# SIEMENS

### Data sheet

## 3RT2027-1AD00



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 42 V AC, 50 Hz 3-pole, size S0 screw terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.3 W
<ul> <li>without load current share typical</li> </ul>	9.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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 %

number of 0 contacts for main control circuit         3           operating voltage         3           • at AC-3 rated value maximum         680 V           • at AC-1 rated value         50 A           - up to 680 V at ambient temperature 40 °C         50 A           rated value         50 A           - up to 680 V at ambient temperature 40 °C         70 A           - at 400 V rated value         32 A           - at 400 V rated value         30 A           - at 400 V rated value         30 A           - at 400 V rated value         40 A           - at 40	Main circuit	
number of NO contacts for main contacts         3           operating volue maximum         680 v           • at AC-3 rated value maximum         680 v           • at AC-3 rated value maximum         680 v           • at AC-3 rated value maximum         680 v           • at AC-1 at 400 V at ambient temperature 40 °C         50 A           • at AC-1 at 400 V at ambient temperature 40 °C         50 A           • at AC-1         at 400 V rated value         32 A           - at 600 V rated value         30 A           - at 600 V rated value         30 A           - at 600 V for current peak value me20 rated         30 A           - aub 60 V for current		3
• # AC-3 raied value maximum600 Voperational current600 V• # AC-1 at 400 V at ambient temperature 40 °C50 A• at AC-1 at 400 V at ambient temperature 40 °C50 A• at AC-150 A• at AC-1400 V at ambient temperature 40 °C• at AC-150 A• at AC-250 A• at AC-250 A• at AC-320 A• at AC-321 A• at AC-3 at ADO V rated value22 A• at AC-3 at ADO V rated value23 A• at AC-3 at ADO V rated value20 A• at AC-4 at ADO V rated value20 A• at AC-5 at D b 50 V for current peak value n=20 rated21 A• at AC-5 at D b 50 V for current peak value n=20 rated21 A• at AC-5 at AC-421 A• at A	number of NO contacts for main contacts	3
• # AC-3c rated value maximum680 Voperational current50 Arated value50 A• at AC-1•- up to 680 V at ambient temperature 40 °C50 Arated value50 A- up to 680 V at ambient temperature 60 °C42 A• at AC-3•- at 400 V rated value32 A• at AC-332 A- at 600 V rated value32 A- at 600 V rated value30 A- at 600 V rated value44 A- at AC-3e- at 600 V rated value- up to 500 V for current peak value n=20 rated70 A- up to 600 V for current peak value n=20 rated70 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated13 A- up to 600 V for current peak value n=30 rated13 A- up to 600 V for current peak value n=30 rated13 A <td>operating voltage</td> <td></td>	operating voltage	
operational current         operational current           ai AC-14 400 via ambient temperature 40 °C         50 A	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-1 at 400 v1 ambient temperature 40 °C         50 A           • up to 569 v1 at ambient temperature 60 °C         50 A           • up to 569 v1 at ambient temperature 60 °C         42 A           • up to 569 v1 at ambient temperature 60 °C         42 A           • up to 509 v1 at ambient temperature 60 °C         42 A           • up to 500 v1 at ambient temperature 60 °C         42 A           • up to 500 v1 at ambient temperature 60 °C         42 A           • up to 500 v1 at at value         32 A           • up to 500 v1 at at value         32 A           • up to 700 v1 at at value         32 A           • up to 700 v1 at at value         32 A           • up to 700 v1 at at value         32 A           • up to 700 v1 at at value         32 A           • up to 700 v1 at at value         22 A           • up to 700 v1 at at value         22 A           • up to 700 v1 at at value         22 A           • up to 700 v1 at at value         25 A           • up to 700 v1 at at value         30.8 A           • up to 700 v1 for current peak value n=20 rated         70.8 A           • up to 600 v1 for current peak value n=30 rated         20.5 A           • up to 700 v1 for current peak value n=30 rated         18 A           • up to 700 v1 for current peak value n=30 ra	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
retar value       i al AC-1	operational current	
<ul> <li>ei AC-1</li> <li>up to 800 V at ambient temperature 40 °C</li> <li>ried Vaule</li> <li>- up to 800 V at ambient temperature 60 °C</li> <li>ried Vaule</li> <li>ei AC-3</li> <li>- ei 400 V rated value</li> <li>2 A</li> <li>- ei 500 V rated value</li> <li>21 A</li> <li>- ei 400 V rated value</li> <li>22 A</li> <li>- ei 400 V rated value</li> <li>22 A</li> <li>- ei 600 V rated value</li> <li>22 A</li> <li>- ei 70 Current pack value n=20 rated</li> <li>- up fo 600 V for current pack value n=20 rated</li> <li>- up fo 600 V for current pack value n=20 rated</li> <li>- up fo 600 V for current pack value n=20 rated</li> <li>- up fo 600 V for current pack value n=20 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- up fo 600 V for current pack value n=30 rated</li> <li>- ei 600 V rated value</li> <li>- ei 600 V rated value</li></ul>		50 A
		50 A
raide value         in the construction of the constru		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 500 V rated value32 Å- at 690 V rated value21 Å- at 690 V rated value22 Å- at 44 00 V rated value22 Å- at AC-5a up to 690 V rated value24 Å- at AC-5a up to 100 V for current peak value n=20 rated30.8 Å- up to 100 V for current peak value n=20 rated30.8 Å- up to 500 V for current peak value n=20 rated30.8 Å- up to 500 V for current peak value n=20 rated21 Å- up to 500 V for current peak value n=20 rated21 Å- up to 500 V for current peak value n=20 rated20.5 Å- up to 500 V for current peak value n=30 rated20.5 Å- up to 500 V for current peak value n=30 rated20.5 Å- up to 500 V for current peak value n=30 rated18 Å- up to 500 V for current peak value n=30 rated18 Å- up to 600 V for current peak value n=30 rated12 Å- at 400 V rated value12 Å- at 400 V rated value20.5 Å- at 400 V rated value20.5 Å- at 400 V rated value18 Å- at 400 V rated value12 Å- at 400 V rated value20.5 Å- at 400 V rated value35 Å- at 400 V rated value35 Å- at 4100 V rated value35 Å- at 4100 V rated value35 Å- at 4100 V rated value36 Å- at 4100 V rated value35 Å- at 4100 V rated value36 Å- at 41	• at AC-3e	
	— at 400 V rated value	32 A
• at AC-4 at 400 V rated value       22 A         • at AC-5a up to 690 V rated value       26 A         • at AC-5a up to 400 V for current peak value n=20 rated       30.8 A         - up to 500 V for current peak value n=20 rated       30.8 A         - up to 500 V for current peak value n=20 rated       30.8 A         - up to 500 V for current peak value n=20 rated       21 A         - up to 500 V for current peak value n=20 rated       21 A         - up to 500 V for current peak value n=30 rated       20.5 A         - up to 500 V for current peak value n=30 rated       20.5 A         - up to 500 V for current peak value n=30 rated       18 A         - up to 600 V for current peak value n=30 rated       10 mm²         outer       10 mm²         et al 00 V for durent peak value n=30 rated       10 mm²         operational current for approx. 200000 operating       20.5 A         et al 00 V for durent peak value n=30 rated       10 mm²         et al 00 V fated value       20 FA         • at 400 V fated value       25 A	— at 500 V rated value	32 A
• at AC-5a up to 690 V rated value       44 A         • at AC-5b up to 400 V rated value       25 A         • at AC-6a	— at 690 V rated value	21 A
<ul> <li>et AC-5b up to 400 V rated value</li> <li>et AC-5a</li> <li></li></ul>	• at AC-4 at 400 V rated value	22 A
• at AC-5b up to 400 V rated value       26.5 A         • at AC-5a       30.8 A         - up to 230 V for current peak value n=20 rated       30.8 A         value       30.8 A         - up to 500 V for current peak value n=20 rated       30.8 A         - up to 500 V for current peak value n=20 rated       27 A         - up to 500 V for current peak value n=20 rated       21 A         • at AC-5a       21 A         - up to 230 V for current peak value n=30 rated       20.5 A         value       20.5 A         - up to 500 V for current peak value n=30 rated       20.5 A         value       18 A         - up to 500 V for current peak value n=30 rated       10 mm²         rated value       10 mm²         operational current for approx. 20000 operating       12 A         operational current for approx. 20000 operating       12 A         operational current path at DC-1       12 A         - at 240 V rated value       35 A         - at 440 V rated value       025 A         • with 2 current path in series at DC-1       14 AO         - at 440 V rated value       35 A         - at 440 V rated value       35 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A </td <td>• at AC-5a up to 690 V rated value</td> <td>44 A</td>	• at AC-5a up to 690 V rated value	44 A
<ul> <li>at AC-6a         <ul> <li></li></ul></li></ul>		26.5 A
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value27 A		30.8 A
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up to 230 V for current peak value n=30 rated value20.5 Aup to 400 V for current peak value n=30 rated value20.5 Aup to 500 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value10 mm²up to 690 V for current peak value n=30 rated value12 A	value	21 A
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valueminimum cross-section in main circuit at maximum AC-1 rated value10 mm2operational current for approx. 200000 operating cycles at AC-412 A• at 400 V rated value12 A• at 690 V rated value12 A• at 690 V rated value12 A• at 1 current path at DC-1 at 24 V rated value35 A- at 24 V rated value1 A- at 20 V rated value0.4 A- at 440 V rated value0.25 A- at 600 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 440 V rated value35 A- at 440 V rated value35 A- at 440 V rated value1 A- at 440 V rated value35 A- at 440 V rated value5 A- at 460 V rated va	value	
rated valueoperational current for approx. 200000 operating cycles at AC-4• at 400 V rated value12 A• at 400 V rated value12 Aoperational current12 Aoperational current12 A• at 1 current path at DC-1 at 24 V rated value35 A- at 24 V rated value4.5 A- at 20 V rated value1 A- at 440 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A- at 24 V rated value35 A- at 440 V rated value0.25 A- at 440 V rated value35 A- at 24 V rated value35 A- at 24 V rated value1 A- at 24 V rated value1 A- at 24 V rated value35 A- at 440 V rated value35 A- at 200 V rated value35 A- at 200 V rated value35 A- at 200 V rated value35 A- at 440 V rated value35 A- at 440 V rated value36 A- a	value	
cycles at AC-412 A• at 400 V rated value12 A• at 690 V rated value12 Aoperational current12 A• at 1 current path at DC-1 at 24 V rated value35 A- at 110 V rated value4.5 A- at 220 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A- at 24 V rated value35 A- at 20 V rated value0.25 A• with 2 current paths in series at DC-1 at 20 V rated value35 A- at 440 V rated value35 A- at 440 V rated value14- at 20 V rated value5 A- at 440 V rated value5 A- at 440 V rated value5 A- at 440 V rated value5 A- at 600 V rated value1 A- at 600 V rated value5 A- at 440 V rated value5 A- at 600 V rated value1 A- at 600 V rated value5 A- at 600 V rated value1 A- at 600 V rated value1 A- at 600 V rated value0.8 A	rated value	
• 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         - at 24 V rated value       35 A         - at 24 V rated value       35 A         - at 24 V rated value       0.25 A         - at 24 V rated value       5 A         - at 24 V rated value       35 A         - at 440 V rated value       5 A         - at 440 V rated value       1 A         - at 440 V rated value       5 A         - at 440 V rated value       0.8 A	cycles at AC-4	
operational current• at 1 current path at DC-1- at 24 V rated value- at 24 V rated value- at 110 V rated value- at 220 V rated value- at 220 V rated value- at 440 V rated value- at 600 V rated value- at 600 V rated value- at 24 V rated value- at 240 V rated value- at 260 V rated value- at 440 V rated value- at 440 V rated value- at 440 V rated value- at 600 V rated value		
• at 1 current path at DC-135 A- at 24 V rated value35 A- at 210 V rated value4.5 A- at 220 V rated value1 A- at 440 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A- at 20 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 210 V rated value35 A- at 440 V rated value1 A- at 440 V rated value5 A- at 440 V rated value1 A- at 600 V rated value0.8 A		12 A
at 24 V rated value35 A at 210 V rated value4.5 A at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A•- at 24 V rated value35 A at 24 V rated value35 A at 210 V rated value35 A at 220 V rated value35 A at 220 V rated value5 A at 240 V rated value5 A at 240 V rated value5 A at 240 V rated value5 A at 440 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 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 220 V rated value       1 A         - at 240 V rated value       35 A         - at 240 V rated value       35 A         - at 220 V rated value       5 A         - at 240 V rated value       5 A         - at 440 V rated value       5 A         - at 600 V rated value       1 A	-	
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.4 A</li> <li>at 600 V rated value</li> <li>0.25 A</li> </ul> • with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>35 A</li> <li>at 110 V rated value</li> <li>35 A</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>1 A</li> <li>at 440 V rated value</li> <li>0.8 A</li> </ul>	— at 24 V rated value	
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.4 A</li> <li>at 600 V rated value</li> <li>0.25 A</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>35 A</li> <li>at 110 V rated value</li> <li>35 A</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.8 A</li> </ul>	— at 110 V rated value	
at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	— at 220 V rated value	1 A
with 2 current paths in series at DC-1	— at 440 V rated value	0.4 A
at 24 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		0.25 A
at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	— at 24 V rated value	
at 440 V rated value     1 A       at 600 V rated value     0.8 A	— at 110 V rated value	35 A
— at 600 V rated value 0.8 A	— at 220 V rated value	5 A
	— at 440 V rated value	1 A
with 3 current paths in series at DC-1	— at 600 V rated value	0.8 A
	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	

— at 24 V rated value	35 A			
— at 110 V rated value	35 A			
— at 220 V rated value	35 A			
— at 440 V rated value	2.9 A			
— at 600 V rated value	1.4 A			
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	20 A			
— at 110 V rated value	2.5 A			
— at 220 V rated value	1 A			
— at 440 V rated value	0.09 A			
— at 600 V rated value	0.06 A			
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	35 A			
— at 110 V rated value	15 A			
— at 220 V rated value	3 A			
— at 440 V rated value	0.27 A			
— at 600 V rated value	0.16 A			
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>				
— at 24 V rated value	35 A			
— at 110 V rated value	35 A			
— at 220 V rated value	10 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.6 A			
operating power				
at AC-2 at 400 V rated value	15 kW			
● at AC-3				
— at 230 V rated value	7.5 kW			
— at 400 V rated value	15 kW			
— at 500 V rated value	15 kW			
— at 690 V rated value	18.5 kW			
• at AC-3e				
— at 230 V rated value	7.5 kW			
— at 400 V rated value	15 kW			
— at 500 V rated value	15 kW			
— at 690 V rated value	18.5 kW			
operating power for approx. 200000 operating cycles				
at AC-4				
• at 400 V rated value	6 kW			
• at 690 V rated value	10.3 kW			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=20 rated value	12.2 kVA			
• up to 400 V for current peak value n=20 rated value	21.3 kVA			
• up to 500 V for current peak value n=20 rated value	23.3 kVA			
• up to 690 V for current peak value n=20 rated value	25 kVA			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=30 rated value	8.1 kVA			
• up to 400 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 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				
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	499 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	395 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	186 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	152 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	5 000 1/h			
operating frequency				
• at AC-1 maximum	1 000 1/h			
• at AC-2 maximum	750 1/h			

	750.4%
• at AC-3 maximum	750 1/h
• 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	42 V
operating range factor control supply voltage rated	
value of magnet coil at AC	0.0 4.4
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	77 \/A
• 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
inductive power factor with the holding power of the	9.0 VA
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 instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	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	10 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			
— 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			
<ul> <li>for short-circuit protection of the main circuit</li> </ul>			
— 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)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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		
<ul> <li>for grounded parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections			
<ul> <li>for main contacts</li> </ul>			
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)		
connectable conductor cross-section for main contacts			
• solid	1 10 mm <sup>2</sup>		
• stranded	1 10 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²		
connectable conductor cross-section for auxiliary contacts			
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		

type of connectable	e conductor cross-sec	tions			
<ul> <li>for auxiliary co</li> </ul>	ntacts				
— solid or st	randed		2x (0.5 1.5 mm²), 2x (0.7	75 2.5 mm²)	
— finely stra	<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²), 2x (0.7	75 2.5 mm²)	
at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14)	)		
AWG number as co section	ded connectable conc	luctor cross			
<ul> <li>for main contact</li> </ul>	cts		16 8		
<ul> <li>for auxiliary co</li> </ul>	ntacts		20 14		
Safety related data					
product function					
<ul> <li>mirror contact</li> </ul>	according to IEC 60947	-4-1	Yes		
B10 value with high of	demand rate according	o SN 31920	450 000		
proportion of dange	erous failures				
<ul> <li>with low demand</li> </ul>	nd rate according to SN	31920	40 %		
<ul> <li>with high dema</li> </ul>	and rate according to SN	31920	73 %		
failure rate [FIT] with 31920	low demand rate accor	ding to SN	100 FIT		
IEC 61508	st interval or service life		20 у		
60529	on the front according		IP20		
-	the front according to	DIEC 60529	finger-safe, for vertical cor	ntact from the front	
suitability for use					
<ul> <li>safety-related s</li> </ul>	-		Yes		
Certificates/ approva	ls				
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Kegister urs	RINA	RMRS
other					
<u>Confirmation</u>		<u>Confirmation</u>	<u>nc</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=3RT2027-1AD00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-1AD00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AD00

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

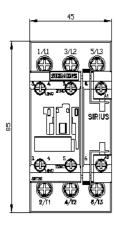
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2027-1AD00&lang=en

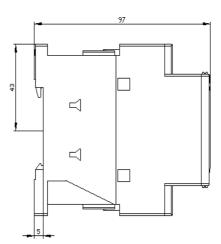
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

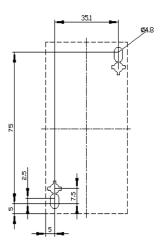
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-1AD00/char

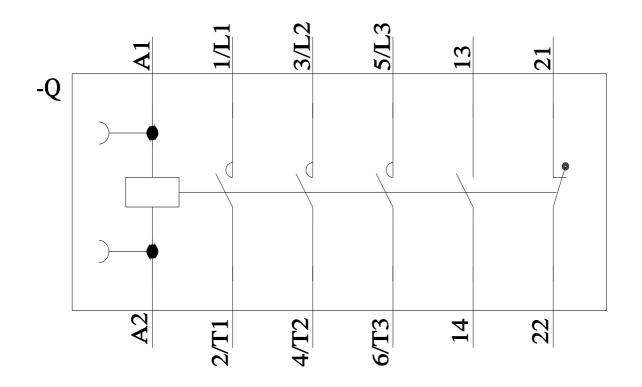
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-1AD00&objecttype=14&gridview=view1









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