



Cover page

Product name : AAF-0073B04-250AE54

Operation voltage : 380V-480V / 3~, 50/60Hz
Control voltage : 200-240V AC
Signal voltage : ./.
Filter current : 250A
max. short-circuit current ICC : 50KA
max. ambient temperature : 40°C
protection class : IP 54
weight : 246Kg

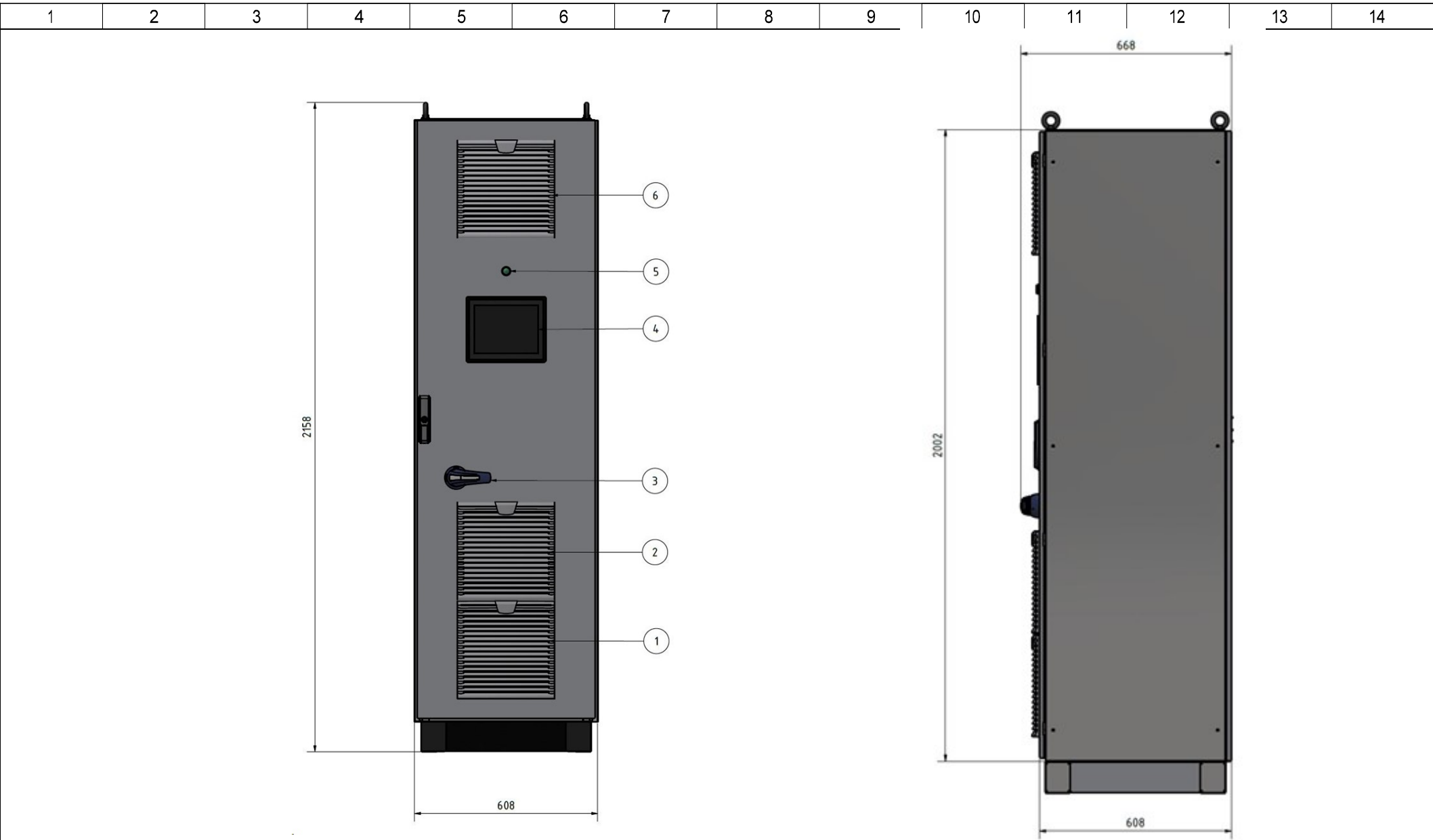
Changes			Date	Name	Designation	page
Date	Name	signed	06.06.2025		AAF-0073B04-250AE54	1
		tested	06.06.2025			
					Drawing No:	from
		Standard			136c0177	18



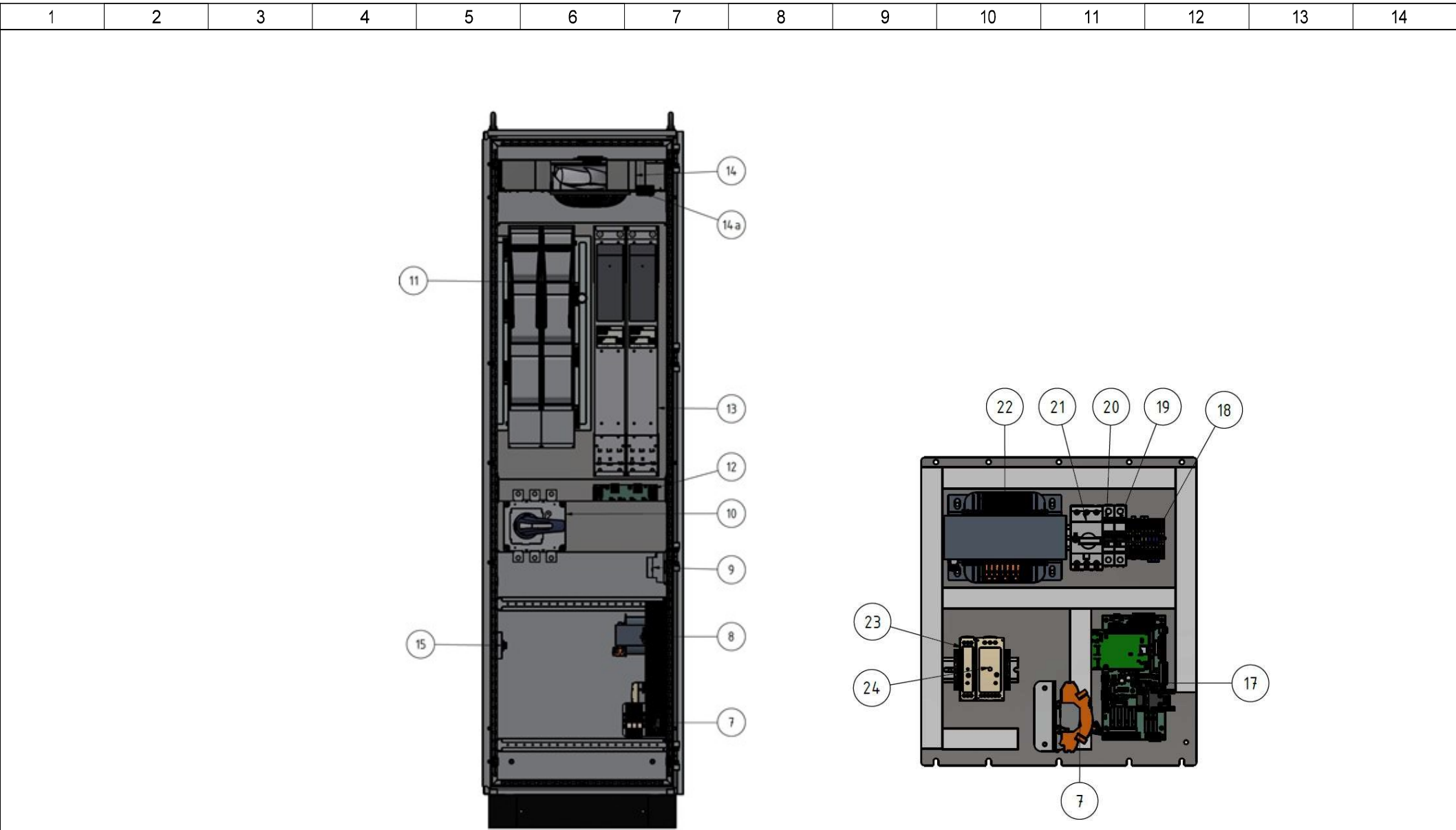
Dangerous voltages can cause electric shock or burns.
Switch off the voltage before working on the device!
Before switching on again, ensure that the device is tightly closed.

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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-U2								06.06.2025			
		12	auxiliary voltage circuit 230V								06.06.2025			
		13	Control patch board A13								06.06.2025			
		14	Control board A14 / costumer terminals								06.06.2025			
		15	Related spareparts and accessories								06.06.2025			
		16	cable overview 1								06.06.2025			
		17	cable overview 2 reserve								06.06.2025			
		18	terminal overview								06.06.2025			
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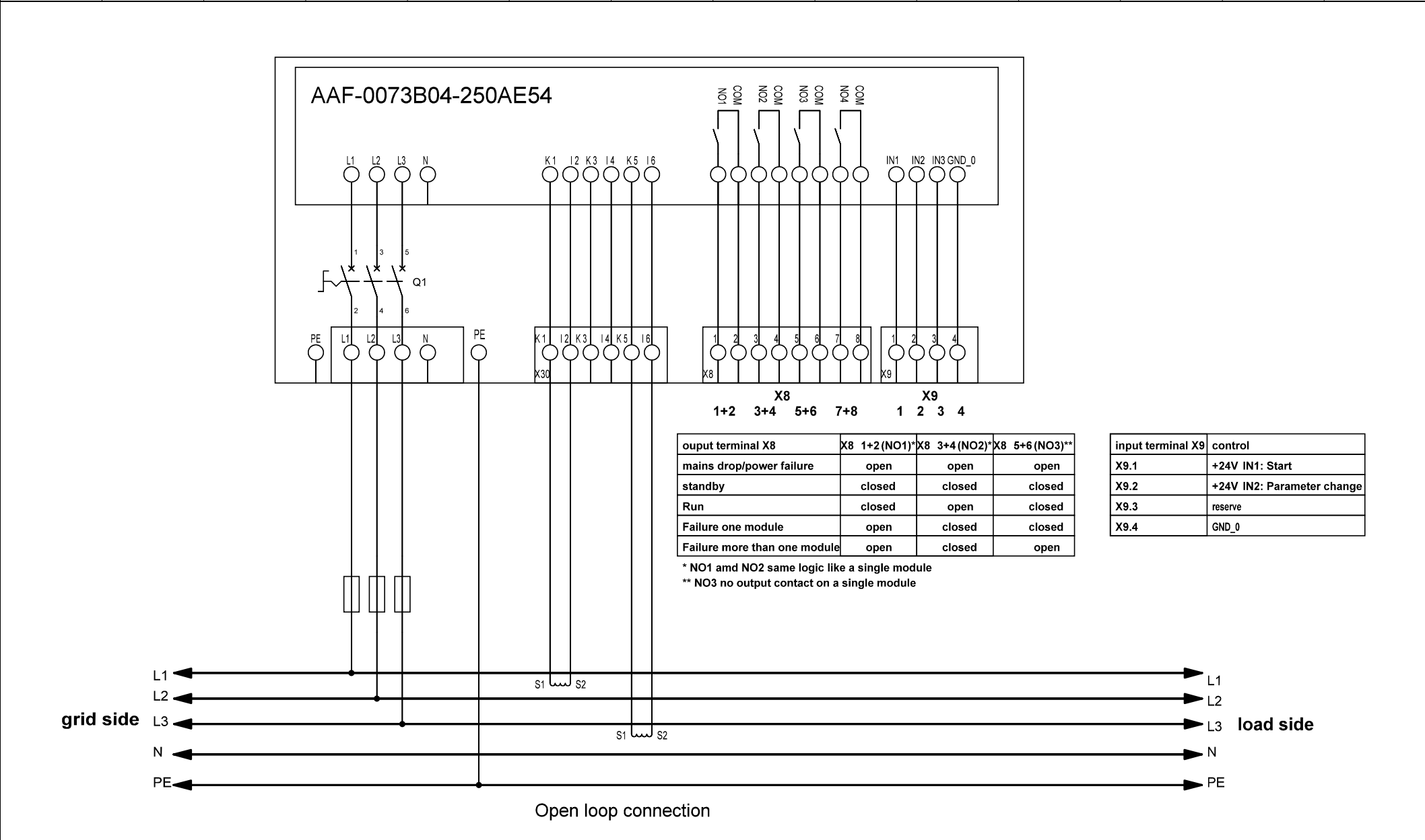


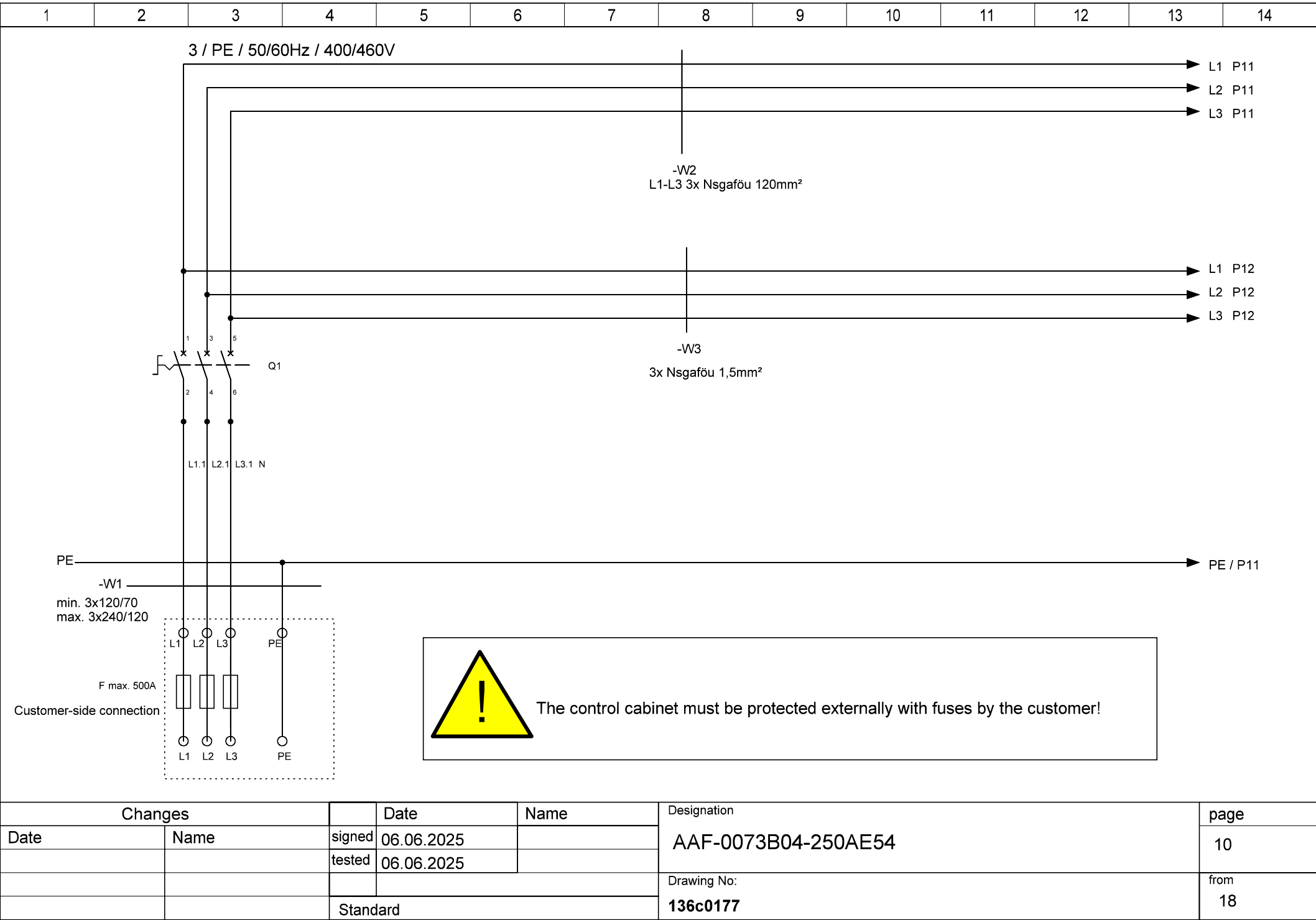
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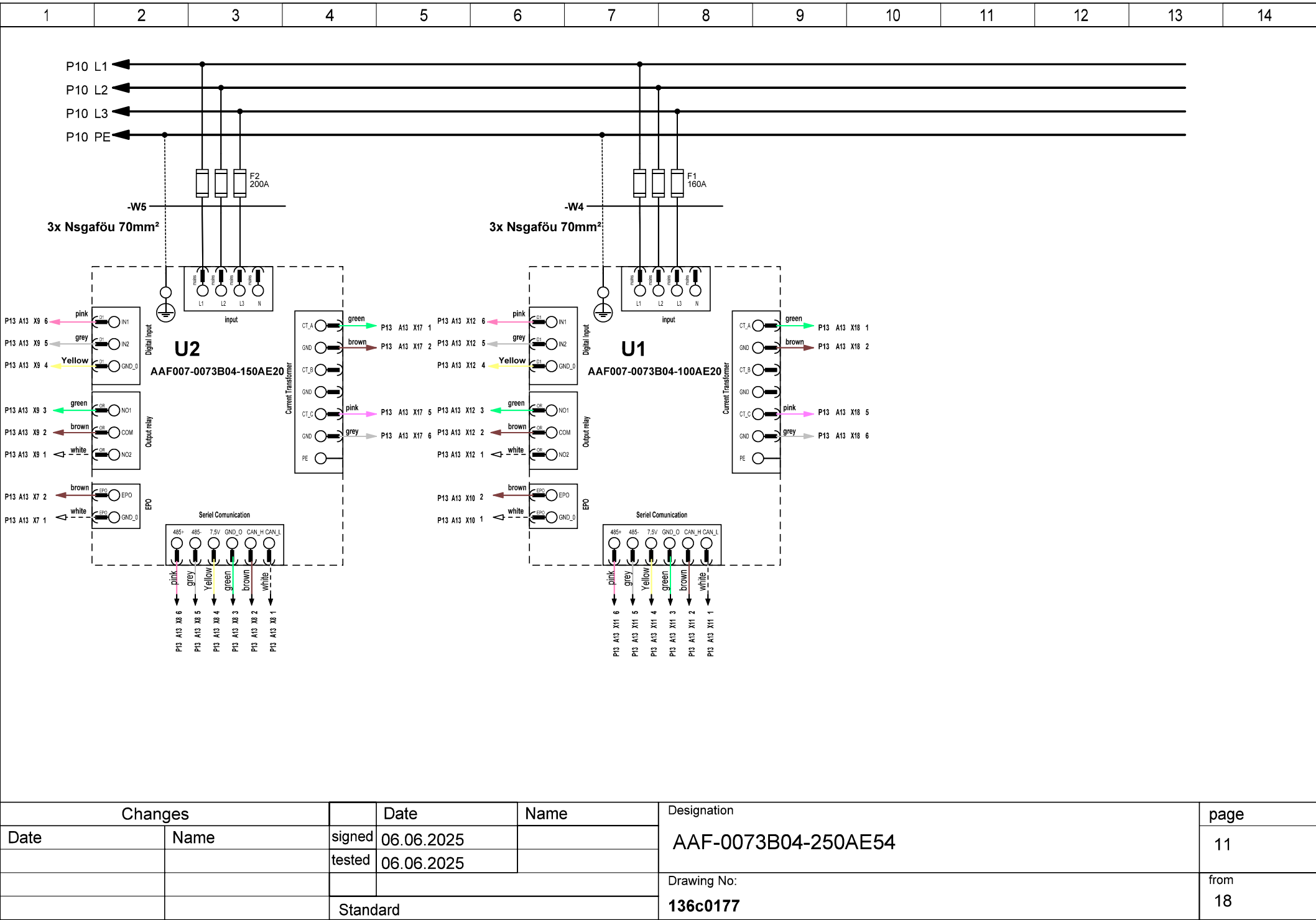
Position number	Component name	Type designation	comment
1	M1	SK intake EC fan EC 890 m³/h	U=100-250V/AC
2	M2	SK intake EC fan EC 890 m³/h	U=100-250V/AC
3	Q1	Switch disconnecter switch toggle	I=400A
4	A20	HMI	10.1 inch capacitive touch
5	H1	signal light	red / green
6	M3	outlet filter	pleated filter

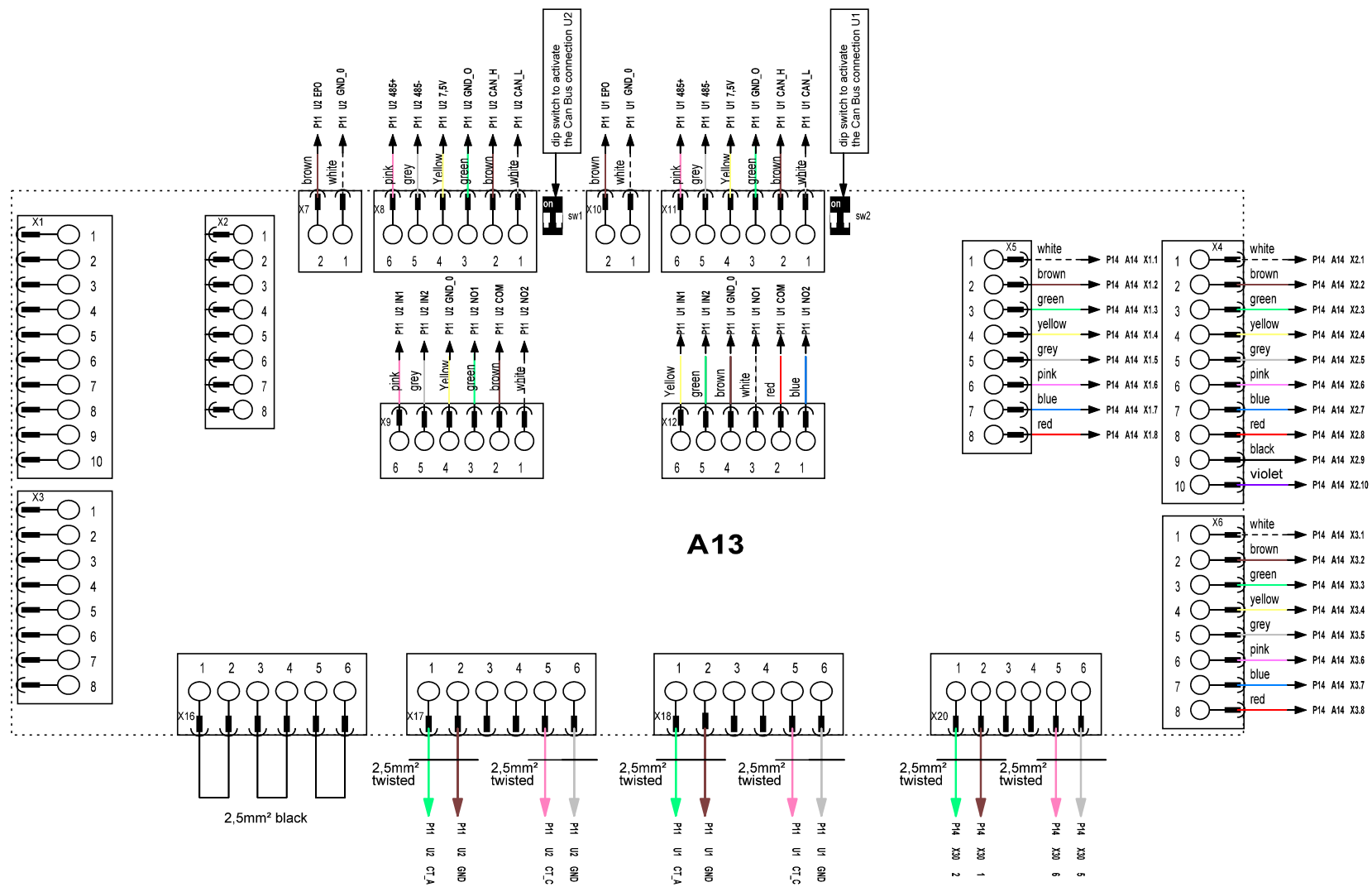
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<table><tr><td>Position number</td><td>Component name</td><td>Type designation</td><td>comment</td></tr><tr><td>7</td><td>X30</td><td>STME 5-CT terminals</td><td>Single-wire conductor: 0,5 ... 10 mm² / 20 ... 8 AWG Fine-wire conductor with wire-end-sleeve 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>U=100-250V/AC</td></tr><tr><td>10</td><td>Q1</td><td>load break swit</td><td>I=400A</td></tr><tr><td>11</td><td>F1-F2</td><td>busbar system with fuses</td><td>F1: 160A/500V F2: 200A</td></tr><tr><td>12</td><td>A13</td><td>patch board for 2pcs. AAF007</td><td>board for the distribution of control signals and current measurement</td></tr><tr><td>13</td><td>U1-U2</td><td>1 pcs. AAF007-0073B04-100AE20 1 pcs. AAF007-0073B04-150AE20</td><td>AHF 007 100A modul AHF 007 150A modul</td></tr><tr><td>14</td><td>M3</td><td>output fan</td><td>U=200-240V/AC</td></tr><tr><td>14 a</td><td>X5</td><td>output fan terminals</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>circuit breaker for Powersupply</td><td>circuit breaker C 2A</td></tr><tr><td>20</td><td>F9</td><td>circuit breaker for fan system</td><td>circuit breaker B 6A</td></tr><tr><td>21</td><td>Q2</td><td>circuit breaker transformer</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><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	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-F2	busbar system with fuses	F1: 160A/500V F2: 200A	12	A13	patch board for 2pcs. AAF007	board for the distribution of control signals and current measurement	13	U1-U2	1 pcs. AAF007-0073B04-100AE20 1 pcs. AAF007-0073B04-150AE20	AHF 007 100A modul AHF 007 150A 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 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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<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 600A (+VD04)</td><td>136b3268</td><td>AAF-0073B04-150A0E20</td><td>137N1454</td></tr><tr><td>Current transformer 1000A (+VD07)</td><td>136b3271</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 600mm</td><td>136b4752</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</td><td>136b4668</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 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 600A (+VD04)	136b3268	AAF-0073B04-150A0E20	137N1454	Current transformer 1000A (+VD07)	136b3271	AAF-0073B04-100A0E20	137U0978	HMI (+BF50)	136b4686	Cabinet CT terminal Block	136b4665	Plint 100mm x 600mm	136b4752	Power supply HMI	136b4666			Power supply Control PCB	136b4667	cover IEC main switch	136b4668	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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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							