



Cover page

Order Number : sample
Product name : AAF-0073B04-200AE54

Operation voltage : 380V-480V / 3~, 50/60Hz
Control voltage : 200-240V AC
Signal voltage : ./.
Filter current : 200A
max. short-circuit current ICC : 50KA
max. ambient temperature : 40°C
protection class : IP 54
weight : 244Kg

Changes		Date	Name	Designation	page
Date	Name	signed	03.03.2025	AAF-0073B04-200AE54	1
		tested	03.03.2025		
				Drawing No:	from
		Standard		136c0176	20

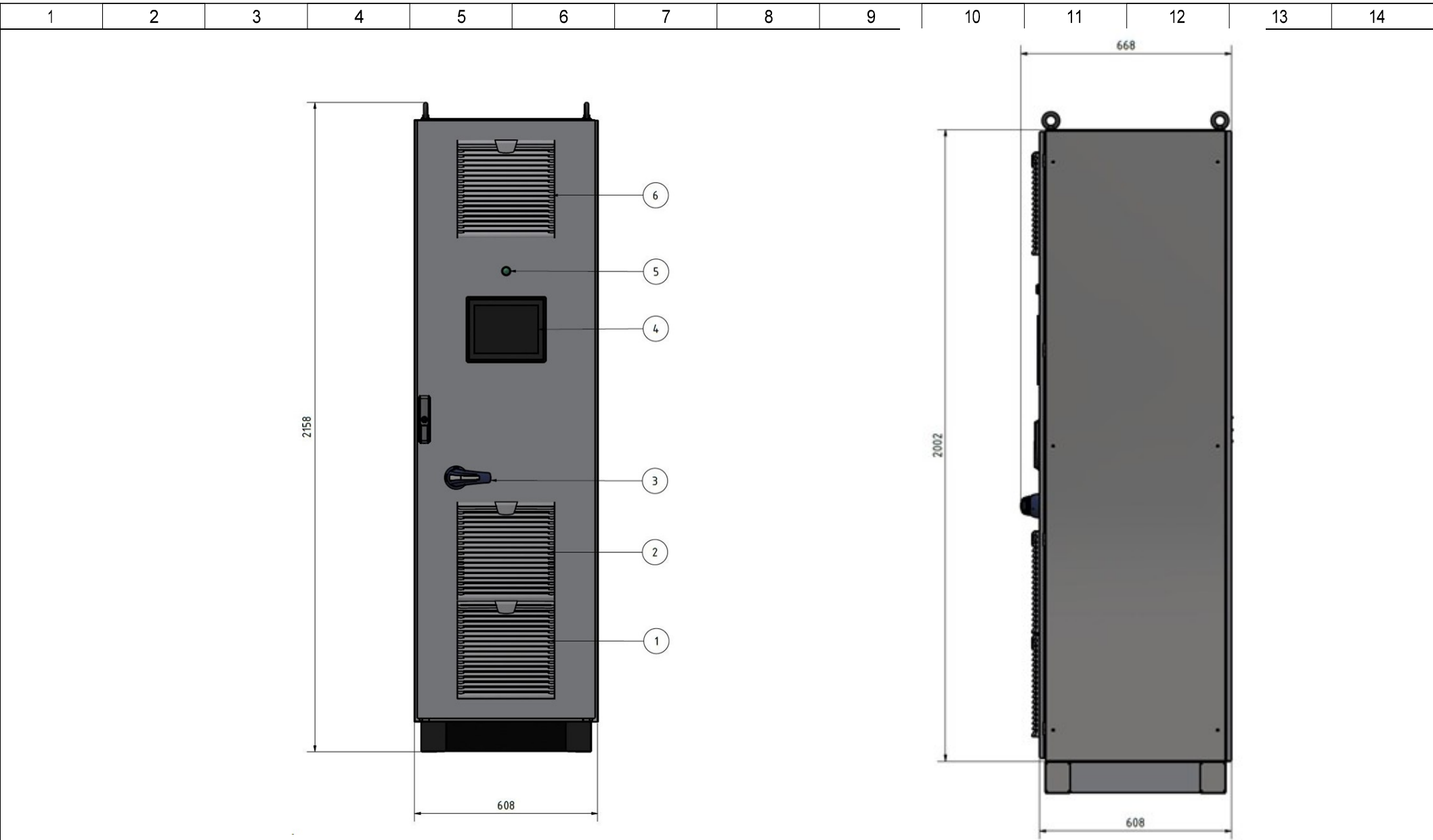


Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

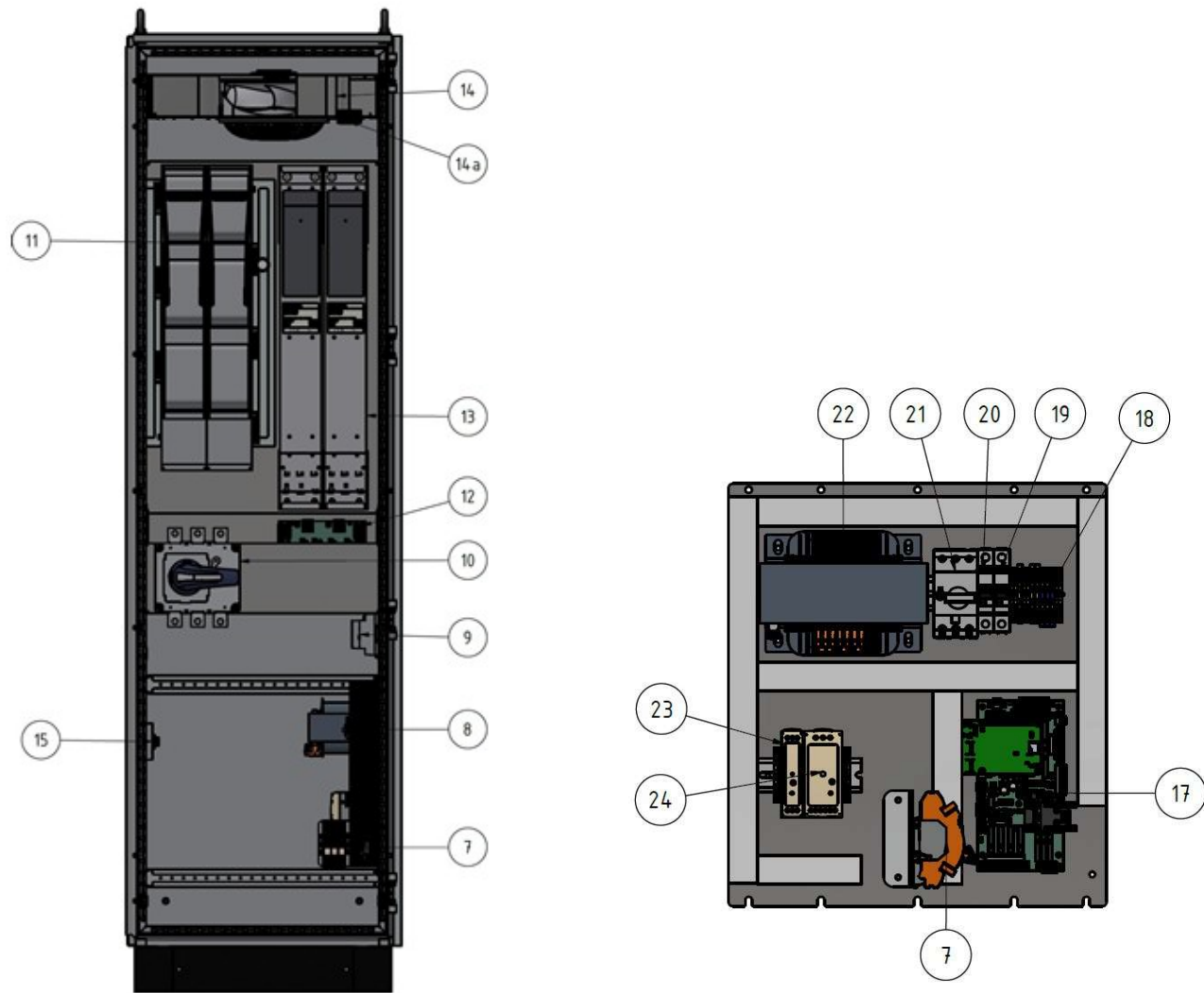
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System	Location	Page	Page naming						Additional page field		Date	Editor	
		1	Cover page							03.03.2025	M. Damasch		
		2	Warning							03.03.2025	M. Damasch		
		3	table of contents							03.03.2025	M. Damasch		
		4	drawing cabinet outside							03.03.2025	M. Damasch		
		5	drawing cabinet inside							03.03.2025	M. Damasch		
		6	Cabinet legend outside							03.03.2025	M. Damasch		
		7	Cabinet legend inside							03.03.2025	M. Damasch		
		8	schematic diagram open loop							03.03.2025	M. Damasch		
		9	schematic diagram closed loop							03.03.2025	M. Damasch		
		10	power supply circuit diagram							03.03.2025	M. Damasch		
		11	main circuit filter connection U1-U2							03.03.2025	M. Damasch		
		12	auxiliary voltage circuit 230V							03.03.2025	M. Damasch		
		13	Control patch board A13							03.03.2025	M. Damasch		
		14	Control board A14 / costumer terminals							03.03.2025	M. Damasch		
		15	Bill of materials 1							03.03.2025	M. Damasch		
		16	Bill of materials 2							03.03.2025	M. Damasch		
		17	Bill of materials 3							03.03.2025	M. Damasch		
		18	cable overview 1							03.03.2025	M. Damasch		
		19	cable overview 2 reserve							03.03.2025	M. Damasch		
		20	terminal overview							03.03.2025	M. Damasch		

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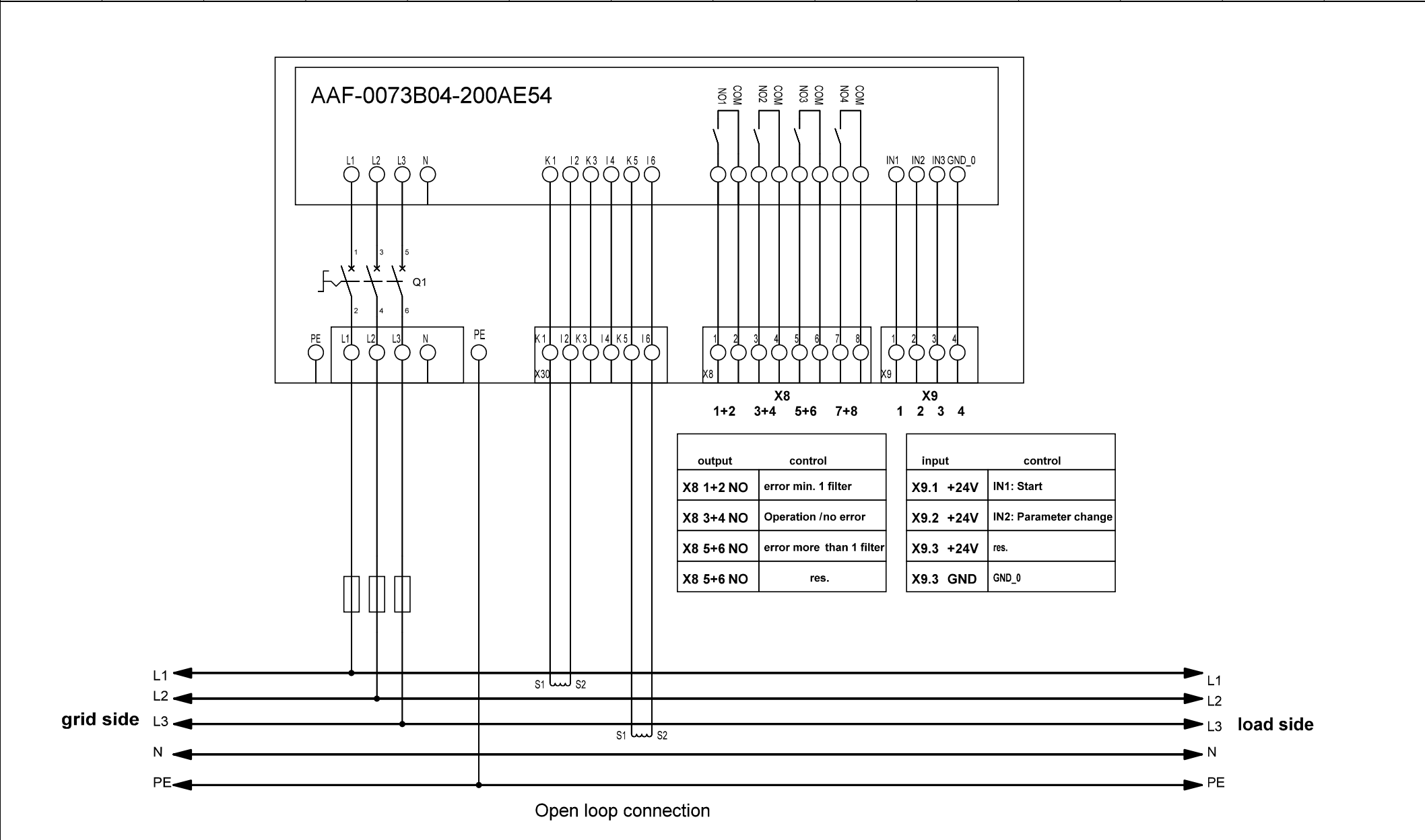


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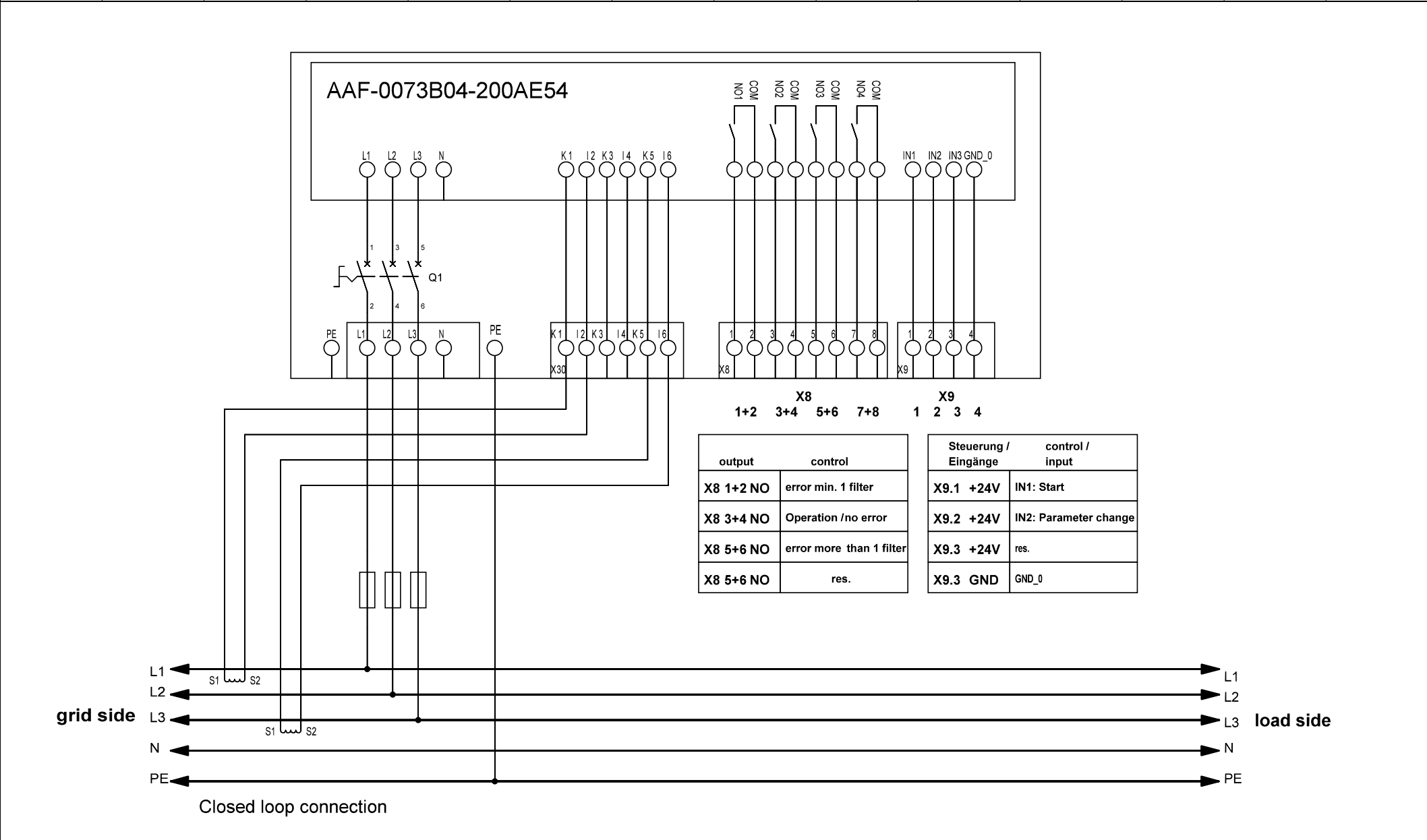
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<table><tr><td>Position number</td><td>Component name</td><td>Type designation</td><td>comment</td></tr><tr><td>1</td><td>M1</td><td>SK intake EC fan EC 890 m³/h</td><td>U=100-250V/AC</td></tr><tr><td>2</td><td>M2</td><td>SK intake EC fan EC 890 m³/h</td><td>U=100-250V/AC</td></tr><tr><td>3</td><td>Q1</td><td>Switch disconnecter switch toggle</td><td>I=400A</td></tr><tr><td>4</td><td>A20</td><td>HMI</td><td>10.1 inch capacitive touch</td></tr><tr><td>5</td><td>H1</td><td>signal light</td><td>red / green</td></tr><tr><td>6</td><td>M3</td><td>outlet filter</td><td>pleated filter</td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>														Position number	Component name	Type designation	comment	1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC	2	M2	SK intake EC fan EC 890 m³/h	U=100-250V/AC	3	Q1	Switch disconnecter switch toggle	I=400A	4	A20	HMI	10.1 inch capacitive touch	5	H1	signal light	red / green	6	M3	outlet filter	pleated filter																																				
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Position number	Component name	Type designation	comment
7	X30	STME 5-CT terminals	Single-wire conductor: 0,5 ... 10 mm² / 20 ... 8 AWG Fine-wire conductor with wire-end-sleeve 2,5* ... 6 mm² / 14 ... 10 AWG
8	A30	control voltage supply board	
9	B1	temperature controler for EC fans	U=100-250V/AC
10	Q1	load break swit	I=400A
11	F1-F2	busbar system with fuses 160A	NH Gr1 160A/500V
12	A13	patch board for 2pcs. AAF007	board for the distribution of control signals and current measurement
13	U1-U2	2 pcs. AAF007-0073B04-100AE20	AHF 007 100A modul
14	M3	output fan	U=200-240V/AC
14 a	X5	output fan terminals	
15	PE	grounding bar	
16	reserve	reserve	
17	A14	control board	board for the evaluation of the control signals for the customer connection for input and output signals
18	X1-X2	230V terminals X1-X2	
19	F10	circuit breaker for Powersupply	circuit breaker C 2A
20	F9	circuit breaker for fan system	circuit breaker B 6A
21	Q2	circuit breaker transformer	PKZM0-4-T 2,5-4A
22	T1	autotransformer	U in=460V/AC/U out=230V/AC
23	T2	powersupply 24V for control supply	U in=85-264V/AC/ U out=24V/DC
24	T3	powersupply 12V for HMI supply	U in=85-264V/AC/ U out=12V/DC

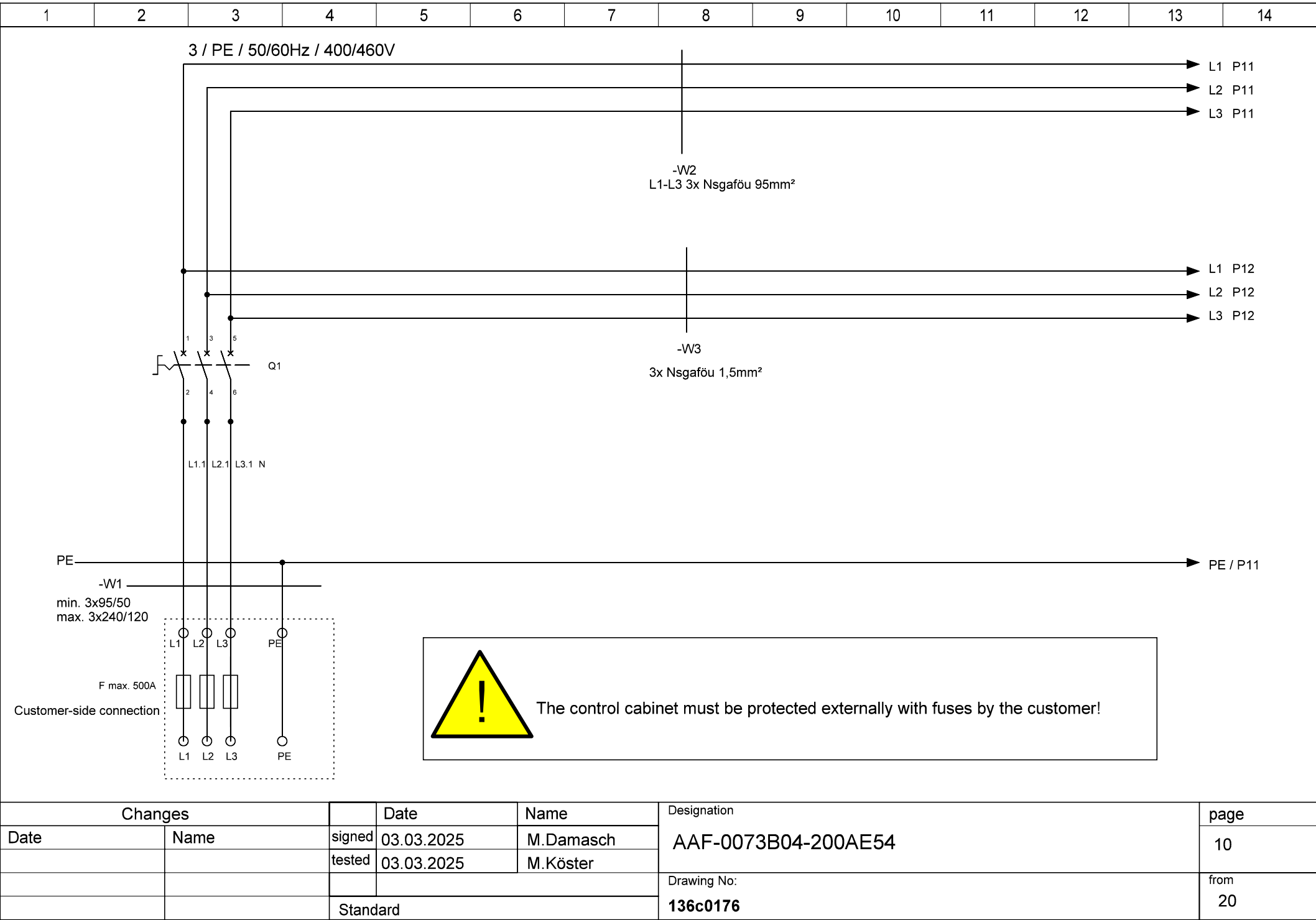
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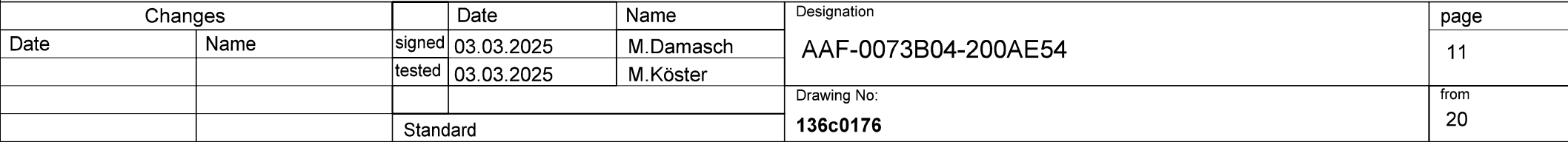


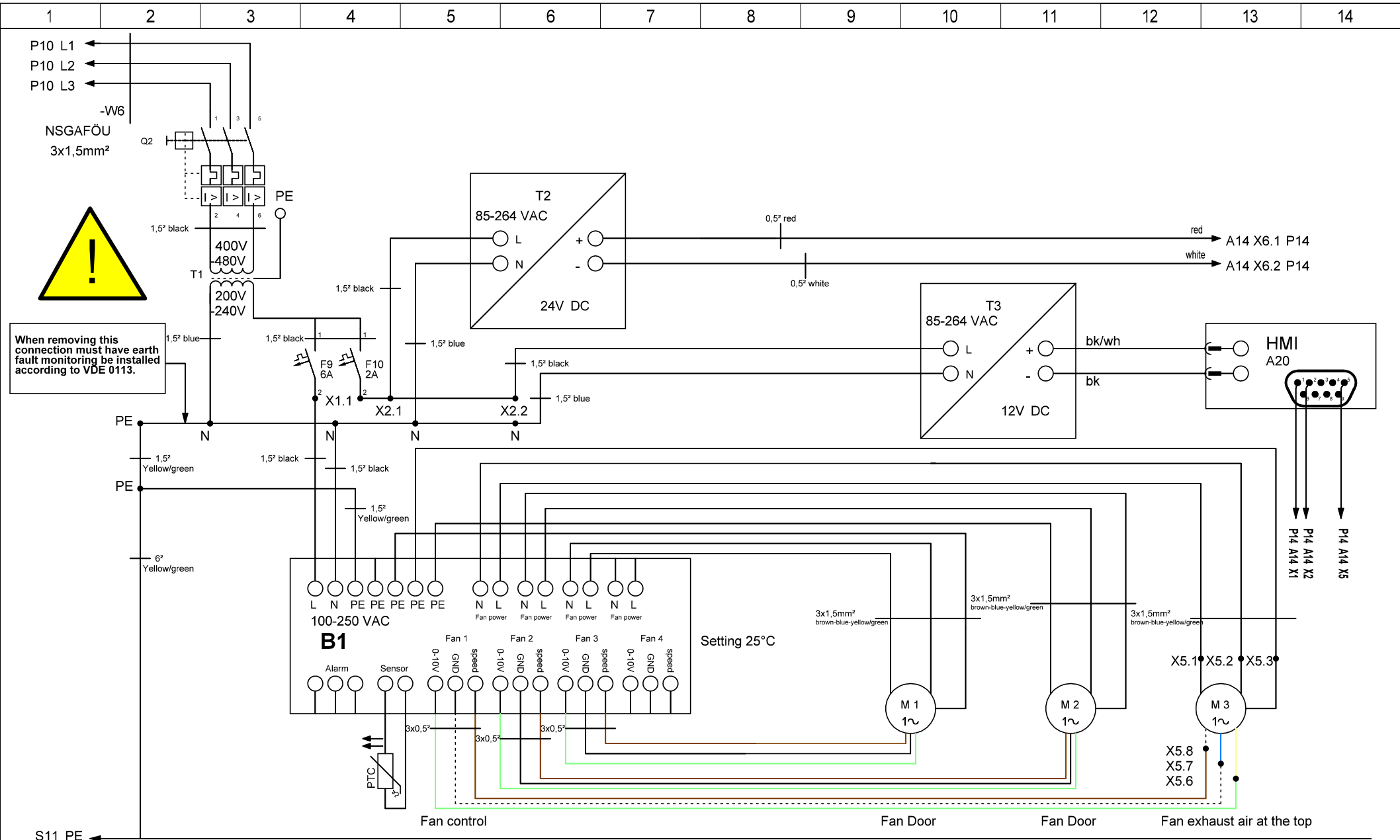
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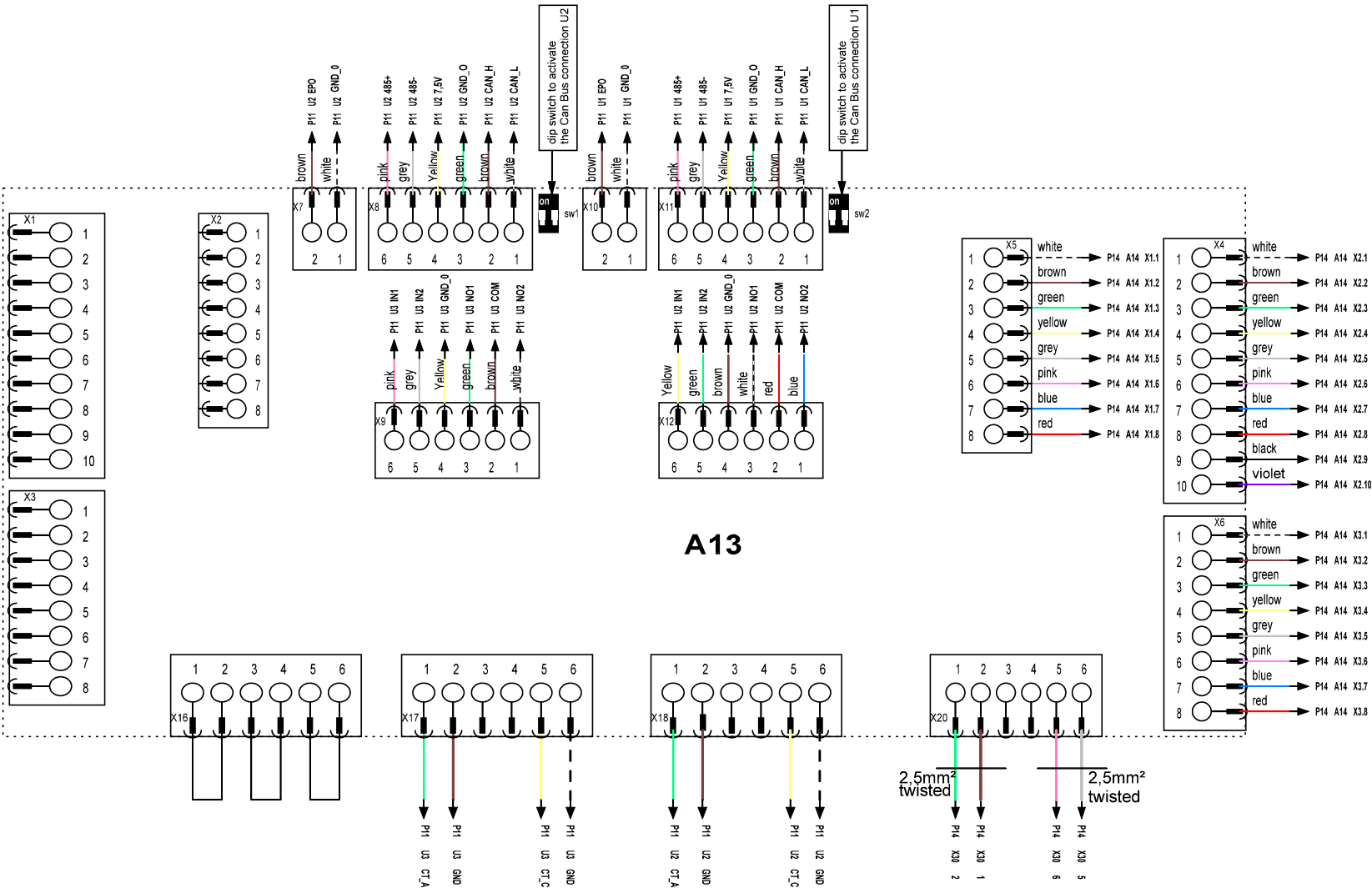
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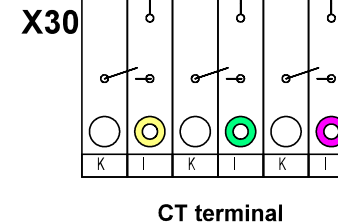




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output	control
X8 1+2 NO	error min. 1 filter
X8 3+4 NO	Operation /no error
X8 5+6 NO	error more than 1 filter
X8 5+6 NO	res.

input	control
X9.1 +24V	IN1: Start
X9.2 +24V	IN2: Parameter change
X9.3 +24V	res.
X9.3 GND	GND_0

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Name (BMK)		Quantity	Designation					Type number		Manufacturer	Order number		
=AAF 007-VX		1	VX25 modular cabinet system basic cabinet					VX 8606.00 HxWxD 2000x600x600		Rittal	VX 8606.000		
=AAF 007-VX		2	Side panel, screwable, sheet steel for VX					Rit.VX 8106.245 für HW 2000x600mmr		Rittal	VX 8106.245		
=AAF 007-VX		1	Base corner piece with base panel, front and rear for base system VX, sheet steel					Rit. VX 8660.002 H:100mm for W: 600mm		Rittal	VX 8660.002		
=AAF 007-VX		1	Base panels, side for base system VX, sheet steel					Rit. VX 8660.033 H: 100mm D=600mm		Rittal	VX 8660.033		
=AAF 007-VX		4	transport eyes for VX					Rit.SZ 4568.000		Rittal	SZ 4568.000		
=AAF 007-VX		2	Blue e+ filter fan with EC technology 867 m³/h 100-230V, 50/60Hz					Rit. 3245500 HxWxD 323x323x130		Rittal	SK 3244.900		
=AAF 007-VX		1	Blue e+ outlet filter					Rit. 3243200 BxHxT 323x323x25mm		Rittal	SK 3243.300		
=AAF 007-VX		1	output fan					EBM 8300101192		EBM Papst	8300101192		
=AAF 007-VX		1	Speed controller EC control unit for EC fans					Rit. 3235440		Rittal	SK 3235.440		
=AAF 007-VX		1	MOE LED-Element red M22-LED 24V-R/G					M22-LED-R		Eaton	216558		
=AAF 007-VX		1	indicator light RMQ titanium white flat					M22-L-W		Eaton	216771		
=AAF 007-VX		1	AAF 007- HMI module 10.1					10.1 inch capacitive touch		Revcon	35000988		
=AAF 007-VX		2	C-profile cable clamp rail for VX600					CM 5001.080		Rittal	CM 5001.080		
=AAF 007-VX		1	Cable entry profile, rear					VX 8618.810		Rittal	VX 8618.810		

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Terminal block	Terminal conductor definition text	Terminals											
		first	last	Total PE	Total N	Total count							
-X1	fan supply 230V controler	1	3	1	1	3							
-X5	fan supply 230V output fan	1	6	1	1	6							
-X30	CT terminal	1	4	0	0	4							