



Cover page

Product name : AAF-0073B04-550AE54

Operation voltage : 380V-480V / 3~, 50/60Hz

Control voltage : 200-240V AC

Signal voltage : ./.

Filter current : 550A

max. short-circuit current ICC : 50KA

max. ambient temperature : 40°C

protection class : IP 54

weight : 392Kg

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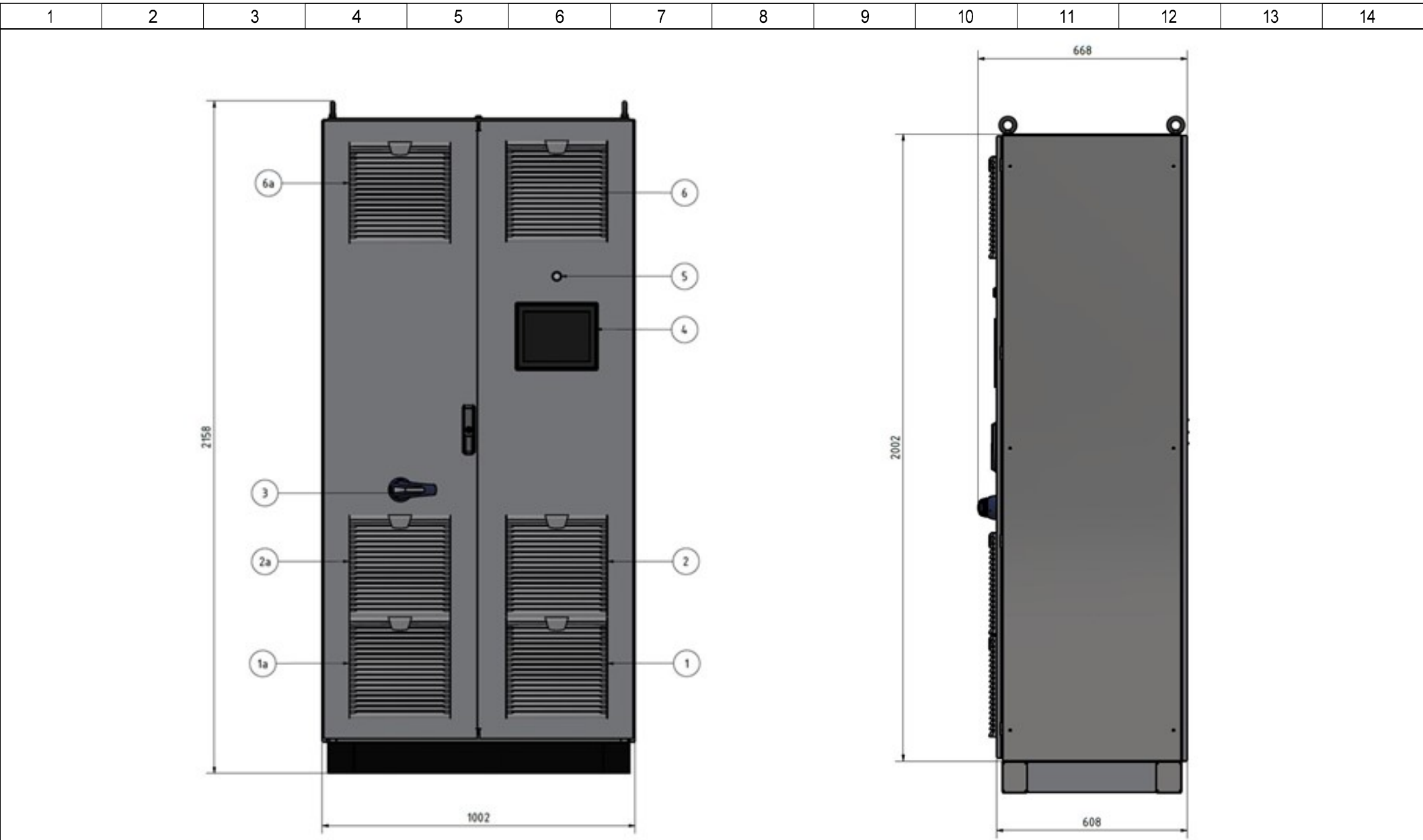


Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

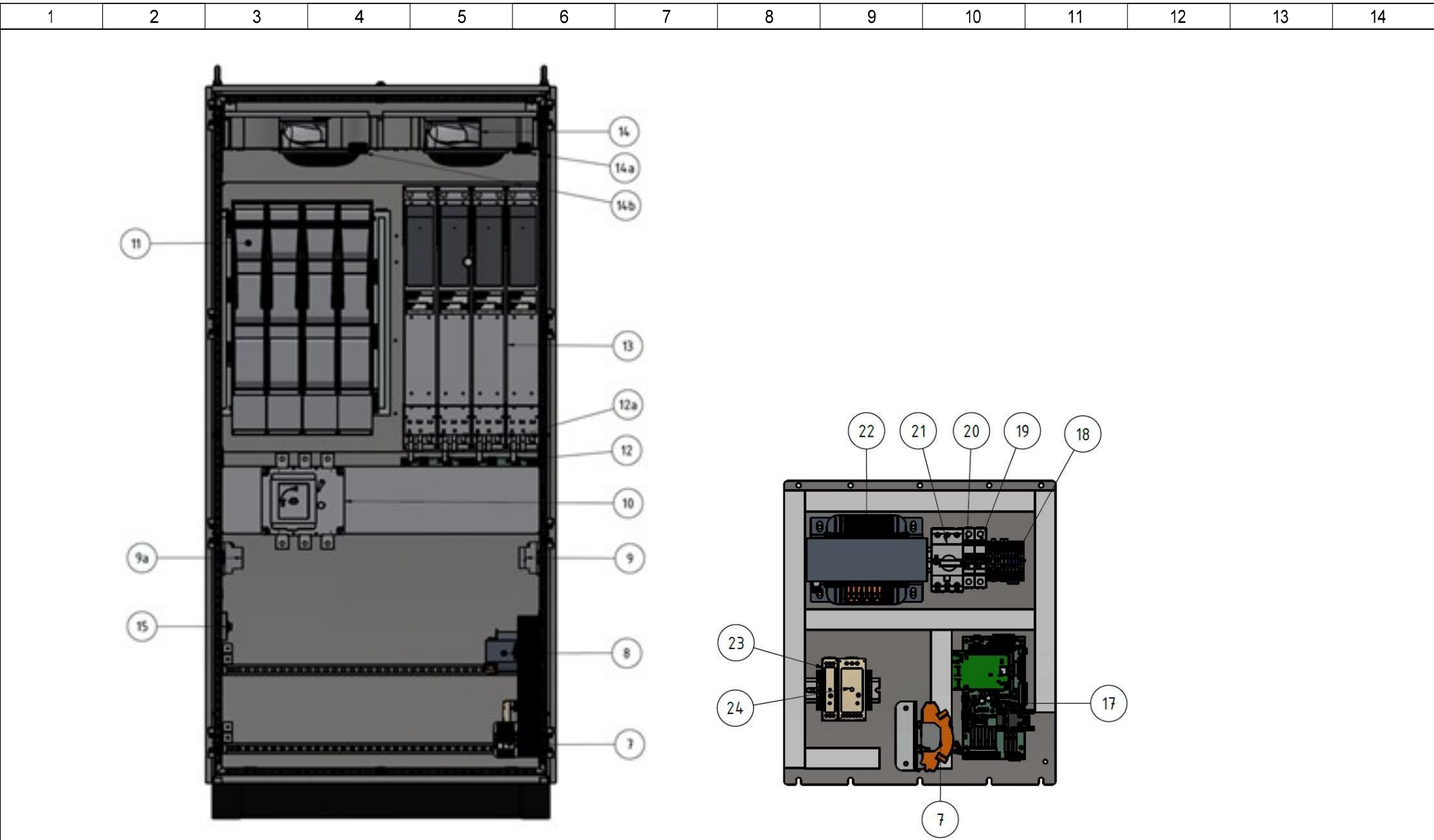
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System	Location	Page	Page naming						Additional page field		Date	Editor	
		1	Cover page							06.06.2025			
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		3	table of contents							06.06.2025			
		4	drawing cabinet outside							06.06.2025			
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		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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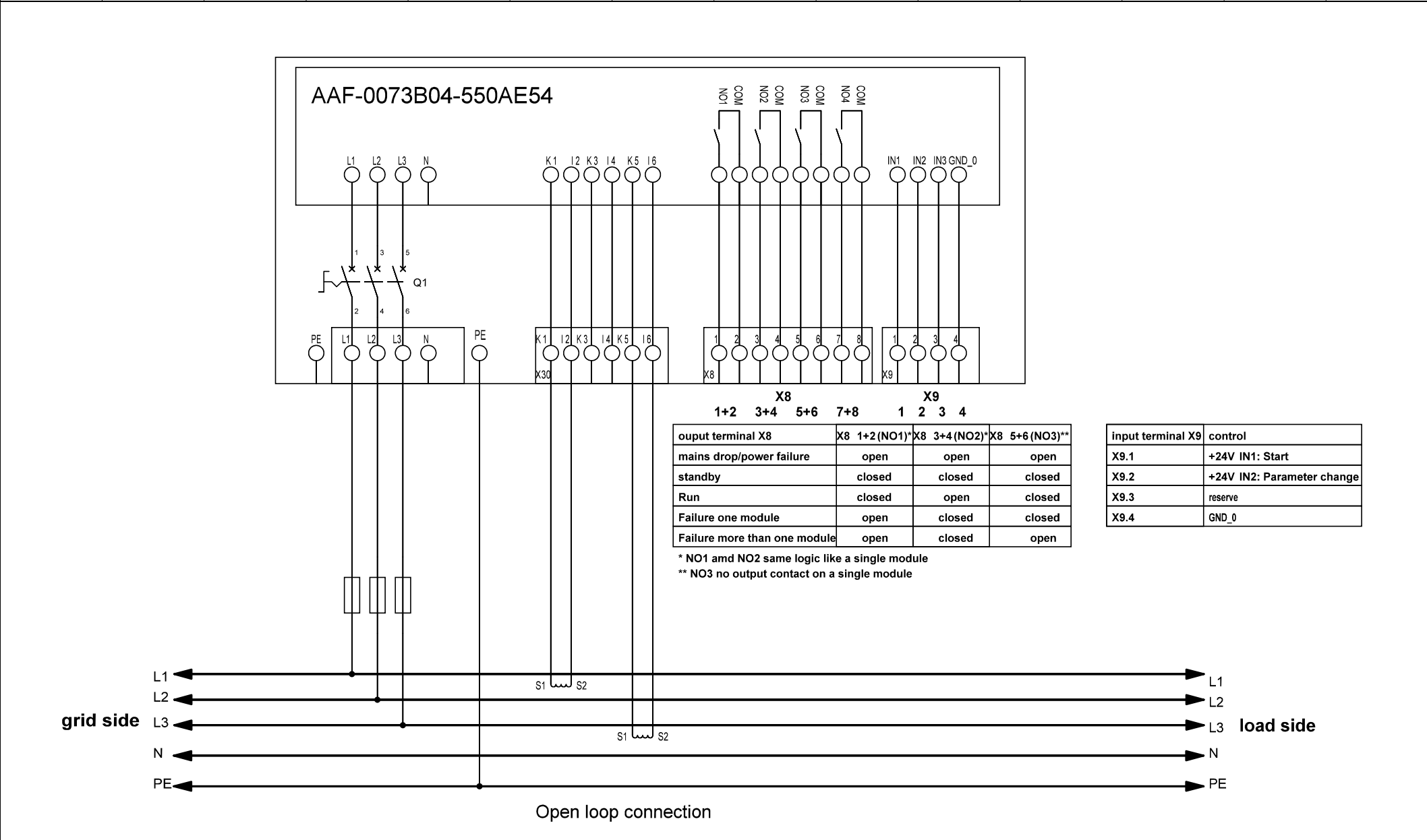
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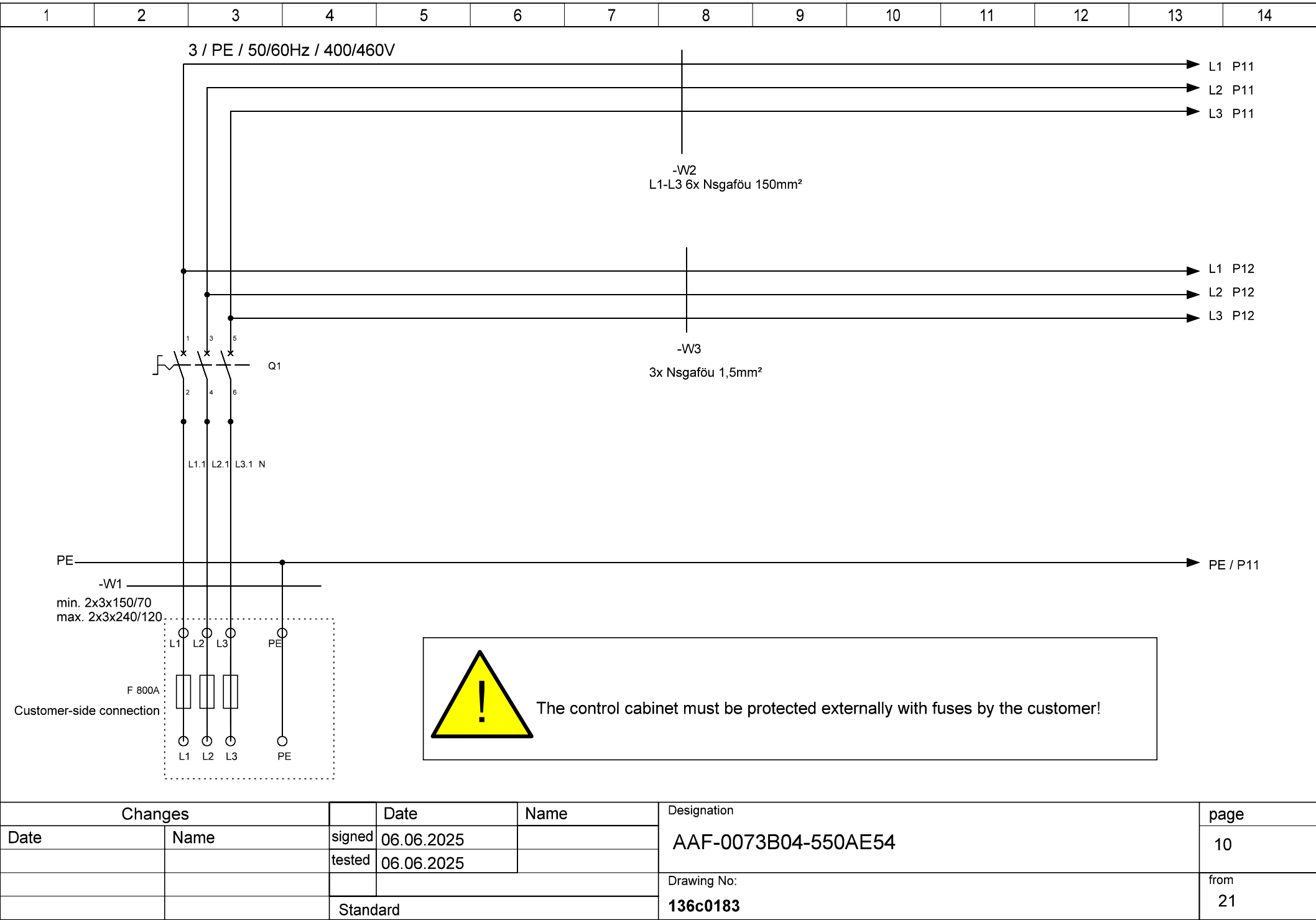
Position number	Component name	Type designation	comment
1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC
1a	M4	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2	M2	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2a	M5	SK intake EC fan EC 890 m³/h	U=100-250V/AC
3	Q1	Switch disconnecter switch toggle	I=800A
4	A20	HMI	10.1 inch capacitive touch
5	H1	signal light	red / green
6	M3	outlet filter	pleated filter
6a	M6	outlet filter	pleated filter

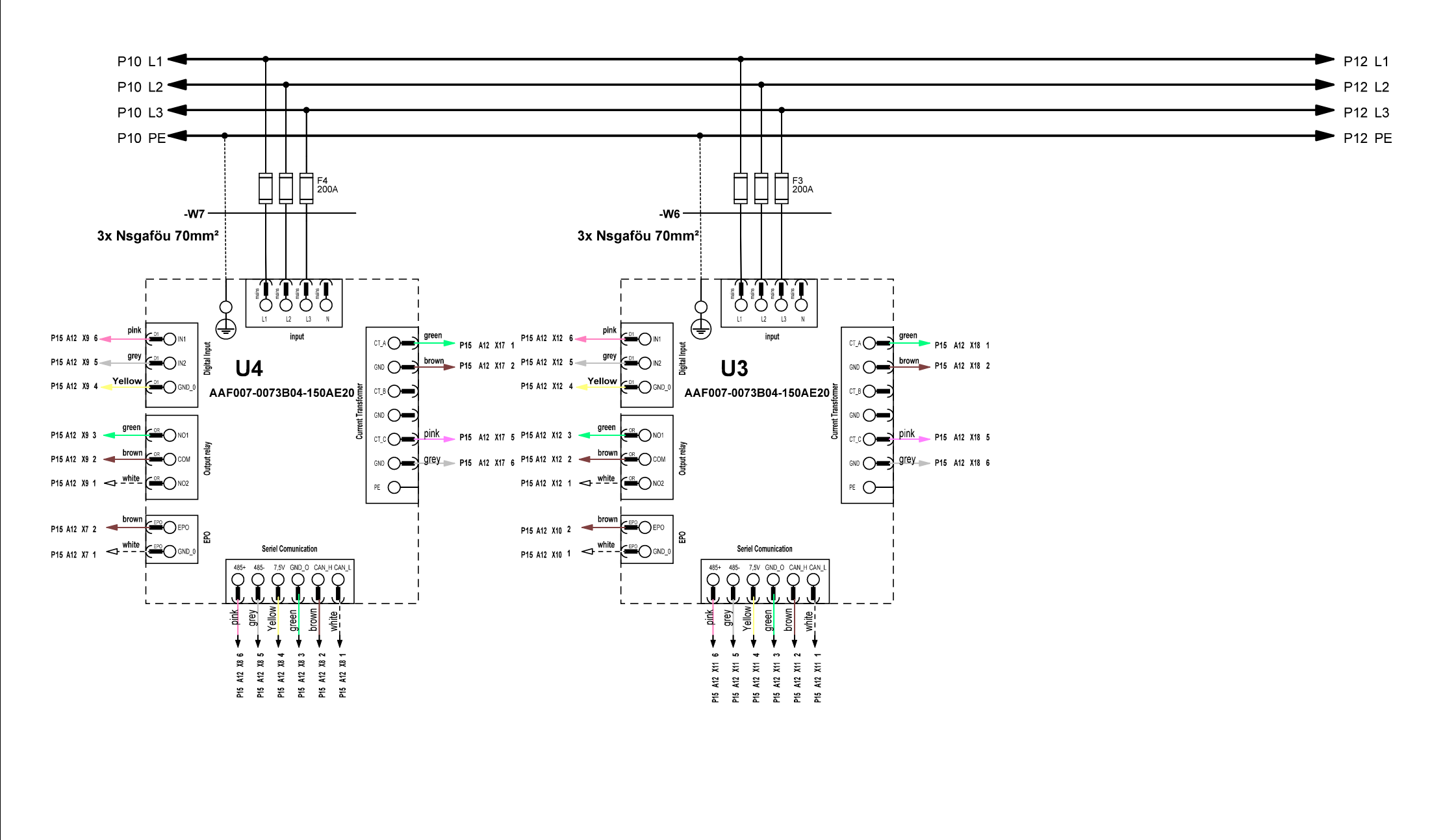
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Position number	Component name	Type designation	comment
7	X30	STME 5-CT terminals	Single-wire conductor: 0,5 ... 10 mm² / 20 ... 8 AWG Fine-wire conductor with wire-end-sleeve 2,5* ... 6 mm² / 14 ... 10 AWG
8	A30	control voltage supply board	
9	B1	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: NH Gr1 160A/500V F2-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	1 pcs. AAF007-0073B04-100AE20 3 pcs. AAF007-0073B04-150AE20	1 pcs. AHF 007 100A modul 3 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

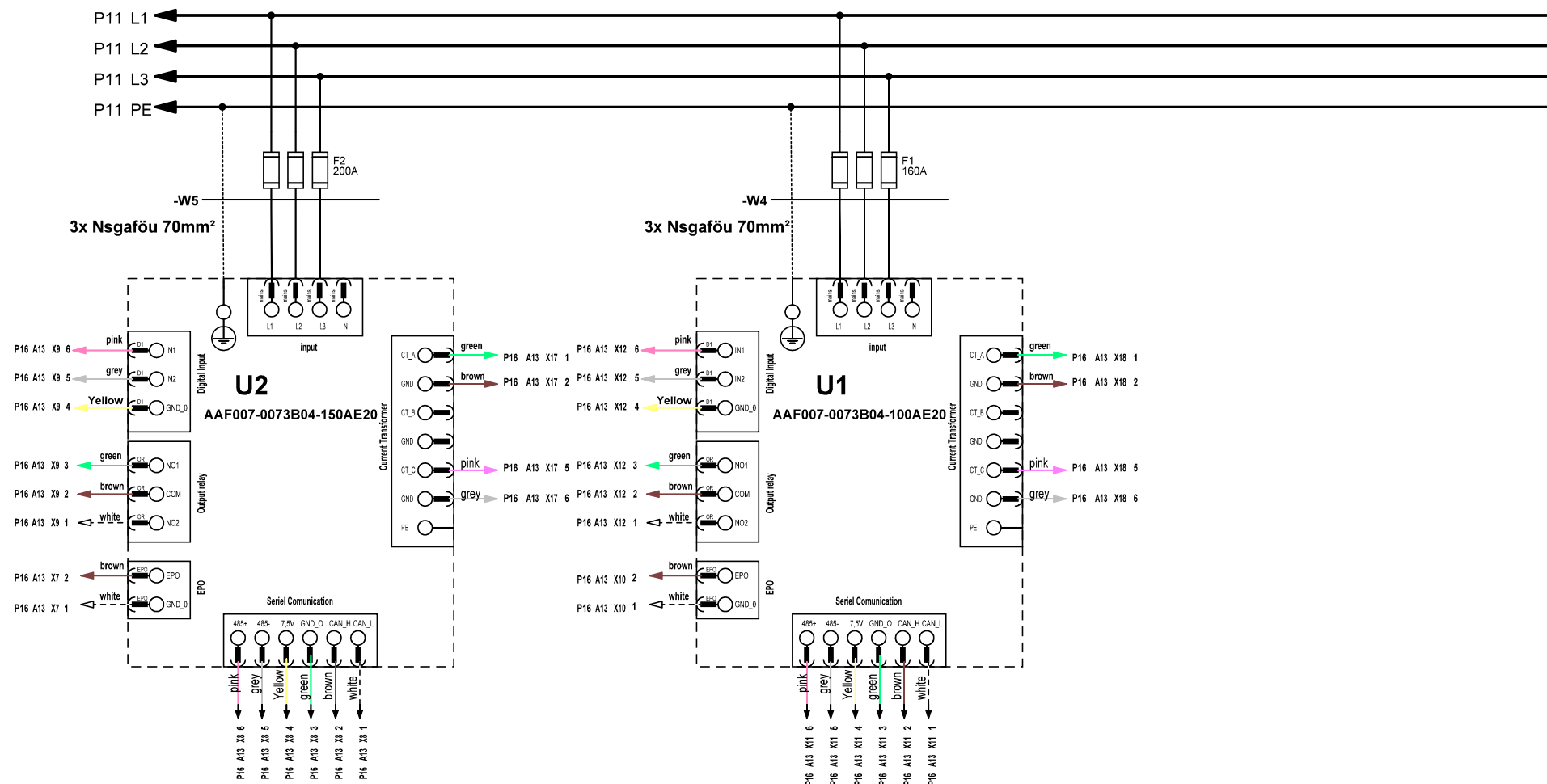
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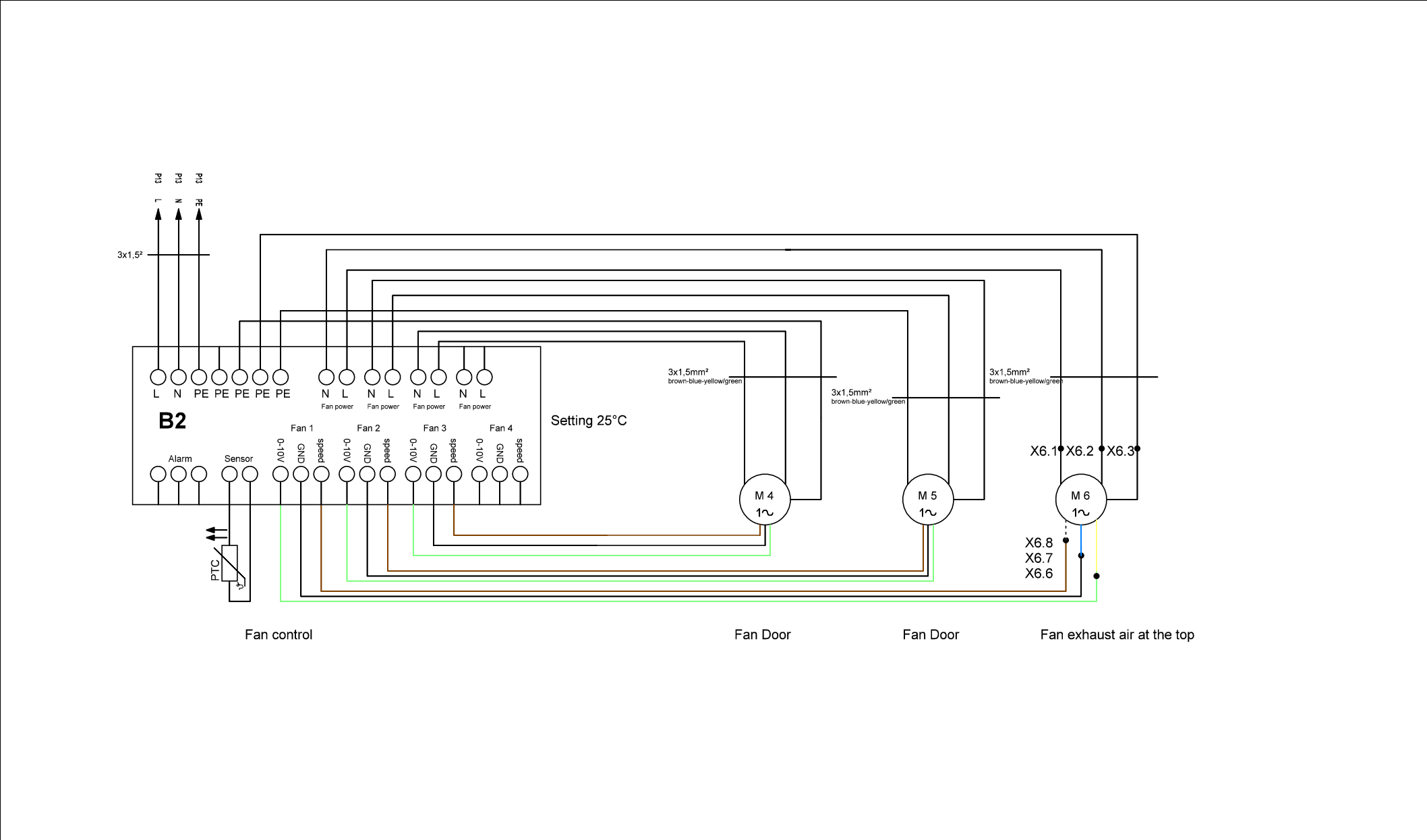




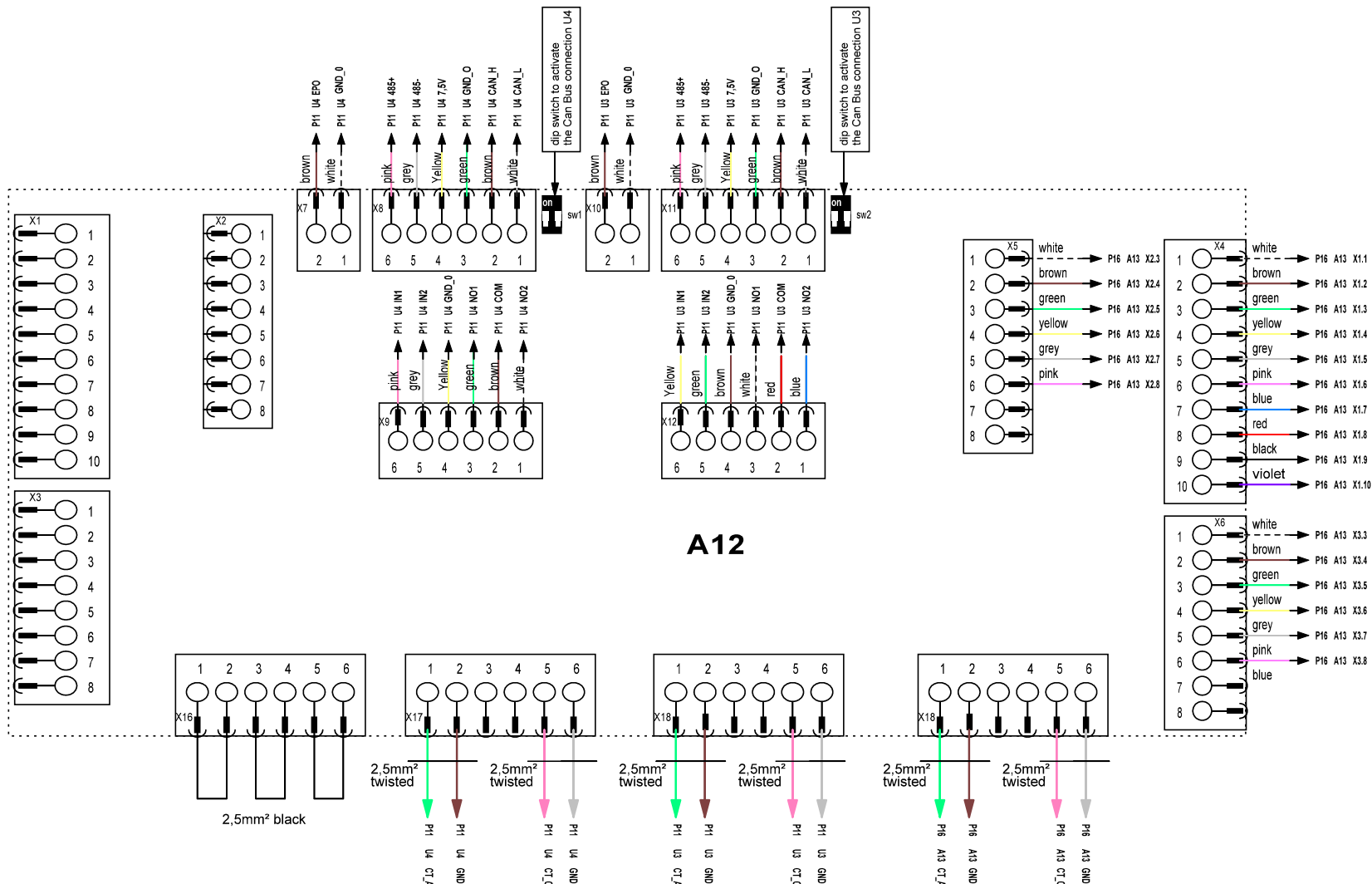
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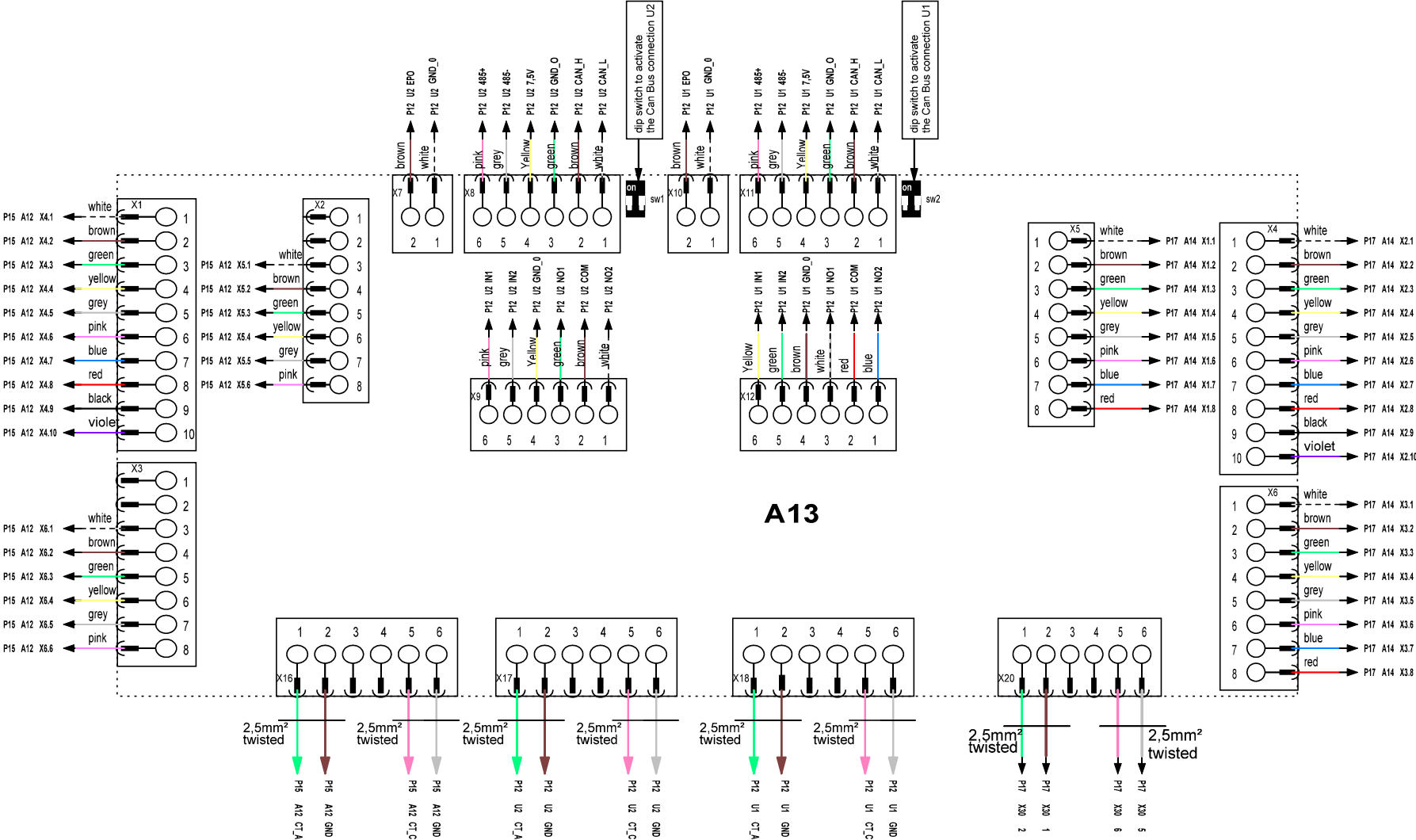
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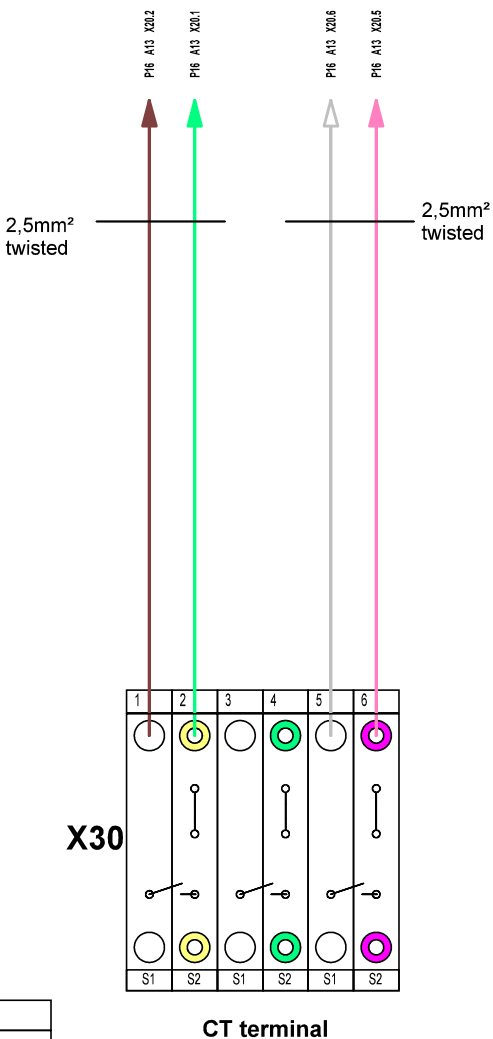
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input terminal X9	control
X9.1	+24V IN1: Start
X9.2	+24V IN2: Parameter change
X9.3	reserve
X9.4	GND_0

* NO1 amd NO2 same logic like a single module
** NO3 no output contact on a single module

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1234567891011121314

Related spareparts and accessories - Part numbers			
accessories	Part numbers	spare	Part numbers
Current transformer 2000A (+VD08)	136b3271	AAF-0073B04-150A0E20	137N1454
Current transformer 2500A (+VD09)	136b3272	AAF-0073B04-100A0E20	137U0978
HMI (+BF50)	136b4686	Cabinet CT terminal Block	136b4665
Plint 100mm x 1000mm	136b4754	Power supply HMI	136b4666
		Power supply Control PCB	136b4667
		cover IEC main switch S6 size 1 630/800A	136b4808
		NH01 160A	136b4670
		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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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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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							