-140W1	PTRH-PT/S EFE 2x0,5 mm²	OG	0,5	+SA-2X1:1	2	+KK01-140XS1:+	2	7 m
=	=	WH	0,5	+SA-2X1:2	2	+KK01-140XS1:-	2	7 m
=	=	SH	0,5	+SA-2X1:3	2	-140W1:SH	2	7 m
-140W3	=	OG	0,5	+SA-2X1:4	2	+KK01-140XS3:+	2	7 m
=	=	WH	0,5	+SA-2X1:5	2	+KK01-140XS3:-	2	7 m
=	=	SH	0,5	+SA-2X1:6	2	-140W3:SH	2	7 m
-140W4	=	OG	0,5	+SA-2X1:7	2	+KK01-140XS4:+	2	7 m
=	=	WH	0,5	+SA-2X1:8	2	+KK01-140XS4:-	2	7 m
=	=	SH	0,5	+SA-2X1:9	2	-140W4:SH	2	7 m
-140W6	=	OG	0,5	+SA-2X1:10	2	+KK01-2X6:1	2	7 m
=	=	WH	0,5	+SA-2X1:11	2	+KK01-2X6:2	2	7 m
=	=	SH	0,5	+SA-2X1:12	2	+KK01-2X6:3	2	7 m
-141W1	=	OG	0,5	+SA-2X1:13	2	+KK01-141XS1:+	2	7 m
=	=	WH	0,5	+SA-2X1:14	2	+KK01-141XS1:-	2	7 m
=	=	SH	0,5	+SA-2X1:15	2	-141W1:SH	2	7 m
-141W3	=	OG	0,5	+SA-2X1:16	2	+KK01-141XS3:+	2	7 m
=	=	WH	0,5	+SA-2X1:17	2	+KK01-141XS3:-	2	7 m
=	=	SH	0,5	+SA-2X1:18	2	-141W3:SH	2	7 m
-141W4	=	OG	0,5	+SA-2X1:19	2	+KK01-141XS4:+	2	7 m
=	=	WH	0,5	+SA-2X1:20	2	+KK01-141XS4:-	2	7 m
=	=	SH	0,5	+SA-2X1:21	2	-141W4:SH	2	7 m
-180W4	JZ-500 7x1,5 mm²	1	1,5	+SA-3X1:25	2	+KK01-3X6:22	1,5	6,5 m
=	=	2	1,5	+SA-3X1:26	2	+KK01-3X6:23	1,5	6,5 m
=	=	3	1,5	+SA-3X1:27	2	+KK01-3X6:24	1,5	6,5 m
=	=	4	1,5	+SA-3X1:28	2	+KK01-3X6:25	1,5	6,5 m
=	=	5	1,5	+SA-3X1:29	2	+KK01-3X6:26	1,5	6,5 m
=	=	6	1,5	+SA-3X1:30	2	+KK01-3X6:27	1,5	6,5 m
=	=	GNYE	1,5	+SA-3X1:31	2	+KK01-3X6:28	1,5	6,5 m

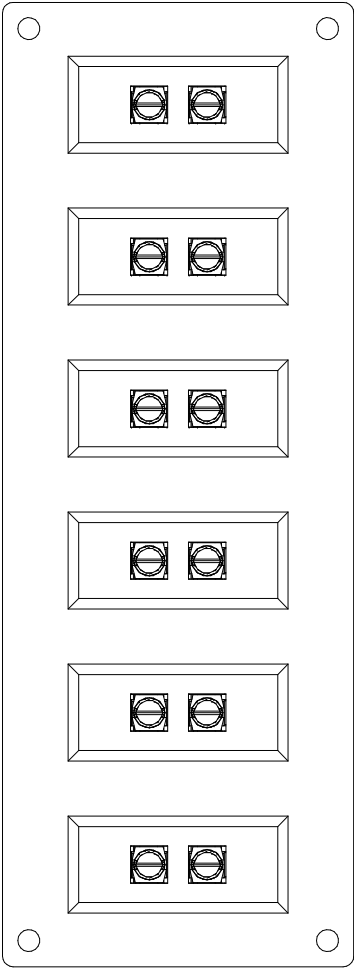


legend

- 1 = -6Q1 main switch
- 2z = -121K1 over-temperature limiter with manual reset furnace chamber
- 8e = -6P2 ammeter
- 8e = -6P2.1 ammeter
- 8e = -6P2.2 ammeter
- 41 = -95S1 selection switch control current 0 / I
- 73i = -250S0 momentary-contact button emergency stop heating
- 74c = -250S5 momentary-contact button emergency stop heating reset
- 81b = -180S0 momentary-contact button acoustic alarm indicator stop
- 101 = -95P6 Control lamps control current
- 119 = -250P Control lamps emergency stop operate
- 161 = -83A6 switch cabinet ventilation
- 161 = -83G4 switch cabinet ventilation
- 162 = -83K1 switch cabinet temperature display
- 249 = -180P6 Signalsäule Bandalarm
- 146r = -180P8.1 Signalsäule Akustischer Alarmmelder Störung
- 146 = -180P8 Signalsäule Störung
- 147 = -180P7 Signalsäule Programmende
- 402 = -180P6.1 Signalsäule Betrieb



top



182M

182N

182o

182g-3

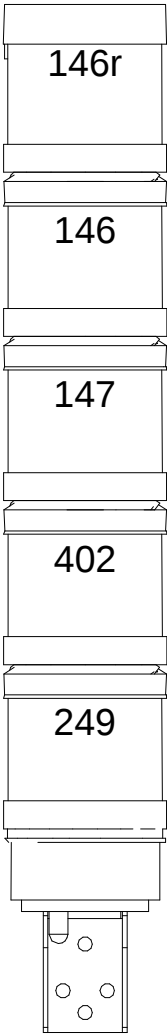
182g-2

182g-1

legend

- 182g-1 = -140XS1
- 182g-2 = -140XS3
- 182g-3 = -140XS4
- 182o = -141XS1
- 182N = -141XS3
- 182M = -141XS4
- plug-in device thermocouples " zone [1]"
- plug-in device thermocouples " zone [2]"
- plug-in device thermocouples " zone [3]"
- plug-in device thermocouples "documentation 1 Charge"
- plug-in device thermocouples "hottest place"
- plug-in device thermocouples "coldest place"

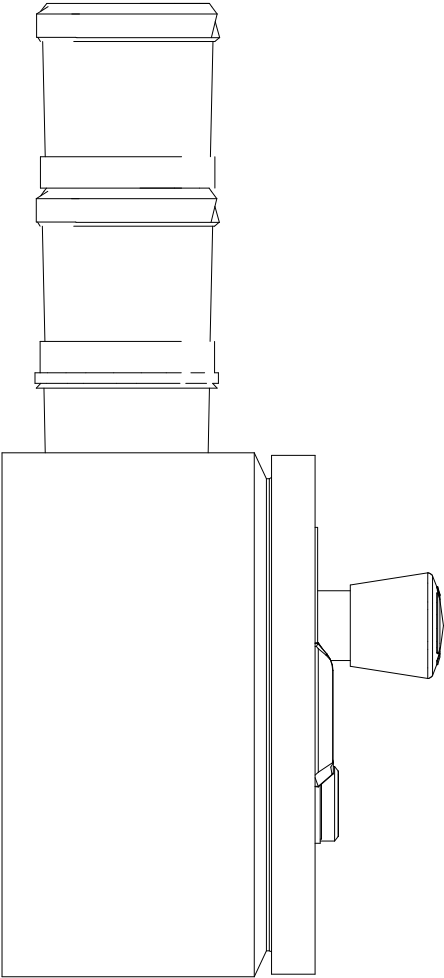
top



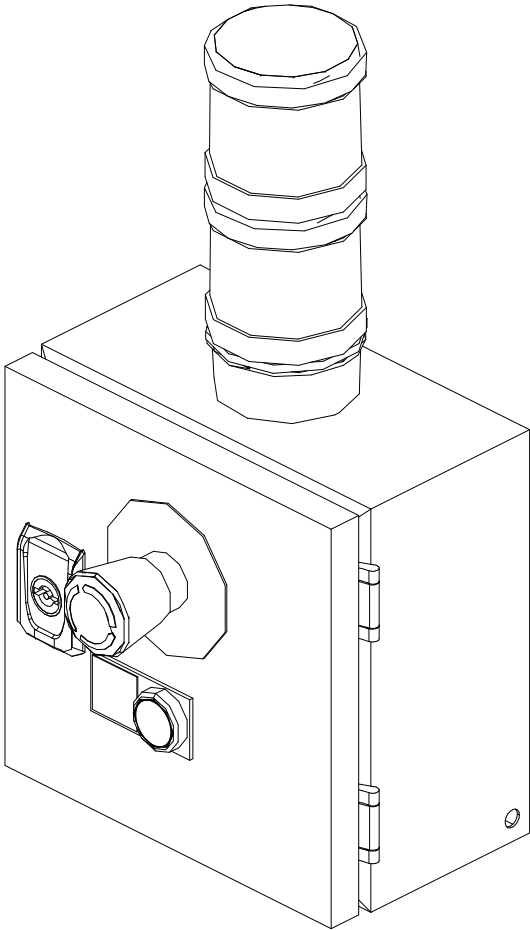
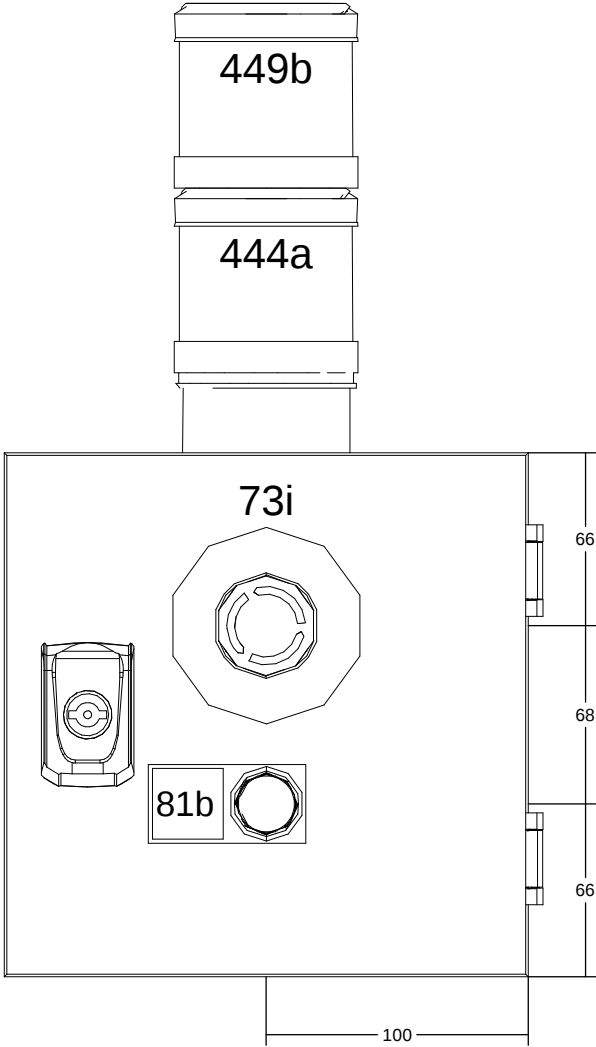
legend

- 249 = -180P6 Signalsäule Bandalarm
- 402 =-180P6.1 Signalsäule Betrieb
- 147 = -180P7 Signalsäule Programmende
- 146 = -180P8 Signalsäule Störung
- 146r =-180P8.1 Signalsäule Akustischer Alarmmelder Störung

view left



front view



legend

- 73i = -182S1 momentary-contact button emergency stop heating
- 81b = -182S3 momentary-contact button acoustic alarm indicator stop
- 444a = -182P6 signal column process close / door unlocked
- 449b = -182P7 signal column temperature furnace chamber > 50°C

cable-overview

Cable name	source	target	Cable type	part number	all conductors	Conductors used	cross section	Length [m]	Function text	standard
+SA-12W1	+SA-5X4	+SA-10Q0	OZ-500	524301083	2	2	0,5 mm²		Control semiconductor relay step below (zone 1)	
+SA-12W2	+SA-5X4	+SA-10Q1	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-12W3	+SA-5X4	+SA-10Q2	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-12W4	+SA-5X4	+SA-10Q3	OZ-500	524301083	2	2	0,5 mm²		Control semiconductor relay step middle (zone 2)	
+SA-12W4.1	+SA-5X4	+SA-10Q4	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-12W5	+SA-5X4	+SA-10Q5	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-12W6	+SA-5X4	+SA-10Q6	OZ-500	524301083	2	2	0,5 mm²		Control semiconductor relay step top (zone 3)	
+SA-12W7	+SA-5X4	+SA-10Q7	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-12W8	+SA-5X4	+SA-10Q8	OZ-500	524301083	2	2	0,5 mm²		=	
+SA-102W2	+SA-101A1	+SA-103K0	CAT5E, RJ45, SFTP	544300134	8	1	26 AWG			
+SA-102W3	+SA-102U3	+SA-103K0	CAT5E, RJ45, SFTP	544300134	8	1	26AWG mm²			
+SA-140W1	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step below (zone 1)	
+SA-140W3	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step middle (zone 2)	
+SA-140W4	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step top (zone 3)	
+SA-140W6	+SA-2X1	+SA-121K1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple over-temperature limiter with manual	
+SA-141W1	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple documentation 1	
+SA-141W3	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple "hottest" place	
+SA-141W4	+SA-2X1	+SA-103K1.1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple "coldest" place	
+SA-180W4	+SA-3X2	+SA-180X4	JZ-500	524300566	7	7	1,5 mm²		signal column operation	
+PC-102W8	+SA-102U3	+PC-100A1-100A2	2YY(ST)CY	524300942	2x2	1	0,64 mm²	50		
+E01-123W1	+KK01-3X6	+E01-123B1	SIHF	524300053	7	7	1,5 mm²		door switch front locked (Gray room)	
+E01-123W5	+KK01-6X6	+E01-123B1	SIHF	524300050	3	3	1,5 mm²		door front closed (Gray room)	
+E01-124W1	+KK01-3X6	+E01-124B1	SIHF	524300053	7	7	1,5 mm²		door switch rear locked (Clean room)	
+E01-124W5	+KK01-6X6	+E01-124B1	SIHF	524300050	3	3	1,5 mm²		door rear closed (Clean room)	
+E01-125W1	+KK01-6X6	+E01-125B1	SIHF	524300373	5	5	1,5 mm²		safety switch door front (Gray room)	
+E01-125W3	+KK01-6X6	+E01-125B3	SIHF	524300373	5	5	1,5 mm²		safety switch door rear (Clean room)	
+E01-140W1	+E01-140B1	+E01-140XS1	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step below (zone 1)	
+E01-140W3	+E01-140B3	+E01-140XS3	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step middle (zone 2)	
+E01-140W4	+E01-140B4	+E01-140XS4	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple step top (zone 3)	
+E01-140W6	+KK01-2X6	+E01-140B6	PTRH-PT/S EFE	544100205	2	2	0,5 mm²		thermocouple over-temperature limiter with manual	
+E01-180W4	+KK01-3X6	+E01-180X4	JZ-500	524300566	7	7	1,5 mm²			
+SP01-5W1	+KK01-5A2	+SA-5A1		523600070		1		3		
+SP01-11W1	+SA-1X1	+KK01-1X6	PVC	524300526	1	1	10 mm²	6,5	heating furnace 75kW	
+SP01-11W2	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W2.1	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W3	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W4	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W4.1	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W5	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W6	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W6.1	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-11W7	+SA-1X1	+KK01-1X6	PVC	524300525	1	1	10 mm²	6,5	=	
+SP01-75W5	+SA-4X1	+KK01-4X6	JZ-500	524300566	7	7	1,5 mm²	6,5	reserve cable power	
+SP02-5W3	+KK01-5A2	+SA-5A1		523600069		1		3		
+SP02-40W1	+SA-14X1	+KK01-14X6	JZ-500	524300613	4	4	1,5 mm²	6,5	Motor for exhaust air flap	
+SP02-40W3	+SA-14X1.1	+KK01-14X6.1	OZ-500	524301085	4	4	1,5 mm²	6,5	exhaust air flap closed	

PLC - connection

Project name M058500									
BMK PLC	Terminal	Address	destination	cable-name	cable type	cross section	color	Placement	Function text
=+SA-103K1	1	I0.0	-3X4P:3			0,5 mm²		/95.2	control voltage 24V on
	2	I0.1	-121K4:14			0,5 mm²		/121.6	status signal no overtemperature (TSL)
	3	I0.2	-93K2:-X2:1			0,5 mm²		/93.2	UPS active
	4	I0.3	-93K2:-X2:4			0,5 mm²		/93.4	UPS malfunction
	5	I0.4	-86Q1:22			0,5 mm²		/86.7	monitoring pilot circuit 230V AC primary
	6	I0.5	-86Q4:22			0,5 mm²		/86.8	monitoring pilot circuit 24V DC primary
	7	I0.6	-6X1:18			0,5 mm²		/125.4	status signal door closed
	8	I0.7						/119.1	not used
	9								
	10								
	11	I1.0	-14X1.1:2			0,5 mm²		/40.4	exhaust air flap closed
	12	I1.1	-14X1.1:4			0,5 mm²		/40.5	exhaust air flap open
	13	I1.2						/119.2	not used
	14	I1.3						/119.2	=
	15	I1.4						/119.3	=
	16	I1.5						/119.4	=
	17	I1.6						/119.5	=
	18	I1.7	-X6:1:b			0,5 mm²		/180.0	acoustic alarm indicator stop
	19								
	20		-3X4M:10			1 mm²		/105.4	board supply Inputs
	21	I2.0	-3X1:10			0,5 mm²		/123.2	door switch front locked (Gray room)
	22	I2.1	-3X1:14			0,5 mm²		/123.4	door front open (Gray room)
	23	I2.2	-3X1:18			0,5 mm²		/124.2	door switch rear locked (Clean room)
	24	I2.3	-3X1:22			0,5 mm²		/124.4	door rear open (Clean room)
	25	I2.4						/119.4	not used
	26	I2.5						/119.5	=
	27	I2.6	-125K6:14			0,5 mm²		/125.8	status signal safety interlock OK
	28	I2.7						/119.6	not used
	29								
	30								
	31	I3.0	-250K3:42			0,5 mm²		/250.7	emergencystop operate

PLC - connection

Project name M058500									
BMK PLC	Terminal	Address	destination	cable-name	cable type	cross section	color	Placement	Function text
=+SA-103K1.1	1	IW288						/111.3	
	2	IW288						/111.3	
	3	IW288	-2X1:1	-140W1	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/140.1	thermocouple step below (zone 1)
	4	IW288	-2X1:2	-140W1	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/140.2	=
	5	IW290						/111.3	
	6	IW290						/111.3	
	7	IW290	-2X1:4	-140W3	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/140.2	thermocouple step middle (zone 2)
	8	IW290	-2X1:5	-140W3	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/140.3	=
	9	IW292						/111.3	
	10	IW292						/111.3	
	11	IW292	-2X1:7	-140W4	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/140.4	thermocouple step top (zone 3)
	12	IW292	-2X1:8	-140W4	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/140.5	=
	13	IW294						/111.3	
	14	IW294						/111.3	
	15	IW294	-2X1:13	-141W1	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/141.1	thermocouple documentation 1
	16	IW294	-2X1:14	-141W1	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/141.2	=
	17							/111.3	
	18							/111.3	
	19							/111.3	
	20							/111.3	
	21	IW296						/111.6	
	22	IW296						/111.6	
	23	IW296	-2X1:16	-141W3	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/141.2	thermocouple "hottest" place
	24	IW296	-2X1:17	-141W3	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/141.3	=
	25	IW298						/111.6	
	26	IW298						/111.6	
	27	IW298	-2X1:19	-141W4	PTRH-PT/S EFE 2x0,5	0,5 mm²	OG	/141.4	thermocouple "coldest" place
	28	IW298	-2X1:20	-141W4	PTRH-PT/S EFE 2x0,5	0,5 mm²	WH	/141.5	=
	29	IW300						/111.6	
	30	IW300						/111.6	
	31	IW300						/119.6	not used

PLC - connection

Project name M058500									
BMK PLC	Terminal	Address	destination	cable-name	cable type	cross section	color	Placement	Function text
=+SA-103K2	1	Q8.0	-135K8:A1			1 mm²		/135.8	safety contactors on
	2	Q8.1	-2X2:5			1 mm²		/95.5	pilot lamp control voltage
	3	Q8.2						/120.0	not used
	4	Q8.3	-X6:2:b			1 mm²		/180.3	signal column range alarm
	5	Q8.4	-X6:3:b			1 mm²		/180.4	signal column operation
	6	Q8.5	-3X2:3			1 mm²		/180.5	signal column end of program
	7	Q8.6	-X6:4:b			1 mm²		/180.6	signal column malfunction
	8	Q8.7	-X6:5:b			1 mm²		/180.7	signal column acoustic alarm indicator
	9		-3X4:5			1 mm²		/106.1	board supply Outputs
	10		-3X4M:12			1 mm²		/106.2	=
	11	Q9.0	-3X1:27			1 mm²		/181.5	signal column end of program Clean room
	12	Q9.1	-3X1:39			1 mm²		/182.4	Signalsäule Freigebe Tür entriegeln
	13	Q9.2						/120.2	not used
	14	Q9.3	-3X1:40			1 mm²		/182.5	signal column temperature > 50°C
	15	Q9.4	-40K7:A1			1 mm²		/40.7	relay exhaust air flap open
	16	Q9.5	-40K8:A1			1 mm²		/40.8	relay exhaust air flap close
	17	Q9.6						/120.4	not used
	18	Q9.7						/120.5	=
	19		-3X4:6			1 mm²		/106.1	board supply Outputs
	20		-3X4M:12			1 mm²		/106.2	=
	21	Q10.0						/120.0	not used
	22	Q10.1	-5X4:1			1 mm²		/12.1	Control semiconductor relay step below (zone 1)
	23	Q10.2	-5X4:7			1 mm²		/12.4	Control semiconductor relay step middle (zone 2)
	24	Q10.3	-5X4:13			1 mm²		/12.6	Control semiconductor relay step top (zone 3)
	25	Q10.4						/120.6	relay 2
	26	Q10.5						/120.7	relay 3
	27	Q10.6						/120.8	relay 4
	28	Q10.7						/120.9	relay 5
	29		-3X4:6			1 mm²		/106.1	board supply Outputs
	30		-3X4M:13			1 mm²		/106.2	=
	31	Q11.0	-3X1:11			1 mm²		/123.2	door front unlock (Gray room)

[illegible]

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
1	+E01-40M3	flap drive 230V/10Nm	542500021	1 St.	+SA/40.1	O
2	+E01-40S3	limit switch for Motor NM230A	521700168	1 St.	+SA/40.3	O
3	+E01-123B1	door interlock AZM415	541700263	1 St.	+SA/123.1	O
4	+E01-123B1	actuator	521700206	1 St.	+SA/123.1	O
5	+E01-123B1	triangular key	521700207	1 St.	+SA/123.1	O
6	+E01-124B1	door interlock AZM415	541700263	1 St.	+SA/124.1	O
7	+E01-124B1	actuator	521700206	1 St.	+SA/124.1	O
8	+E01-124B1	triangular key	521700207	1 St.	+SA/124.1	O
9	+E01-125B1	door switch 2NC	541700182	1 St.	+SA/125.1	O
10	+E01-125B3	door switch 2NC	541700182	1 St.	+SA/125.3	O
11	+E01-140B1	thermocouple type S	540300011	1 St.	+SA/140.1	O
12	+E01-140B3	thermocouple type S	540300011	1 St.	+SA/140.3	O
13	+E01-140B4	thermocouple type S	540300011	1 St.	+SA/140.4	O
14	+E01-140B6	thermocouple type S	540300011	1 St.	+SA/140.6	O
15	+E01-140XS1	TE-plug type S	520900378	1 St.	+SA/140.1	O
16	+E01-140XS1	strain relief plug/female	520900016	1 St.	+SA/140.1	O
17	+E01-140XS3	TE-plug type S	520900378	1 St.	+SA/140.3	O
18	+E01-140XS3	strain relief plug/female	520900016	1 St.	+SA/140.3	O
19	+E01-140XS4	TE-plug type S	520900378	1 St.	+SA/140.4	O
20	+E01-140XS4	strain relief plug/female	520900016	1 St.	+SA/140.4	O
21	+E01-141XS1	TE-plug type S	520900378	1 St.	+SA/141.1	O
22	+E01-141XS1	strain relief plug/female	520900016	1 St.	+SA/141.1	O
23	+E01-141XS3	TE-plug type S	520900378	1 St.	+SA/141.3	O
24	+E01-141XS3	strain relief plug/female	520900016	1 St.	+SA/141.3	O
25	+E01-141XS4	TE-plug type S	520900378	1 St.	+SA/141.4	O
26	+E01-141XS4	strain relief plug/female	520900016	1 St.	+SA/141.4	O
27	+E01-180P6	steady light element BU 24V UDC	521600201	1 St.	+SA/181.6	O
28	+E01-180P6.1	steady light element GN 24V UDC	521600199	1 St.	+SA/181.6	O
29	+E01-180P7	steady light element YE 24V UDC	521600198	1 St.	+SA/181.7	O
30	+E01-180P8	steady light element RD 24V UDC	521600197	1 St.	+SA/181.8	O
31	+E01-180P8.1	acoustic element	521600250	1 St.	+SA/181.8	O
32	+E01-180X4	connection element with cover	521600194	1 St.	+SA/181.4	O
33	+E01-180X4	fitting angle signal column	521600196	1 St.	+SA/181.4	O
34	+KK01-1X6	end support for NS 35	520800454	2 St.	+SA/11.8	O

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
35	+KK01-1X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/11.8	O
36	+KK01-1X6	end cover PT 10 N	520800604	1 St.	+SA/11.8	O
37	+KK01-1X6	terminal block 10mm² GNYE	520800595	3 St.	+SA/11.1;+SA/11.8	O
38	+KK01-1X6	terminal block 10mm² GY	520800594	18 St.	+SA/11.2...+SA/11.8	O
39	+KK01-2X6	end support for NS 35	520800454	2 St.	+SA/140.6	O
40	+KK01-2X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/140.6	O
41	+KK01-2X6	end cover for PIT 2,5 GY	520800395	1 St.	+SA/140.6	O
42	+KK01-2X6	thermovoltage terminal type S	520800057	1 St.	+SA/140.6	O
43	+KK01-2X6	terminal block 2,5mm² GY	520800387	1 St.	+SA/140.6	O
44	+KK01-3X6	end support for NS 35	520800454	2 St.	+SA/75.3	O
45	+KK01-3X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/75.3	O
46	+KK01-3X6	end cover for PIT 2,5 GY	520800395	1 St.	+SA/75.3	O
47	+KK01-3X6	terminal block 2,5mm² GY	520800387	24 St.	+SA/75.1;+SA/75.2;+SA/123.1...+SA/123.4	O
48	+KK01-3X6	terminal block 2,5mm² GNYE	520800389	4 St.	+SA/75.2;+SA/123.5;+SA/124.5;+SA/181.6	O
49	+KK01-4X6	end support for NS 35	520800454	2 St.	+SA/75.4	O
50	+KK01-4X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/75.4	O
51	+KK01-4X6	end cover for PIT 2,5 GY	520800395	1 St.	+SA/75.4	O
52	+KK01-4X6	terminal block 2,5mm² GY	520800387	6 St.	+SA/75.6	O
53	+KK01-4X6	terminal block 2,5mm² GNYE	520800389	1 St.	+SA/75.7	O
54	+KK01-6X6	end support for NS 35	520800454	2 St.	+SA/125.2	O
55	+KK01-6X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/125.2	O
56	+KK01-6X6	end cover for PIT 2,5 GY	520800395	1 St.	+SA/125.2	O
57	+KK01-6X6	terminal block 2,5mm² GY	520800387	12 St.	+SA/123.5;+SA/123.6;+SA/124.5;+SA/124.6	O
58	+KK01-6X6	terminal block 2,5mm² GNYE	520800389	4 St.	+SA/123.6;+SA/124.6;+SA/125.2;+SA/125.4	O
59	+KK01-14X6	end support for NS 35	520800454	2 St.	+SA/40.2	O
60	+KK01-14X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/40.2	O
61	+KK01-14X6	end cover for PIT 2,5 GY	520800395	1 St.	+SA/40.2	O
62	+KK01-14X6.1	end support for NS 35	520800454	2 St.	+SA/40.5	O
63	+KK01-14X6.1	Terminal strip marker KLM 3	520800652	1 St.	+SA/40.5	O
64	+KK01-14X6.1	end cover for PIT 2,5 GY	520800395	1 St.	+SA/40.5	O
65	+KK01-14X6.1	terminal block 2,5mm² GY	520800387	6 St.	+SA/40.3...+SA/40.5	O
66	+KK01-14X6	terminal block 2,5mm² GY	520800387	3 St.	+SA/40.1;+SA/40.2	O
67	+KK01-14X6	terminal block 2,5mm² GNYE	520800389	1 St.	+SA/40.2	O
68	+KK01-140XS1	TE-flush mounting panel socket type S	520900376	1 St.	+SA/140.1	O

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
69	+KK01-140XS3	TE-flush mounting panel socket type S	520900376	1 St.	+SA/140.3	O
70	+KK01-140XS4	TE-flush mounting panel socket type S	520900376	1 St.	+SA/140.4	O
71	+KK01-141XS1	TE-flush mounting panel socket type S	520900376	1 St.	+SA/141.1	O
72	+KK01-141XS3	TE-flush mounting panel socket type S	520900376	1 St.	+SA/141.3	O
73	+KK01-141XS4	TE-flush mounting panel socket type S	520900376	1 St.	+SA/141.4	O
74	+KK02-5A6	E-Box KX,200x200x120mm	542300058	1 St.	+DOKU/5.6	O
75	+KK02-182P6	steady light element GN 24V UDC	521600199	1 St.	+SA/182.6	O
76	+KK02-182P7	steady light element RD 24V UDC	521600197	1 St.	+SA/182.7	O
77	+KK02-182S1	emergency stop mushroom push-button, 40mm	521700351	1 St.	+SA/182.2	O
78	+KK02-182S1	contact module contact element 1NC	521700344	2 St.	+SA/182.2	O
79	+KK02-182S1	holder modul	521700367	1 St.	+SA/182.2	O
80	+KK02-182S1	yellow inscription plate emergency stop	521700384	1 St.	+SA/182.2	O
81	+KK02-182S3	momentary-contact pushbutton WH	521700338	1 St.	+SA/182.4	O
82	+KK02-182S3	contact module contact element 1NO	521700336	1 St.	+SA/182.4	O
83	+KK02-182S3	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/182.4	O
84	+KK02-182S3	blank plate 27x27 mm	521700088	1 St.	+SA/182.4	O
85	+KK02-182S3	holder modul	521700367	1 St.	+SA/182.4	O
86	+KK02-182X5	connection element with cover	521600194	1 St.	+SA/182.5	O
87	+PC-100A1	pc-cabinet 600x1600x636 mm	522200269	1 St.	+SA/100.1	SA
88	+PC-100A1	plinth for pc-cabinet	522200270	1 St.	+SA/100.1	SA
89	+PC-100A1	component shelf 510x555 mm	522200271	1 St.	+SA/100.1	SA
90	+PC-100A1	Twin castors	522200128	1 St.	+SA/100.1	SA
91	+PC-100A1	two-pole and earthing-pin plug with right angle	540900150	1 St.	+SA/100.1	SA
92	+PC-100A1	travel - plug - adaptor	540900366	1 St.	+SA/100.1	SA
93	+PC-100A1-100A2	PC-FR (WIN 10, WinCC 7.4 2k)	544500070	1 St.	+SA/100.2	SA
94	+PC-100A1-100C2	APC Smart-UPS 1500 VA	544700040	1 St.	+SA/100.2	SA
95	+PC-100A1-100F2	earth-leakage circuit breaker 25A / 0,03	541800084	1 St.	+SA/100.2	SA
96	+PC-100A1-100X0	end support for NS 35	520800454	2 St.	+SA/100.1;+SA/100.3	SA
97	+PC-100A1-100X0	Terminal strip marker KLM 3	520800652	1 St.	+SA/100.1	SA
98	+PC-100A1-100X0	terminal block 2,5mm² GNYE	520800389	1 St.	+SA/100.1	SA
99	+PC-100A1-100X0	terminal block 2,5mm² GY	520800387	1 St.	+SA/100.2	SA
100	+PC-100A1-100X0	terminal block 2,5mm² BU	520800388	1 St.	+SA/100.2	SA
101	+PC-100A1-100X0	terminal block 6mm² GNYE	520800432	1 St.	+SA/100.3	SA
102	+PC-100A1-100X0	end cover for PIT 2,5 GY	520800395	1 St.	+SA/100.3	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
103	+PC-100A1-100X2	socket outlet with earthing contact 250V/16A	540900043	1 St.	+SA/100.2	SA
104	+PC-102W8	Profinet FC standard Cable	524300942	50 m	+SA/102.8	SA
105	+PC-102W8	Profinet - plug RJ45, 10/100 Mbit/s	520900563	2 St.	+SA/102.8	SA
106	+SA-1X0	end support for NS 35	520800454	2 St.	+SA/81.8	SA
107	+SA-1X0	Terminal strip marker KLM 3	520800652	1 St.	+SA/81.8	SA
108	+SA-1X0	end cover for PIT 2,5 GY	520800395	1 St.	+SA/81.8	SA
109	+SA-1X0	terminal block 2,5mm² GNYE	520800389	2 St.	+SA/81.1;+SA/81.5	SA
110	+SA-1X0	terminal block 2,5mm² GY	520800387	2 St.	+SA/81.5;+SA/81.7	SA
111	+SA-1X1	end support for NS 35	520800454	2 St.	+SA/11.8	SA
112	+SA-1X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/11.8	SA
113	+SA-1X1	end cover PT 10 N	520800604	1 St.	+SA/11.8	SA
114	+SA-1X1	terminal block 10mm² GNYE	520800595	2 St.	+SA/11.1;+SA/11.7	SA
115	+SA-1X1	terminal block 10mm² GY	520800594	9 St.	+SA/11.2...+SA/11.7	SA
116	+SA-1X2	end support	520800059	2 St.	+SA/6.8	SA
117	+SA-1X2	Terminal strip marker KLM1	520800187	1 St.	+SA/6.8	SA
118	+SA-1X2	end cover MPT 2,5	520800540	1 St.	+SA/6.8	SA
119	+SA-1X2	mini-protective-conductor terminal 2,5mm² GN/YE	520800539	1 St.	+SA/6.8	SA
120	+SA-1X2	mini - Feed-through terminal block	520800538	4 St.	+SA/87.1;+SA/87.6;+SA/95.8;+SA/121.2	SA
121	+SA-1X5	end support	520800059	3 St.	+SA/6.8;+SA/6.9	SA
122	+SA-1X5	Terminal strip marker KLM1	520800187	1 St.	+SA/6.8	SA
123	+SA-1X5	mini-protective-conductor terminal 2,5mm² GN/YE	520800539	3 St.	+SA/6.8;+SA/6.9	SA
124	+SA-1X5	end cover MPT 2,5	520800540	2 St.	+SA/6.8;+SA/6.9	SA
125	+SA-1X5L	end support	520800059	3 St.	+SA/83.7;+SA/121.1	SA
126	+SA-1X5L	Terminal strip marker KLM1	520800187	1 St.	+SA/83.7	SA
127	+SA-1X5L	end cover MPT 2,5	520800540	2 St.	+SA/83.7;+SA/121.1	SA
128	+SA-1X5L	mini - Feed-through terminal block	520800538	4 St.	+SA/83.4;+SA/95.8;+SA/121.1	SA
129	+SA-1X5N	end support	520800059	2 St.	+SA/83.7	SA
130	+SA-1X5N	Terminal strip marker KLM1	520800187	1 St.	+SA/83.7	SA
131	+SA-1X5N	end cover MPT 2,5	520800540	1 St.	+SA/83.7	SA
132	+SA-1X5N	mini - Feed-through terminal block	520800538	3 St.	+SA/83.4;+SA/121.1	SA
133	+SA-2X1	end support for NS 35	520800454	2 St.	+SA/140.8	SA
134	+SA-2X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/140.8	SA
135	+SA-2X1	end cover for PIT 2,5 GY	520800395	1 St.	+SA/140.8	SA
136	+SA-2X1	thermovoltage terminal type S	520800057	7 St.	+SA/140.1;+SA/140.3;+SA/140.4;+SA/140.6	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
137	+SA-2X1	terminal block 2,5mm² GNYE	520800389	7 St.	+SA/140.2;+SA/140.3;+SA/140.5;+SA/140.6	SA
138	+SA-2X2	end support	520800059	2 St.	+SA/90.7	SA
139	+SA-2X2	Terminal strip marker KLM1	520800187	1 St.	+SA/90.7	SA
140	+SA-2X2	end cover MPT 2,5	520800540	1 St.	+SA/90.7	SA
141	+SA-2X2	mini - Feed-through terminal block	520800538	14 St.	+SA/83.2;+SA/90.1;+SA/95.1;+SA/95.5	SA
142	+SA-2X5L	end support	520800059	2 St.	+SA/95.6	SA
143	+SA-2X5L	Terminal strip marker KLM1	520800187	1 St.	+SA/95.6	SA
144	+SA-2X5L	end cover MPT 2,5	520800540	1 St.	+SA/95.6	SA
145	+SA-2X5L	mini - Feed-through terminal block	520800538	3 St.	+SA/95.8;+SA/95.9	SA
146	+SA-2X5N	end support	520800059	2 St.	+SA/87.2	SA
147	+SA-2X5N	Terminal strip marker KLM1	520800187	1 St.	+SA/87.2	SA
148	+SA-2X5N	end cover MPT 2,5	520800540	1 St.	+SA/87.2	SA
149	+SA-2X5N	mini - Feed-through terminal block	520800538	5 St.	+SA/87.1...+SA/87.3	SA
150	+SA-3X0	end support for NS 35	520800454	2 St.	+SA/69.3	SA
151	+SA-3X0	Terminal strip marker KLM 3	520800652	1 St.	+SA/69.3	SA
152	+SA-3X0	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/69.3	SA
153	+SA-3X0	double_level terminal block 2,5mm² GY	520800563	2 St.	+SA/69.1;+SA/69.2	SA
154	+SA-3X0	double_level terminal block 2,5mm² GNYE	520800564	1 St.	+SA/69.2	SA
155	+SA-3X1	end support for NS 35	520800454	2 St.	+SA/75.3	SA
156	+SA-3X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/75.3	SA
157	+SA-3X1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/75.3	SA
158	+SA-3X1	double_level terminal block 2,5mm² GY	520800563	18 St.	+SA/75.1;+SA/75.2;+SA/123.1;+SA/123.2	SA
159	+SA-3X1	double_level terminal block 2,5mm² GNYE	520800564	5 St.	+SA/75.2;+SA/123.5;+SA/124.5;+SA/181.6	SA
160	+SA-3X2	end support	520800059	2 St.	+SA/180.2	SA
161	+SA-3X2	Terminal strip marker KLM1	520800187	1 St.	+SA/180.2	SA
162	+SA-3X2	end cover MPT 2,5	520800540	1 St.	+SA/180.2	SA
163	+SA-3X2	mini - Feed-through terminal block	520800538	6 St.	+SA/180.5;+SA/180.6	SA
164	+SA-3X2	mini-protective-conductor terminal 2,5mm² GN/YE	520800539	1 St.	+SA/180.6	SA
165	+SA-3X4	end support	520800059	2 St.	+SA/105.1	SA
166	+SA-3X4	Terminal strip marker KLM1	520800187	1 St.	+SA/105.1	SA
167	+SA-3X4	end cover MPT 2,5	520800540	1 St.	+SA/105.1	SA
168	+SA-3X4	mini - Feed-through terminal block	520800538	7 St.	+SA/105.0;+SA/105.2;+SA/105.7;+SA/105.8	SA
169	+SA-3X4M	end support	520800059	2 St.	+SA/90.7	SA
170	+SA-3X4M	Terminal strip marker KLM1	520800187	1 St.	+SA/90.7	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
171	+SA-3X4M	end cover MPT 2,5	520800540	1 St.	+SA/90.7	SA
172	+SA-3X4M	mini - Feed-through terminal block	520800538	14 St.	+SA/90.1...+SA/90.3;+SA/93.3;+SA/105.1	SA
173	+SA-3X4P	end support	520800059	2 St.	+SA/93.5	SA
174	+SA-3X4P	Terminal strip marker KLM1	520800187	1 St.	+SA/93.5	SA
175	+SA-3X4P	end cover MPT 2,5	520800540	1 St.	+SA/93.5	SA
176	+SA-3X4P	mini - Feed-through terminal block	520800538	12 St.	+SA/93.3;+SA/95.1...+SA/95.4;+SA/123.1	SA
177	+SA-4X1	end support for NS 35	520800454	2 St.	+SA/75.7	SA
178	+SA-4X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/75.7	SA
179	+SA-4X1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/75.7	SA
180	+SA-4X1	double_level terminal block 2,5mm² GY	520800563	3 St.	+SA/75.6	SA
181	+SA-4X1	double_level terminal block 2,5mm² GNYE	520800564	1 St.	+SA/75.7	SA
182	+SA-5A1	floor mounting cabinet 1200x1800x400mm	522200472	1 St.	+DOKU/5.1	SA
183	+SA-5A1	side wall 1800x400mm	522200446	2 St.	+DOKU/5.1	SA
184	+SA-5A1	Base element front and rear	522200433	2 St.	+DOKU/5.1	SA
185	+SA-5A1	Socket orifice lateral	522200437	2 St.	+DOKU/5.1	SA
186	+SA-5A1	Eye bolt with 60 mm thread	522200548	4 St.	+DOKU/5.1	SA
187	+SA-5A1	box for wiring diagrams PVC DIN A4	522200021	2 St.	+DOKU/5.1	SA
188	+SA-5A1	Compensating plate for switch cabinet	621520109	4 St.	+DOKU/5.1	SA
189	+SA-5A1	Compensating plate for switch cabinet	621520110	4 St.	+DOKU/5.1	SA
190	+SA-5A1	Compensating plate for switch cabinet	621520111	4 St.	+DOKU/5.1	SA
191	+SA-5A1	screw anchor W - SA	693000373	4 St.	+DOKU/5.1	SA
192	+SA-5X1	end support for NS 35	520800454	2 St.	+SA/6.8	SA
193	+SA-5X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/6.8	SA
194	+SA-5X1	end cover for PIT 2,5 GY	520800395	1 St.	+SA/6.8	SA
195	+SA-5X1	terminal block 10mm² GNYE	520800595	2 St.	+SA/6.4	SA
196	+SA-5X1	end cover PT 10 N	520800604	1 St.	+SA/6.4	SA
197	+SA-5X1	terminal block 6mm² GNYE	520800432	4 St.	+SA/6.5;+SA/6.6	SA
198	+SA-5X1	end cover for PT 6 GY	520800433	1 St.	+SA/6.6	SA
199	+SA-5X1	terminal block 2,5mm² GNYE	520800389	10 St.	+SA/6.6...+SA/6.8	SA
200	+SA-5X4	end support for NS 35	520800454	2 St.	+SA/12.7	SA
201	+SA-5X4	Terminal strip marker KLM 3	520800652	1 St.	+SA/12.7	SA
202	+SA-5X4	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/12.7	SA
203	+SA-5X4	double_level terminal block 2,5mm² GY	520800563	9 St.	+SA/12.1...+SA/12.8	SA
204	+SA-6B1	current transformer 150/5A	542000006	1 St.	+SA/6.1	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
205	+SA-6B1.1	current transformer 150/5A	542000006	1 St.	+SA/6.1	SA
206	+SA-6B1.2	current transformer 150/5A	542000006	1 St.	+SA/6.1	SA
207	+SA-6P2	moving-iron-ammeter SQ96E	521900077	1 St.	+SA/6.2	SA
208	+SA-6P2	scale 0-150/300A for RQ96E	521900094	1 St.	+SA/6.2	SA
209	+SA-6P2.1	moving-iron-ammeter SQ96E	521900077	1 St.	+SA/6.2	SA
210	+SA-6P2.1	scale 0-150/300A for RQ96E	521900094	1 St.	+SA/6.2	SA
211	+SA-6P2.2	moving-iron-ammeter SQ96E	521900077	1 St.	+SA/6.2	SA
212	+SA-6P2.2	scale 0-150/300A for RQ96E	521900094	1 St.	+SA/6.2	SA
213	+SA-6Q1	switch-disconnector 160A	541800206	1 St.	+SA/6.1	SA
214	+SA-6Q1	rotary drive red-yellow	521800112	1 St.	+SA/6.1	SA
215	+SA-6Q1	handle shaft 600mm	521800113	1 St.	+SA/6.1	SA
216	+SA-6Q1	cover	521800132	8 St.	+SA/6.1	SA
217	+SA-6Q1	control wire connection	521800115	2 St.	+SA/6.1	SA
218	+SA-6U0	busbar support 60mm UL	521500225	4 St.	+SA/6.0	SA
219	+SA-6U0	end covers	521500226	2 St.	+SA/6.0	SA
220	+SA-6X1	end support for NS 35	520800454	2 St.	+SA/125.0	SA
221	+SA-6X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/125.0	SA
222	+SA-6X1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/125.0	SA
223	+SA-6X1	double_level terminal block 2,5mm² GY	520800563	6 St.	+SA/123.5;+SA/124.5	SA
224	+SA-6X1	double_level terminal block 2,5mm² GNYE	520800564	4 St.	+SA/123.6;+SA/124.6;+SA/125.2;+SA/125.4	SA
225	+SA-6XD1	busbar connection adaptor 250A	521500256	1 St.	+SA/6.1	SA
226	+SA-6XTR7	knife disconnect terminal block	520800632	1 St.	+SA/6.7	SA
227	+SA-6XTR8	knife disconnect terminal block	520800632	1 St.	+SA/6.8	SA
228	+SA-6XTR8	end cover PT 2,5-MT	520800580	1 St.	+SA/6.8	SA
229	+SA-10F1	NH00-switch-disconnector 160A 660V	541500012	1 St.	+SA/10.1	SA
230	+SA-10F1	NH-fuse-link 50A gG	541500029	3 St.	+SA/10.1	SA
231	+SA-10F4	NH00-switch-disconnector 160A 660V	541500012	1 St.	+SA/10.4	SA
232	+SA-10F4	NH-fuse-link 50A gG	541500029	3 St.	+SA/10.4	SA
233	+SA-10F7	NH00-switch-disconnector 160A 660V	541500012	1 St.	+SA/10.7	SA
234	+SA-10F7	NH-fuse-link 50A gG	541500029	3 St.	+SA/10.7	SA
235	+SA-10Q0	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.0	SA
236	+SA-10Q1	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.1	SA
237	+SA-10Q2	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.2	SA
238	+SA-10Q3	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.3	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
239	+SA-10Q4	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.4	SA
240	+SA-10Q5	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.5	SA
241	+SA-10Q6	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.6	SA
242	+SA-10Q7	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.7	SA
243	+SA-10Q8	semiconductor relay 24-600V/50A	542600040	1 St.	+SA/10.8	SA
244	+SA-10XPE1	terminal block 6mm² GNYE	520800432	1 St.	+SA/10.0	SA
245	+SA-14X1	end support for NS 35	520800454	2 St.	+SA/40.6	SA
246	+SA-14X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/40.6	SA
247	+SA-14X1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/40.6	SA
248	+SA-14X1.1	end support for NS 35	520800454	2 St.	+SA/40.6	SA
249	+SA-14X1.1	Terminal strip marker KLM 3	520800652	1 St.	+SA/40.6	SA
250	+SA-14X1.1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/40.6	SA
251	+SA-14X1.1	double_level terminal block 2,5mm² GY	520800563	2 St.	+SA/40.3;+SA/40.4	SA
252	+SA-14X1	double_level terminal block 2,5mm² GY	520800563	2 St.	+SA/40.1;+SA/40.2	SA
253	+SA-14X1	double_level terminal block 2,5mm² GNYE	520800564	1 St.	+SA/40.2	SA
254	+SA-33X1	end support for NS 35	520800454	2 St.	+SA/250.4	SA
255	+SA-33X1	Terminal strip marker KLM 3	520800652	1 St.	+SA/250.4	SA
256	+SA-33X1	end cover for PTTB 2,5 GY	520800502	1 St.	+SA/250.4	SA
257	+SA-33X1	double_level terminal block 2,5mm² GY	520800563	2 St.	+SA/250.2;+SA/250.3	SA
258	+SA-40K7	relay module 1NC/NO	540600124	1 St.	+SA/40.7	SA
259	+SA-40K8	relay module 1NC/NO	540600124	1 St.	+SA/40.8	SA
260	+SA-69K6	relay module 1NC/NO	540600124	1 St.	+SA/69.6	SA
261	+SA-81E6	LED enclosure light	542200345	1 St.	+SA/81.6	SA
262	+SA-81F1	NH-fuse-link 10A gG	541500225	1 St.	+SA/81.1	SA
263	+SA-81F1	NH00-switch-disconnector 160A 500V	541500406	1 St.	+SA/81.1	SA
264	+SA-81F1	Assembly kit NH - disconnector	521500423	1 St.	+SA/81.1	SA
265	+SA-81F1.1	earth-leakage circuit breaker 25A / 0,03	541800084	1 St.	+SA/81.1	SA
266	+SA-81F2	NH-fuse-link 10A gG	541500225	1 St.	+SA/81.2	SA
267	+SA-81F2	NH00-switch-disconnector 160A 500V	541500406	1 St.	+SA/81.2	SA
268	+SA-81F5	LS-automatic circuit breaker C4A 1pole.max.250V	541500048	1 St.	+SA/81.5	SA
269	+SA-81F6	LS-automatic circuit breaker C1A 1pole.max.250V	541500045	1 St.	+SA/81.6	SA
270	+SA-81T1	control-power transformer 1,0kVA 400/230V	541000330	1 St.	+SA/81.1	SA
271	+SA-81XS5	socket outlet with earthing contact 250V/16A	540900043	1 St.	+SA/81.5	SA
272	+SA-83A6	outlet filter 105x105mm	522800058	6 St.	+SA/83.6	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
273	+SA-83G4	filter fan 45W 250x250mm	542800147	1 St.	+SA/83.4	SA
274	+SA-83K1	temperature display	542800005	1 St.	+SA/83.1	SA
275	+SA-83R4	interference-suppression element 110-230 V AC	541300001	1 St.	+SA/83.4	SA
276	+SA-86Q1	power circuit-breaker 2,2-3,2A	541800283	1 St.	+SA/86.1	SA
277	+SA-86Q1	auxiliary switch block, 1NO/1NC	521800226	1 St.	+SA/86.1	SA
278	+SA-86Q4	power circuit-breaker 2,8-4A	541800284	1 St.	+SA/86.4	SA
279	+SA-86Q4	auxiliary switch block, 1NO/1NC	521800226	1 St.	+SA/86.4	SA
280	+SA-86T1	control-power transformer 1,0kVA 400/230V	541000330	1 St.	+SA/86.1	SA
281	+SA-86T4	current supply 3x400V/10A	544700101	1 St.	+SA/86.4	SA
282	+SA-86XD1	OM-adaptor 32A UL	521500426	1 St.	+SA/86.1	SA
283	+SA-86XD4	OM-adaptor 32A UL	521500426	1 St.	+SA/86.4	SA
284	+SA-87F6	LS-automatic circuit breaker C4A 1pole.max.250V	541500048	1 St.	+SA/87.6	SA
285	+SA-90F4	LS-automatic circuit breaker C10A 1pole.max.250V	541500050	1 St.	+SA/90.5	SA
286	+SA-90F4.1	LS-automatic circuit breaker C3A 1pole.max.250V	541500047	1 St.	+SA/90.5	SA
287	+SA-90F7	LS-automatic circuit breaker C3A 1pole.max.250V	541500047	1 St.	+SA/90.7	SA
288	+SA-90F8	LS-automatic circuit breaker C2A 1pole.max.250V	541500046	1 St.	+SA/90.8	SA
289	+SA-93C7	accu-modul 24V/20A/7Ah	544700018	1 St.	+SA/93.7	SA
290	+SA-93C7	fuse 20A/32V	541500230	1 St.	+SA/93.7	SA
291	+SA-93K2	DC - UPS - modul 15A	544700039	1 St.	+SA/93.2	SA
292	+SA-95K1	coupling contactor 24V DC 4NO	540600136	1 St.	+SA/95.1	SA
293	+SA-95P6	LED modul GN AC/DC 6-24V	521600242	1 St.	+SA/95.5	SA
294	+SA-95P6	light indicator GN	521600238	1 St.	+SA/95.5	SA
295	+SA-95P6	holder modul	521700367	1 St.	+SA/95.5	SA
296	+SA-95P6	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/95.5	SA
297	+SA-95P6	blank plate 27x27 mm	521700088	1 St.	+SA/95.5	SA
298	+SA-95R1	varistor for contactors 24V	541300060	1 St.	+SA/95.1	SA
299	+SA-95S1	2-positions selector switch WH	521700341	1 St.	+SA/95.1	SA
300	+SA-95S1	holder modul	521700367	1 St.	+SA/95.1	SA
301	+SA-95S1	contact module contact element 1NO	521700336	3 St.	+SA/95.1	SA
302	+SA-95S1	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/95.1	SA
303	+SA-95S1	blank plate 27x27 mm	521700088	1 St.	+SA/95.1	SA
304	+SA-101A1	LAN VPN-Router eWon cosy 131	544500051	1 St.	+SA/101.1	SA
305	+SA-102U3	Patch-Panel RJ45 / RJ45 1:1	520900630	1 St.	+SA/102.3	SA
306	+SA-102W2	0,5m patch cable grey	544300134	1 St.	+SA/102.2	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
307	+SA-102W3	0,5m patch cable grey	544300134	1 St.	+SA/102.3	SA
308	+SA-103K0	CPU-1513-1 PN	540400199	1 St.	+SA/103.0	SA
309	+SA-103K0	Micro memory card 24MB	520400113	1 St.	+SA/103.0	SA
310	+SA-103K1	S7-1500 digital input modul	540400260	1 St.	+SA/103.1	SA
311	+SA-103K1.1	S7-1500 Analog Input Modul	540400244	1 St.	+SA/103.1	SA
312	+SA-103K1.1	front connector 40 pole. S7-1500	520400085	1 St.	+SA/103.1	SA
313	+SA-103K2	S7-1500 digital output modul	540400259	1 St.	+SA/103.2	SA
314	+SA-103U0	0,330m PLC - bus bar for S7-1500	520400091	1 St.	+SA/103.0	SA
315	+SA-121K1	Eurotherm controller 32h8i	540200526	1 St.	+SA/121.1	SA
316	+SA-121K4	relay module 1NC/NO	540600119	1 St.	+SA/121.4	SA
317	+SA-125K6	relay module 1NC/NO	540600119	1 St.	+SA/125.6	SA
318	+SA-135K8	relay module 1NC/NO	540600124	1 St.	+SA/135.8	SA
319	+SA-135Q1	alternating current contactor 3RT2027	540500123	1 St.	+SA/135.1	SA
320	+SA-135Q3	alternating current contactor 3RT2027	540500123	1 St.	+SA/135.3	SA
321	+SA-135Q4	alternating current contactor 3RT2027	540500123	1 St.	+SA/135.4	SA
322	+SA-135R1	interference-suppression element for contactors 127-240V	541300061	1 St.	+SA/135.1	SA
323	+SA-135R3	interference-suppression element for contactors 127-240V	541300061	1 St.	+SA/135.3	SA
324	+SA-135R5	interference-suppression element for contactors 127-240V	541300061	1 St.	+SA/135.5	SA
325	+SA-180P6	steady light element BU 24V UDC	521600201	1 St.	+SA/180.6	SA
326	+SA-180P6.1	steady light element GN 24V UDC	521600199	1 St.	+SA/180.6	SA
327	+SA-180P7	steady light element YE 24V UDC	521600198	1 St.	+SA/180.7	SA
328	+SA-180P8	steady light element RD 24V UDC	521600197	1 St.	+SA/180.8	SA
329	+SA-180P8.1	acoustic element	521600250	1 St.	+SA/180.8	SA
330	+SA-180S0	momentary-contact pushbutton WH	521700338	1 St.	+SA/180.0	SA
331	+SA-180S0	holder modul	521700367	1 St.	+SA/180.0	SA
332	+SA-180S0	contact module contact element 1NO	521700336	1 St.	+SA/180.0	SA
333	+SA-180S0	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/180.0	SA
334	+SA-180S0	blank plate 27x27 mm	521700088	1 St.	+SA/180.0	SA
335	+SA-180X4	connection element with cover	521600194	1 St.	+SA/180.4	SA
336	+SA-250K3	Safety - switching device 24VDC	540700137	1 St.	+SA/250.3	SA
337	+SA-250P	LED modul RD AC/DC 6-24V	521600240	1 St.	+SA/250.8	SA
338	+SA-250P	light indicator RD	521600234	1 St.	+SA/250.8	SA
339	+SA-250P	holder modul	521700367	1 St.	+SA/250.8	SA
340	+SA-250P	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/250.8	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
341	+SA-250P	blank plate 27x27 mm	521700088	1 St.	+SA/250.8	SA
342	+SA-250S0	emergency stop mushroom push-button, 40mm	521700351	1 St.	+SA/250.0	SA
343	+SA-250S0	contact module contact element 1NC	521700344	2 St.	+SA/250.0	SA
344	+SA-250S0	yellow inscription plate emergency stop	521700384	1 St.	+SA/250.0	SA
345	+SA-250S0	holder modul	521700367	1 St.	+SA/250.0	SA
346	+SA-250S5	momentary-contact pushbutton WH	521700338	1 St.	+SA/250.5	SA
347	+SA-250S5	contact module contact element 1NO	521700336	1 St.	+SA/250.5	SA
348	+SA-250S5	inscription plate holder for inscription plate 27x27mm	521700339	1 St.	+SA/250.5	SA
349	+SA-250S5	blank plate 27x27 mm	521700088	1 St.	+SA/250.5	SA
350	+SA-250S5	holder modul	521700367	1 St.	+SA/250.5	SA
351	+SA-X0	end support for NS 35	520800454	2 St.	+SA/6.8	SA
352	+SA-X0	Terminal strip marker KLM3-L	520800350	1 St.	+SA/6.8	SA
353	+SA-X0	terminal block 50mm² GNYE	520800601	1 St.	+SA/6.1	SA
354	+SA-X3	end support	520800059	2 St.	+SA/6.8	SA
355	+SA-X3	Terminal strip marker KLM1	520800187	1 St.	+SA/6.8	SA
356	+SA-X3	end cover MPT 2,5	520800540	1 St.	+SA/6.8	SA
357	+SA-X3	mini - Feed-through terminal block	520800538	6 St.	+SA/6.2	SA
358	+SA-X6	end support for NS 35	520800454	2 St.	+SA/180.2	SA
359	+SA-X6	Terminal strip marker KLM 3	520800652	1 St.	+SA/180.2	SA
360	+SA-X6	end cover for D-ST 2,5-QUATTRO GY	520800535	1 St.	+SA/180.2	SA
361	+SA-X6	Feed-through terminal block	520800532	5 St.	+SA/180.0;+SA/180.3;+SA/180.4;+SA/180.6	SA
362	+SP01-5W1	metal hose NW 1.1/2"	523600070	3 m	+DOKU/5.1	SA
363	+SP01-5W1	ISO-lock nut M50x1,5	523600329	2 St.	+DOKU/5.1	SA
364	+SP01-5W1	ISO Swivel screw joint screwed joint 1.1/2"	523600459	1 St.	+DOKU/5.1	SA
365	+SP01-5W1	Compact screwed joint 1.1/2"	523600335	1 St.	+DOKU/5.1	SA
366	+SP01-5W1	grounding strap 6,3mm M50	523600342	1 St.	+DOKU/5.1	SA
367	+SP02-5W3	metal hose NW 1.1/4"	523600069	3 m	+DOKU/5.3	SA
368	+SP02-5W3	ISO - lock nut M40x1,5	523600328	2 St.	+DOKU/5.3	SA
369	+SP02-5W3	ISO Swivel screw joint screwed joint screwed joint 1.1/4"	523600396	1 St.	+DOKU/5.3	SA
370	+SP02-5W3	Compact screwed joint 1.1/4"	523600334	1 St.	+DOKU/5.3	SA
371	+SP02-5W3	grounding strap 6,3mm M40	523600341	1 St.	+DOKU/5.3	SA
372	+SP03-5W6	metal hose NW 3/4"	523600067	5 m	+DOKU/5.6	SA
373	+SP03-5W6	ISO-lock nut M25x1,5	523600326	2 St.	+DOKU/5.6	SA
374	+SP03-5W6	ISO Rotatable screwed joint 3/4"	523600394	1 St.	+DOKU/5.6	SA

list of parts

position	Device tag	Designation	Nabertherm part number	rate	Placement	location
375	+SP03-5W6	Compact screwed joint 3/4"	523600332	1 St.	+DOKU/5.6	SA
376	+SP03-5W6	grounding strap 6,3mm M25	523600339	1 St.	+DOKU/5.6	SA

Regler Typ/controller type 32h8i**540200526****Ausführung/execution 2**

Arbeitsanweisung zur Konfiguration der 32er Controllerserie

1.	Clonefile „32H8i_Ausf. 2“ mittels iTools Software auf den Controller aufspielen
2.	Alle Variablen Parameter müssen noch von Hand nach diesem Parameterblatt angepasst werden. Alle Parameter die nicht verändert werden müssen sind grau hinterlegt.

Hardware: **32h8i/AL/VH/RXXX/R/XXL/S/GER/GER/XXXXX/XXXXX /Tmax+30**Einsatz/application: Temperaturwählbegrenzer/Over-temperature limit controller with manual resetEingang/input: Thermoelement/thermocouple

Input		OP1		AA		LA		LB		ALARM		RECIP		CAL		ACCES	
INTyP	*TC	1ID	rELY	4 TYPE	rELy	L.TYPE	L.IP	L.TYPE	L.IP	A1.TYP	Hi	RECNO	nonE	PHASE	nonE	GOTO	CONF
UNITS	°C	1FUN C	d.out	4 Func	d.out	L.DIN	nonE	L.DIN	nonE	A1.Hi	Tmax+30	STORE	nonE			LEV.2P	2
DECP	nnnnn	1SRC A	1.Hi	4SRCA	1.Hi	L.Sens	nor	L.Sens	nor	A1.STS	off					LEV.3P	3
RNGHI	Tmax+30 oder/or 1820°C	1SRC. B	Sbr	4SRC.B	Sbr					A1.HYS	1					CONF.P	**
RNGLO	0	1SRC. C	nonE	4SRC.C	nonE					A1.LAT	mAn					ID	0
PVOFF	0.0	1SRC. D	nonE	4SRC.D	nonE					A1.BLK	no					HOME	ALm
FILTT	1.6	1SEN S	Inv	4SENS	Inv					A1.DLY	0:00					COLOR	rEd
FILTD	Off									A1.OFS	0					K.LOCK	nonE
CJTYP	AUTO									P1.OFF S	0					Cold	No
SBTYP	On									A2 -A4 .TYP	nonE					PASS.C	5679
SBDIR	UP															MESG	OFF

* Thermoelementtyp siehe Schaltplan, thermocouple type see circuit diagram

** Nabertherm Standard / Nabertherm standard

Wichtig/important:

In LEVEL 1 sind noch folgende Einstellungen vorzunehmen/ LEVEL 1 still the following are to be decided:

1. A1Hi auf/on Tmax+30, bei/at Tmax=1800°C auf/on 1820°C

Regler Typ/controller type 32h8i 540200526

Ausführung/execution 2

Promote Parameters			
Parameter	Beschreibung	Ebene	Zugriff
ALARM1.Threshold	Grenzwert	Ebenen 1 + 2	Lesen / Schreiben