SIEMENS

Data sheet

3RT2027-1AR60



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 400 V AC, 50 Hz 400-440 V, 60Hz, 3-pole Size S0, screw terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	Yes
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 	10.5 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	1 A
— 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 20 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 25. kVA operating apparent power at AC-6a 8.1 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 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	— 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
• 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 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 200 V for current peak value n=30 rated value8.1 kVA• up to 600 V for current peak value n=30 rated value14.2 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 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 500 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 400 °C21.5 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 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• operating frequency1000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h	at 690 V rated value	10.3 kW
• 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 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 500 V for current peak value n=30 rated value15.5 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 value15.5 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 690 V for current peak value n=30 rated value21.5 kVA• up to 40 °C11.6 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 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 maximum152 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h• at AC-2 maximum750 1/h	operating apparent power at AC-6a	
• 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 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 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 3 s switching at zero current maximum260 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 maximum5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h• at AC-2 maximum750 1/h	 up to 230 V for current peak value n=20 rated value 	12.2 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 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 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 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 maximum5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum1 000 1/h• at AC-2 maximum750 1/h	 up to 400 V for current peak value n=20 rated value 	21.3 kVA
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 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 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
 up to 230 V for current peak value n=30 rated value 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 10 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 liz A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value ta AC 5 000 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 250 1/h 	• up to 690 V for current peak value n=20 rated value	25 kVA
 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	
 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 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 at zero current maximum limited to 60 s switching at zero current limited to 60 s zero current	 up to 230 V for current peak value n=30 rated value 	8.1 kVA
• 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 frequency • at AC1000 1/hoperating frequency • at AC-1 maximum • 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 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

• at AC-3e maximum	750 1/h
• at AC-3 maximum • at AC-4 maximum	250 1/h
Control circuit/ Control	
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz rated value	400 V
at 60 Hz rated value	400 440 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
• at 60 Hz	0.28
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	
i alla i i i	
number of NC contacts for auxiliary contacts instantaneous contact	1
	1
instantaneous contact number of NO contacts for auxiliary contacts	
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 10 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 10 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 10 A 10 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	1 10 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 1 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 10 V rated value • at 10 V rated value • at 48 V rated value • at 40 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 100 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 260 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 200 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 10 A 6 A 6 A 1 A 1 A 10 A 10 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 200 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 1 A 10 A 6 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 25 V rated value • at 20 V rated value • at 48 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 1 A 10 A 0 A 0 A 0 A 0 A 0 A 0 A 0 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 100 V rated value • at 200 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 10 A 6 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

 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	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp
— at 575/600 V rated value	25 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
- with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	97 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts forwards	10 mm
— forwards — upwards	10 mm 10 mm
— upwards — at the side	6 mm
— downwards	10 mm
for live parts	
— 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 	
— 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 (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
● stranded	1 10 mm ²

- finally strandad	with a reasonal presson in		1 10 mm²		
finely stranded with core end processing connectable conductor cross-section for auxiliary		1 10 mm			
contacts	tor cross-section for	auxillary			
 solid or strande 	d		0.5 2.5 mm²		
	with core end processir	na	0.5 2.5 mm ²		
	type of connectable conductor cross-sections				
 for auxiliary con 					
— solid or str			$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$		
— finely stranded with core end processing		2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 at AWG cables for auxiliary contacts 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross			2X (20 10), 2X (10 14)	
section					
for main contacts			16 8		
for auxiliary contacts			20 14		
Safety related data					
product function					
-	according to IEC 60947-	.1_1	Yes		
	emand rate according t				
		0 311 3 1920	450 000		
proportion of dange		21020	40.9/		
	d rate according to SN		40 % 73 %		
	nd rate according to SN				
31920	low demand rate accord		100 FIT		
T1 value for proof test IEC 61508	t interval or service life	according to	20 y		
protection class IP c 60529	on the front according	to IEC	IP20		
touch protection on	the front according to	IEC 60529	finger-safe, for vertical cor	ntact from the front	
suitability for use					
 safety-related s 	witching OFF		Mar.		
• Salety-Telated S	and a second sec		Yes		
Certificates/ approval	-		Yes		
Certificates/ approval	S		Yes	_	_
	S		Yes		
Certificates/ approval	S	Confirmatio		кс	
Certificates/ approval	S	Confirmatio		KC	cor
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approvals General Product Ap	s oproval		n Qu		EAC
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Certificates/ approvals General Product Ap	s oproval CCC Functional Safety/Safety of Machinery		on Use	Test Certificates	ERC Type Test Certific.
Certificates/ approvals General Product Ap	s oproval CCC Functional Safety/Safety of	Declaration o	on Use		ERE
Certificates/ approvals General Product Ap	s oproval CCC Functional Safety/Safety of Machinery Type Examination	Declaration of	on Use	Test Certificates	
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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=3RT2027-1AR60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AR60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AR60

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

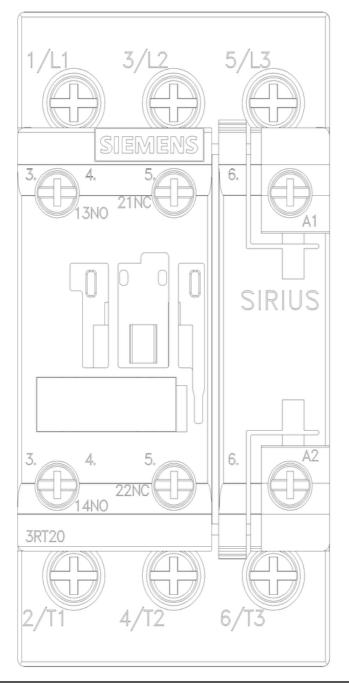
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-1AR60&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AR60/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AR60&objecttype=14&gridview=view1



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