## SIEMENS

## Data sheet

## 3RT2023-1AC20-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, upright mounting position

6/13	
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	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
<ul> <li>without load current share typical</li> </ul>	2 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating 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
Weight	0.41 kg
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 %

Aain 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		
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A	
• at AC-1		
— up to 690 V at ambient temperature 40 °C rated value	40 A	
— up to 690 V at ambient temperature 60 °C rated value	35 A	
• at AC-3		
— at 400 V rated value	9 A	
— at 500 V rated value	9 A	
— at 690 V rated value	9 A	
• at AC-3e		
— at 400 V rated value	9 A 0 A	
— at 500 V rated value	9 A 0 A	
— at 690 V rated value	9 A 0 5 A	
at AC-4 at 400 V rated value	8.5 A	
at AC-5a up to 690 V rated value	35.2 A	
• at AC-5b up to 400 V rated value	7.4 A	
• at AC-6a	11.4 A	
— up to 230 V for current peak value n=20 rated value	11.4 A	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.1 A	
— up to 500 V for current peak value n=20 rated value	9.TA 9.A	
at AC-6a	5A	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A	
— up to 200 V for current peak value n=30 rated value	7.6 A	
— up to 500 V for current peak value n=30 rated value	6.1 A	
— up to 690 V for current peak value n=30 rated value	6.1 A	
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>	
operational current for approx. 200000 operating cycles at AC-4		
at 400 V rated value	4.1 A	
• at 690 V rated value	3.3 A	
operational current		
• at 1 current path at DC-1		
— at 24 V rated value	35 A	
— at 60 V rated value	20 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	
<ul> <li>with 2 current paths in series at DC-1</li> </ul>		
— at 24 V rated value	35 A	
— at 60 V rated value	35 A	
— at 110 V rated value	35 A	
— at 220 V rated value	5 A	
— at 440 V rated value	1 A	
— 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 60 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 24 V rated value       20 A         - at 60 V rated value       5 A         - at 220 V rated value       1 A         - at 440 V rated value       0.09 A         - at 400 V rated value       0.06 A         - at 600 V rated value       35 A         - at 60 V rated value       35 A         - at 60 V rated value       35 A         - at 60 V rated value       36 A         - at 220 V rated value       36 A         - at 20 V rated value       36 A         - at 40 V rated value       36 A         - at 60 V rated value       35 A         - at 60 V rated value       36 A         - at 60 V rated value
- at 60 V rated value       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         - at 600 V rated value       35 A         - at 24 V rated value       35 A         - at 600 V rated value       35 A         - at 10 V rated value       15 A         - at 220 V rated value       0.27 A         - at 400 V rated value       0.16 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A         - at 440 V rated value       0.27 A         - at 600 V rated value       0.16 A         - at 600 V rated value       35 A         - at 600 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 400 V rated value       4 kW         • at AC-2 at 400 V rated value       4 kW         • at AC-2 at 400 V rated value       4 kW         • at AC-3 V rated value       4 kW         - at 630 V rated value       4 kW <t< td=""></t<>
- at 220 V rated value       1 A         - 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 60 V rated value       35 A         - at 60 V rated value       35 A         - at 40 V rated value       35 A         - at 40 V rated value       0.27 A         - at 400 V rated value       0.27 A         - at 60 V rated value       0.27 A         - at 24 V rated value       0.27 A         - at 24 V rated value       0.27 A         - at 60 V rated value       0.6 A         - at 24 V rated value       35 A         - at 600 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 600 V rated value       2.2 kW         - at 600 V rated value       4 kW         • at 600 V rated value       4 kW         • at 600 V rated value       4 kW         • at 600 V rated value       4 kW      <
- 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 60 V rated value       35 A         - at 60 V rated value       35 A         - at 60 V rated value       35 A         - at 110 V rated value       36 A         - at 220 V rated value       3A         - at 400 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 600 V rated value       35 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A         - at 220 V rated value       35 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A         - at 600 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 230 V rated value       4 kW         • at AC-2 at 400 V rated value       2 2 kW         - at 230 V rated value       4 kW         - at 500 V rated value       4 kW         - at 600 V rated value
- 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 600 V rated value       35 A         - at 10 V rated value       15 A         - at 220 V rated value       0.27 A         - at 600 V rated value       0.16 A         - at 600 V rated value       35 A         - at 600 V rated value       0.16 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A         - at 600 V rated value       0.6 A         - at 600 V rated value       35 A         - at 600 V rated value       35 A         - at 220 V rated value       35 A         - at 110 V rated value       35 A         - at 220 V rated value       35 A         - at 220 V rated value       0.6 A         - at 420 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 600 V rated value       0.6 A         - at 600 V rated value       4 kW
• with 2 current paths in series at DC-3 at DC-5         5           - at 24 V rated value         35 A           - at 60 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         0.6 A           - at 110 V rated value         35 A           - at 220 V rated value         0.6 A           - at 400 V rated value         0.6 A           - at 600 V rated value         0.6 A           - at 600 V rated value         0.6 A           - at 230 V rated value         0.6 A           - at 230 V rated value         4 kW           - at 230 V rated value         2.2 kW           - at 400 V rated value         4 kW           - at 530 V rated value         4 kW           - at 690 V rated value         7.5 kW
at 24 V rated value35 A at 60 V rated value35 A at 110 V rated value15 A at 220 V rated value3 A at 400 V rated value0.27 A at 600 V rated value0.16 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value35 A at 60 V rated value0.6 A at 440 V rated value0.6 A at 600 V rated value4 kW at 600 V rated value4 kW at 230 V rated value2.2 kW at 400 V rated value4 kW at 500 V rated value4 kW at 600 V rated value7.5 kW
at 60 V rated value35 A at 110 V rated value15 A at 220 V rated value3 A at 440 V rated value0.27 A at 600 V rated value0.16 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value35 A at 60 V rated value35 A at 60 V rated value35 A at 60 V rated value35 A at 110 V rated value35 A at 220 V rated value35 A at 220 V rated value0.6 A at 440 V rated value0.6 A at 400 V rated value0.6 A at 230 V rated value4 kW at 400 V rated value2.2 kW at 400 V rated value4 kW at 600 V rated value4 kW at 600 V rated value4 kW at 600 V rated value5.2 kW at 400 V rated value4 kW at 600 V rated value4 kW at 600 V rated value4 kW at 600 V rated value5.5 kW
- at 110 V rated value15 A- at 220 V rated value3 A- at 440 V rated value0.27 A- at 600 V rated value0.16 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value35 A- at 60 V rated value35 A- at 60 V rated value35 A- at 110 V rated value36 A- at 220 V rated value0.6 A- at 220 V rated value0.6 A- at 400 V rated value0.6 A- at 600 V rated value4 kW- at 400 V rated value4 kW- at 230 V rated value4 kW- at 400 V rated value4 kW- at 500 V rated value4 kW- at 400 V rated value5.8 KW- at 400 V rated value5.8 KW- at 400 V rated value5.8 KW- at 690 V rated value7.5 kW- at 690 V rated value7.5 kW
- at 220 V rated value       3 A         - 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 60 V rated value       35 A         - at 60 V rated value       35 A         - at 10 V rated value       35 A         - at 220 V rated value       0.6 A         - at 400 V rated value       0.6 A         - at AC-2 at 400 V rated value       0.6 A         - at 230 V rated value       4 kW         • at AC-3       -         - at 600 V rated value       4 kW         - at 600 V rated value       2.2 kW         - at 200 V rated value       4 kW         • at AC-3       -         - at 600 V rated value       4 kW         - at 600 V rated value       2.2 kW
at 440 V rated value0.27 A at 600 V rated value0.16 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value35 A at 60 V rated value35 A at 10 V rated value35 A at 220 V rated value10 A at 440 V rated value0.6 A at 600 V rated value0.6 A at 600 V rated value0.6 A at 440 V rated value0.6 A at 600 V rated value0.6 A at 230 V rated value4 kW at 230 V rated value2.2 kW at 400 V rated value4 kW at 500 V rated value4 kW at 690 V rated value7.5 kW at 690 V rated value7.5 kW
at 600 V rated value0.16 A• with 3 current paths in series at DC-3 at DC-535 A at 24 V rated value35 A at 60 V rated value35 A at 110 V rated value35 A at 220 V rated value10 A at 440 V rated value0.6 A at 600 V rated value0.6 A at 400 V rated value2.2 kW at 230 V rated value4 kW at 300 V rated value4 kW at 300 V rated value2.2 kW at 600 V rated value4 kW at 600 V rated value4 kW at 600 V rated value7.5 kW at 600 V rated value7.5 kW
• with 3 current paths in series at DC-3 at DC-535 A- at 24 V rated value35 A- at 60 V rated value35 A- at 110 V rated value35 A- at 220 V rated value10 A- at 440 V rated value0.6 A- at 600 V rated value0.6 A- at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW- at 300 V rated value4 kW- at 600 V rated value7.5 kW- at 600 V rated value7.5 kW
- at 24 V rated value       35 A         - at 60 V rated value       35 A         - at 110 V rated value       35 A         - at 220 V rated value       10 A         - at 220 V rated value       0.6 A         - at 600 V rated value       2.2 kW         - at 230 V rated value       2.2 kW         - at 400 V rated value       4 kW         - at 500 V rated value       4 kW         - at 600 V rated value       7.5 kW         - at 690 V rated value       7.5 kW
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.6 A</li> </ul> Operating power <ul> <li>at AC-2 at 400 V rated value</li> <li>4 kW</li> <li>at AC-3</li> <li>at 230 V rated value</li> <li>2.2 kW</li> <li>at 400 V rated value</li> <li>4 kW</li> <li>at 600 V rated value</li> <li>500 V rated value</li> <li>4 kW</li> <li>at 600 V rated value</li> <li>500 V rated value</li> <li>4 kW</li> <li>at 600 V rated value</li> <li>500 V rated value</li></ul>
at 110 V rated value35 A at 220 V rated value10 A at 440 V rated value0.6 A at 600 V rated value0.6 Aoperating power4 kW• at AC-2 at 400 V rated value4 kW• at AC-3
at 220 V rated value10 A at 440 V rated value0.6 A at 600 V rated value0.6 Aoperating power0.6 A• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW at 400 V rated value4 kW at 500 V rated value4 kW at 690 V rated value7.5 kW at 690 V rated value7.5 kW
at 440 V rated value0.6 A at 600 V rated value0.6 Aoperating power0.6 A• at AC-2 at 400 V rated value4 kW• at AC-3 at 230 V rated value2.2 kW at 400 V rated value4 kW at 500 V rated value4 kW at 690 V rated value7.5 kW at AC-3e
at 600 V rated value0.6 Aoperating power4 kW• at AC-2 at 400 V rated value4 kW• at AC-32.2 kW at 230 V rated value2.2 kW at 400 V rated value4 kW at 500 V rated value4 kW at 690 V rated value7.5 kW• at AC-3e
operating power4 kW• at AC-2 at 400 V rated value4 kW• at AC-32.2 kW- at 230 V rated value2.2 kW- at 400 V rated value4 kW- at 500 V rated value4 kW- at 690 V rated value7.5 kW• at AC-3e
operating power4 kW• at AC-2 at 400 V rated value4 kW• at AC-32.2 kW- at 230 V rated value2.2 kW- at 400 V rated value4 kW- at 500 V rated value4 kW- at 690 V rated value7.5 kW• at AC-3e
<ul> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>
<ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>
- at 500 V rated value     4 kW       - at 690 V rated value     7.5 kW       • at AC-3e     7.5 kW
<ul> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>
• at AC-3e
- at 230 V rated value 2.2 kW
— at 400 V rated value 4 kW
— at 500 V rated value 4 kW
— at 690 V rated value 7.5 kW
operating power for approx. 200000 operating cycles at AC-
4
• at 400 V rated value 2 kW
at 690 V rated value     2.5 kW
operating apparent power at AC-6a
• up to 230 V for current peak value n=20 rated value 4.5 kVA
• up to 400 V for current peak value n=20 rated value 7.8 kVA
• up to 500 V for current peak value n=20 rated value 7.8 kVA
• up to 690 V for current peak value n=20 rated value 10.7 kVA
operating apparent power at AC-6a
• up to 230 V for current peak value n=30 rated value 3 kVA
• up to 400 V for current peak value n=30 rated value 5.2 kVA
• up to 500 V for current peak value n=30 rated value 5.2 kVA
• up to 690 V for current peak value n=30 rated value 7.2 kVA
short-time withstand current in cold operating state up to 40 °C
• limited to 1 s switching at zero current maximum 170 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum 170 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum 140 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum 104 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum     88 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 1 000 1/h
• at AC-3 maximum 1 000 1/h
• at AC-3e maximum 1 000 1/h

● at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 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	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	0.72
• at 50 Hz	0.72
• at 60 Hz	0.74
<ul> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	7.9 VA
• at 50 Hz	6.5 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	
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
• 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	40.4
at 24 V rated value	10 A
at 48 V rated value     at 60 V rated value	6 A
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	6 A 3 A
at 110 V rated value     at 125 V rated value	2 A
at 220 V rated value	1A
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	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	

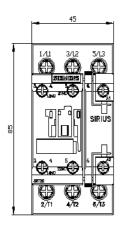
• for single-phase AC motor	1 hn
— at 110/120 V rated value	1 hp
— at 230 V rated value	1 hp
for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (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	standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
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	0 mm
forwards	10 mm
— upwards	10 mm
— 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	
<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	
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
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
— intery stranded with core end processing	2x (0.0 1.0 mm), 2x (0.70 2.0 mm))

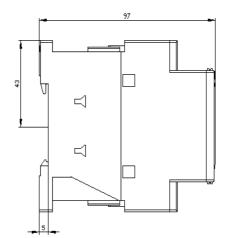
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
for main contacts	16 8	
<ul> <li>for auxiliary contacts</li> </ul>	20 14	
Safety related data		
product function		
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes	
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No	
<ul> <li>suitable for safety function</li> </ul>	Yes	
suitability for use safety-related switching OFF	Yes	
service life maximum	20 a	
test wear-related service life necessary	Yes	
proportion of dangerous failures		
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %	
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %	
B10 value with high demand rate according to SN 31920	1 000 000	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
ISO 13849		
device type according to ISO 13849-1	3	
overdimensioning according to ISO 13849-2 necessary	Yes	
IEC 61508		
safety device type according to IEC 61508-2	Туре А	
Electrical Safety		
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Further information		
Information on the packaging		
https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RT2023-1AC20-1AA0 Cax online generator		
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AC20-1AA0		
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AC20-1AA0		
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1AC20-1AA0⟨=en		
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3BT2023-1AC2		

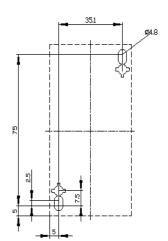
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AC20-1AA0/char

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

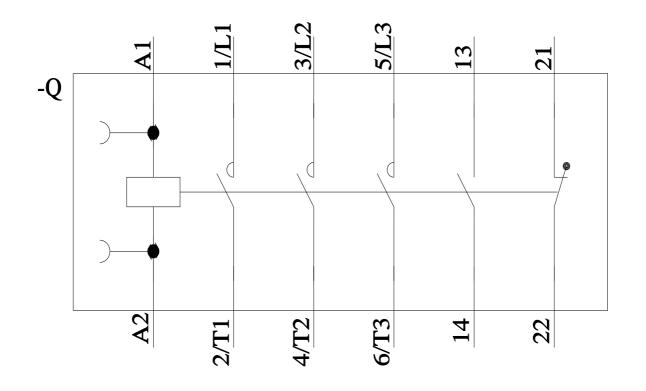
 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1AC20-1AA0&objecttype=14&gridview=view1











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7/19/2024 🖸