# **SIEMENS**

## Data sheet

# 3RT1054-1XB46-0LA2

Contactor AC3: 55 kW / 400 V Coil DC 24 V x (0,7...1,25) PLC input DC 24...110 V auxiliary contacts: 2 NO + 2 NC 3-pole Size S6 with box terminals coil terminals: screw type screw terminal



Figure similar

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Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S6
Product extension	
Auxiliary switch	Yes
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	690 V
60947-1	
Protection class IP	
• on the front	IP00; IP20 on the front with cover / box terminal
• of the terminal	IP00
Shock resistance	
<ul> <li>for railway applications acc. to DIN EN 61373</li> </ul>	Category 1, Class B
Shock resistance at rectangular impulse	

Installation altitude at height above sea level       2 000 m         Ambient temperature       40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         Main circuit       3         Number of poles for main current circuit       3         Number of NO contacts for main contacts       3         Operating voltage       0         • at AC-3 rated value maximum       1 000 V         Operating current       • at AC-1 rated value maximum         • at AC-1 rated value maximum       160 A         • at AC-1       - up to 690 V at ambient temperature 40 °C rated value         • at AC-1       - up to 690 V at ambient temperature 60 °C rated value         • at AC-2       at 400 V rated value         - up to 690 V at ambient temperature 60 °C rated value       140 A         - at 00 V rated value       115 A         - at 400 V rated value       115 A         - at 600 V rated value       115 A         - at 600 °C minimum permissible       50 mm²         - at 60 °C minimum permissible       70 mm²         • at 40 °C minimum permissible       70 mm²         • at 400 °C minimum permissible       70 mm²         • at 400 °C rated value       54 A	● at DC	8,5g / 5 ms, 4,2g / 10 ms
Mechanical service life (ewitching cycles)         10 000 000           • of contactor typical         10 000 000           • of the contactor with added electronics- compatible auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           Installation altitude at height above sea level • naximum         2 000 m           Ambient temperature • during operation         - 40 +70 °C           • during storage         - 55 +80 °C           Mumber of No contacts for main current circuit         3           Number of No contacts for main contacts         3           Number of No contacts for main contacts         3           Operating voltage         -           • at AC-1 at 400 V         -           - up to 690 V at ambient temperature 40 °C rated value         160 A           - up to 690 V at ambient temperature 60 °C rated value         140 A           - up to 690 V rated value         115 A           - at 400 V rated value         115 A           - at 400 V rated value         15 A           - at 600 V rated value         15 A           - a	Shock resistance with sine pulse	
<ul> <li>e of contactor typical</li> <li>10 000 000</li> <li>of the contactor with added electronics: compatible auxiliary switch block typical</li> <li>000 000</li> <li>of the contactor with added auxiliary switch block typical</li> <li>0000 000</li> <li>Ambient conditions</li> <li>Installation altitude at helpft above sea level</li> <li>maximum</li> <li>2 000 m</li> <li>Ambient temperature</li> <li>40 +70 °C</li> <li>during operation</li> <li>40 +70 °C</li> <li>during operation circuit</li> <li>3</li> <li>Number of NC contacts for main contacts</li> <li>0</li> <li>Operating current</li> <li>at AC-1 at 400 V</li> <li>at AC-14</li> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> <li>up to 690 V at ambient temperature 60 °C</li> <li>rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rationinum permissible</li> <li>at 40 °C rationi</li></ul>	● at DC	13,4g / 5 ms, 6,5g / 10 ms
• of the contactor with added electronics- compatible auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         Ambient conditions       Installation altitude at height above see level       Installation altitude at height above see level         • maximum       2 000 m         Ambient temperature       - 40 +70 °C         • during operation       - 40 +70 °C         • during storage       - 55 +80 °C         Mumber of poles for main current circuit       3         Number of NC contacts for main contacts       0         Operating voltage       - 3         • at AC-3 rated value maximum       1000 V         Operating current       - 40 °C         • at AC-1 at 400 V       - 40 °C         • at AC-1 at 400 V       - 40 °C         • at AC-1 at 400 V       - 40 °C         • at AC-1 at 400 V       - 40 °C         • at AC-3 rated value       160 A         • at AC-3 rated value       15 A         • at AC-3 rated value       15 A         • at 600 V rated value       15 A         • at 600 V rated value       15 A         • at 600 V rated value       15 A         • at 60 °C minimum permissible       50 mm² <t< td=""><td>Mechanical service life (switching cycles)</td><td></td></t<>	Mechanical service life (switching cycles)	
compatible auxiliary switch block typical10 000 000of the contactor with added auxiliary switch block typical10 000 000Ambient conditions2 000 mAmbient temperature2 000 m• during operation40 +70 °C• during storage-55 +80 °CMumber of poles for main current circuit3Number of NC contacts for main contacts0Operating voltage1000 V• at AC-1 at 400 V1000 V• at AC-1 at 400 V160 A• at AC-1160 A• at AC-1150 A• at AC-2 at 400 V rated value115 A• at 400 V rated value100 R• at 400 V rated value100 R• at 400 V rated value100 A• at 400 V rated value115 A• at 400 V rated value115 A• at 400 V rated value115 A• at 400 V rated value100 R• at 400 V rate	<ul> <li>of contactor typical</li> </ul>	10 000 000
block typical  Anbient conditions  Installation altitude at height above sea level  aximum  Ambient temperature  during operation  during operation  during storage  Anbient temperature  during operation  during of poles for main contacts  Number of NC contacts for main contacts  Anbient temperature 40 °C rated value  dat AC-3 rated value maximum  during operation  dat AC-1  dat AC-1 at 400 V  durated value  dat AC-1  dat AC-2 at 400 V rated value  dat AC-3  dat AC-3  dat AC-3  dat AC-4  dat AC-3  dat AC-4  dat AC-1  dat AC-3  dat AC-3  dat AC-4  dat AC-3  dat AC-4  dat AC-4		5 000 000
Installation altitude at height above sea level       2 000 m         Ambient temperature       40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         Main circuit       3         Number of poles for main current circuit       3         Number of NO contacts for main contacts       3         Operating voltage       0         • at AC-3 rated value maximum       1 000 V         Operating current       • at AC-1 rated value maximum         • at AC-1 rated value maximum       160 A         • at AC-1       - up to 690 V at ambient temperature 40 °C rated value         • at AC-1       - up to 690 V at ambient temperature 60 °C rated value         • at AC-2       at 400 V rated value         - up to 690 V at ambient temperature 60 °C rated value       140 A         - at 00 V rated value       115 A         - at 400 V rated value       115 A         - at 600 V rated value       115 A         - at 600 V rated value       115 A         - at 60 °C minimum permissible       50 mm²         • at 40 °C minimum permissible       70 mm²         • at 40 °C minimum permissible       70 mm²         • at 400 V rated value       54 A	-	10 000 000
• maximum2 000 mAmbient temperature-• during operation-40 +70 °C• during storage-55 +80 °CMumber of poles for main current circuit3Number of NO contacts for main contacts0Operating voltage0• at AC-3 rated value maximum1 000 VOperating current-• at AC-1 at 400 V at ambient temperature 40 °C rated value160 A• at AC-1 up to 690 V at ambient temperature 40 °C rated value140 A• at AC-2 at 400 V rated value115 A- at 400 V rated value115 A- at 600 V rated value115 A• at 60 °C minimum permissible50 mm²- at 60 °C minimum permissible70 mm²• at 0°C minimum permissible50 mm²• at 0°C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 V rated value50 mm²• at 40 °C rated value50 mm²	Ambient conditions	
Amblent temperature-40 +70 °C• during operation-40 +70 °C• during storage-55 +80 °CMamber of poles for main current circuit3Number of NO contacts for main contacts3Number of NC contacts for main contacts0Operating voltage1000 V• at AC-3 rated value maximum1000 VOperating current160 A• at AC-1 at 400 V160 A• at AC-11000 V- up to 690 V at ambient temperature 40 °C rated value160 A• at AC-2 at 400 V rated value115 A• at AC-3 up to 690 V at ambient temperature 60 °C140 A• at AC-3 up to 690 V at ambient temperature 60 °C115 A- at afol V rated value115 A• at AC-3 at 600 V rated value115 A- at 600 V rated value100 V- at 600 V rated value105 A- at 600 V rated value105 A- at 600 V rated value50 mm²- at 600 V rated value50 mm²- at 600 °C minimum permissible50 mm²- at 600 °C minimum permissible50 mm²- at 400 V rated value50 mm²- at 400 V rated value50 mm²- at 60 °C minimum permissible50 mm²- at 400 °C minimum permissible50 mm²- at 400 V rated value50 mm²- at 400 V rated value <t< td=""><td>Installation altitude at height above sea level</td><td></td></t<>	Installation altitude at height above sea level	
• during operation-40 +70 °C• during storage-55 +80 °CMain circuit3Number of poles for main current circuit3Number of NO contacts for main contacts3Number of NC contacts for main contacts0Operating voltage1000 V• at AC-3 rated value maximum1000 VOperating current160 A• at AC-1 at 400 V160 A• at AC-1115 A• at AC-2 at 400 V rated value115 A• at AC-3 at abule value115 A• at AC-3115 A• at AC-3115 A• at AC-3115 A• at AC-3115 A• at AC-150 mm²• at 400 V rated value115 A• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 °C rated value50 mm²	• maximum	2 000 m
• during storage-55 +80 °CMaine of poles for main current circuit3Number of NC contacts for main contacts3Number of NC contacts for main contacts0Operating voltage • at AC-3 rated value maximum1 000 VOperating current • at AC-1 at 400 V - at ambient temperature 40 °C rated value160 A• at AC-1 rated value - up to 690 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value140 A• at AC-2 at 400 V rated value - at AC-3 - at 400 V rated value115 A• at AC-3 - at 690 V rated value - at 680 V rated value115 A• at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible50 mm²• at 40 °C minimum permissible • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 40 °C minimum permissible50 mm²• at 400 V rated value • at 400 V rated value50 mm²	Ambient temperature	
Main circuit       3         Number of No contacts for main current circuit       3         Number of NC contacts for main contacts       0         Operating voltage       0         • at AC-3 rated value maximum       1 000 V         Operating current       • at AC-1 at 400 V         - at ambient temperature 40 °C rated value       160 A         • at AC-1       - up to 690 V at ambient temperature 40 °C         - up to 690 V at ambient temperature 60 °C       140 A         - at AC-2 at 400 V rated value       115 A         - at AC-3       - at 400 V rated value         - at AC-3       - at 400 V rated value         - at 690 V rated value       115 A         - at 600 V rated value       10 A         - at 600 V rated value       10 A         - at 60 °C minimum permissible       50 mm²         - at 40 °C minimum permissible       70 mm²         Operating current for approx. 200000 operating cycles at AC-4       54 A	<ul> <li>during operation</li> </ul>	
Number of poles for main current circuit       3         Number of NO contacts for main contacts       3         Number of NC contacts for main contacts       0         Operating voltage       1         • at AC-3 rated value maximum       1         Operating current       1         • at AC-1 at 400 V       160 A         - at ambient temperature 40 °C rated value       160 A         • at AC-1       140 A         - up to 690 V at ambient temperature 60 °C rated value       140 A         - up to 690 V at ambient temperature 60 °C rated value       140 A         - at AC-2 at 400 V rated value       115 A         - at AC-3       115 A         - at AC-3 value       115 A         - at 600 V rated value       100 mm²         - at 400 V rated value       100 mm²         - at 400 V rated value       100 mm²         - at 400 V rated value       50 mm²         - at 40 °C minimum permissible       50 mm² <td>• during storage</td> <td>-55 +80 °C</td>	• during storage	-55 +80 °C
Number of NC contacts for main contacts3Number of NC contacts for main contacts0Operating voltage • at AC-3 rated value maximum1000 VOperating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value160 A• at AC-1 - up to 690 V at ambient temperature 40 °C rated value160 A• at AC-2 rated value115 A• at AC-3 • at AC-3 • at 400 V rated value115 A• at AC-3 • at 600 V rated value115 A• at AC-3 • at 400 V rated value115 A• at AC-3 • at 400 V rated value115 A• at AC-4 • at 400 V rated value50 mm²• at AC-1 • at 600 V rated value50 mm²	Main circuit	
Number of NC contacts for main contacts0Operating voltage • at AC-3 rated value maximum1000 VOperating current • at AC-1 at 400 V — at ambient temperature 40 °C rated value160 A• at AC-1 • up to 690 V at ambient temperature 40 °C rated value160 A- up to 690 V at ambient temperature 60 °C rated value115 A- up to 690 V at ambient temperature 60 °C rated value115 A- up to 690 V at ambient temperature 60 °C rated value115 A- up to 690 V at ambient temperature 60 °C rated value115 A- at AC-2 at 400 V rated value115 A- at AC-3 — at 400 V rated value115 A- at 600 °C minimum permissible50 mm²- at 600 °C minimum permissible50 mm²- at 400 °C minimum permissible50 m²- at 400 °C minimum permissible54 A	Number of poles for main current circuit	3
Operating voltage• at AC-3 rated value maximum1 000 VOperating current-• at AC-1 at 400 V160 A- at ambient temperature 40 °C rated value160 A• at AC-1 up to 690 V at ambient temperature 40 °C160 A- up to 690 V at ambient temperature 60 °C140 A- at AC-2 at 400 V rated value115 A- at AC-3 at AC-3 at 600 V rated value115 A- at 600 V rated value50 mm²- at 400 V rated value50 mm²- at 400 V rated value50 mm²	Number of NO contacts for main contacts	3
• at AC-3 rated value maximum1000 VOperating current • at AC-1 at 400 V - at ambient temperature 40 °C rated value160 A• at AC-1160 A• at AC-1160 A- up to 690 V at ambient temperature 40 °C rated value160 A- up to 690 V at ambient temperature 60 °C rated value140 A• at AC-2 at 400 V rated value115 A• at AC-3115 A- at 600 V rated value115 A• at AC-3115 A- at 600 V rated value115 A• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 V rated value50 mm²	Number of NC contacts for main contacts	0
Operating current       • at AC-1 at 400 V         - at ambient temperature 40 °C rated value       160 A         • at AC-1       -         - up to 690 V at ambient temperature 40 °C       160 A         rated value       160 A         - up to 690 V at ambient temperature 60 °C       140 A         rated value       115 A         - up to 690 V rated value       115 A         - at AC-3       -         - at 400 V rated value       115 A         - at 690 V rated value       115 A         - at 600 °C minimum permissible       50 mm²         • at 40 °C minimum permissible       50 mm²         • at 40 °C minimum permissible       70 mm²         • at 400 °C rated value       54 A	Operating voltage	
<ul> <li>at AC-1 at 400 V</li> <li>at ambient temperature 40 °C rated value</li> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C</li> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C</li> <li>f60 A</li> <li>rated value</li> <li>up to 690 V at ambient temperature 60 °C</li> <li>140 A</li> <li>rated value</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>115 A</li> <li>at 60 °C minimum permissible</li> <li>at 60 °C minimum permissible</li> <li>at 40 °C minimum permissible</li> <li>50 mm<sup>2</sup></li> <li>at 40 °C minimum permissible</li> <li>50 mm<sup>2</sup></li> <li>at 400 V rated value</li> <li>50 mm<sup>2</sup></li> </ul>	<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
- at ambient temperature 40 °C rated value160 A• at AC-1 up to 690 V at ambient temperature 40 °C160 Arated value160 A- up to 690 V at ambient temperature 60 °C140 A- up to 690 V at ambient temperature 60 °C140 A• at AC-2 at 400 V rated value115 A• at AC-3 at 400 V rated value115 A- at 690 V rated value115 A- at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 °C minimum permissible50 mm²• at 400 °C minimum permissible50 mm²• at 400 °C minimum permissible54 A	Operating current	
<ul> <li>at AC-1         <ul> <li>up to 690 V at ambient temperature 40 °C</li> <li>rated value</li> <li>up to 690 V at ambient temperature 60 °C</li> <li>tat AC-2 at 400 V rated value</li> <li>at AC-3                 <ul> <li>at AC-3</li> <li>at 400 V rated value</li></ul></li></ul></li></ul>	• at AC-1 at 400 V	
- up to 690 V at ambient temperature 40 °C rated value160 A- up to 690 V at ambient temperature 60 °C rated value140 A- up to 690 V at ambient temperature 60 °C140 A- at AC-2 at 400 V rated value115 A- at 400 V rated value115 A- at 500 V rated value115 A- at 690 V rated value50 mm²- at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 400 V rated value54 A	— at ambient temperature 40 °C rated value	160 A
rated value140 A- up to 690 V at ambient temperature 60 °C140 A- at AC-2 at 400 V rated value115 A- at AC-3115 A- at 400 V rated value115 A- at 690 V rated value115 A- at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 20000 operating cycles at AC-454 A	• at AC-1	
rated value • at AC-2 at 400 V rated value • at AC-3 - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 600 V rated value • at 60 °C minimum permissible • at 40 °C minimum permissible • at 400 V rated value • at 400 V rated value • at 400 V rated value		160 A
<ul> <li>at AC-3         <ul> <li>at AC-3</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>115 A</li> <li>at 690 V rated value</li> <li>115 A</li> </ul> </li> <li>connectable conductor cross-section in main circuit at AC-1</li> <li>at 60 °C minimum permissible</li> <li>50 mm<sup>2</sup></li> <li>70 mm<sup>2</sup></li> <li>Operating current for approx. 200000 operating cycles at AC-4             <ul> <li>at 400 V rated value</li> <li>54 A</li> </ul> </li> </ul>		140 A
- at 400 V rated value115 A- at 500 V rated value115 A- at 690 V rated value115 AConnectable conductor cross-section in main circuit at AC-1-• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²• at 40 °C minimum permissible54 A	• at AC-2 at 400 V rated value	115 A
- at 500 V rated value115 A- at 690 V rated value115 AConnectable conductor cross-section in main circuit at AC-1115 A• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²• at 40 °C minimum permissible50 A• at 40 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²• at 40 °C minimum permissible50 mm²	• at AC-3	
at 690 V rated value115 AConnectable conductor cross-section in main circuit at AC-150 mm²• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 200000 operating cycles at AC-454 A	— at 400 V rated value	115 A
Connectable conductor cross-section in main circuit at AC-1       50 mm²         • at 60 °C minimum permissible       50 mm²         • at 40 °C minimum permissible       70 mm²         Operating current for approx. 200000 operating cycles at AC-4       54 A	— at 500 V rated value	115 A
at AC-1-• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 200000 operating cycles at AC-4-• at 400 V rated value54 A	— at 690 V rated value	115 A
• at 60 °C minimum permissible50 mm²• at 40 °C minimum permissible70 mm²Operating current for approx. 200000 operating cycles at AC-454 A• at 400 V rated value54 A	Connectable conductor cross-section in main circuit	
• at 40 °C minimum permissible 70 mm <sup>2</sup> Operating current for approx. 200000 operating     cycles at AC-4      • at 400 V rated value 54 A	at AC-1	
Operating current for approx. 200000 operating       cycles at AC-4       • at 400 V rated value       54 A	• at 60 °C minimum permissible	50 mm²
• at 400 V rated value 54 A	-	70 mm <sup>2</sup>
• at 400 V rated value 54 A		
	-	54 A
at 690 V rated value     48 A	• at 690 V rated value	48 A

Operating current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	53 kW

	— at 400 V rated value	92 kW
action of valid 0° Crated value159 kW• at AC-2 at 400 V rated value55 kW• at AC-3 at 230 V rated value37 kW- at 400 V rated value35 kW- at 400 V rated value75 kW- at 690 V rated value110 kWOperating power for approx. 20000 operating cycle at AC-4110 kWOperating power for approx. 20000 operating cycle at AC-429 kW• at 400 V rated value29 kW• at 400 V rated value29 kW• at 400 V rated value110 kWOperating power for approx. 20000 operating cycle at AC-47• at 400 V rated value29 kW• at 600 V rated value100 t/h• at 600 V rated value1000 t/h• at 600 V rated value1000 t/h• at 600 V rated value800 t/h• at 600 V rated value1000 t/h• at 600 K maximum800 t/h• at 600 th maximum1000 t/h• at 600 th maximum1000 t/h• at 600 th maximum400 t/h• at 600 th maximum500 t/s• at 600 th control supply voltage0• at 600 the control supply voltage rated value of magnet coll at DC24 VOperating arage factor control supply voltage rated value of magnet coll at DC300 W• intial value125Design of the surge suppressorwith varistorClosing day value of magnet coll at DC32 kW• closing day value of magnet coll at DC38 W• closing day value of magnet coll at DC38 W <th>— at 400 V at 60 °C rated value</th> <th>92 kW</th>	— at 400 V at 60 °C rated value	92 kW
at AC-2 at 400 V rated value       5k W         • at 230 V rated value       37 kW         - at 230 V rated value       37 kW         - at 400 V rated value       5k W         - at 600 V rated value       10 kW         Operating power for approx. 200000 operating cycles at AC-4       10 kW         Operating power for approx. 200000 operating cycles at AC-4       29 kW         • at 400 V rated value       48 kW         Thermal short-time current limited to 10 s       1.1 kA         Power loss [M] at AC-3 at 400 V for rated value of the operating current per conductor       7W         No-load switching frequency       1000 1/h         • at AC-3 maximum       400 1/h         • at AC-3 maximum       1000 1/h         • at AC-4 maximum       400 1/h         • at AC-3 maximum       500 1/s         • at AC-4 maximum       500 1/s         • at AC-3 maximum       500 1/s         • at DC-5 maximum       500 1/s         • at AC-4 maximum       500 1/s         • at AC-4 maximum       500 1/s         • at AC-4 maximum       500 1/s         • at AC-5	— at 690 V rated value	159 kW
• at AC-3       -         - at 230 V rated value       37 kW         - at 300 V rated value       55 kW         - at 500 V rated value       75 kW         - at 600 V rated value       110 kW         Operating power for approx. 20000 operating cycles at AC-4       110 kW         • at 600 V rated value       29 kW         • at 600 V rated value       29 kW         • at 600 V rated value       29 kW         • at 600 V rated value       11 kA         Power loss [W] at AC-3 at 400 V for rated value of the operating governet per conductor       7 W         No-load switching frequency       1 to 00 1/h         • at AC-1 maximum       800 1/h         • at AC-2 maximum       1000 1/h         • at AC-3 maximum       1000 1/h         • at AC-4 maximum       1000 1/h         • at DC-4 maximum       500 1/s         • at DC-5 maximum       500 1/s         • at DC-4 maximum       600 1/s         • at DC-5 maximum       500 1/s         •	— at 690 V at 60 °C rated value	159 kW
- at 230 V rated value37 kW- at 500 V rated value55 kW- at 500 V rated value75 kW- at 690 V rated value110 kWOperating power for approx. 20000 operating cycles4- at 400 V rated value28 kW- at 400 V rated value48 kW- at 690 V rated value48 kW- at 690 V rated value10 kD- at 690 V rated value100 rated value- at 690 V rated value1000 r/h- at DC1000 r/h- at DC1000 r/h- at AC-1 maximum800 r/h- at AC-2 maximum1000 r/h- at AC-3 maximum1000 r/h- at AC-3 maximum1000 r/h- at DC1/h- at DC0 rated value- at DC0 rated value- at AC-4 maximum1000 r/h- at AC-3 maximum500 r/h- at DC - 1 maximum500 r/h- at Corl rolsupply voltage rated24 v- at d value0.7- rated v	• at AC-2 at 400 V rated value	55 kW
and a dot visueSKW- at 400 V rated value55 KW- at 500 V rated value75 kW- at 690 V rated value110 kWOperating power for approx. 200000 operating cycles48 kW- at 600 V rated value29 kW• at 600 V rated value48 kWThermal short-time current limited to 10 a1.1 kAPower loss [W] at AC-3 at 400 V for rated value of the operating grouper per conductor70No-load switching frequency70• at DC1000 1/h• at DC1000 1/hOperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum1000 1/h• at AC-3 maximum1000 1/h• at AC-4 maximum1000 1/h• at AC-4 maximum500 1/s• at DC1000 1/h• at DC-1 maximum600 1/s• at DC-1 maximum500 1/s• at DC-3 maximum500 1/s• at DC-3 maximum500 1/s• at DC-3 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• at do laide Or24 VOperating range fort control supply voltage rated value0.7• at do laide DC32 W• at do value1.25Design of the surge suppressorwith variatorClosing delay32 W• at DC32 WHolding power of magnet coil at DC32 W <t< th=""><th>• at AC-3</th><th></th></t<>	• at AC-3	
Child Status75 kW- at 690 V rated value110 kWOperating power for approx. 200000 operating cycles at AC-429 kW- at 400 V rated value29 kW- at 400 V rated value48 kWThermal short-time current limited to 10 s1.1 kAPower loss [M] at AC-3 at 400 V for rated value of the operating current per conductor7 WNo-load switching frequency7 W- at AC-1 maximum800 1/h- at AC-2 maximum1000 1/h- at AC-3 maximum1000 1/h- at AC-3 maximum1000 1/h- at AC-3 maximum1000 1/h- at AC-4 maximum500 1/s- at DC1000 1/h- at AC-4 maximum500 1/s- at DC2- at DC2- for ada value0.7- at DC - or ada value0.7- rated value0.7- rated value0.7- full-scale value1.25Design of the surge suppressorwith varistorClosing reage coll at DC320 WHolding power of magnet coll at	— at 230 V rated value	37 kW
	— at 400 V rated value	55 kW
Correction power for approx. 200000 operating cycles at AC-4         Provem loss for approx. 200000 operating cycles at 400 V rated value         29 kW           • at 400 V rated value         29 kW           • at 690 V rated value         48 kW           Thermal short-time current limited to 10 s         1.1 kA           Power loss [M] at AC-3 at 400 V for rated value of the operating current per conductor         7           No-load switching frequency         1 000 1/h           • at AC-1 maximum         400 1/h           • at AC-3 maximum         400 1/h           • at AC-3 maximum         1 000 1/h           • at AC-4 maximum         400 1/h           • at AC-4 maximum         1 000 1/h           • at AC-4 maximum         500 1/h           • at AC-4 maximum         500 1/h           • at DC-1 maximum         400 1/s           • at DC-3 maximum         500 1/s           • at DC-1 maximum         500 1/s           • at DC-5 maximum         600 1/s	— at 500 V rated value	75 kW
at AC-4  i at 400 V rated value i at 600 V rated value i at 000 V rated value i at DC  No-load switching frequency i at DC  ot 000 1/h  ot AC-3 maximum i at AC-4 maximum i at AC-3 maximum i at AC-4 maximum i at AC-3 maximum i at AC-4 maximum i at AC-4 maximum i at AC-5 maximum i at AC-5 maximum i at AC-7 maximum i at AC-8 maximum i at AC-9 max	— at 690 V rated value	110 kW
• at 400 V rated value29 kW• at 690 V rated value48 kWThermal short-time current limited to 10 s1.1 kAPower loss [W] at AC-3 at 400 V for rated value of the operating current per conductor7 W• at DC1 000 1/h• at DC1 000 1/h• ot DC00 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum1000 1/h• at AC-4 maximum400 1/h• at AC-4 maximum1000 1/h• at AC-4 maximum400 1/s• at DC - 1 maximum500 1/s• at DC - 1 maximum600 1/s• at DC - 1 maximum24 V• at DC - 5 maximum24 V• Derotor24 V• at DC - 5 maximum24 V• at DC - 10124 V• at DC - 10122 W• at DC - 101320 W• at DC - 102320 W• at DC - 103 at DC320 W	Operating power for approx. 200000 operating cycles	
att door vated value         As KW           Thermal short-time current limited to 10 s         1.1 kA           Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor         7 W           No-load switching frequency • at DC         1 000 1/h           Operating frequency • at AC-1 maximum         800 1/h           • at AC-2 maximum         400 1/h           • at AC-3 maximum         1000 1/h           • at AC-4 maximum         500 1/s           • at DC -1 maximum         400 1/s           • at DC -5 maximum         500 1/s           • at DC -5 maximum         24 V           Operating range factor control supply voltage rated         24 V           • full-scale value         <	at AC-4	
Themai short-time current limited to 10 s 1.1 kA Power loss IW] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	• at 400 V rated value	29 kW
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor         7           No-load switching frequency • at DC         1000 1/h           Operating frequency • at AC-1 maximum         600 1/h           at AC-1 maximum         400 1/h           at AC-2 maximum         400 1/h           at AC-3 maximum         400 1/h           at AC-4 maximum         1000 1/h           at AC-4 maximum         500 1/s           at DC-1 maximum         500 1/s           at DC-5 maximum         500 1/s           at DC-5 maximum         500 1/s           at DC-5 maximum         500 1/s           control circuit/ Control         24 V           Operating range factor control supply voltage rated value of magnet coll at DC         24 V           olitial value         0.7           initial value         0.7           initial value         1.25           Design of the surge supressor         with varistor           Closing power of magnet coll at DC         320 W           Holding power of magnet coll at DC         3	• at 690 V rated value	48 kW
the operating ourrent per conductor         Image: constraint of the output of the	Thermal short-time current limited to 10 s	1.1 kA
No-load switching frequency1000 1/hOperating frequency		7 W
• at DC1 000 1/hOperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum1 300 1/h• at AC-4 maximum130 1/hOperating frequency400 1/s• at DC-1 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximumDCControl circuit/ Control24 VOperating range factor control supply voltage rated value of magnet coil at DC24 V• initial value0.7• initial value0.7• initial value0.7• Full-scale value320 WDesign of the surge suppressorwith varistorClosing power of magnet coil at DC2.8 WClosing delay2.8 W		
Operating frequencyat AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum1 000 1/h• at AC-4 maximum1 000 1/h• at AC-4 maximum400 1/s• at DC-1 maximum400 1/s• at DC-1 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximumDCControl circuit/ Control24 VOperating range factor control supply voltage at DC• rated value0.7• initial value0.7• initial value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delayat DC• at DC35 75 ms		4 000 4 4
• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum1000 1/h• at AC-4 maximum130 1/h• at AC-4 maximum400 1/s• at DC-1 maximum400 1/s• at DC-1 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximumDCControl circuit/ ControlDCControl supply voltage at DC• rated value• rated value0Operating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil a		1 000 1/h
at AC-2 maximum400 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum130 1/h• at AC-4 maximum130 1/hOperating frequency-• at DC-1 maximum400 1/s• at DC-3 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• at DC-5 maximum500 1/s• ottool circuit/ Control-Type of voltage of the control supply voltageDCControl supply voltage at DC-• rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC-• initial value0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delay • at DC35 75 ms		000 4/
at AC-3 maximum1 000 1/h• at AC-4 maximum130 1/hOperating frequency-• at DC-1 maximum400 1/s• at DC-3 maximum500 1/s• at DC-5 maximumDCControl circuit/ Control24 V• rated value0.7• rated value0.7• initial value0.7• initial value1.25• Evalue of the surge suppressorvith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 W		
at AC-4 maximum130 1/hOperating frequency • at DC-1 maximum400 1/so at DC-3 maximum500 1/s• at DC-3 maximum500 1/s• at DC-5 maximumDCControl circuit/ ControlDCControl supply voltage of the control supply voltageDC• rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 W• Holding power of magnet coil at DC320 W• at DC35 75 ms		
Operating frequency       400 1/s         • at DC-1 maximum       500 1/s         • at DC-3 maximum       500 1/s         • at DC-5 maximum       500 1/s         • at DC-5 maximum       500 1/s         • at DC-5 maximum       500 1/s         • control circuit/ Control       DC         Control supply voltage at DC       24 V         • rated value       24 V         Operating range factor control supply voltage rated value of magnet coil at DC       0.7         • initial value       0.7         • full-scale value       1.25         Design of the surge suppressor       with varistor         Closing power of magnet coil at DC       320 W         Holding power of magnet coil at DC       320 W		
• at DC-1 maximum400 1/s• at DC-3 maximum500 1/s• at DC-5 maximum500 1/sControl circuit/ ControlDCControl supply voltageOperating range factor control supply voltage rated value of magnet coil at DC• initial value0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC320 WClosing delay • at DC55 75 ms		130 1/h
at DC-3 maximum500 1/s• at DC-5 maximum500 1/sControl circuit/ ControlDCType of voltage of the control supply voltageDCControl supply voltage at DC • rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WClosing delay • at DC35 75 ms		
• at DC-5 maximum 500 1/s 500		
Control circuit/ Control       DC         Type of voltage of the control supply voltage       DC         Control supply voltage at DC       24 V         • rated value       00         Operating range factor control supply voltage rated value of magnet coil at DC       0.7         • initial value       1.25         Design of the surge suppressor       with varistor         Closing power of magnet coil at DC       320 W         Holding power of magnet coil at DC       2.8 W		
Type of voltage of the control supply voltageDCControl supply voltage at DC24 V• rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC3.8 WClosing delay • at DC35 75 ms	● at DC-5 maximum	500 1/s
Control supply voltage at DC24 V• rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delay • at DC35 75 ms	Control circuit/ Control	
• rated value24 VOperating range factor control supply voltage rated value of magnet coil at DC	Type of voltage of the control supply voltage	DC
Operating range factor control supply voltage rated value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delay	Control supply voltage at DC	
value of magnet coil at DC0.7• initial value0.7• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delay-• at DC35 75 ms	<ul> <li>rated value</li> </ul>	24 V
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• Full-scale value1.25Design of the surge suppressorwith varistorClosing power of magnet coil at DC320 WHolding power of magnet coil at DC2.8 WClosing delay-• at DC35 75 ms	•	
Design of the surge suppressor     with varistor       Closing power of magnet coil at DC     320 W       Holding power of magnet coil at DC     2.8 W       Closing delay     - at DC       • at DC     35 75 ms	• initial value	
Closing power of magnet coil at DC     320 W       Holding power of magnet coil at DC     2.8 W       Closing delay     - at DC       • at DC     35 75 ms		
Holding power of magnet coil at DC     2.8 W       Closing delay     35 75 ms		
Closing delay       • at DC       35 75 ms		
• at DC 35 75 ms		2.8 W
		05 75
Opening delay		35 /5 ms
	Opening delay	

Arcing time     10 15 ms       Control version of the switch operating mechanism     PLC-IN or Standard A1 - A2 (adjustable)       Auxiliary contacts     -       - instantaneous contact     2       Number of NC contacts     2       - instantaneous contact     2       Operating current at AC-12 maximum     10 A       Operating current at AC-15     2       - instantaneous contact     2       Operating current at AC-15     2       - it als0 V rated value     6 A       - at 120 V rated value     75 A       Operating current at DC-13     -       - at 24 V rated value     6 A       - at 120 V rated value     6 A       - at 120 V rated value     75 A       Operating current at DC-13     -       - at 24 V rated value     6 A       - at 120 V rated value     74 A	• at DC	80 90 ms
Number of NC contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> <li>instantaneous contact</li> <li>for auxiliary contacts</li> <li>instantaneous contact</li> <li>2</li> </ul> Number of NC contacts           - instantaneous contact           2           Operating current at AC-12 maximum           0 A           Operating current at AC-15           - at 230 V rated value         6 A           - at 240 V rated value         3 A           - at 420 V rated value         6 A	Arcing time	10 15 ms
Number of NC contacts     2       • for auxiliary contacts     2       • Instantaneous contact     2       Number of NC contacts     2       • for auxiliary contacts     2       • instantaneous contact     2       Operating current at AC-12 maximum     10 A       Operating current at AC-15     6 A       • at 200 V rated value     6 A       • at 300 V rated value     10 A       • at 500 V rated value     6 A       • at 400 V rated value     6 A       • at 60 V rated value     6 A       • at 60 V rated value     10 A       • at 22 V rated value     10 A       • at 60 V rated value     10 A       • at 60 V rated value     0.15 A       Operating current at DC-13     •       • at 22 V rated value     2 A       • at 60 V rated value     2 A       • at 60 V rated value     0.1 A       • at 60 V rated value     0.1 A       • at 60 V rated value     0.1 A       • at 600 V rated value     0.1 A </th <th>Control version of the switch operating mechanism</th> <th>PLC-IN or Standard A1 - A2 (adjustable)</th>	Control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Number of NC contacts     2       • for auxiliary contacts     2       • Instantaneous contact     2       Number of NC contacts     2       • for auxiliary contacts     2       • instantaneous contact     2       Operating current at AC-12 maximum     10 A       Operating current at AC-15     6 A       • at 200 V rated value     6 A       • at 300 V rated value     10 A       • at 500 V rated value     6 A       • at 400 V rated value     6 A       • at 60 V rated value     6 A       • at 60 V rated value     10 A       • at 22 V rated value     10 A       • at 60 V rated value     10 A       • at 60 V rated value     0.15 A       Operating current at DC-13     •       • at 22 V rated value     2 A       • at 60 V rated value     2 A       • at 60 V rated value     0.1 A       • at 60 V rated value     0.1 A       • at 60 V rated value     0.1 A       • at 600 V rated value     0.1 A </th <th>Auxiliary circuit</th> <th></th>	Auxiliary circuit	
→ instantaneous contact       2         Number of NO contacts       - <ul> <li>for auxiliary contacts</li> <li>-</li> <li>instantaneous contact</li> <li>2</li> <li>Operating current at AC-15</li> <li>at 230 V rated value</li> <li>6 A</li> <li>at 400 V rated value</li> <li>3 A</li> <li>at 300 V rated value</li> <li>A</li> <li>A</li></ul>		
Number of NO contacts         Image: Number of NO contacts           • for auxiliary contacts         2           operating current at AC-12 maximum         10 A           Operating current at AC-15         6           • at 320 V rated value         3A           • at 320 V rated value         6 A           • at 320 V rated value         6 A           • at 400 V rated value         6 A           • at 300 V rated value         6 A           • at 400 V rated value         6 A           • at 400 V rated value         6 A           • at 400 V rated value         6 A           • at 600 V rated value         6 A           • at 40 V rated value         6 A           • at 60 V rated value         6 A           • at 10 V rated value         6 A           • at 10 V rated value         6 A           • at 20 V rated value         6 A           • at 600 V rated value         10 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 220 V rated value         6 A           • at 220 V rated value         0.1 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A	<ul> <li>for auxiliary contacts</li> </ul>	
• for auxiliary contacts     2       Operating current at AC-12 maximum     10 A       Operating current at AC-12     6 A       • at 230 V rated value     6 A       • at 200 V rated value     2 A       Operating current at DC-12     2 A       • at 24 V rated value     6 A       • at 300 V rated value     6 A       • at 43 V rated value     6 A       • at 100 V rated value     6 A       • at 100 V rated value     6 A       • at 100 V rated value     6 A       • at 110 V rated value     6 A       • at 125 V rated value     2 A       • at 200 V rated value     6 A       • at 200 V rated value     2 A       • at 200 V rated value     2 A       • at 600 V rated value     6 A       • at 220 V rated value     2 A       • at 220 V rated value     0 A       • at 220 V rated value     0 A       • at 25 V rated value     0 A       • at 26 V rated value     0 A       • at 20 V rated value     0 A       • at 60 V rated value     0 A       • at 20 V rated value     0 A       • at 20 V rated value     0 A	— instantaneous contact	2
	Number of NO contacts	
Operating current at AC-12 maximum         10 A           Operating current at AC-15         6           • at 230 V rated value         3 A           • at 400 V rated value         3 A           • at 500 V rated value         2 A           Operating current at DC-12	<ul> <li>for auxiliary contacts</li> </ul>	
Operating current at AC-15         6 A           at 230 V rated value         3 A           at 400 V rated value         3 A           at 500 V rated value         2 A           Operating current at DC-12	— instantaneous contact	2
• at 230 V rated value6 A• at 400 V rated value3 A• at 500 V rated value2 AOperating current at DC-12•• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 10 V rated value0.15 AOperating current at DC-130.15 A• at 24 V rated value2 A• at 24 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-13•• at 24 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-13•• at 24 V rated value0.15 AOperating current at DC-13•• at 24 V rated value0.15 AOperating current at DC-13•• at 25 V rated value0.16 A• at 60 V rated value0.9 A• at 20 V rated value0.14 A• at 60 V rated value125 A• for three-ph	Operating current at AC-12 maximum	10 A
at 400 V rated value     3A       at 500 V rated value     2A       Operating current at DC-12     6A       at 24 V rated value     6A       at 48 V rated value     6A       at 60 V rated value     6A       at 10 V rated value     6A       at 110 V rated value     6A       at 125 V rated value     6A       at 125 V rated value     7A       at 220 V rated value     7A       at 220 V rated value     7A       at 600 V rated value     7A       at 60 V rated value	Operating current at AC-15	
• at 500 V rated value2 AOperating current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value1 A• at 220 V rated value0.15 AOperating current at DC-136 A• at 24 V rated value2 A• at 24 V rated value2 A• at 48 V rated value2 A• at 48 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-130• at 24 V rated value2 A• at 24 V rated value0.14• at 600 V rated value0.9 A• at 25 V rated value0.3 A• at 260 V rated value0.14Contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor124 A• at 480 V rated value125 AYielded mechanical performance [hp]125 A• for single-phase AC motor25 hp	• at 230 V rated value	6 A
Coperating current at DC-12     10 A       • at 24 V rated value     10 A       • at 48 V rated value     6 A       • at 60 V rated value     6 A       • at 110 V rated value     3 A       • at 125 V rated value     2 A       • at 220 V rated value     0.15 A       Operating current at DC-13     6 A       • at 24 V rated value     0.15 A       Operating current at DC-13     6 A       • at 24 V rated value     0.15 A       Operating current at DC-13     7       • at 24 V rated value     0.15 A       Operating current at DC-13     7       • at 24 V rated value     0.15 A       Operating current at DC-13     7       • at 24 V rated value     0.15 A       Operating current at DC-13     7       • at 60 V rated value     0.15 A       • at 60 V rated value     0.16 A       • at 60 V rated value     0.9 A       • at 22 V rated value     0.1 A       Contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UVCSA ratings     124 A       • at 600 V rated value     125 A       • at 480 V rated value	• at 400 V rated value	3 A
• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 24 V rated value2 A• at 600 V rated value2 A• at 48 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 200 V rated value0.1 AContact reliability of auxiliary contactsI full-load current (FLA) for three-phase AC motor• at 480 V rated value125 A• for single-phase AC motor25 hp• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 500 V rated value	2 A
at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 48 V rated value2 A• at 600 V rated value2 A• at 24 V rated value6 A• at 48 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 AContact reliability of auxiliary contactsI faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 600 V rated value124 A• at 600 V rated value125 AYielided mechanical performance [hp]• for single-phase AC motor25 hp• at 230 V rated value25 hp	Operating current at DC-12	
at it of vitated value6• at 60 V rated value3 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 60 V rated value1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value25 hp• for single-phase AC motor25 hp	• at 24 V rated value	10 A
a at 110 V rated value3 Aa at 110 V rated value3 Aa at 125 V rated value1 Aa t 20 V rated value1 Aa t 600 V rated value0.15 AOperating current at DC-13a t 24 V rated value6 Aa t 24 V rated value2 Aa t 60 V rated value2 Aa t 10 V rated value1 Aa t 10 V rated value0.9 Aa t 125 V rated value0.3 Aa t 20 V rated value0.1 AContact reliability of auxiliary contactsI full-load current (FLA) for three-phase AC motora t 480 V rated value124 Aa t 600 V rated value125 AYielded mechanical performance [hp]for single-phase AC motor25 hpa t 230 V rated value25 hp	• at 48 V rated value	6 A
a ti 125 V rated value2 Aa ti 125 V rated value1 Aa ti 220 V rated value0.15 AOperating current at DC-13	• at 60 V rated value	6 A
a table have been been been been been been been be	• at 110 V rated value	3 A
at 600 V rated value0.15 AOperating current at DC-136 A• at 24 V rated value6 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 10 V rated value0.9 A• at 220 V rated value0.15 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 200 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)ULCSA ratings124 AFull-load current (FLA) for three-phase AC motor • at 480 V rated value125 AYielded mechanical performance [tp]25 hp• for single-phase AC motor • at 230 V rated value25 hp	• at 125 V rated value	2 A
Operating current at DC-136 A• at 24 V rated value6 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 600 V rated value124 A• at 600 V rated value25 h	• at 220 V rated value	1 A
• at 24 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)• DL/CSA ratings124 A• at 80 V rated value125 A• at 600 V rated value25 hp• for single-phase AC motor25 hp	• at 600 V rated value	0.15 A
<ul> <li>at 48 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>1 A</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor</li> <li>at 480 V rated value</li> <li>125 A</li> <li>Yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> <li>25 hp</li> <li>for three-phase AC motor</li> </ul>	Operating current at DC-13	
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>1 A</li> <li>at 125 V rated value</li> <li>0.9 A</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor         <ul> <li>at 600 V rated value</li> <li>124 A</li> <li>at 600 V rated value</li> <li>25 A</li> </ul> </li> <li>Yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor                 <ul> <li>at 230 V rated value</li> <li>25 hp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li> <li>25 hp</li> <li>for single-phase AC motor</li> <li>at 230 V rated value</li> <li>25 hp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li> <li>bp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li></ul></li></ul></li></ul>	• at 24 V rated value	6 A
<ul> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>Contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>Full-load current (FLA) for three-phase AC motor         <ul> <li>at 480 V rated value</li> <li>124 A</li> <li>at 600 V rated value</li> <li>125 A</li> </ul> </li> <li>Yielded mechanical performance [hp]         <ul> <li>for single-phase AC motor                 <ul> <li>at 230 V rated value</li> <li>25 hp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li> <li>25 hp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li> <li>bp</li> <li>for three-phase AC motor</li> <li>at 230 V rated value</li></ul></li></ul></li></ul>	• at 48 V rated value	2 A
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AContact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 60 V rated value	2 A
• at 220 V rated value0.3 A• at 600 V rated value0.1 AContact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 110 V rated value	1 A
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Contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor • at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value25 hp	• at 220 V rated value	0.3 A
UL/CSA ratings         Full-load current (FLA) for three-phase AC motor       124 A         • at 480 V rated value       125 A         Yielded mechanical performance [hp]       125 A         • for single-phase AC motor       25 hp         • for three-phase AC motor       25 hp	• at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp- at 230 V rated value25 hp	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>124 A</li> <li>125 A</li> <li>Yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>- at 230 V rated value</li> <li>for three-phase AC motor</li> </ul>	UL/CSA ratings	
• at 600 V rated value     125 A      Yielded mechanical performance [hp]     • for single-phase AC motor     — at 230 V rated value     • for three-phase AC motor	Full-load current (FLA) for three-phase AC motor	
Yielded mechanical performance [hp]       • for single-phase AC motor	● at 480 V rated value	124 A
<ul> <li>for single-phase AC motor</li> <li>— at 230 V rated value</li> <li>for three-phase AC motor</li> </ul>	● at 600 V rated value	125 A
— at 230 V rated value     25 hp       • for three-phase AC motor     25 hp	Yielded mechanical performance [hp]	
• for three-phase AC motor	<ul> <li>for single-phase AC motor</li> </ul>	
	— at 230 V rated value	25 hp
- at 200/208 V rated value 40 hp	<ul> <li>for three-phase AC motor</li> </ul>	
	— at 200/208 V rated value	40 hp

— at 220/230 V rated value	50 hp			
— at 460/480 V rated value	100 hp			
	125 hp			
- at 575/600 V rated value Contact rating of auxiliary contacts according to UL	A600 / Q600			
	A0007 Q000			
Short-circuit protection				
Design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
— with type of coordination 1 required	Fuse gG: 355 A			
<ul> <li>— with type of assignment 2 required</li> </ul>	Fuse gG: 315 A			
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 10 A			
required				
Installation/ mounting/ dimensions				
Mounting position	with vertical mounting surface +/-90° rotatable, with vertical			
	mounting surface +/- 22.5° tiltable to the front and back			
Mounting type	screw fixing			
<ul> <li>Side-by-side mounting</li> </ul>	Yes			
Height	172 mm			
Width	120 mm			
Depth	170 mm			
Required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	20 mm			
— Backwards	0 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	20 mm			
— Backwards	0 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
• for live parts				
— forwards	10 mm			
— Backwards	0 mm			
— upwards	10 mm			
– downwards	10 mm			
— at the side	10 mm			
Connections/Terminals				
Type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			

<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals			
Type of connectable conductor cross-sections				
<ul> <li>for main contacts</li> </ul>				
— stranded	max. 1x 50, 1x 70 mm <sup>2</sup>			
— single or multi-stranded	max. 1x 50, 1x 70 mm <sup>2</sup>			
— finely stranded with core end processing	max. 1x 50, 1x 70 mm <sup>2</sup>	max. 1x 50, 1x 70 mm <sup>2</sup>		
<ul> <li>finely stranded without core end processing</li> </ul>	max. 1x 50, 1x 70 mm <sup>2</sup>			
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x 1/0			
Type of connectable conductor cross-sections				
<ul> <li>for auxiliary contacts</li> </ul>				
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12			
Safety related data				
Product function				
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes			
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> <li>1</li> </ul>	No			
Certificates/approvals				
General Product Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	
	EHC	Type Examination Certificate	CE EG-Konf.	

Test	Marine /	other		Railway	
Certificates	Shipping				
Special Test Certificate	DNV-GL DNV-GL	Confirmation	Miscellaneous	Vibration and Shock	Confirmation

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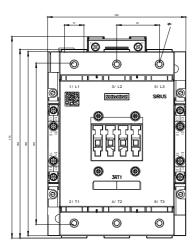
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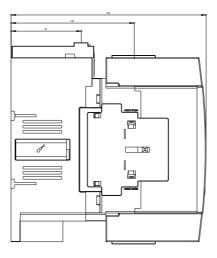
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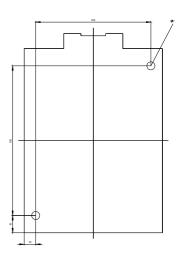
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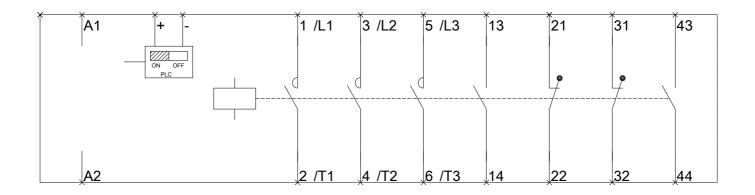
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-1XB46-0LA2&lang=en









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