



Cover page

Product name : AAF-0073B04-165AE54

Operation voltage : 380V-480V / 3~, 50/60Hz
Control voltage : 200-240V AC
Signal voltage : ./.
Filter current : 165A
max. short-circuit current ICC : 50KA
max. ambient temperature : 40°C
protection class : IP 54
weight : 208Kg

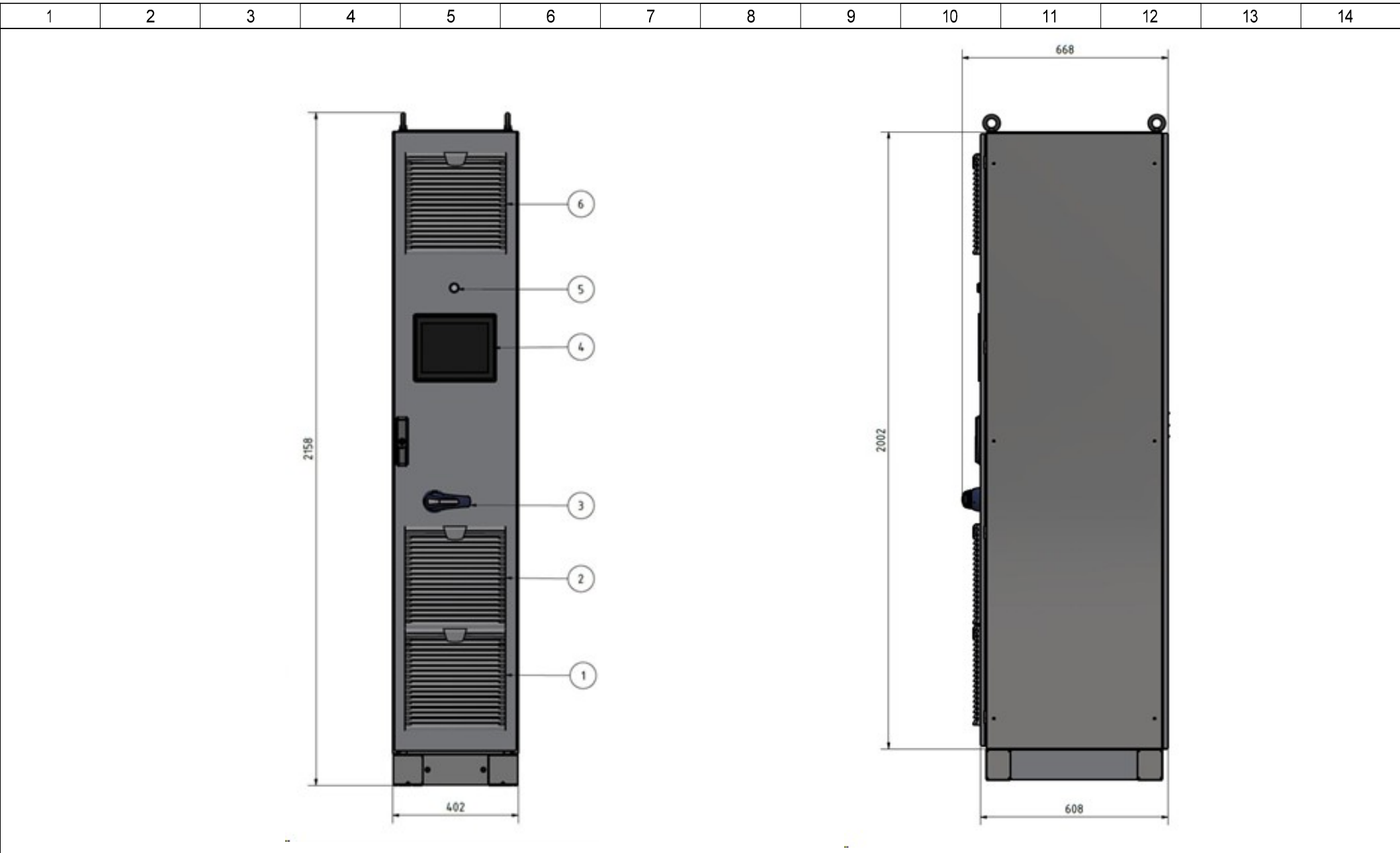
Changes			Date	Name	Designation	page
Date	Name	signed	04.06.2025		AAF-0073B04-165AE54	1
		tested	04.06.2025			
					Drawing No:	from
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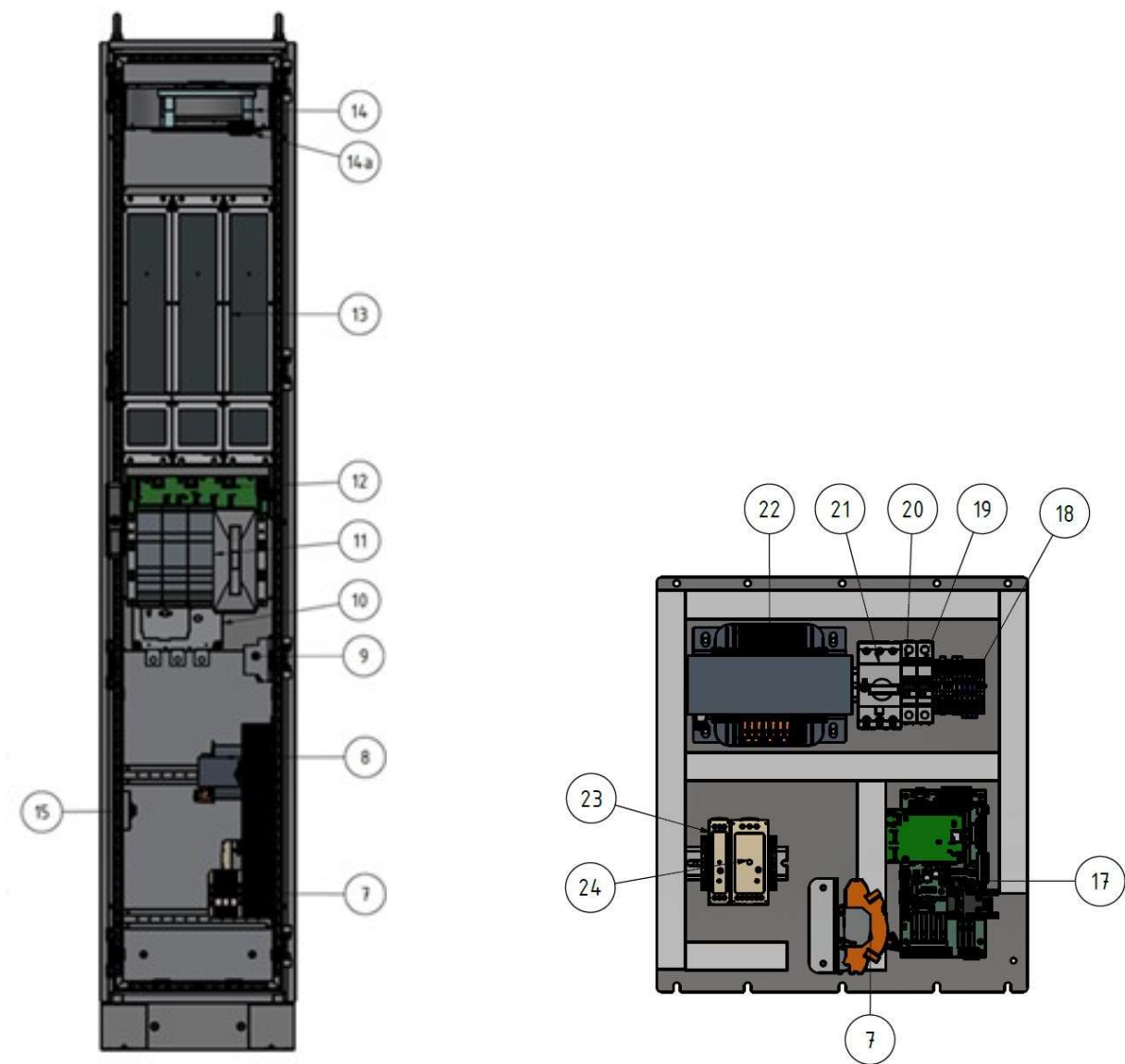
Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

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System	Location	Page	Page naming						Additional page field		Date	Editor		
		1	Cover page							04.06.2025				
		2	Warning							04.06.2025				
		3	table of contents							04.06.2025				
		4	drawing cabinet outside							04.06.2025				
		5	drawing cabinet inside							04.06.2025				
		6	Cabinet legend outside							04.06.2025				
		7	Cabinet legend inside							04.06.2025				
		8	schematic diagram open loop							04.06.2025				
		9	schematic diagram closed loop							04.06.2025				
		10	power supply circuit diagram							04.06.2025				
		11	main circuit filter connection U1-U3							04.06.2025				
		12	auxiliary voltage circuit 230V							04.06.2025				
		13	Control shunting board A13							04.06.2025				
		14	Control board A14 / costumer terminals							04.06.2025				
		15	Related spareparts and accessories							04.06.2025				
		16	cable overview 1							04.06.2025				
		17	cable overview 2							04.06.2025				
		18	terminal overview							04.06.2025				
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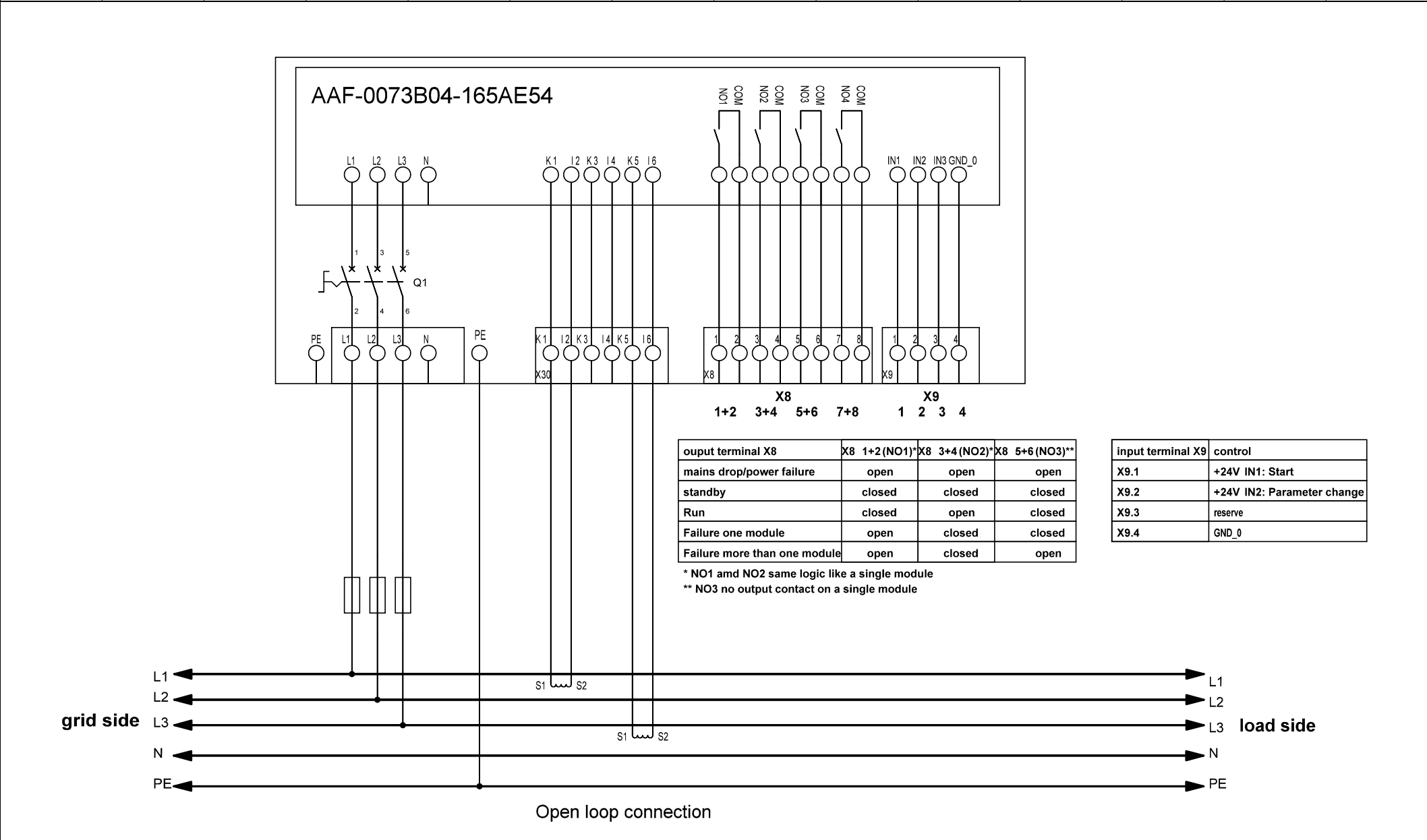


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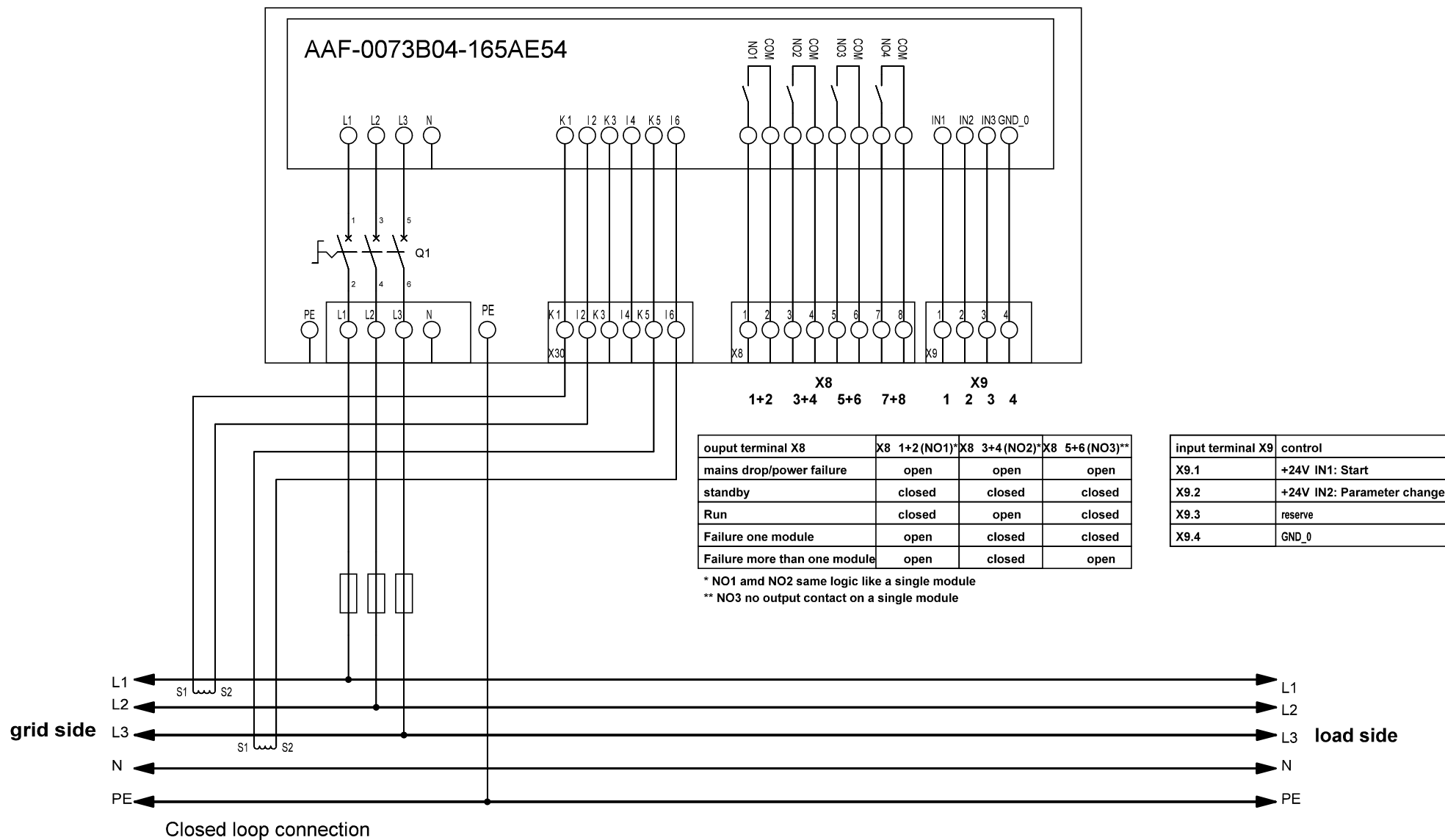
1	2	3	4	5	6	7	8	9	10	11	12	13	14																																																																
<table><tr><td>Position number</td><td>Component name</td><td>Type designation</td><td>comment</td></tr><tr><td>1</td><td>M1</td><td>SK intake EC fan EC 890 m³/h</td><td>U=100-250V/AC</td></tr><tr><td>2</td><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-F3	busbar system with fuses 80A	NH 00 80A/500V
12	A13	patch board for 3pcs. AAF007	board for the distribution of control signals and current measurement
13	U1-U3	3 pcs. AAF007-0073B04-55AE20	AHF 007 55A 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 for 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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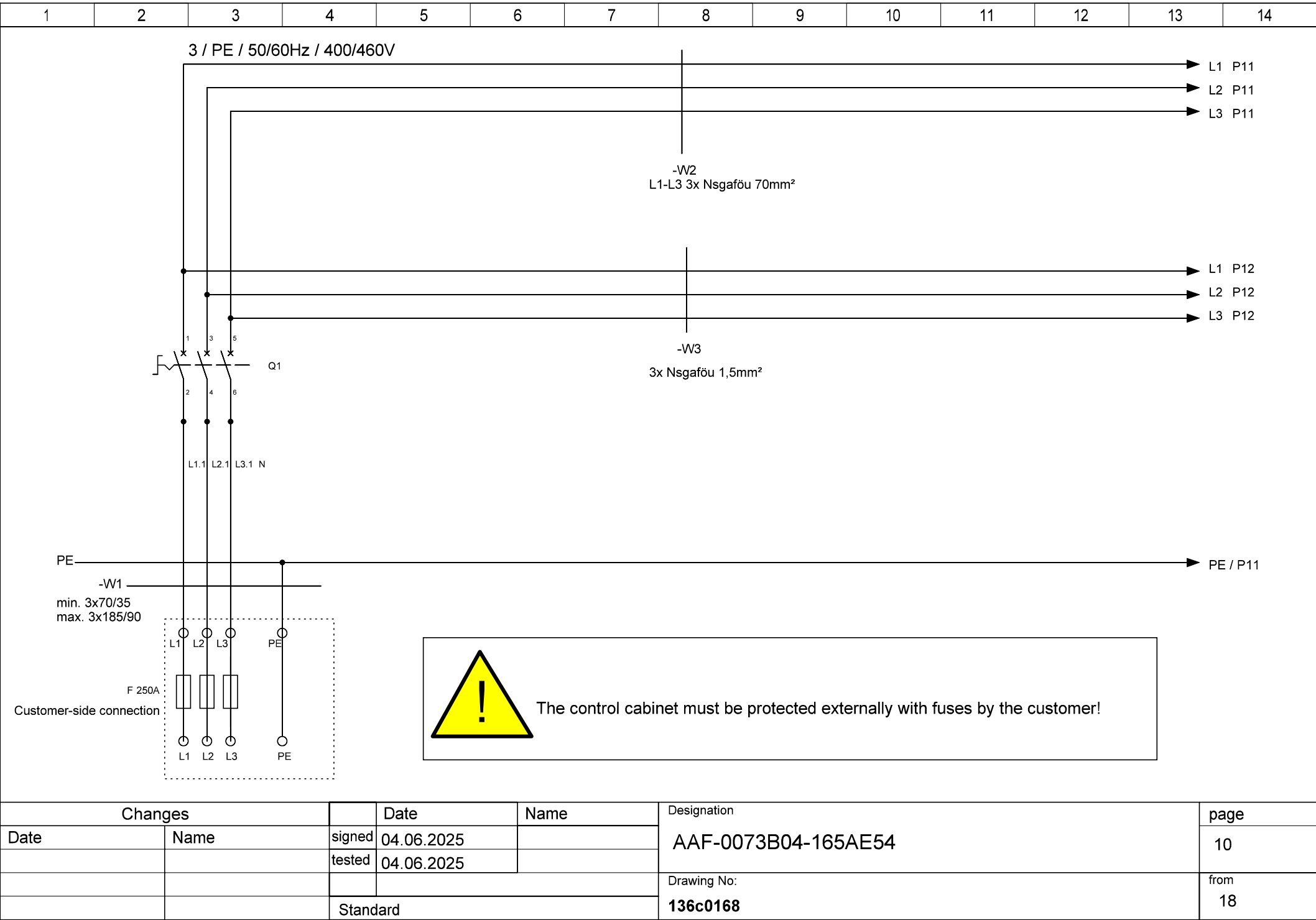
output terminal X8	X8 1+2 (NO1)*	X8 3+4 (NO2)*	X8 5+6 (NO3)
mains drop/power failure	open	open	open
standby	closed	closed	closed
Run	closed	open	closed
Failure one module	open	closed	closed
Failure more than one module	open	closed	open

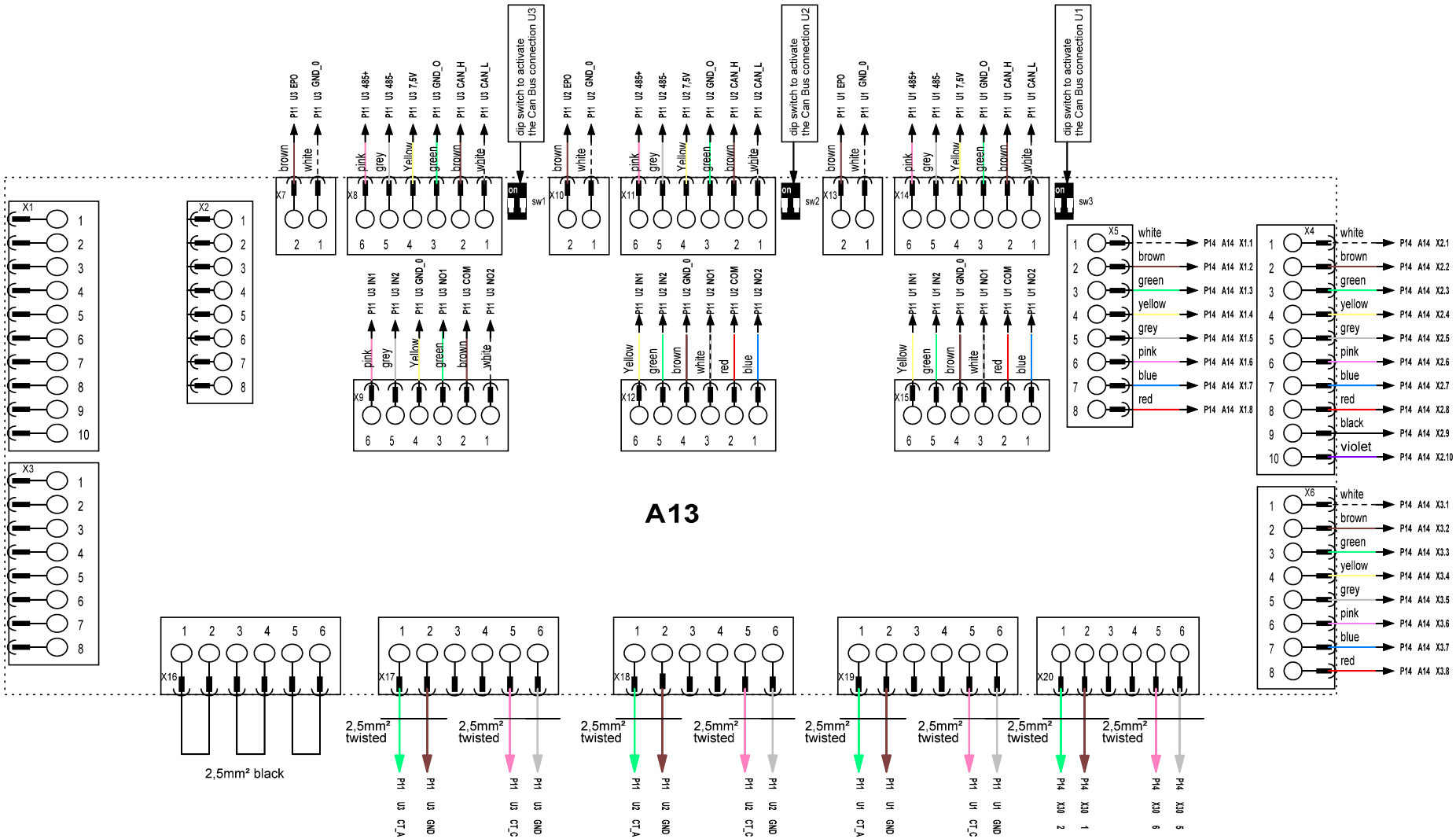
* NO1 amd NO2 same logic like a single module
** NO3 no output contact on a single module

★★ NO3 no output contact on a single module

input terminal X9	control
X9.1	+24V IN1: Start
X9.2	+24V IN2: Parameter change
X9.3	reserve
X9.4	GND 0

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Related spareparts and accessories - Part numbers			
accessories	Part numbers	spare	Part numbers
Current transformer 400A (+VD03)	136b3267	AAF-0073B04-55A0E20	137G3610
Current transformer 600A (+VD04)	136b3268	Cabinet CT terminal Block	136b4665
HMI (+BF50)	136b4686	Power supply HMI	136b4666
Plint 100mm x 400mm	136b4672	Power supply Control PCB	136b4667
		cover IEC main switch	136b4668
		NH00 80A	136b4669
		Control board	136b4673
		shunting board 3 pcs	136b4675
		speed controller for fan	136b4676
		door fan	136b4677
		fan filter	136b4678
		output fan K3G190	136b4901

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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				
-W1	-X	Q1 L1.1/L2.1/L3.1/PE		4	0	min. 70/35 max. 185/90					feed cable 3x400V/50Hz			
-W2.1	Q1	busbar X1 L1	Nsgaföu	1	0	70					feed cable AAF 007			
-W2.2	Q1	busbar X1 L2	Nsgaföu	1	0	70					feed cable AAF 007			
-W2.3	Q1	busbar X1 L3	Nsgaföu	1	0	70					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	16					supply line AAF 007			
-W4.2	F1.2	U1 L2	Nsgaföu	1	0	16					supply line AAF 007			
-W4.3	F1.3	U1 L3	Nsgaföu	1	0	16					supply line AAF 007			
-W5.1	F2.1	U2 L1	Nsgaföu	1	0	16					supply line AAF 007			
-W5.2	F2.2	U2 L2	Nsgaföu	1	0	16					supply line AAF 007			
-W5.3	F2.3	U2 L3	Nsgaföu	1	0	16					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							
-X30	CT terminal	1	4	0	0	4							
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