



Cover page

Product name : AAF-0073B04-400AE54

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

Control voltage : 200-240V AC

Signal voltage : ./.

Filter current : 400A

max. short-circuit current ICC : 50KA

max. ambient temperature : 40°C

protection class : IP 54

weight : 317Kg

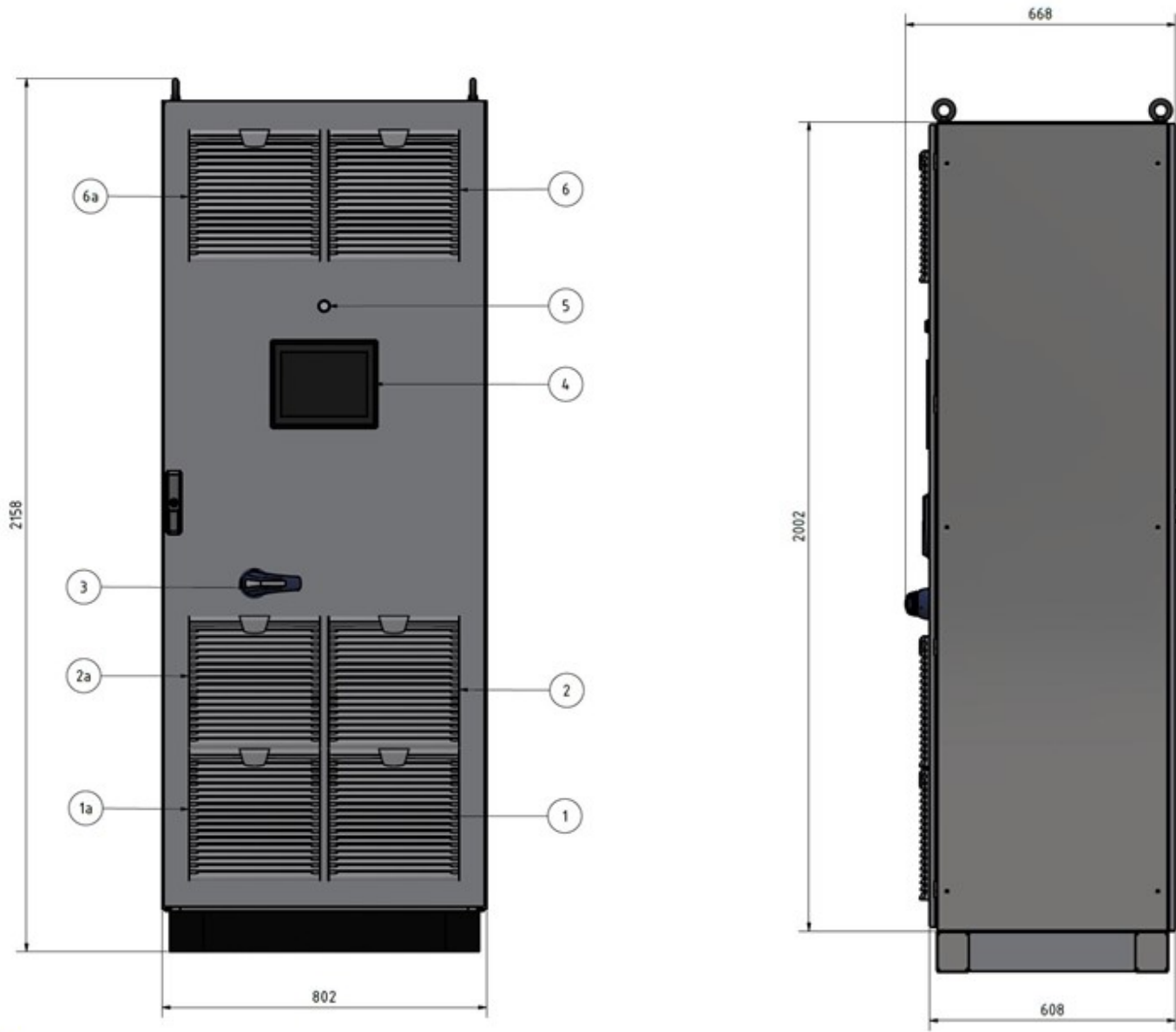
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Date	Name	signed	06.06.2025		AAF-0073B04-400AE54	1
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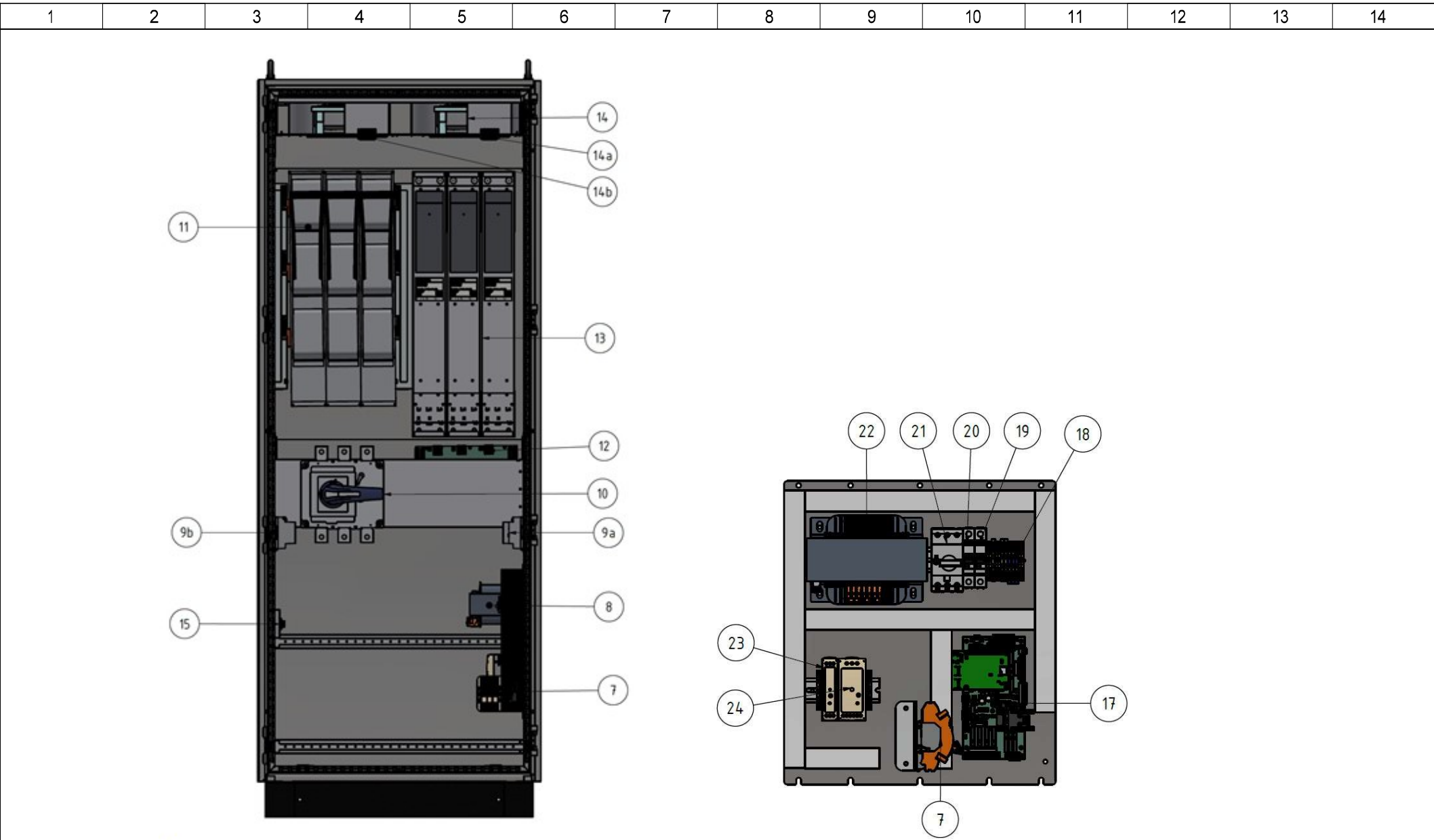
Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

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System	Location	Page	Page naming						Additional page field		Date	Editor			
		1	Cover page							06.06.2025					
		2	Warning							06.06.2025					
		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					
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		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 U1-U3							06.06.2025					
		12	auxiliary voltage circuit 230V							06.06.2025					
		13	auxiliary voltage circuit 230V							06.06.2025					
		14	Control shunting board A13							06.06.2025					
		15	Control board A14 / costumer terminals							06.06.2025					
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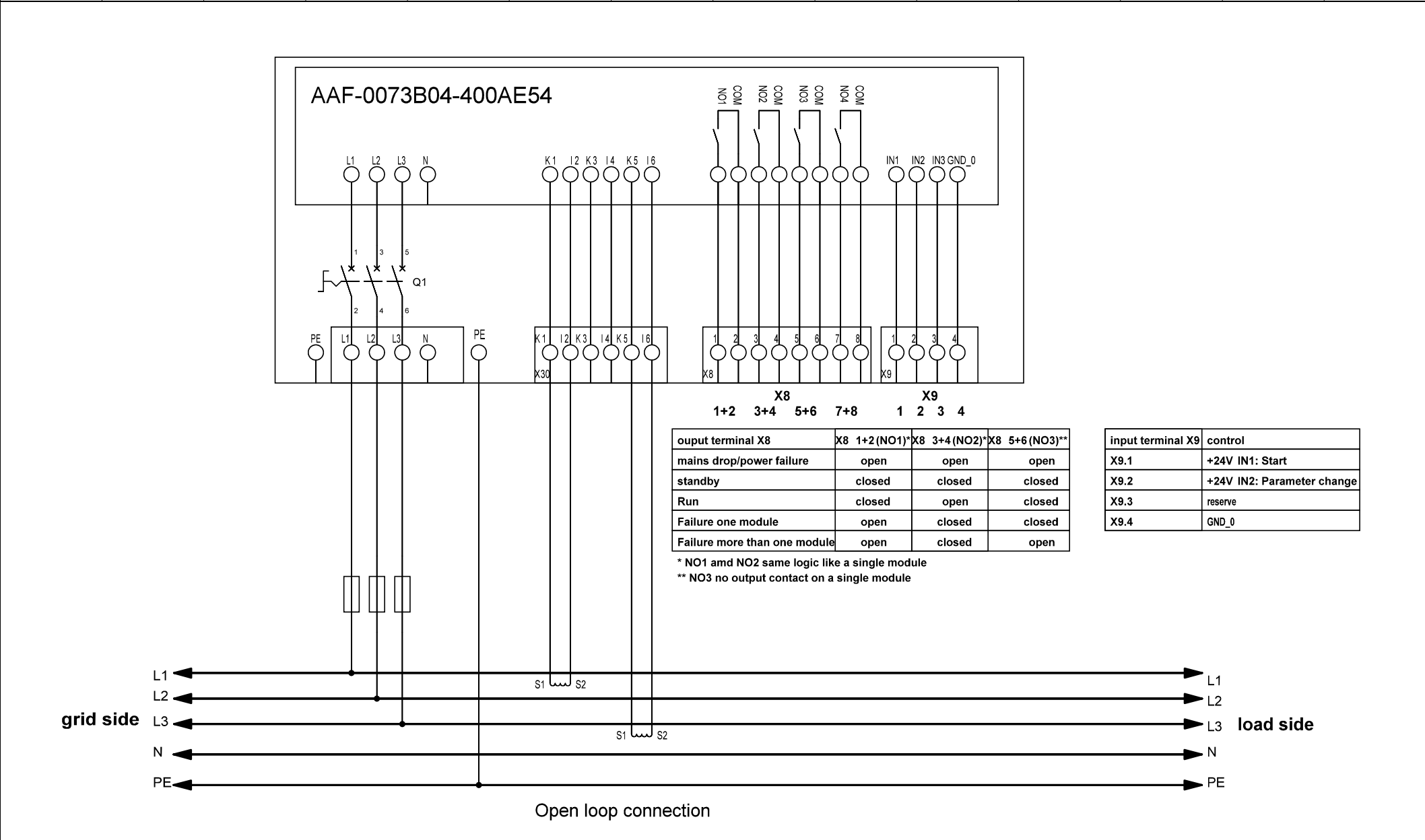


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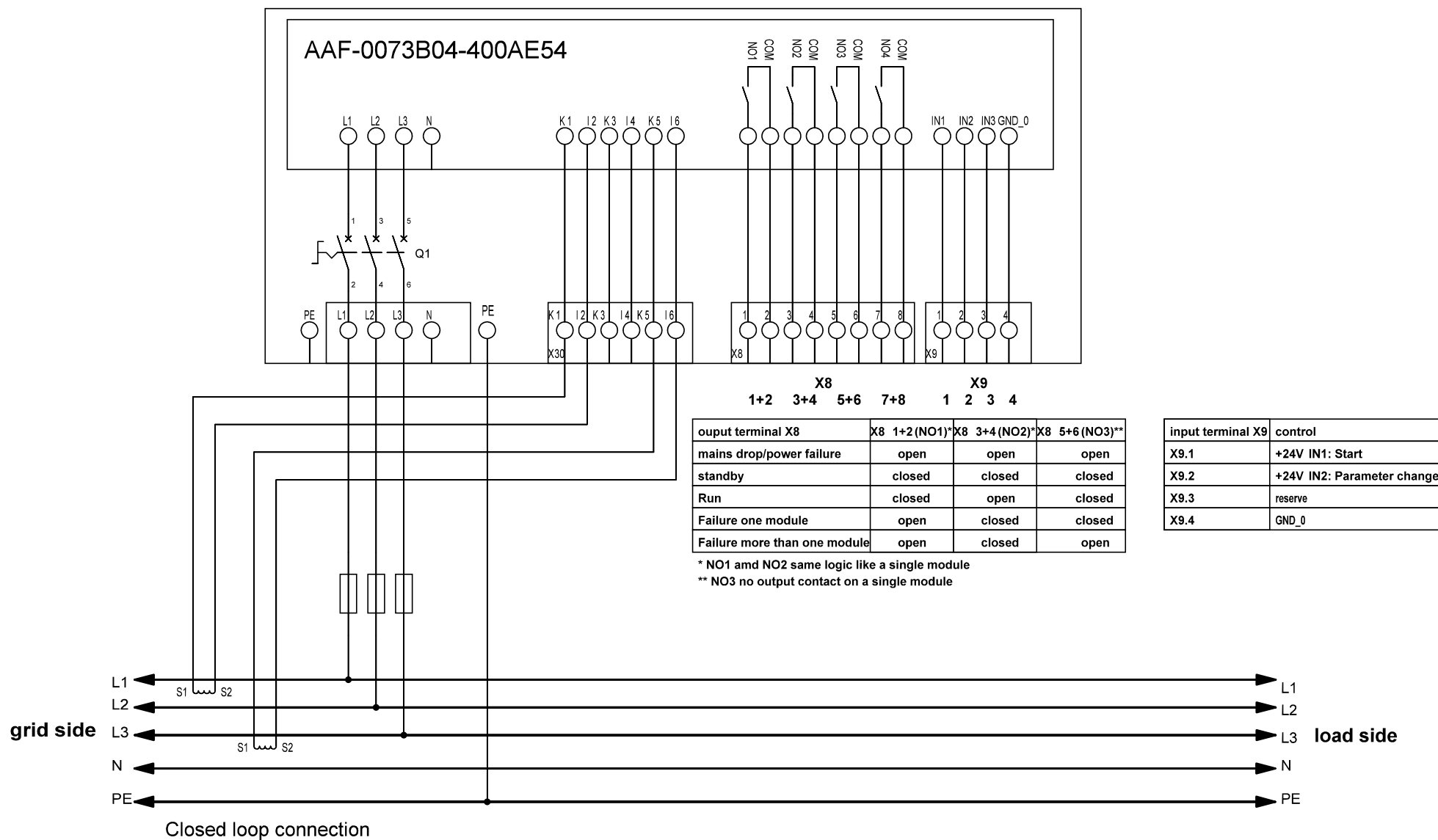
Position number	Component name	Type designation	comment
1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC
1a	M4	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2	M2	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2a	M5	SK intake EC fan EC 890 m³/h	U=100-250V/AC
3	Q1	Switch disconnecter switch toggle	I=630A
4	A20	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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<table><tr><td>Position number</td><td>Component name</td><td>Type designation</td><td>comment</td></tr><tr><td>7</td><td>X30</td><td>STME 5-CT terminals</td><td>Single-wire conductor: 0,5 ... 10 mm² / 20 ... 8 AWG Fine-wire conductor with wire-end-sleeve 2,5* ... 6 mm² / 14 ... 10 AWG</td></tr><tr><td>8</td><td>A30</td><td>control voltage supply board</td><td></td></tr><tr><td>9</td><td>B1</td><td>temperature controler for EC fans</td><td>speed controller fans M1-M3</td></tr><tr><td>9 a</td><td>B2</td><td>temperature controler for EC fans</td><td>speed controller fans M4-M6</td></tr><tr><td>10</td><td>Q1</td><td>load break swit</td><td>I=630A</td></tr><tr><td>11</td><td>F1-F3</td><td>busbar system with fuses</td><td>F1: NH Gr1 160A/500V F2-F3: NH Gr1 200A/500V</td></tr><tr><td>12</td><td>A13</td><td>patch board for 3pcs. RHF-Active</td><td>board for the distribution of control signals and current measurement</td></tr><tr><td>13</td><td>U1-U3</td><td>1 pcs. AAF007-0073B04-100AE20 2 pcs. AAF007-0073B04-150AE20</td><td>1 pcs. AHF 007 100A modul 2 pcs. AHF 007 150A modul</td></tr><tr><td>14</td><td>M3+M6</td><td>output fans</td><td>U=200-240V/AC</td></tr><tr><td>14 a</td><td>X5</td><td>output fan terminals M3</td><td></td></tr><tr><td>14 b</td><td>X6</td><td>output fan terminals M6</td><td></td></tr><tr><td>15</td><td>PE</td><td>grounding bar</td><td></td></tr><tr><td>16</td><td>reserve</td><td>reserve</td><td></td></tr><tr><td>17</td><td>A14</td><td>control board</td><td>board for the evaluation of the control signals for the customer connection for input and output signals</td></tr><tr><td>18</td><td>X1-X2</td><td>230V terminals X1-X2</td><td></td></tr><tr><td>19</td><td>F10</td><td>fuse for Powersupply</td><td>circuit breaker C 2A</td></tr><tr><td>20</td><td>F9</td><td>fuse for fan system</td><td>circuit breaker B 10A</td></tr><tr><td>21</td><td>Q2</td><td>circuit breaker</td><td>PKZM0-4-T 2,5-4A</td></tr><tr><td>22</td><td>T1</td><td>autotransformer</td><td>U in=460V/AC/ U out=230V/AC</td></tr><tr><td>23</td><td>T2</td><td>powersupply 24V for control supply</td><td>U in=85-264V/AC/ U out=24V/DC</td></tr><tr><td>24</td><td>T3</td><td>powersupply 12V for HMI supply</td><td>U in=85-264V/AC/ U out=12V/DC</td></tr></table>														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=630A	11	F1-F3	busbar system with fuses	F1: NH Gr1 160A/500V F2-F3: NH Gr1 200A/500V	12	A13	patch board for 3pcs. RHF-Active	board for the distribution of control signals and current measurement	13	U1-U3	1 pcs. AAF007-0073B04-100AE20 2 pcs. AAF007-0073B04-150AE20	1 pcs. AHF 007 100A modul 2 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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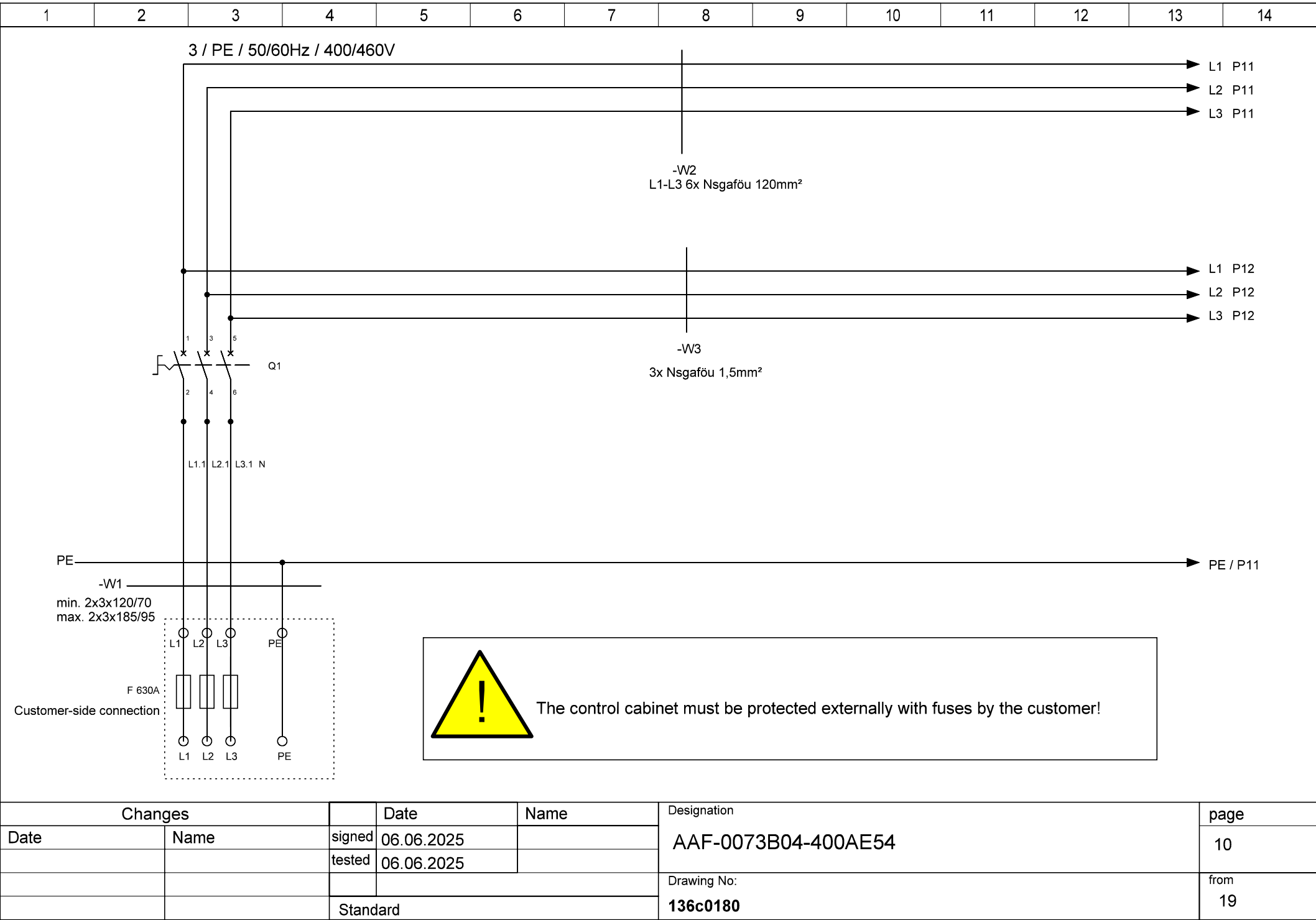
output terminal X8	X8 1+2 (NO1)	X8 3+4 (NO2)	X8 5+6 (NO3)
mains drop/power failure	open	open	open
standby	closed	closed	closed
Run	closed	open	closed
Failure one module	open	closed	closed
Failure more than one module	open	closed	open

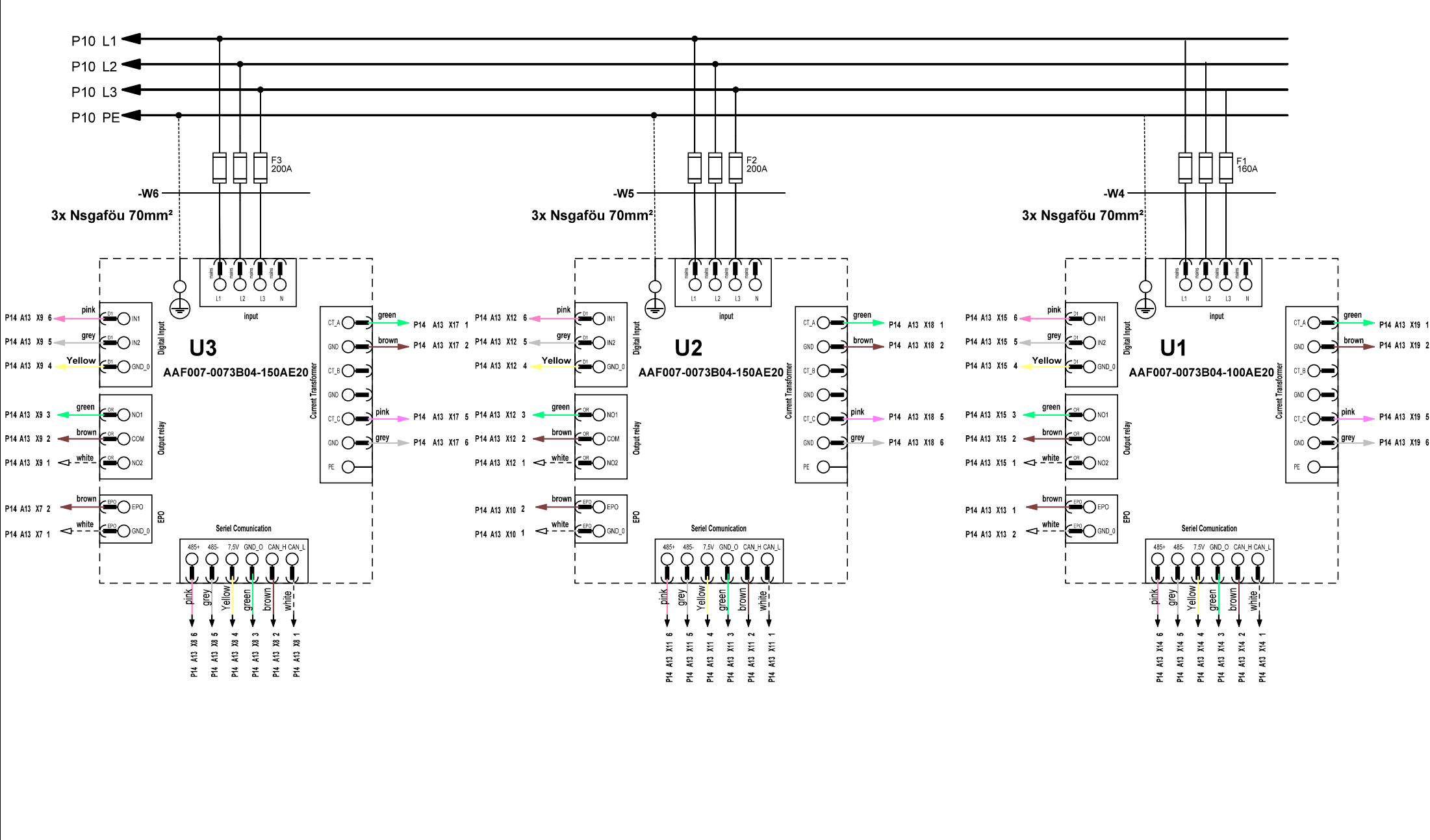
* NO1 amd NO2 same logic like a single module
** NO3 no output contact on a single module

**** NO3 no output contact on a single module**

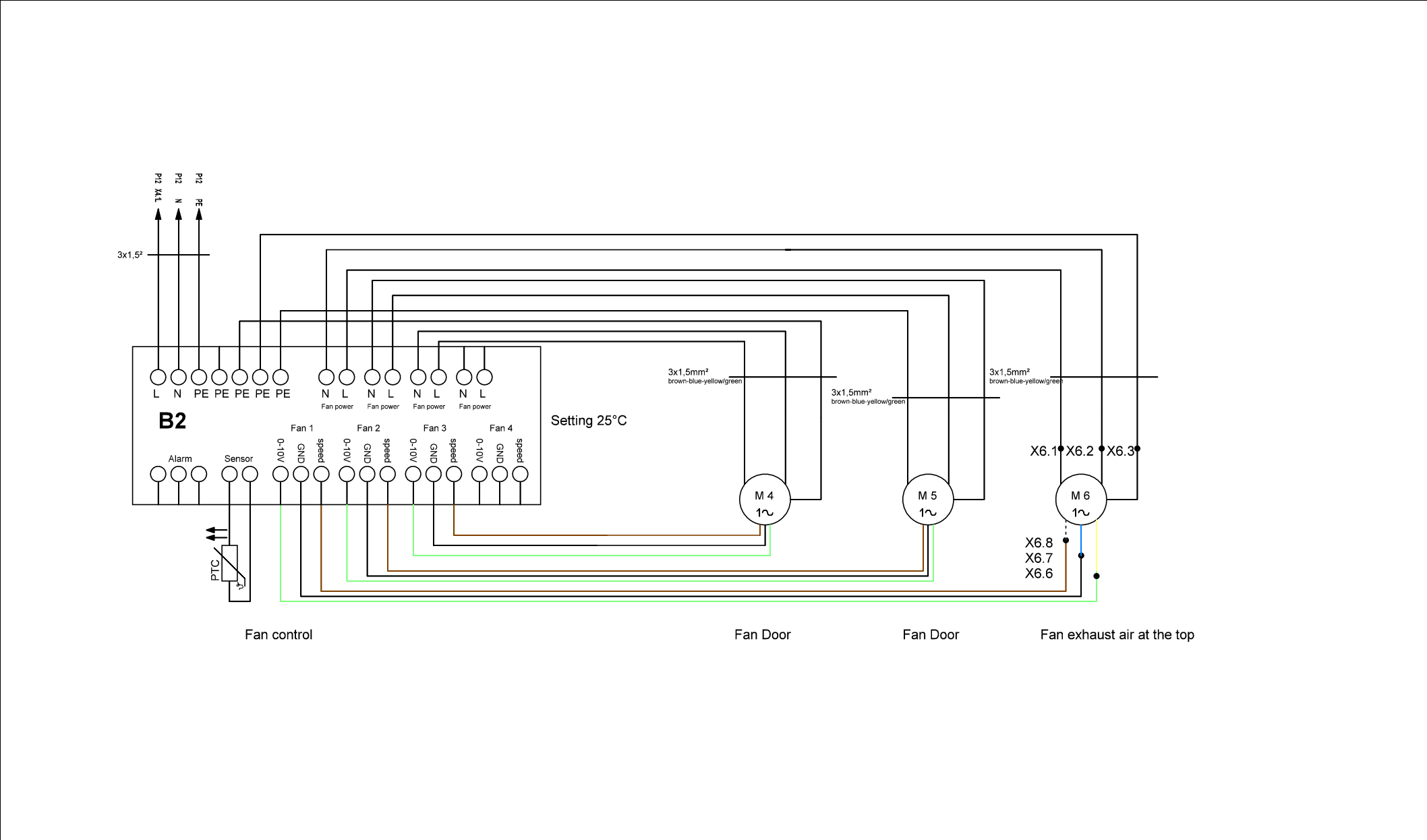
input terminal X9	control
X9.1	+24V IN1: Start
X9.2	+24V IN2: Parameter chan
X9.3	reserve
X9.4	GND 0

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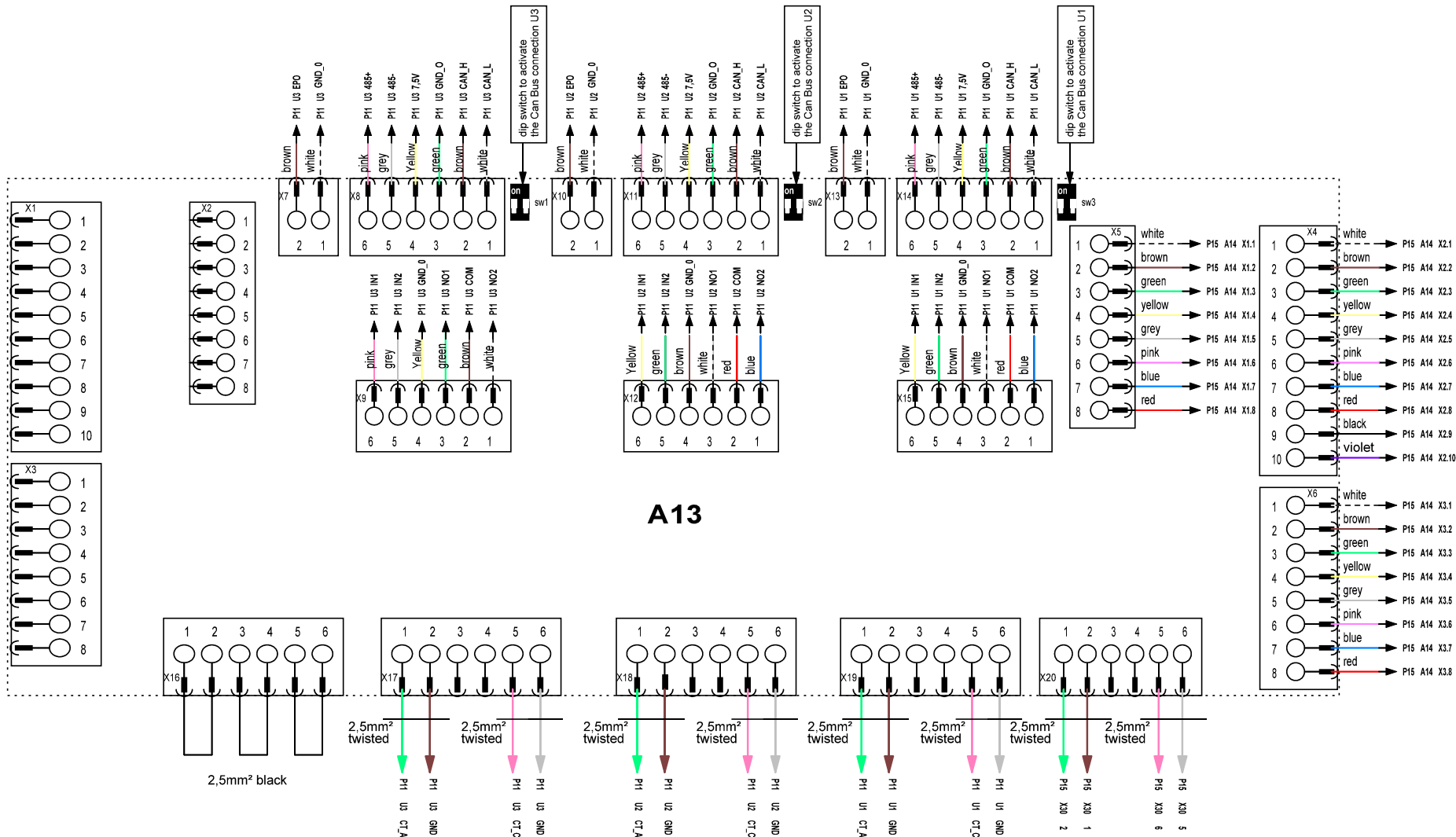




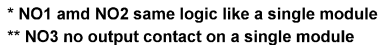
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CT terminal

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<table><tr><th colspan="4">Related spareparts and accessories - Part numbers</th></tr><tr><th>accessories</th><th>Part numbers</th><th>spare</th><th>Part numbers</th></tr><tr><td>Current transformer 900A (+VD06)</td><td>136b3270</td><td>AAF-0073B04-150A0E20</td><td>137N1454</td></tr><tr><td>Current transformer 2000A (+VD08)</td><td>136b3272</td><td>AAF-0073B04-100A0E20</td><td>137U0978</td></tr><tr><td>HMI (+BF50)</td><td>136b4686</td><td>Cabinet CT terminal Block</td><td>136b4665</td></tr><tr><td>Plint 100mm x 800mm</td><td>136b4753</td><td>Power supply HMI</td><td>136b4666</td></tr><tr><td colspan="2" rowspan="10"></td><td>Power supply Control PCB</td><td>136b4667</td></tr><tr><td>cover IEC main switch S6 size 1 630/800A</td><td>136b4808</td></tr><tr><td>NH01 160A</td><td>136b4670</td></tr><tr><td>NH01 200A</td><td>136b4671</td></tr><tr><td>Control board</td><td>136b4673</td></tr><tr><td>shunting board 3 pcs</td><td>136b4675</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 K3G190</td><td>136b4901</td></tr></table>														Related spareparts and accessories - Part numbers				accessories	Part numbers	spare	Part numbers	Current transformer 900A (+VD06)	136b3270	AAF-0073B04-150A0E20	137N1454	Current transformer 2000A (+VD08)	136b3272	AAF-0073B04-100A0E20	137U0978	HMI (+BF50)	136b4686	Cabinet CT terminal Block	136b4665	Plint 100mm x 800mm	136b4753	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 3 pcs	136b4675	speed controller for fan	136b4676	door fan	136b4677	fan filter	136b4678	output fan K3G190	136b4901
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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							
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