



Cover page

Product name : AAF-0073B04-600AE54

Operation voltage : 380V-480V / 3~, 50/60Hz
Control voltage : 200-240V AC
Signal voltage : ./.
Filter current : 600A
max. short-circuit current ICC : 50KA
max. ambient temperature : 40°C
protection class : IP 54
weight : 394Kg

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Date	Name	signed	06.06.2025		AAF-0073B04-600AE54	1
		tested	06.06.2025			
					Drawing No:	from
		Standard			136c0184	21

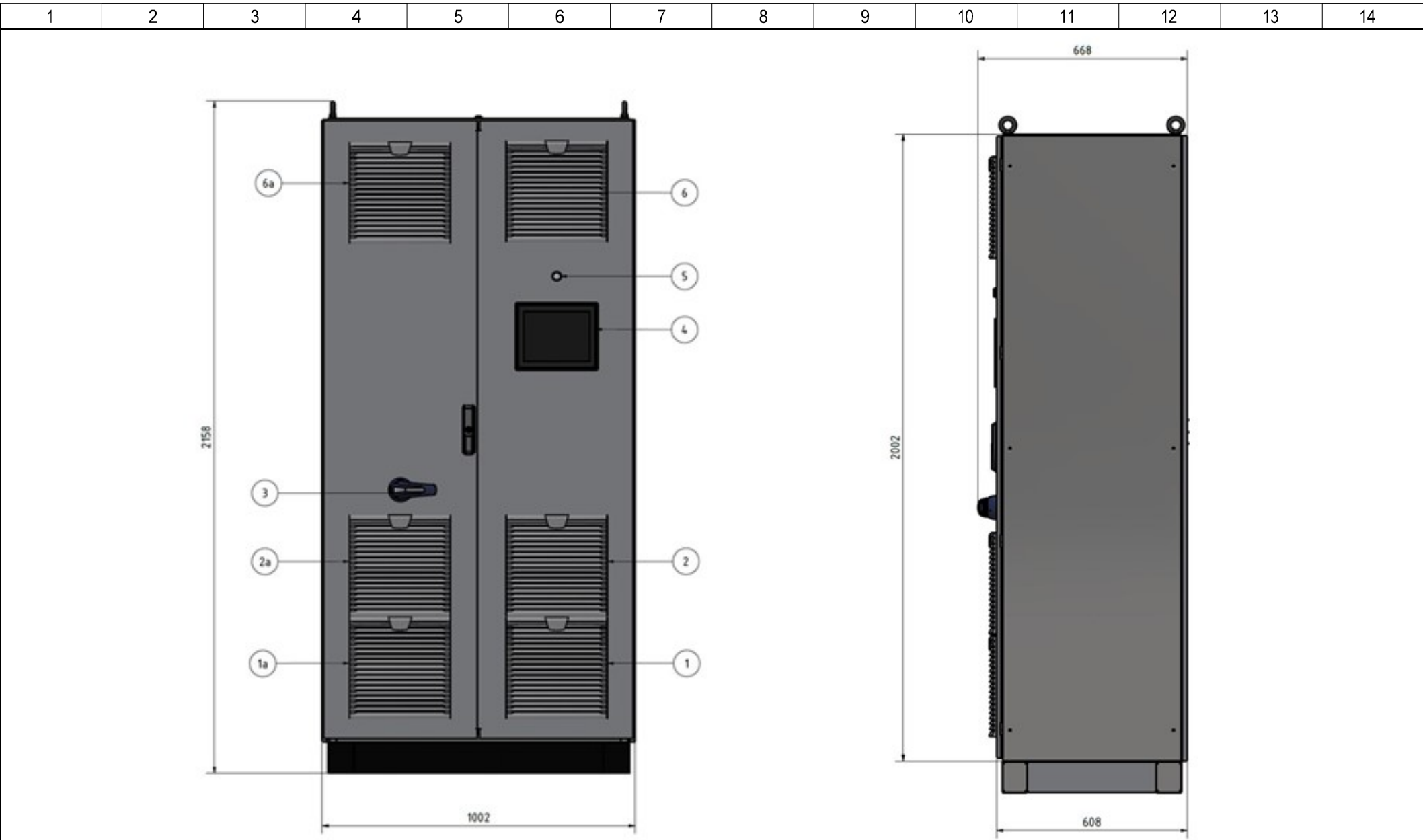


Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

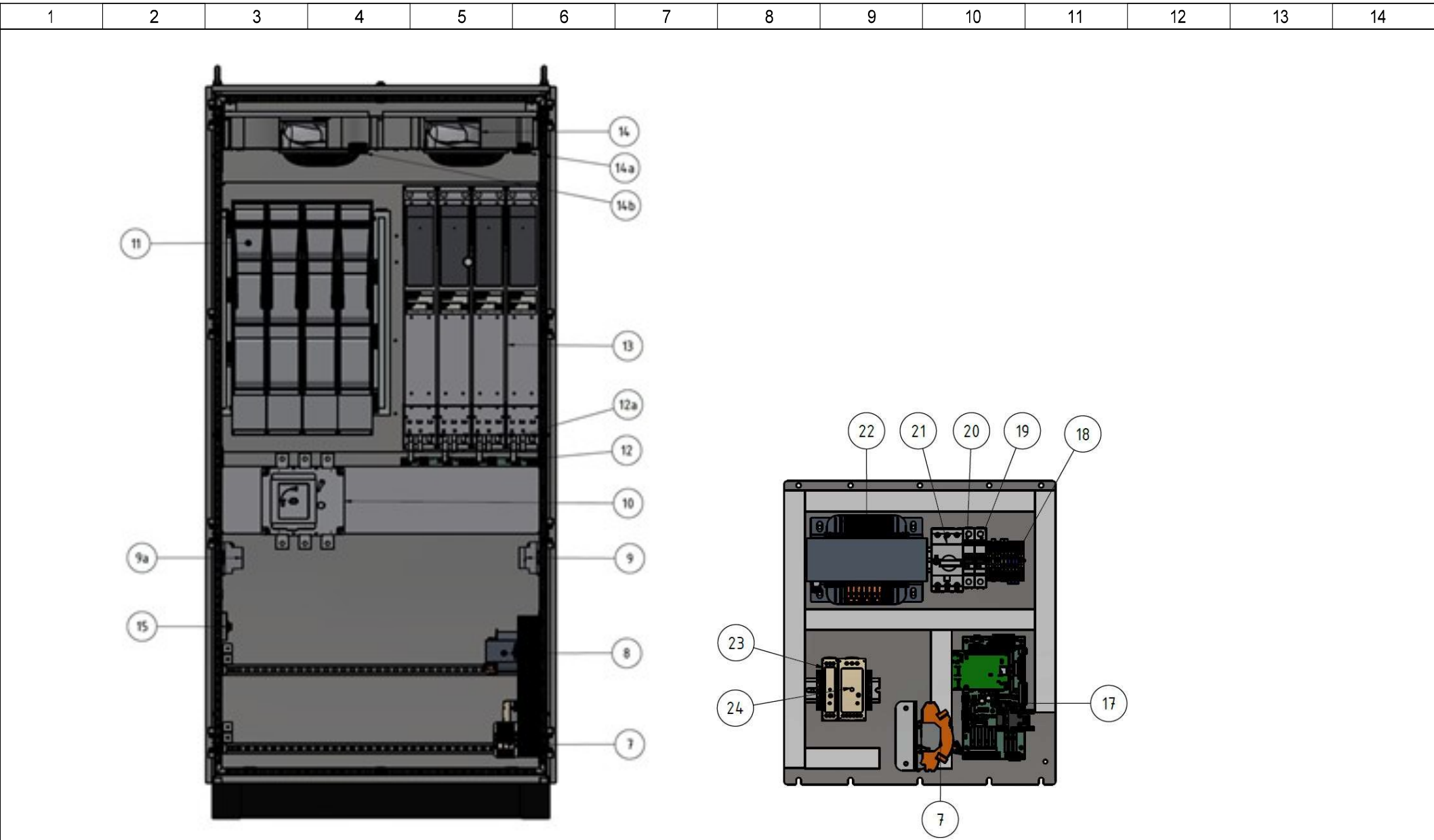
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System	Location	Page	Page naming						Additional page field		Date	Editor	
		1	Cover page								06.06.2025		
		2	Warning								06.06.2025		
		3	table of contents								06.06.2025		
		4	drawing cabinet outside								06.06.2025		
		5	drawing cabinet inside								06.06.2025		
		6	Cabinet legend outside								06.06.2025		
		7	Cabinet legend inside								06.06.2025		
		8	schematic diagram open loop								06.06.2025		
		9	schematic diagram closed loop								06.06.2025		
		10	power supply circuit diagram								06.06.2025		
		11	main circuit filter connection U3-U4								06.06.2025		
		12	main circuit filter connection U1-U2								06.06.2025		
		13	auxiliary voltage circuit 230V								06.06.2025		
		14	auxiliary voltage circuit 230V-fan supply M4-M6								06.06.2025		
		15	Control shunting board A12								06.06.2025		
		16	Control shunting board A13								06.06.2025		
		17	Control board A14 / costumer terminals								06.06.2025		
		18	Related spareparts and accessories								06.06.2025		
		19	cable overview 1								06.06.2025		
		20	cable overview 2								06.06.2025		
		21	terminal overview								06.06.2025		

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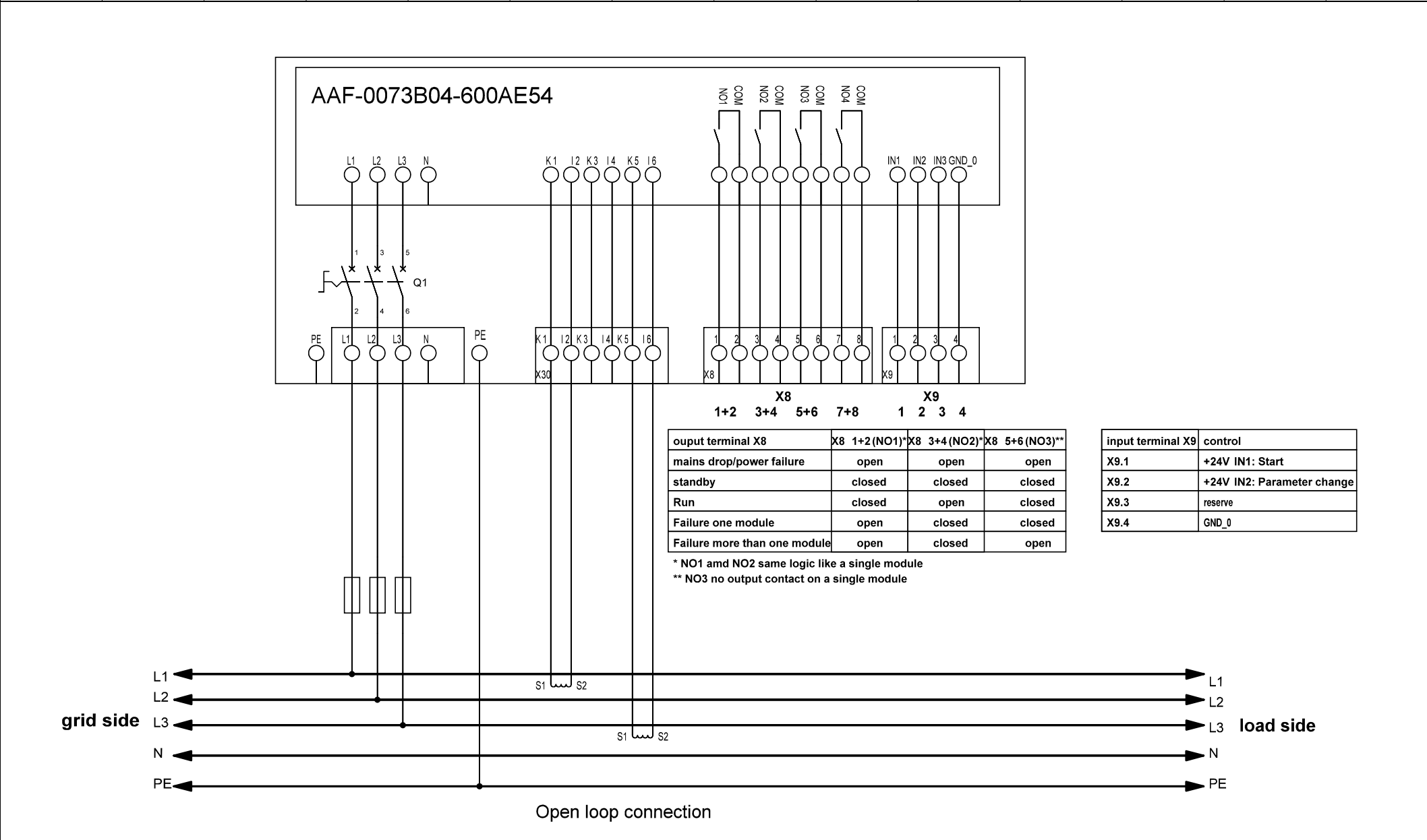
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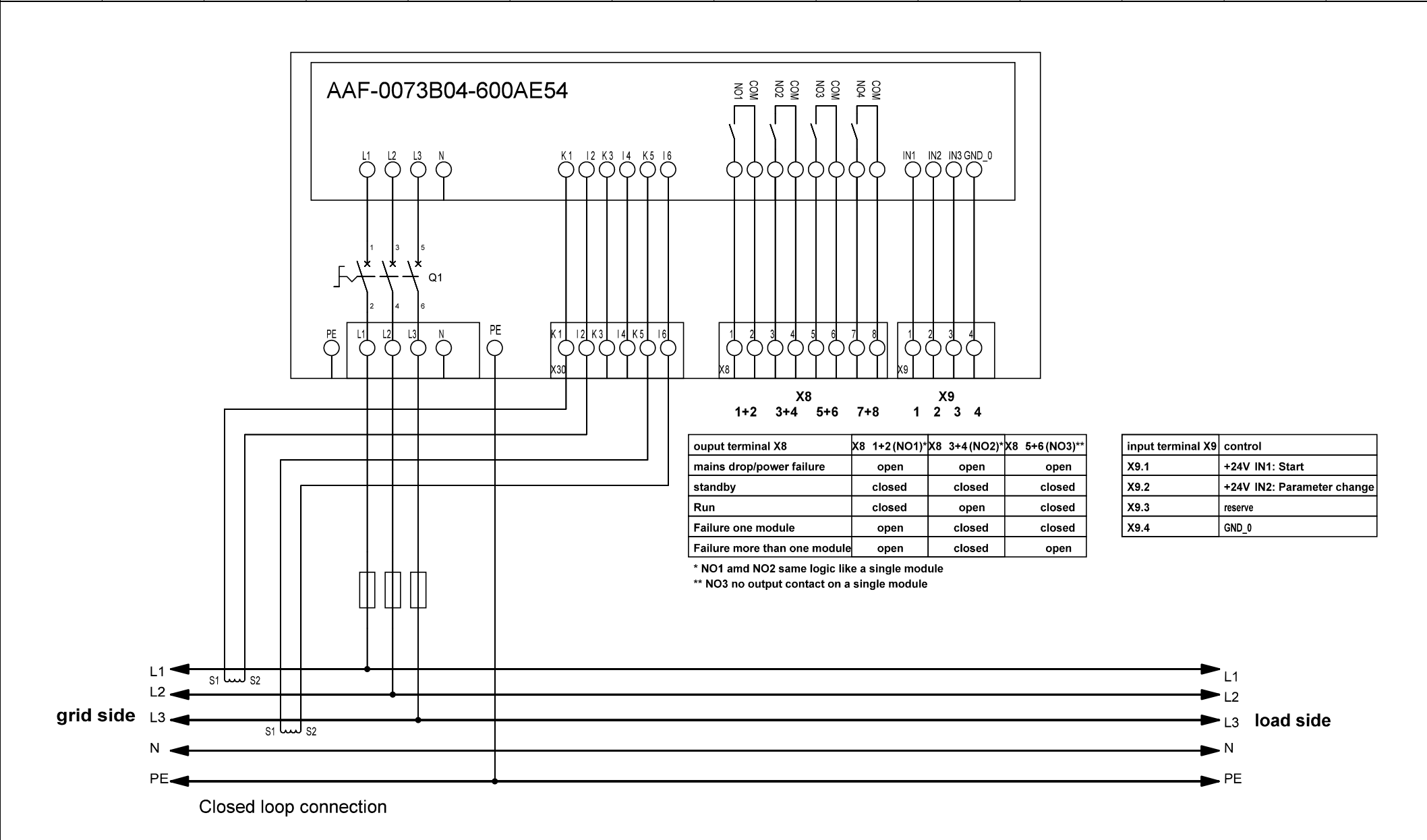
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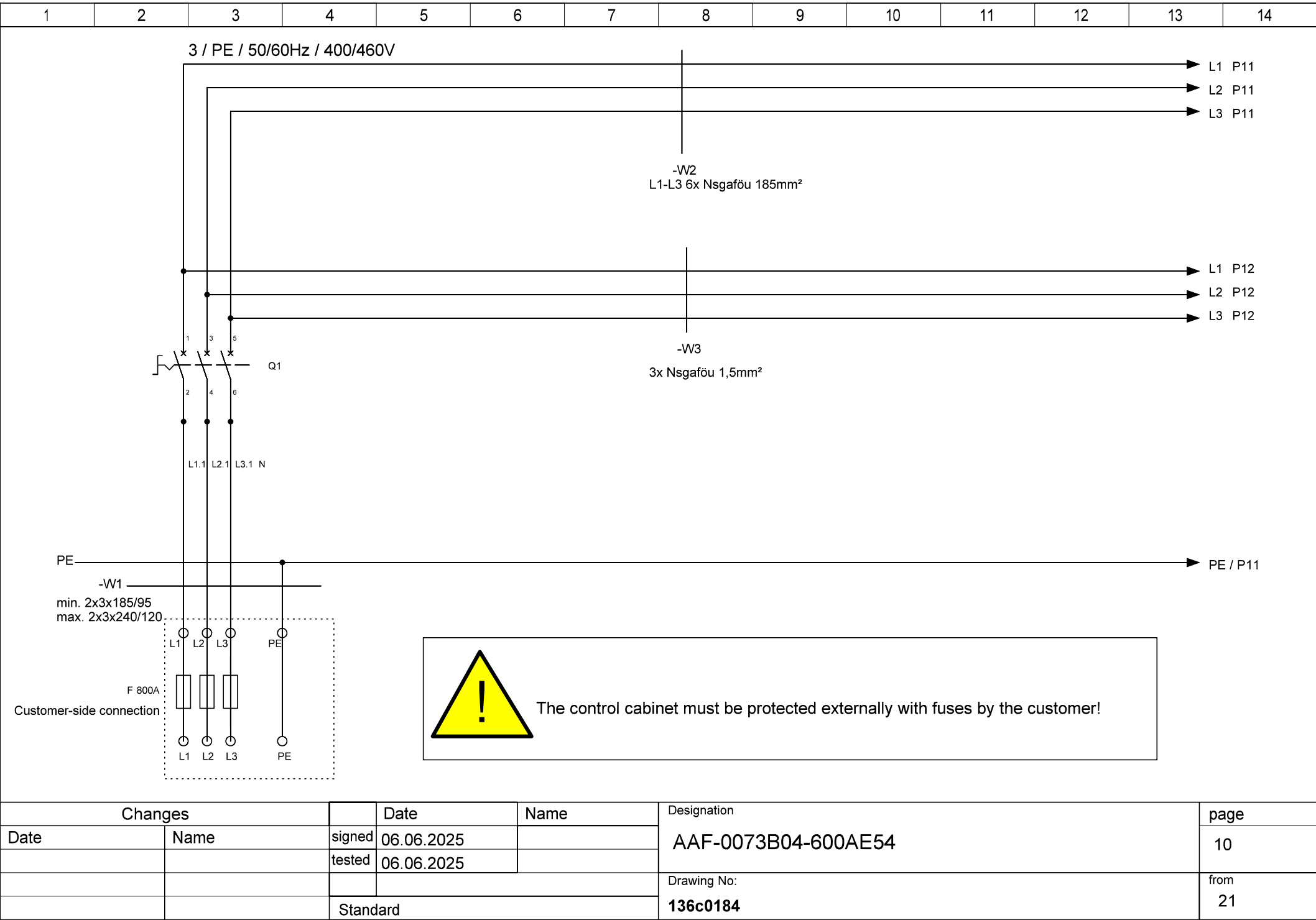
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<table><tr><td>Position number</td><td>Component name</td><td>Type designation</td><td>comment</td></tr><tr><td>1</td><td>M1</td><td>SK intake EC fan EC 890 m³/h</td><td>U=100-250V/AC</td></tr><tr><td>1a</td><td>M4</td><td>SK intake EC fan EC 890 m³/h</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>2a</td><td>M5</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=800A</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>6a</td><td>M6</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></table>														Position number	Component name	Type designation	comment	1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC	1a	M4	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	2a	M5	SK intake EC fan EC 890 m³/h	U=100-250V/AC	3	Q1	Switch disconnecter switch toggle	I=800A	4	A20	HMI	10.1 inch capacitive touch	5	H1	signal light	red / green	6	M3	outlet filter	pleated filter	6a	M6	outlet filter	pleated filter																				
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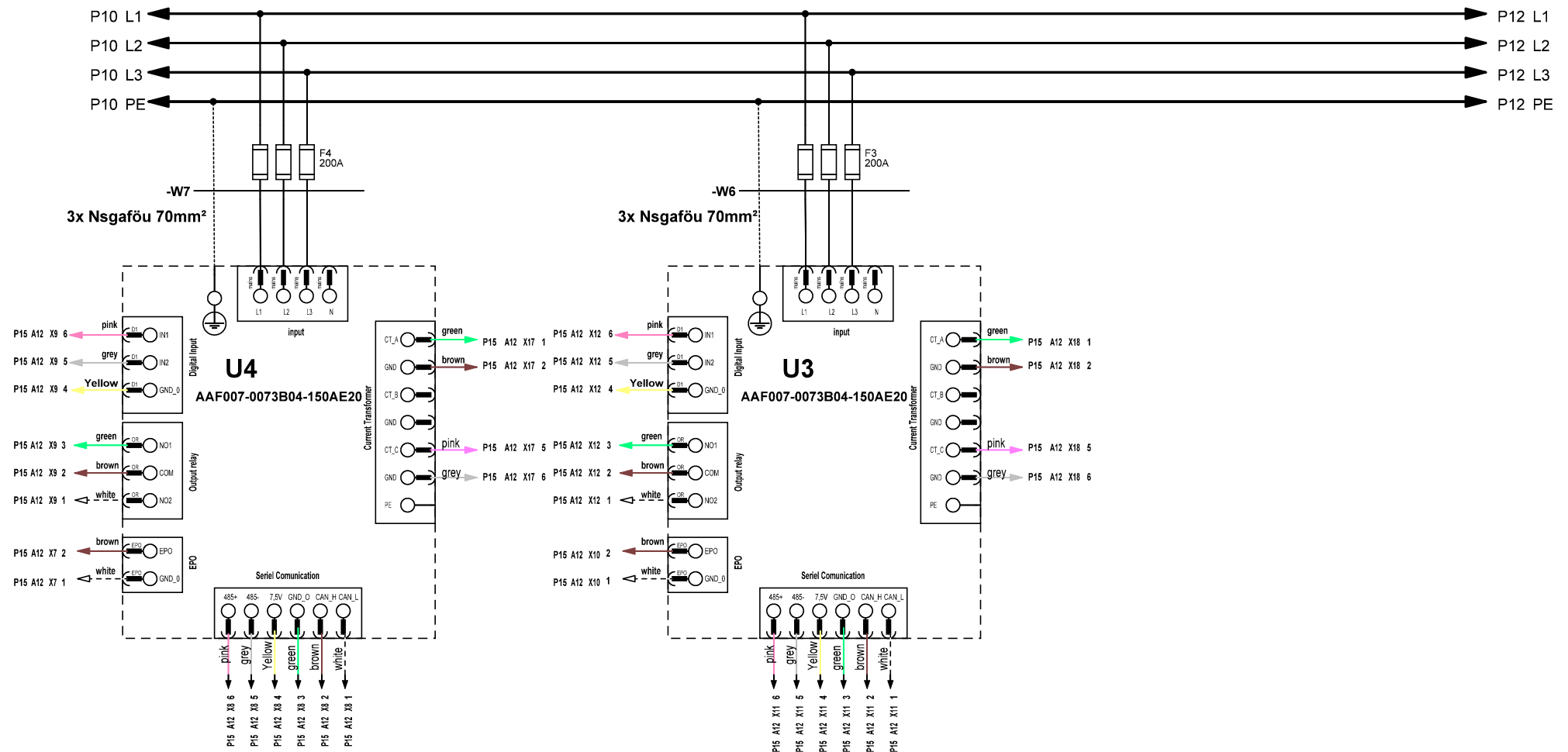
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	Position number		Component name		Type designation				comment					
	7		X30		STME 5-CT terminals				Single-wire conductor: 0,5 ... 10 mm² / 20 ... 8 AWG Fine-wire conductor with wire-end-sleeve 2,5* ... 6 mm² / 14 ... 10 AWG					
	8		A30		control voltage supply board									
	9		B1		temperature controler for EC fans				speed controller fans M1-M3					
	9 a		B2		temperature controler for EC fans				speed controller fans M4-M6					
	10		Q1		load break swit				I=800A					
	11		F1-F4		busbar system with fuses				F1-F4: NH Gr1 200A/500V					
	12		A12		patch board for 2pcs. RHF-Active				board for the distribution of control signals and current measurement					
	12a		A13		patch board for 2pcs. RHF-Active				board for the distribution of control signals and current measurement					
	13		U1-U4		4 pcs. AAF007-0073B04-150AE20				4 pcs. AHF 007 150A modul					
	14		M3+M6		output fans				U=200-240V/AC					
	14 a		X5		output fan terminals M3									
	14 b		X6		output fan terminals M6									
	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		fuse for Powersupply				circuit breaker C 2A					
	20		F9		fuse for fan system				circuit breaker B 10A					
	21		Q2		circuit breaker				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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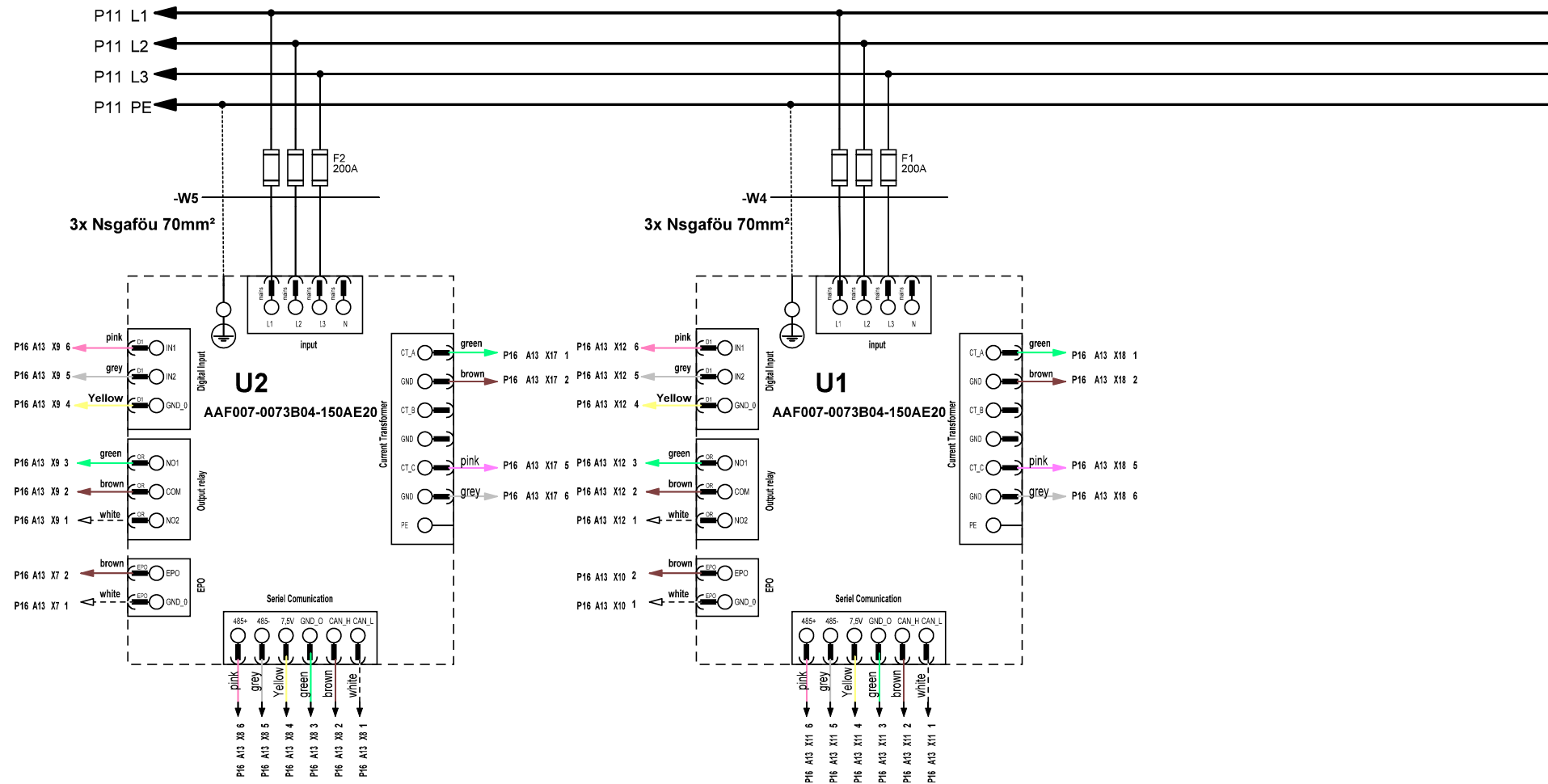
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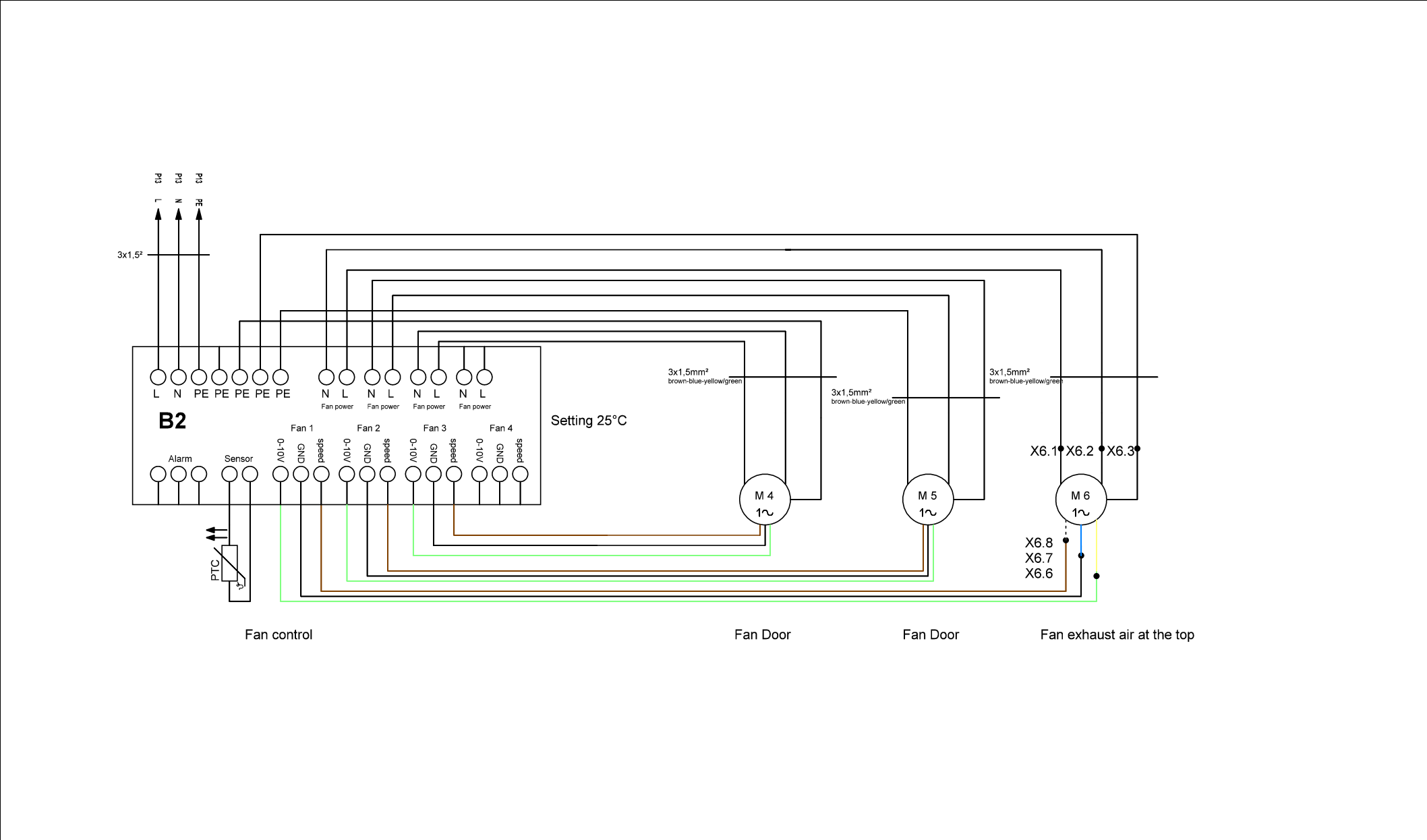




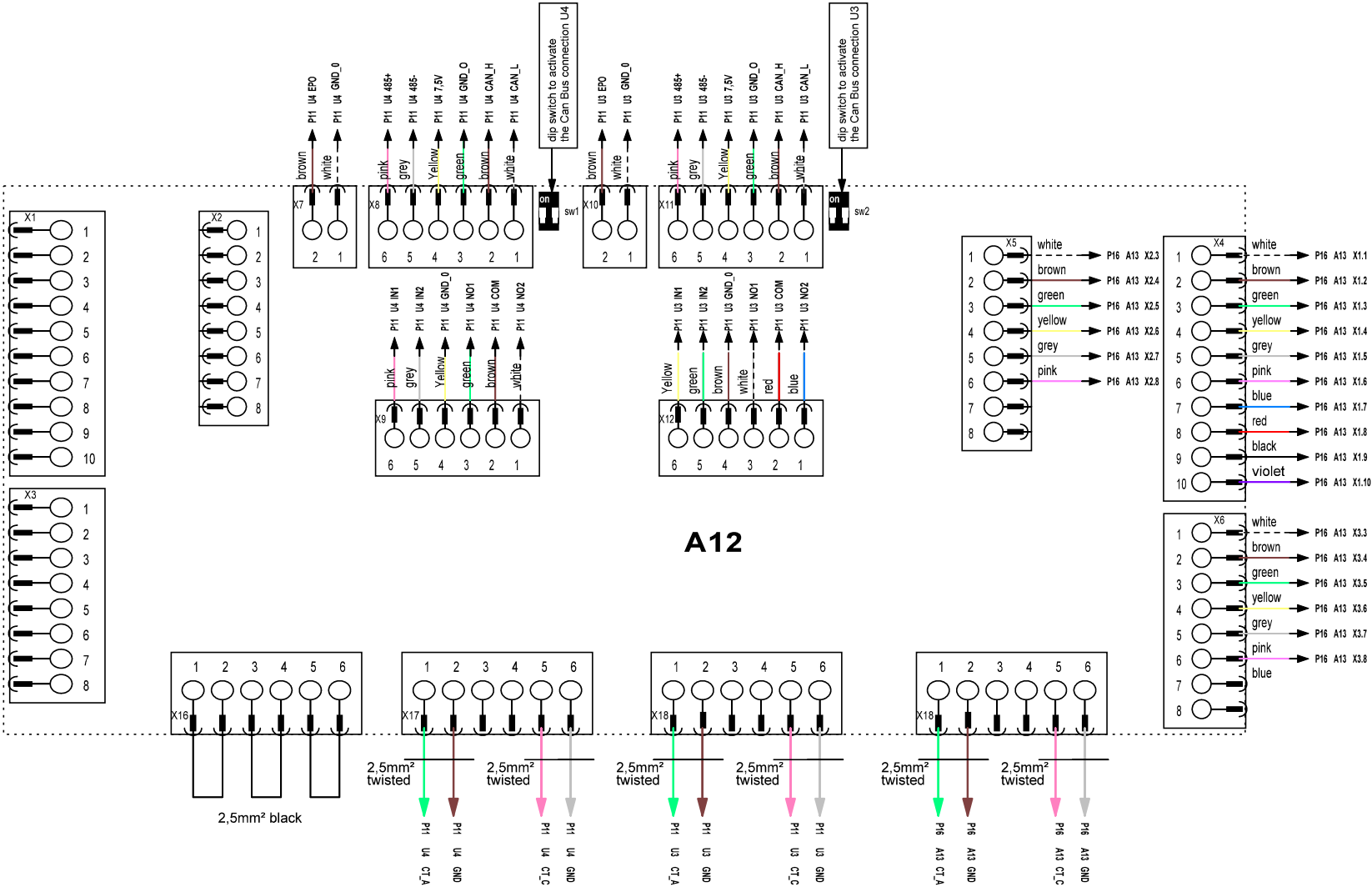
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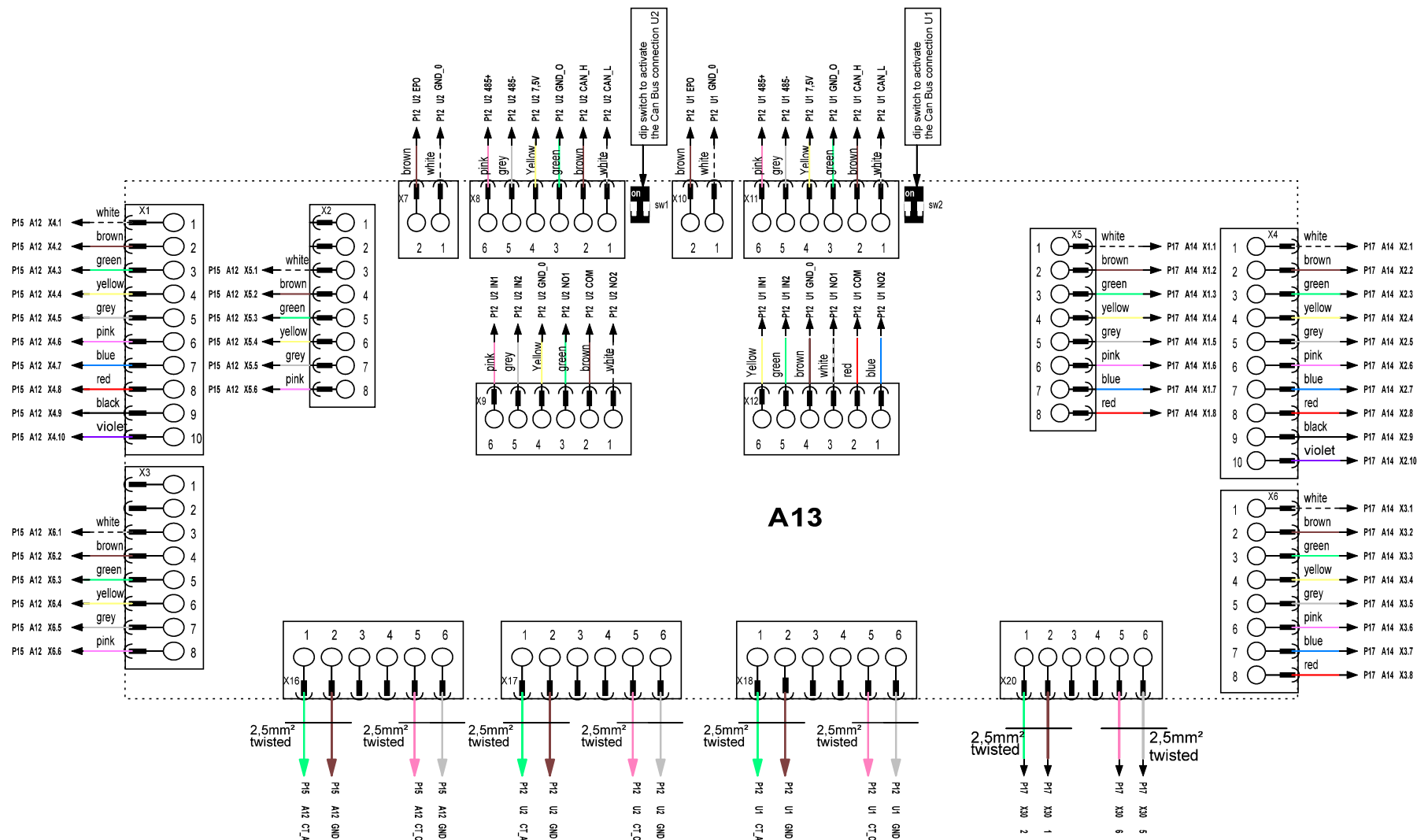
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<table><tr><th colspan="4">Related spareparts and accessories - Part numbers</th><th></th></tr><tr><th colspan="2">accessories</th><th colspan="2">Part numbers</th><th>spare</th><th>Part numbers</th></tr><tr><td colspan="2">Current transformer 2500A (+VD08)</td><td colspan="2">136b3272</td><td>AAF-0073B04-150A0E20</td><td>137N1454</td></tr><tr><td colspan="2">Current transformer 3000A (+VD10)</td><td colspan="2">136b4007</td><td>Cabinet CT terminal Block</td><td>136b4665</td></tr><tr><td colspan="2">HMI (+BF50)</td><td colspan="2">136b4686</td><td>Power supply HMI</td><td>136b4666</td></tr><tr><td colspan="2">Plint 100mm x 1000mm</td><td colspan="2">136b4754</td><td>Power supply Control PCB</td><td>136b4667</td></tr><tr><td colspan="4" rowspan="8"></td><td>cover IEC main switch S6 size 1 630/800A</td><td>136b4808</td></tr><tr><td>NH01 200A</td><td>136b4671</td></tr><tr><td>Control board</td><td>136b4673</td></tr><tr><td>shunting board 2 pcs</td><td>136b4674</td></tr><tr><td>speed controller for fan</td><td>136b4676</td></tr><tr><td>door fan</td><td>136b4677</td></tr><tr><td>fan filter</td><td>136b4678</td></tr><tr><td>output fan VBH0225</td><td>136b4679</td></tr></table>														Related spareparts and accessories - Part numbers					accessories		Part numbers		spare	Part numbers	Current transformer 2500A (+VD08)		136b3272		AAF-0073B04-150A0E20	137N1454	Current transformer 3000A (+VD10)		136b4007		Cabinet CT terminal Block	136b4665	HMI (+BF50)		136b4686		Power supply HMI	136b4666	Plint 100mm x 1000mm		136b4754		Power supply Control PCB	136b4667					cover IEC main switch S6 size 1 630/800A	136b4808	NH01 200A	136b4671	Control board	136b4673	shunting board 2 pcs	136b4674	speed controller for fan	136b4676	door fan	136b4677	fan filter	136b4678	output fan VBH0225	136b4679
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
Cable name	origin	end		wires		cross-section	length						
Cable designation	from	to	Cable type	total	free	mm²	m	revision-date	revision-index	Function text target			
-W1	-X	Q1 L1.1/L2.1/L3.1/PE		8	0	min. 2x185/95 max.2x240/120				feed cable 3x400V/50Hz			
-W2.1	Q1	busbar X1 L1	Nsgaföu	2	0	185				feed cable AAF 007			
-W2.2	Q1	busbar X1 L2	Nsgaföu	2	0	185				feed cable AAF 007			
-W2.3	Q1	busbar X1 L3	Nsgaföu	2	0	185				feed cable AAF 007			
-W3.1	Q1	Q2	Nsgaföu	1	0	1,5				supply line control voltage			
-W3.2	Q1	Q2	Nsgaföu	1	0	1,5				supply line control voltage			
-W3.3	Q1	Q2	Nsgaföu	1	0	1,5				supply line control voltage			
-W4.1	F1.1	U1 L1	Nsgaföu	1	0	70				supply line AAF 007			
-W4.2	F1.2	U1 L2	Nsgaföu	1	0	70				supply line AAF 007			
-W4.3	F1.3	U1 L3	Nsgaföu	1	0	70				supply line AAF 007			
-W5.1	F2.1	U2 L1	Nsgaföu	1	0	70				supply line AAF 007			
-W5.2	F2.2	U2 L2	Nsgaföu	1	0	70				supply line AAF 007			
-W5.3	F2.3	U2 L3	Nsgaföu	1	0	70				supply line AAF 007			
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Cable name	origin	end		wires		cross-section	length						
Cable designation	from	to	Cable type	total	free	mm²	m	revision-date	revision-index	Function text target			
-W6.1	F3.1	U3 L1	Nsgaföu	1	0	70				supply line AAF 007			
-W6.2	F3.2	U3 L2	Nsgaföu	1	0	70				supply line AAF 007			
-W6.3	F3.3	U3 L3	Nsgaföu	1	0	70				supply line AAF 007			
-W7.1	F4.1	U4 L1	Nsgaföu	1	0	70				supply line AAF 007			
-W7.2	F4.2	U4 L2	Nsgaföu	1	0	70				supply line AAF 007			
-W7.3	F4.3	U4 L3	Nsgaföu	1	0	70				supply line AAF 007			
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
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							
-X6	fan supply 230V output fan	1	6	1	1	6							
-X30	CT terminal	1	4	0	0	4							
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