



Cover page

Product name : AAF-0073B04-450AE54

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

Control voltage : 200-240V AC

Signal voltage : ./.

Filter current : 450A

max. short-circuit current ICC : 50KA

max. ambient temperature : 40°C

protection class : IP 54

weight : 319Kg

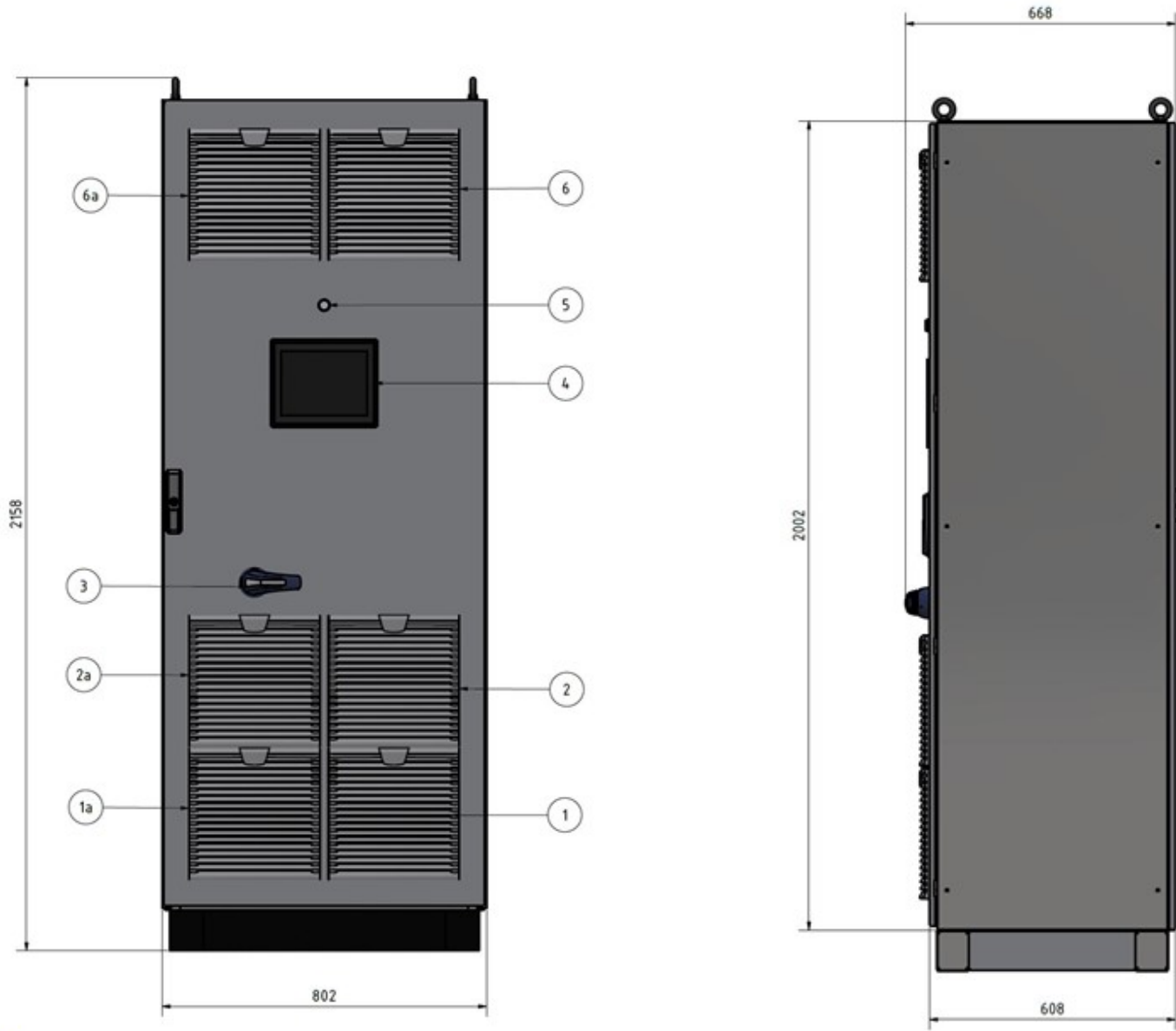
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Date	Name	signed	06.06.2025		AAF-0073B04-450AE54	1
		tested	06.06.2025			
					Drawing No:	from
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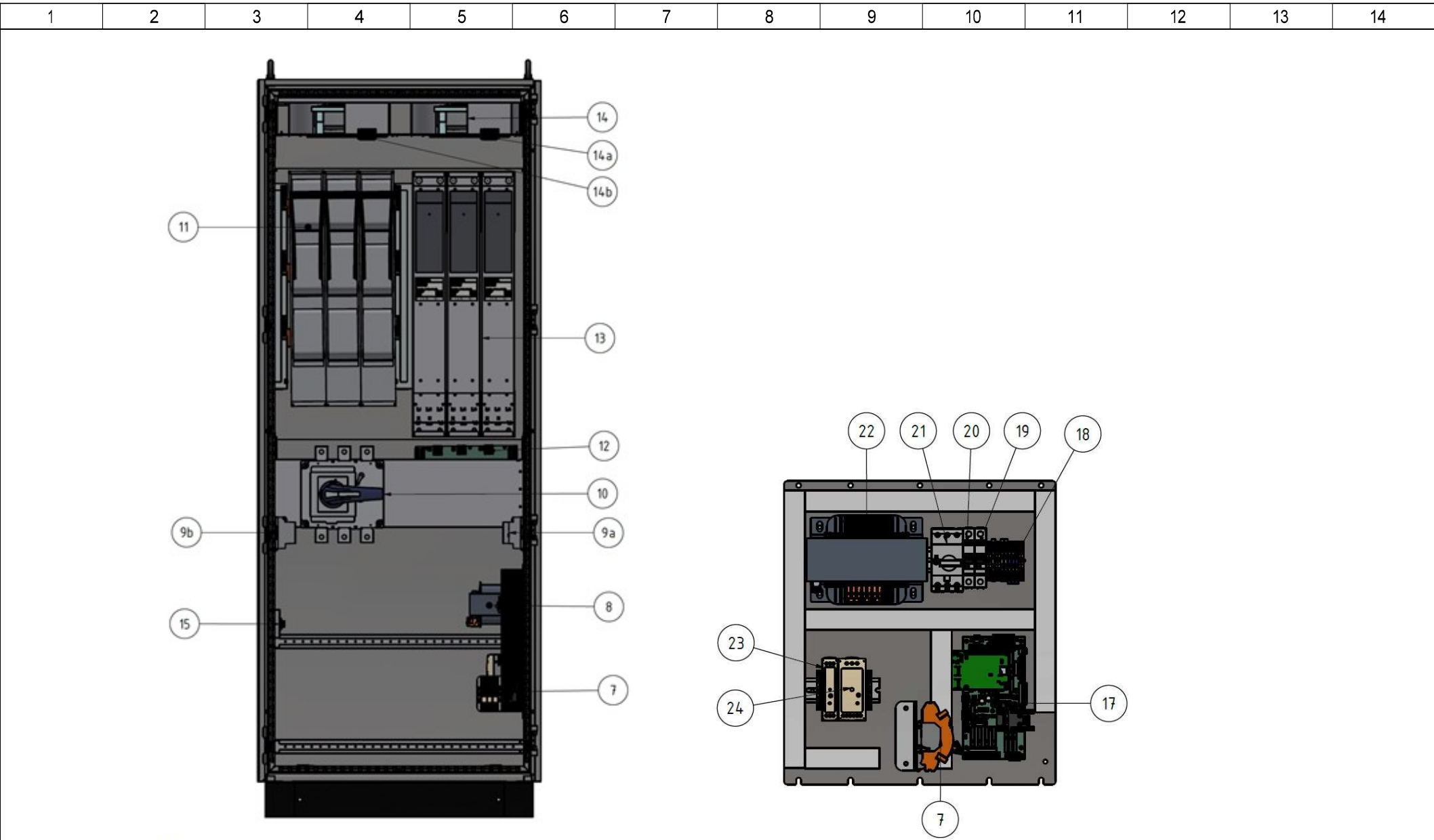
Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

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System	Location	Page	Page naming						Additional page field		Date	Editor		
		1	Cover page								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 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			
		16	Related spareparts and accessories								06.06.2025			
		17	cable overview 1								06.06.2025			
		18	cable overview 2								06.06.2025			
		19	terminal overview								06.06.2025			
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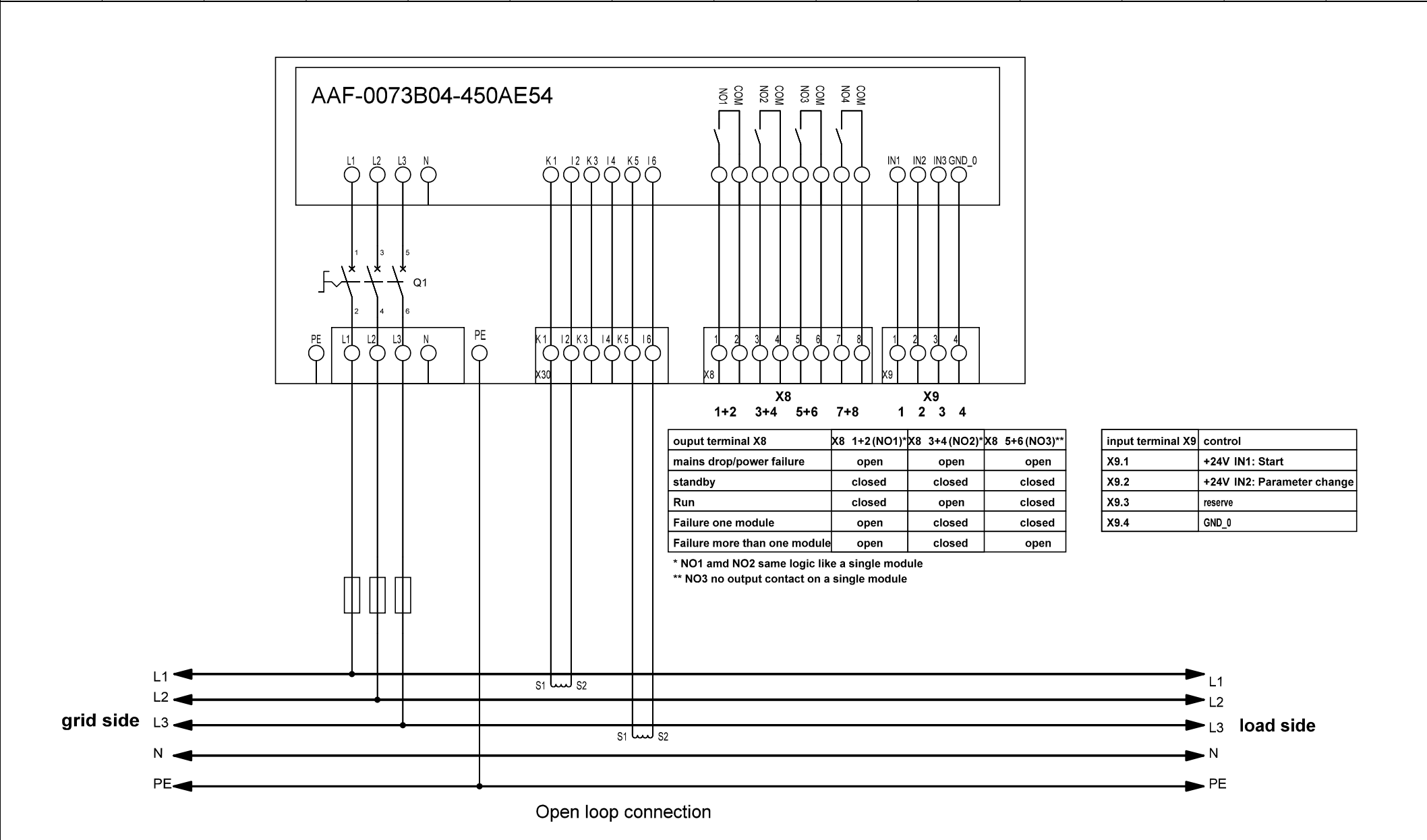


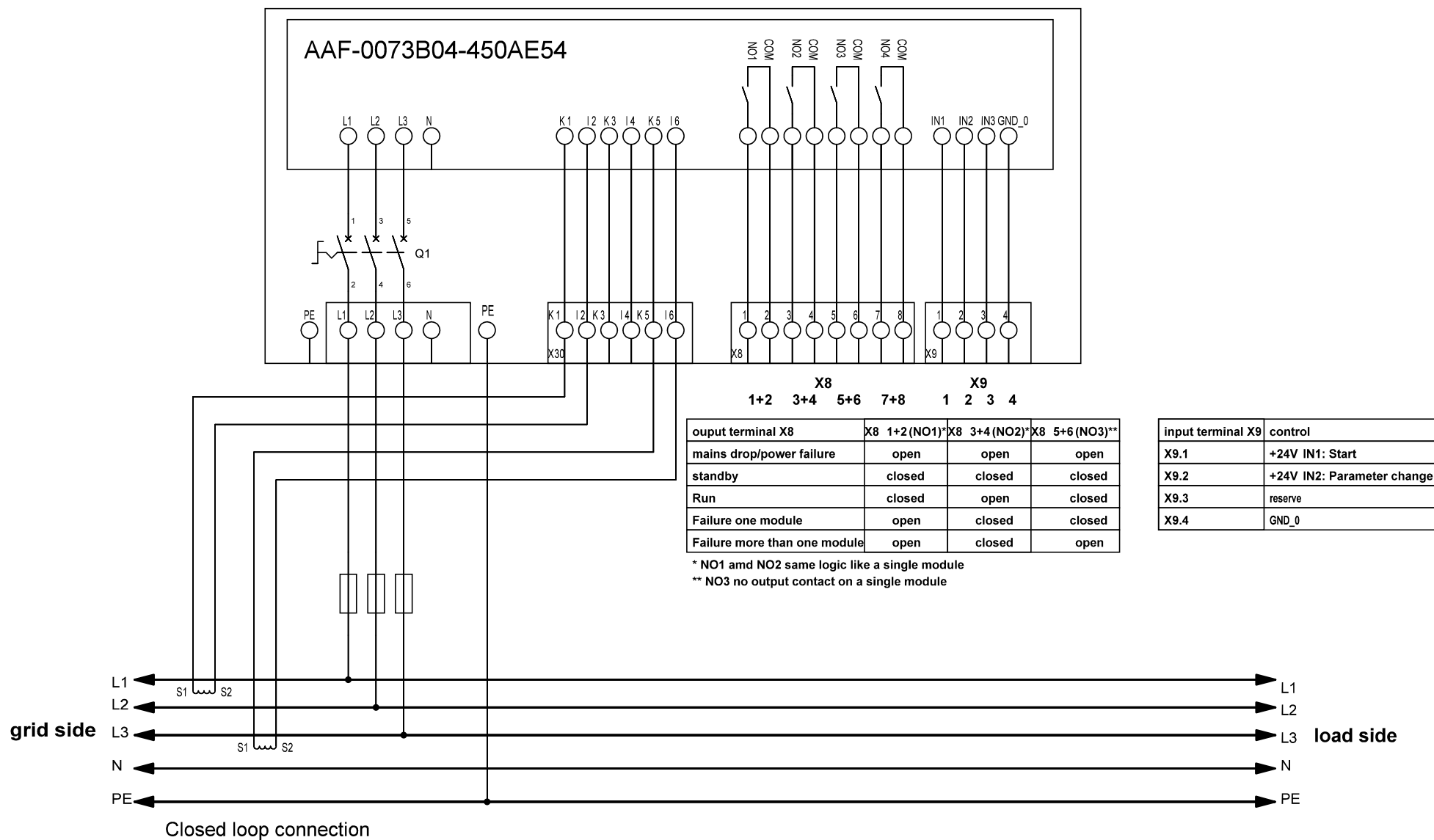
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Position number	Component name	Type designation	comment
1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC
1a	M4	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2	M2	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2a	M5	SK intake EC fan EC 890 m³/h	U=100-250V/AC
3	Q1	Switch disconnecter switch toggle	I=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-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>3 pcs. AAF007-0073B04-150AE20</td><td>3 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-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	3 pcs. AAF007-0073B04-150AE20	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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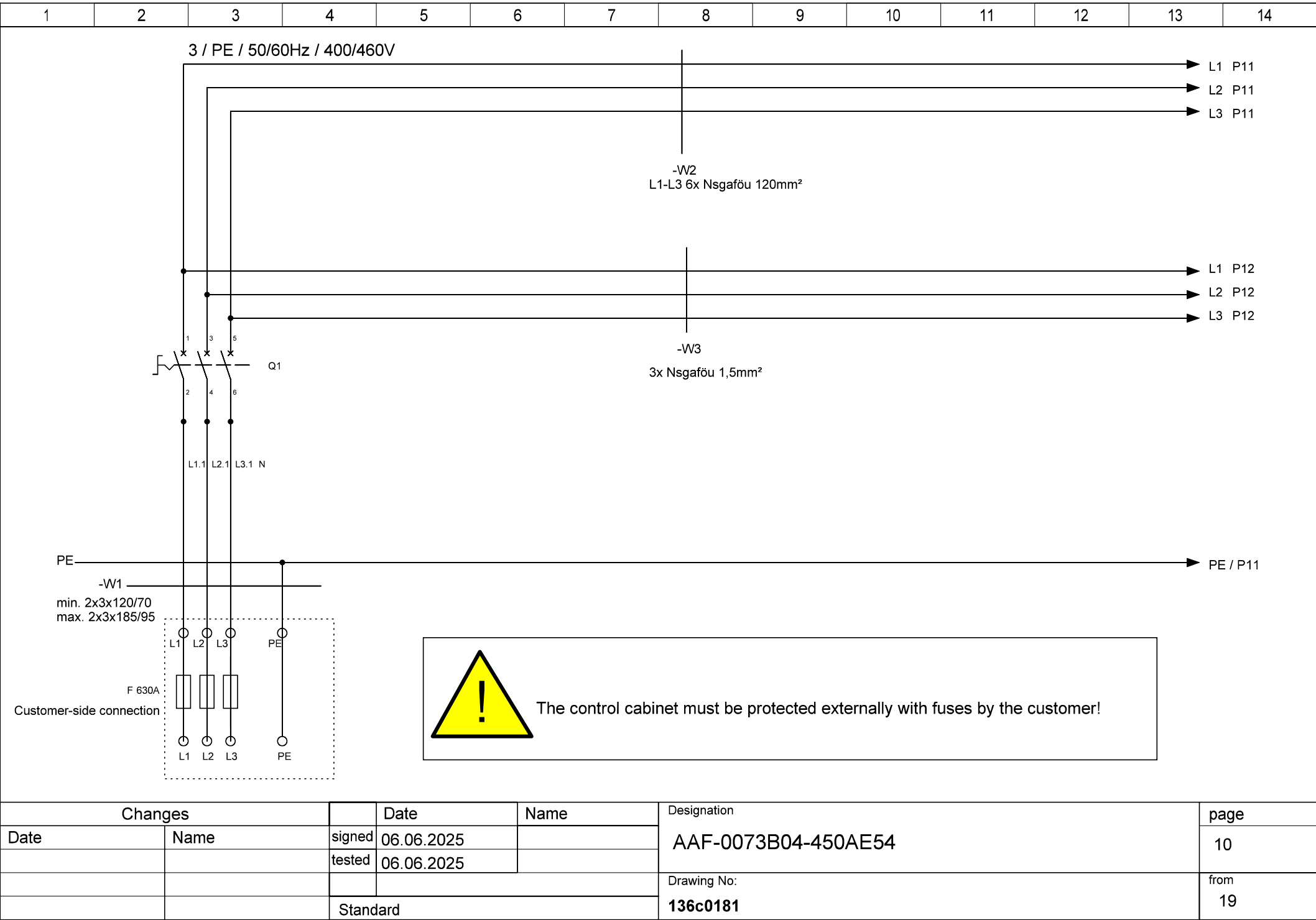
output terminal X8	X8 1+2 (NO1)*	X8 3+4 (NO2)*	X8 5+6 (NO3)**
mains drop/power failure	open	open	open
standby	closed	closed	closed
Run	closed	open	closed
Failure one module	open	closed	closed
Failure more than one module	open	closed	open

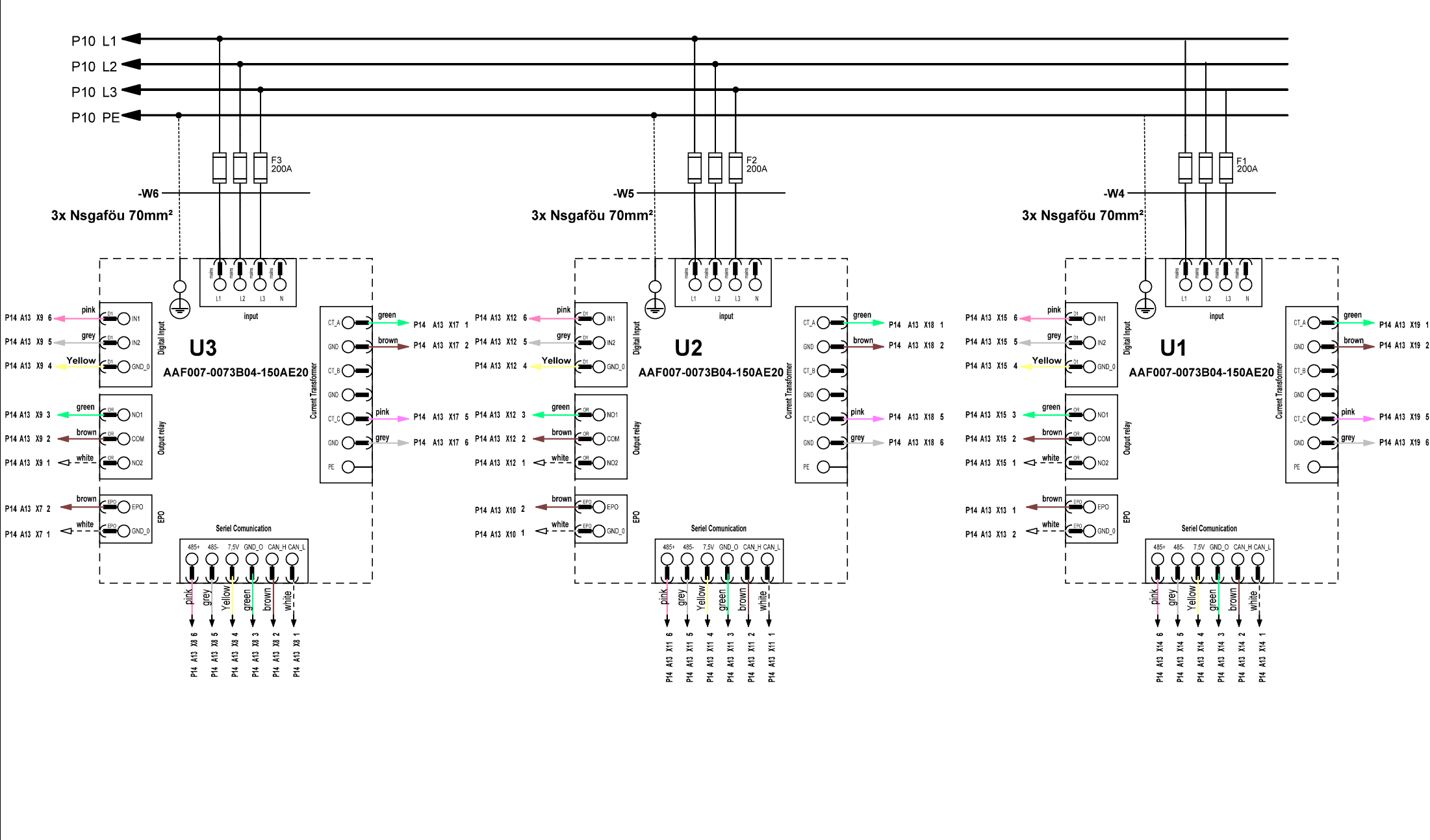
* NO1 amd NO2 same logic like a single module

** NO3 no output contact on a single module

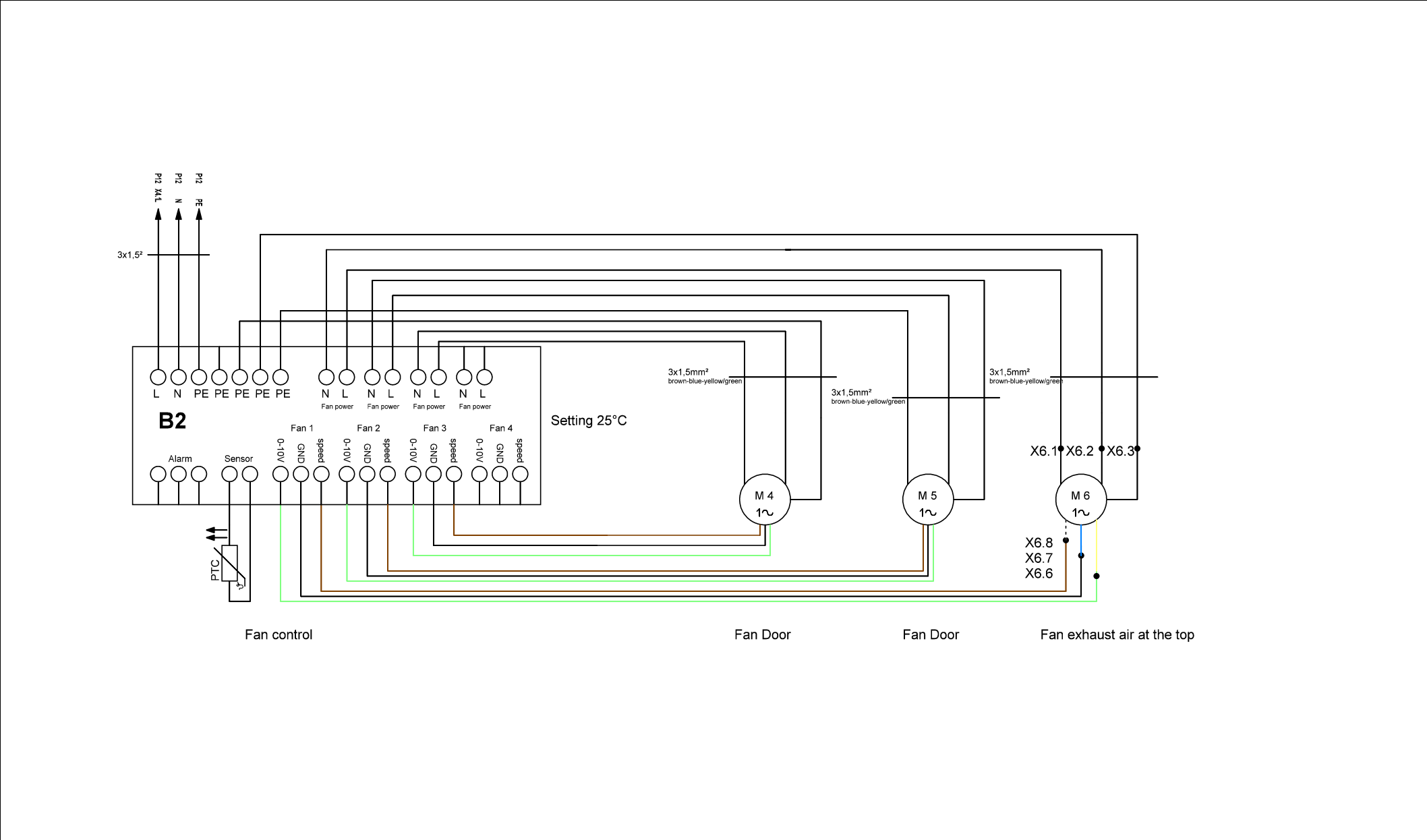
input terminal X9	control
X9.1	+24V IN1: Start
X9.2	+24V IN2: Parameter change
X9.3	reserve
X9.4	GND_0

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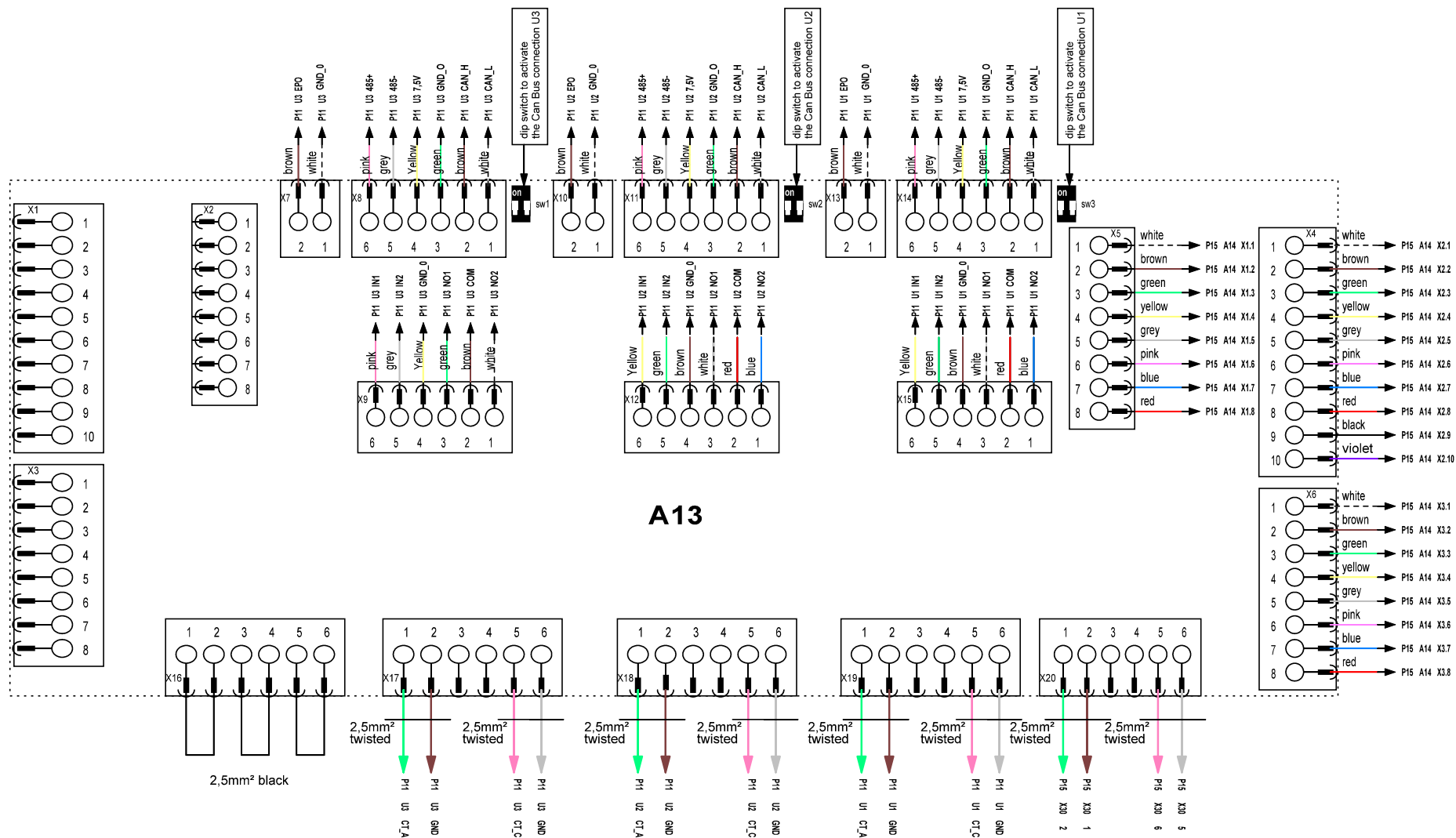




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<table><tr><th colspan="10">Related spareparts and accessories - Part numbers</th><th colspan="4"></th></tr><tr><th colspan="4">accessories</th><th colspan="3">Part numbers</th><th colspan="3">spare</th><th colspan="4">Part numbers</th></tr><tr><td colspan="4">Current transformer 1000A (+VD06)</td><td colspan="3">136b3271</td><td colspan="3">AAF-0073B04-150A0E20</td><td colspan="4">137N1454</td></tr><tr><td colspan="4">Current transformer 2000A (+VD08)</td><td colspan="3">136b3272</td><td colspan="3">Cabinet CT terminal Block</td><td colspan="4">136b4665</td></tr><tr><td colspan="4">HMI (+BF50)</td><td colspan="3">136b4686</td><td colspan="3">Power supply HMI</td><td colspan="4">136b4666</td></tr><tr><td colspan="4">Plint 100mm x 800mm</td><td colspan="3">136b4753</td><td colspan="3">Power supply Control PCB</td><td colspan="4">136b4667</td></tr><tr><td colspan="7" rowspan="8"></td><td colspan="3">cover IEC main switch S6 size 1 630/800A</td><td colspan="4">136b4808</td></tr><tr><td colspan="3">NH01 200A</td><td colspan="4">136b4671</td></tr><tr><td colspan="3">Control board</td><td colspan="4">136b4673</td></tr><tr><td colspan="3">shunting board 3 pcs</td><td colspan="4">136b4675</td></tr><tr><td colspan="3">speed controller for fan</td><td colspan="4">136b4676</td></tr><tr><td colspan="3">door fan</td><td colspan="4">136b4677</td></tr><tr><td colspan="3">fan filter</td><td colspan="4">136b4678</td></tr><tr><td colspan="3">output fan K3G190</td><td colspan="4">136b4901</td></tr></table>														Related spareparts and accessories - Part numbers														accessories				Part numbers			spare			Part numbers				Current transformer 1000A (+VD06)				136b3271			AAF-0073B04-150A0E20			137N1454				Current transformer 2000A (+VD08)				136b3272			Cabinet CT terminal Block			136b4665				HMI (+BF50)				136b4686			Power supply HMI			136b4666				Plint 100mm x 800mm				136b4753			Power supply Control PCB			136b4667											cover IEC main switch S6 size 1 630/800A			136b4808				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							