SIEMENS

Data sheet

3RT2027-1AF04



Contactor, AC-3, 15 kW / 400 V, 2 NO + 2 NC, 110 V AC, 50 Hz, 3-pole, Size S0 screw terminal Removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.3 W
 at AC in hot operating state per pole 	2.3 W
 without load current share typical 	9.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	50 A
● at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
 at AC-4 at 400 V rated value 	22 A
 at AC-5a up to 690 V rated value 	44 A
 at AC-5b up to 400 V rated value 	26.5 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	30.8 A
 — up to 400 V for current peak value n=20 rated value 	30.8 A
— up to 500 V for current peak value n=20 rated value	27 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	21 A
 at AC-ba up to 230 V for current peak value n=30 rated value 	20.5 A
 — up to 400 V for current peak value n=30 rated value 	20.5 A
 — up to 500 V for current peak value n=30 rated value 	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	

- at 24 V rated value 35 Å - at 22 V rated value 35 Å - at 24 V rated value 29 Å - at 60 V rated value 1.4 Å - at 24 V rated value 20 Å - at 24 V rated value 20 Å - at 10 V rated value 20 Å - at 24 V rated value 20 Å - at 24 V rated value 20 Å - at 24 V rated value 0.00 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.6 Å - at 24 V rated value 0.6 Å - at 24 V rated value 0.6 Å - at 23 V rated value 0.6 Å - at 23 V rated value 15 ÅW - at 23 V rated value 15 ÅW - at 23 V rated value 15 ÅW <		
- al 220 V rade value 35 Å - al 600 V rade value 29 Å - al 600 V rade value 20 Å - al 700 V rade value 20 Å - al 200 V rade value 20 Å - al 200 V rade value 20 Å - al 200 V rade value 009 Å - al 200 V rade value 016 Å - al 200 V rade value 15 KW - al 200 V rade value 10 KW - al	— at 24 V rated value	35 A
- alt 40 V radid value 2.9 Å - alt 600 V radid value 1.4 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 0.09 Å - alt 24 V radid value 0.09 Å - alt 20 V radid value 0.09 Å - alt 24 V radid value 0.16 Å - alt 24 V radid value 0.6 Å - alt 24 V radid value 0.6 Å - alt 20 V radid value 0.6 Å - alt 20 V radid value 15 KW	— at 110 V rated value	
• at 1 current path at DC-3 at DC-5 > - at 24 V rade Value 25 A - at 24 V rade Value 0.09 A - at 210 V rated Value 0.09 A - at 24 V rade Value 0.09 A - at 220 V rated Value 0.09 A - at 220 V rated Value 0.07 A - at 240 V rated Value 0.16 A - at 240 V rated Value 0.16 A - at 240 V rated Value 0.6 A - at 240 V rated Value 0.6 A - at 250 V rated Value 1.6 A	— at 440 V rated value	
	— at 600 V rated value	1.4 A
- at 10 V rited value2.5 Å- at 200 V rated value0.09 Å- at 600 V rated value0.09 Å- at 600 V rated value35 Å- at 24 V rated value35 Å- at 220 V rated value0.16 Å- at 220 V rated value0.16 Å- at 440 V rated value0.6 Å- at 440 V rated value0.6 Å- at 440 V rated value10 Å- at 440 V rated value10 Å- at 440 V rated value10 Å- at 600 V rated value15 ÅW- at 600 V rated value16 ÅW• at 600 V rated value16 ÅW• at 600 V rated value10 ÅW• at 600 V rated value10 ÅW• at 600 V rated value10 ÅW• at 600 V rated value21 ÅWA• at 600 V rated value21 ÅWA• at 600 V rated value = 30 rated value23 ÅVA• at 600 V rated value = 30 rated value23 ÅVA• at 600 V rated value = 30 rated value<	 at 1 current path at DC-3 at DC-5 	
- at 20 V rated value1 A- at 440 V rated value0.06 A- at 600 V rated value0.06 A• with 2 current paths in series at DC-3 at DC-535 A- at 110 V rated value15 A- at 240 V rated value0.27 A- at 600 V rated value0.27 A- at 600 V rated value0.16 A- at 240 V rated value0.6 A- at 240 V rated value0.6 A- at 240 V rated value10 A- at 250 V rated value15 KW- at 250 V rated value15 KW- at 650 V rated value25 KW- at 650	— at 24 V rated value	20 A
	— at 110 V rated value	2.5 A
	— at 220 V rated value	1 A
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 35 A at 220 V rated value 36 A at 220 V rated value 37 A at 220 V rated value 37 A at 24 V rated value 36 A at 24 V rated value 37 A at 24 V rated value 36 A at 24 V rated value 37 A at 24 V rated value 36 A at 230 V rated value 36 A at 400 V rated value 36 A at 230 V rated value 36 A at 230 V rated value 36 A at 230 V rated value 37 KW at 400 V rated value 38 KW at 400 V rated value 38 KW at 400 V rated value 38 KW at 400 V rated value 39 KW at 400 V rated value 30 KW at 400 V rated value 31 KVA at 400 V rated value 32 KVA at 400 V rated value 33 KW at 400 V rated value at 800 V fracturent peak value n=20 rated value 33 KVA at 000 V fracturent peak value n=20 rated value 31 KVA at 000 V fracturent peak value n=20 rated value at 800 V fracturent peak value n=30 rated value at 800 V fracturent peak value n=30 rated value at 800 V fracturent peak value n=30 rated value at 800 V fracturent peak value n=30 rated value 31 KVA <	— at 440 V rated value	0.09 A
	— at 600 V rated value	0.06 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
	— at 110 V rated value	15 A
	— at 220 V rated value	3 A
with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 35 A - at 224 V rated value 35 A - at 220 V rated value 06 A - at 220 V rated value 0.6 A - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 300 V rated value 0.1 5 kW - at 300 V rated value 0.1 5 kW - at 600 V rated value 0.1 5 kW - at 600 V rated value 0.1 5 kW - at 600 V rated value 0.2 15 kW - at 600 V rated value 0.2 0 rated value 0.1 8 kW - at 600 V rated value 0.2 0 rated value 0.2 15 kW - at 600 V rated value 0.2 0 rated value 0.2 3 kVA - up to 200 V for current peak value n=20 rated value 2.3 kVA - up to 200 V for current peak value n=20 rated value 2.3 kVA - up to 200 V for current peak value n=30 rated value 2.3 kVA - up to 200 V for current peak value n=30 rated value 2.3 kVA - up to 500 V for current peak value n=30 rated value 2.3 kVA - up to 600 V for current peak value n=30 rated value 2.3 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
	— at 110 V rated value	35 A
	— at 220 V rated value	10 A
operating power et AC-3	— at 440 V rated value	0.6 A
• at AC-3 - at 230 V rated value 7.5 kW - at 400 V rated value 15 kW - at 690 V rated value 15 kW - at 690 V rated value 15 kW - at 230 V rated value 15 kW - at 230 V rated value 15 kW - at 400 V rated value 15 kW - at 400 V rated value 15 kW - at 400 V rated value 15 kW - at 500 V rated value 15 kW - at 690 V rated value 18 kW operating power for approx. 200000 operating cycles at AC-4 18 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 500 V for current peak value n=20 rated value 23.3 kVA • up to 500 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 14.2 kVA • up to 500 V for current peak value n=30 rated value 15.5 kVA • up to 500 v for current peak value n=30 rated value 15.5	— at 600 V rated value	0.6 A
	operating power	
at 400 V rated value15 kW at 500 V rated value15 kW at 600 V rated value15 kW at 230 V rated value7.5 kW at 400 V rated value15 kW at 600 V rated value6 kW at 600 V rated value6 kW at 600 V rated value6 kW at 600 V rated value18.5 kW at 600 V rated value6 kW at 600 V rated value10.3 kW at 600 V rated value21.3 kW operating apparent power at AC-6a23.3 kVA up to 230 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=20 rated value25. kVA operating apparent power at AC-6a8.1 kVA up to 500 V for current peak value n=30 rated value21.5 kVA operating apparent power at AC-6a8.1 kVA up to 500 V for current peak value n=30 rated value15.5 kVA up to 500 V for current peak value n=30 rated value15.5 kVA up to 600 V for current peak value n=30 rated value21.5 kVA operating apparent power at AC-6a499 A; Use minimum cross-section acc. to AC-1 rated value ot 00 V for current peak value n=30 rated value35 A; Use minimum cross-section acc. to AC-1 rated value ot 00 V for current peak value n=30 rated value21.5 kVA ot 00 V for current peak value n=30 rated value35 A; Use minimum cross-section acc. to AC-1 rated value	• at AC-3	
at 500 V rated value15 kW at 690 V rated value18.5 kW• at AC-3e	— at 230 V rated value	7.5 kW
at 690 V rated value18.5 kW• at AC-3e7.5 kW at 230 V rated value15 kW at 400 V rated value15 kW at 690 V rated value15 kW at 690 V rated value15 kW at 690 V rated value16 kW at 690 V rated value18.5 kWoperating power for approx. 20000 operating cycles18.5 kWe at 400 V rated value6 kW• at 400 V rated value10.3 kWoperating apparent power at AC-6a10.3 kW• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 600 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a6.1 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value25.6 kVA• up to 600 V for current peak value n=30 rated value25.6 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value26.0 k.1 use minimum cross-section acc. to AC-1 rated value• up to 600 V for current peak value n=30 rated value26.0 k.1 use minimum cross-section acc. to AC-1 rated value• up to 600 V for current p	— at 400 V rated value	15 kW
• at AC-3e 7.5 kW - at 230 V rated value 7.5 kW - at 400 V rated value 15 kW - at 690 V rated value 15 kW - at 690 V rated value 18.5 kW operating power for approx. 200000 operating cycles at AC-4 6 kW • at 400 V rated value 6 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 230 V for current peak value n=20 rated value 23.3 kVA • up to 500 V for current peak value n=20 rated value 23.3 kVA • up to 500 V for current peak value n=20 rated value 23.3 kVA • up to 500 V for current peak value n=20 rated value 23.3 kVA • up to 500 V for current peak value n=30 rated value 23.4 kVA • up to 500 V for current peak value n=30 rated value 14.2 kVA • up to 500 V for current peak value n=30 rated value 15.5 kVA • up to 500 V for current peak value n=30 rated value 21.5 kVA • up to 500 V for current peak value n=30 rated value 21.5 kVA • up to 600 V for current peak value n=30 rated value 21.5 kVA • up to 600 V for current peak value 21.5 kVA <	— at 500 V rated value	15 kW
at 230 V rated value7.5 kW at 400 V rated value15 kW at 500 V rated value15 kW at 690 V rated value18.5 kWoperating power for approx. 20000 operating cycles at AC-46 kW• at 400 V rated value6 kW• at 400 V rated value10.3 kWoperating apparent power at AC-5a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23. kVA• up to 500 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 500 V for current peak value n=30 rated value5 kVAoperating apparent power at AC-6a8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 690 V for current peak value n=30 rated value15. kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current maximum499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited	— at 690 V rated value	18.5 kW
at 400 V rated value15 kW at 500 V rated value15 kW at 690 V rated value18.5 kWoperating power for approx. 20000 operating cycles at AC-48.5 kW• at 400 V rated value6 kW• at 690 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 690 V for current peak value n=30 rated value14.5 kVA• up to 690 V for current peak value n=30 rated value15. kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value20.4 Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum182 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum182 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum182 A; Use minimum cross-section acc. to AC-1 rated value <td>• at AC-3e</td> <td></td>	• at AC-3e	
at 500 V rated value15 kW at 690 V rated value18.5 kWoperating power for approx. 200000 operating cycles at AC-46 kW- at 400 V rated value6 kW- at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA- up to 230 V for current peak value n=20 rated value21.3 kVA- up to 500 V for current peak value n=20 rated value23.3 kVA- up to 500 V for current peak value n=20 rated value23.3 kVA- up to 500 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA- up to 500 V for current peak value n=30 rated value8.1 kVA- up to 500 V for current peak value n=30 rated value8.1 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current maximum499 A; Use minimum cross-section acc. to AC-1 rated value- limited to 1 s switching at zero current maximum366 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum460 A; Use minimum cross-section acc. to AC-1 rated value- limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value- limit	— at 230 V rated value	7.5 kW
	— at 400 V rated value	15 kW
operating power for approx. 20000 operating cycles at AC-46 kW• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum395 A; Use minimum cross-section acc. to AC-1 rated value• limited to 50 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1000 1/h• at AC-1 maximum1 000 1/h	— at 500 V rated value	15 kW
at AC-46 kW• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 500 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• limited to 1 s switching at zero current maximum499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum152 A; U	— at 690 V rated value	18.5 kW
• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 600 V for current peak value n=30 rated value15.5 kVAboth of current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value14.2 kVA• up to 600 V for current peak value n=30 rated value21.5 kVAshort-time withstand current in cold operating state up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero curr	operating power for approx. 200000 operating cycles	
• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• up to 600 V for current peak value n=30 rated value25.5 kVA• limited to 1 s switching at zero current maximum395 A; Use minimum cross-section acc. to AC-1	at AC-4	
operating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value• up to 400 V for current peak value n=20 rated value• up to 500 V for current peak value n=20 rated value• up to 690 V for current peak value n=20 rated value• up to 690 V for current peak value n=20 rated value• up to 690 V for current peak value n=20 rated value• up to 230 V for current peak value n=20 rated value• up to 690 V for current peak value n=20 rated value• up to 230 V for current peak value n=30 rated value• up to 230 V for current peak value n=30 rated value• up to 600 V for current peak value n=30 rated value• up to 600 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value• up to 690 V for current peak value n=30 rated value• up to 690 V for current maximum• limited to 1 s switching at zero current maximum• limited to 1 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 30 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero	 at 400 V rated value 	6 kW
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operating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 400 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• limited to 1 s switching at zero current maximum499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum95 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h	 up to 500 V for current peak value n=20 rated value 	23.3 kVA
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 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 21.5 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching	operating apparent power at AC-6a	
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• up to 690 V for current peak value n=30 rated value21.5 kVAshort-time withstand current in cold operating state up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC5 000 1/hoperating frequency • at AC-1 maximum • at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h	 up to 400 V for current peak value n=30 rated value 	14.2 kVA
short-time withstand current in cold operating state up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at AC-1 maximum • at AC-2 maximum1000 1/h • limited to 10 s • limited to 10 s<	 up to 500 V for current peak value n=30 rated value 	15.5 kVA
up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum395 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum182 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 up to 690 V for current peak value n=30 rated value 	21.5 kVA
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 m		
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 	 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 750 1/h 	 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value
• at AC5 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 60 s switching at zero current maximum 	152 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	no-load switching frequency	
• at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h	• at AC	5 000 1/h
• at AC-2 maximum 750 1/h	operating frequency	
	• at AC-1 maximum	1 000 1/h
• at AC-3 maximum 750 1/h	• at AC-2 maximum	750 1/h
	 at AC-3 maximum 	750 1/h

a at AC 20 maximum	750.1/b
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	110 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	77.)//
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	0.00
• at 50 Hz	0.82
apparent holding power of magnet coil at AC • at 50 Hz	9.8 VA
	9.0 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	-
number of NO contacts for auxiliary contacts	2
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A
at 690 V rated value	1 A
operational current at DC-12	
 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 	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	6 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	27 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
 for 3-phase AC motor 	

		40 hz			
- # 400480 Y rated value 20 hp -# 45000 Y rated value 25 hp contect rating of auxiliary contacts according to U A600 / 0600 Stote-croat protection for stort-circuit protection of the main circuit - with type of condination 1 required G: 125A (690V, 100KA), aM 50A (690V, 100KA), BS88: 125A (415V, 80AA) - with type of assignment 2 required G: 50A (690V, 100KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required G: 50A (690V, 100KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required G: 50A (690V, 100KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required GivA (50V, 10KA), aM 50A (690V, 100KA), BS88: 50A (415V, GivA) - with type of assignment 2 required forwards and backward by +5.22.5 on vertical mounting surface, second type of assignment 2 required forwards 10 mm - downwards	— at 200/208 V rated value	10 hp			
contact rating of auxillary contacts according to UL A800 / Q600 Short-circuit protection of the main circuit					
Shert-circuit protection design of the fuse link - with type of coordination 1 required - with type of coordination 1 required specing - with side-by-side mounting - forwards 10 rmm - qowards 10 rmm - qowards 10 rmm - qowards 10 rmm - qowards 10 rmm - downwards 10 rmm - at the side 6 rmm - downwards 10 rmm - at the side 6 rmm - downwards 10 rmm - solid		•			
design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required meunting position • for short-circuit protection of the auxiliary switch required meunting position • for short-circuit protection of the auxiliary switch required meunting position • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • of or wards 10 mm - upwards 10 mm - upwards 10 mm - mowards 10 mm - for lay parts 10 mm - for axit circuit screw-type terminals </td <td></td> <td>A600 / Q600</td>		A600 / Q600			
for short-circuit protection of the main circuit —with type of acordination 1 required —with type of assignment 2 required —for short-circuit protection of the auxiliary switch required —with type of assignment 2 required —with type of the assignment 2 required —with type of assignment 2 required —with t					
- with type of coordination 1 required (15:25A (600V, 100kA), aM: 55A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), aM: 25A (600V, 100kA), BSB8: 50A (415V, 50A (500V, 100kA), BSB8: 50A (416V, 50A (500V, 100kA), BSB8: 50A (500V, 50A (500V, 10kA), BSB8: 50A (500V, 50A (500V, 10kA), BSB8: 50A (500V, 50A (500V, 100KA), BSB	0				
(415V.30KA)		aC: 1254 (600)/ 100k4) aM: 504 (600)/ 100k4) BS89: 1254			
• for short-circuit protection of the auxiliary switch required B0KA) Installation/ mounting/ dimensions #/180" rotation possible on vertical mounting surface; can be tilted forward and backward by /#/2.25" on vertical mounting surface; fastening method screw and snap-on mounting on 0.5 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 85 mm width 45 mm dopth 141 mm required spacing 0 mm • units disc by-side mounting 0 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - of log partic					
required Installation/mounting/dimensions mounting position +/-180° rotation possible on vertical mounting surface: can be tilted forward and backward by +/-22.5° on vertical mounting rate eside-by-side mounting Yes height 85 mm width 45 mm depth 141 mm required spacing 0 mm - forwards 10 mm - downwards 10 mm - sold <td>— with type of assignment 2 required</td> <td></td>	— with type of assignment 2 required				
mounting position -/180° rotation possible on vertical mounting surface: can be itled forward and backward by 4/-22.5° on vertical mounting surface: screw and sap-on mounting onto 35 mm standard mounting rail according to DNLEN 60715 • side-by-side mounting Yes height 85 mm width 45 mm doptin 141 mm required spacing 141 mm • with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - for wards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - downwards		gG: 10 A (500 V, 1 kA)			
forward and backward by 4+ 22.5° or vertical mounting surface fastening method scorew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 85 mm witht 45 mm depth 141 mm required spacing 141 mm evel the by-side mounting 141 mm evel the by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm <	Installation/ mounting/ dimensions				
• side-by-side mounting Yes height 85 mm width 45 mm depth 141 mm required spacing 10 mm • with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - for vards 10 mm - downwards 10 mm - for auxiliary and control circuit screw-type terminals storator for auxiliary contacts screw-type terminals of a auxiliary and control circuit screw-type	mounting position				
height 85 mm width 45 mm depth 141 mm required spacing 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - for arcs 10 mm - downwards 10 mm - of rowards 10 mm - downwards 10 mm - of owards 10 mm for naubilityr and c	fastening method				
width 45 mm depth 141 mm required spacing 141 mm • with side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - for auxiliary contacts screw-type terminals screw-type terminals screw-type terminals of rauxiliary contacts Screw-type terminals of mauxiliary	 side-by-side mounting 	Yes			
depth 141 mm required spacing 141 mm required spacing 141 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - solid or main current circuit screw-type terminals of magnet coil type of connectable conductor cross-sections • for main contacts Screw-type terminals - solid 2x (1 25 mm ³), 2x (25 10 mm ³) - solid orstranded 2x (1	height	85 mm			
required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 6 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - sta eside 6 mm Connections// Terminals screw-type terminals storatector for auxillary contacts Screw-type terminals of magnet coil 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid	width	45 mm			
• with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 10 mm - brwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals screew-type terminals it contacts screew-type terminals • of mag	depth	141 mm			
	 with side-by-side mounting 				
- downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 10 mm e of an ain current circuit screw-type terminals e of magnet coil Screw-type terminals type of connectable conductor cross-sections 6 for main contacts - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid end 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid end 1 10 mm² e solid on strand	— forwards	10 mm			
at the side 0 mm • for grounded parts - forwards 10 mm upwards 10 mm at the side 6 mm downwards 10 mm downwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals 10 mm at the side 6 mm Connections / Terminals 5 crew-type terminals of rauxiliary and control circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • of on a contacts Screw-type terminals • of auxiliary and control circuit screw-type terminals • for ma	— upwards	10 mm			
• for grounded parts 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 6 mm Connections/ Terminals screw-type terminals type of electrical conductor cross-sections 6 mm • for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 6 m	— downwards	10 mm			
- forwards 10 mm - upwards 10 mm - at the side 6 mm - at the side 6 mm - ownwards 10 mm - for live parts 10 mm - ownwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals screw-type terminals if for auxiliary and control circuit screw-type terminals if or auxiliary contacts Screw-type terminals if or main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 1 10 mm² istranded 1 10 mm² 1		0 mm			
	0				
- at the side 6 mm - downwards 10 mm • for live parts 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/Terminals 5 mm type of electrical connection screw-type terminals stonatcor for auxiliary contacts Screw-type terminals type of connectable conductor cross-sections Screw-type terminals for main contacts 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - solid 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ² • solid or stranded	— forwards				
downwards 10 mm • for live parts 10 mm forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts • for main contacts Screw-type terminals • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 0.5 2.5	— upwards	10 mm			
 for live parts forwards forwards mm upwards mm downwards mm downwards mm downwards mm downwards mm downwards mm downwards mm downwards mm downwards downware <lidownwards< li=""></lidownwards<>					
forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm Connections/Terminals 6 mm type of electrical connection 6 reminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contracts - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 1 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²		10 mm			
upwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts • for main contacts Screw-type terminals • a solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for auxiliary contacts 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² </td <td></td> <td></td>					
- downwards 10 mm - at the side 6 mm Connections/ Terminals 5 mm type of electrical connection screw-type terminals • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 1 10 mm² - solid or stranded 0.5 2.5 mm² - solid or stranded 0.5 2.5 mm					
at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²					
Connections/ Terminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • for main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²					
type of electrical connection screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • for main contacts Screw-type terminals - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²		6 mm			
• for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • for main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 6 12), 2x (14 8) connectable conductor cross-section for main contacts 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²		-			
• for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • for main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • solid or stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²					
• at contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • for main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²					
• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded with core end processing0.5 2.5 mm²					
type of connectable conductor cross-sections• for main contacts- solid- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts• solid1 10 mm²• solid1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded• solid or stranded• solid or stranded• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²	-				
 for main contacts solid solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² at AWG cables for main contacts connectable conductor cross-section for main contacts solid 1 10 mm² finely stranded with core end processing finely stranded with core end processing solid or stranded solid or stranded 0.5 2.5 mm² 0.5 2.5 mm² 					
solid2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²					
solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²connectable conductor cross-section for main contacts2x (1 2.5 mm²), 2x (14 8)• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²		$2x (1 - 2.5 \text{ mm}^2) 2x (2.5 - 10 \text{ mm}^2)$			
finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² connectable conductor cross-section for main contacts 1 10, 2x (14 8) • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² • finely stranded with core end processing 1 10 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²					
• at AWG cables for main contacts 2x (16 12), 2x (14 8) connectable conductor cross-section for main contacts 1 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²					
connectable conductor cross-section for main contacts 1 10 mm² • solid 1 10 mm² • stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²					
 solid stranded finely stranded with core end processing 1 10 mm² finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts solid or stranded of 5 2.5 mm² 0.5 2.5 mm² 	connectable conductor cross-section for main	2x(1012), 2x(110)			
• stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²		1 10 mm ²			
• finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²					
connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²					
• finely stranded with core end processing 0.5 2.5 mm ²	connectable conductor cross-section for auxiliary				
• finely stranded with core end processing 0.5 2.5 mm ²		0.5 2.5 mm²			
	 finely stranded with core end processing 				
	type of connectable conductor cross-sections				

 for auxiliary con 	tacts						
— solid or stra	— solid or stranded			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 			2x (0.5 1.5	mm²), 2x (0	.75 2.5 mm²)		
	for auxiliary contacts		2x (20 16),	2x (18 14	+)		
AWG number as cod section	ed connectable cond	uctor cross					
 for main contact 			16 8				
 for auxiliary con 	tacts		20 14				
Safety related data							
product function							
	ccording to IEC 60947-		Yes				
	operation according to	IEC 60947-	No				
5-1 B10 value with high de	emand rate according t	0 SN 31920	450 000				
proportion of danger		0 011 0 1020	400 000				
	d rate according to SN	31920	40 %				
	nd rate according to SN		73 %				
	ow demand rate accord		100 FIT				
	interval or service life	according to	20 у				
	n the front according	to IEC	IP20				
	the front according to	IEC 60529	finger-safe, fo	or vertical co	ntact from the front		
suitability for use							
 safety-related system 	witching OFF		Yes				
Certificates/ approvals	6						
General Product Ap	proval						
				Ű		LH	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity		Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>		(CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
Marine / Shipping							
	10.70					-	
ABS	BUREAU VERITAS		F	Lloydis Kegister uis	RINA	RMRS	
other							
<u>Confirmation</u>	UDE VDE	<u>Confirmatio</u>	<u>n</u>				
Further information							

Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2027-1AF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AF04

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AF04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

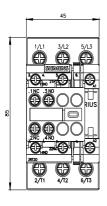
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AF04&lang=en

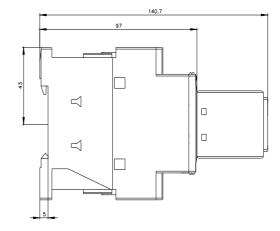
Characteristic: Tripping characteristics, I²t, Let-through current

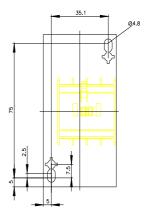
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AF04/char

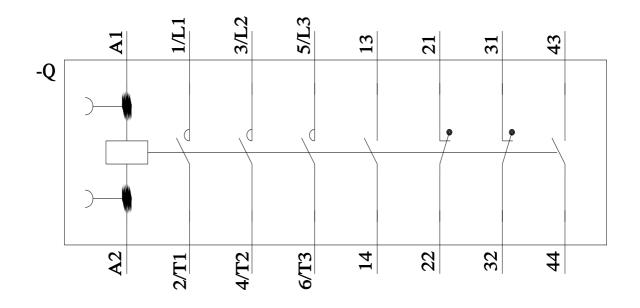
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AF04&objecttype=14&gridview=view1









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