SIEMENS

Data sheet

3RT2023-2AN24



power contactor, AC-3 9 A, 4 kW / 400 V 2 NO + 2 NC, 220 V AC 50 / 60 Hz, 3-pole Size S0, Spring-type terminal Removable auxiliary switch

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	SO			
product extension				
 function module for communication 	No			
auxiliary switch	No			
power loss [W] for rated value of the current				
 at AC in hot operating state 	0.6 W			
 at AC in hot operating state per pole 	0.2 W			
without load current share typical	7.9 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	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 (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	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
— at 500 V rated value	9 A
— at 690 V rated value	9 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 — up to 230 V for current peak value n=20 rated 	11.4 A
- up to 200 V for current peak value n=20 rated - up to 400 V for current peak value n=20 rated	11.4 A
value — up to 500 V for current peak value n=20 rated	9.1 A
value — up to 690 V for current peak value n=20 rated	9 A
value	
 at AC-6a up to 230 V for current peak value n=30 rated value 	7.6 A
— up to 400 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 mm²
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 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	
a man e canoni patrio in conco at Do-1	

at 24 V rated value35 A at 110 V rated value35 A at 220 V rated value35 A at 440 V rated value2.9 A at 600 V rated value1.4 A• at 1 current path at DC-3 at DC-5
 at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 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 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 35 A at 24 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 35 A at 220 V rated value 0.66 A with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 0.66 A with 2 current paths in series at DC-3 at DC-5 at 240 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 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 440 V rated value at 600 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 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 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 220 V rated value 36 A at 440 V rated value 37 A at 440 V rated value 38 A at 440 V rated value 35 A at 220 V rated value 36 A at 440 V rated value 37 A at 440 V rated value 38 A at 440 V rated value 39 A at 440 V rated value 30 A at 440 V rated value 35 A at 440 V rated value 36 A at 440 V rated value 37 A at 440 V rated value 38 A at 440 V rated value 39 A at 440 V rated value 31 A at 440 V rated value 35 A at 110 V rated value 35 A at 24 V rated value 35 A
at 600 V rated value1.4 A• at 1 current path at DC-3 at DC-520 A at 24 V rated value20 A at 110 V rated value2.5 A at 220 V rated value1 A at 440 V rated value0.09 A at 600 V rated value0.06 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value35 A at 24 V rated value34 at 220 V rated value35 A at 220 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 440 V rated value35 A at 24 V rated value35 A at 110 V rated value35 A
• at 1 current path at DC-3 at DC-5 20 A - at 24 V rated value 2.5 A - at 110 V rated value 1 A - at 220 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 0.27 A - at 600 V rated value 0.27 A - at 600 V rated value 0.27 A - at 600 V rated value 35 A - at 240 V rated value 35 A - at 440 V rated value 35 A - at 440 V rated value 35 A - at 440 V rated value 35 A - at 24 V rated value 35 A
- at 24 V rated value20 A- at 110 V rated value2.5 A- at 220 V rated value1 A- at 220 V rated value0.09 A- at 440 V rated value0.06 A• at 600 V rated value35 A- at 24 V rated value15 A- at 220 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 value3.5 A- at 240 V rated value3.6 A- at 240 V rated value3.6 A- at 240 V rated value3.6 A- at 240 V rated value3.7 A- at 600 V rated value3.6 A- at 100 V rated value3.5 A- at 240 V rated value3.5 A- at 240 V rated value3.5 A
 at 110 V rated value at 220 V rated value at 220 V rated value 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 3 A at 220 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 440 V rated value 36 A
at 220 V rated value1 A at 440 V rated value0.09 A at 600 V rated value0.06 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value35 A at 110 V rated value15 A at 220 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 440 V rated value at 600 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 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 24 V rated value 35 A
 at 600 V rated value with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 110 V rated value at 220 V rated value 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
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 110 V rated value at 110 V rated value b A at 220 V rated value at 220 V rated value b A at 440 V rated value b A <lib a<="" li=""> <lib a<="" lit<="" td=""></lib></lib>
 at 110 V rated value at 220 V rated value 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 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 110 V rated value35 A
 at 600 V rated value 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
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 24 V rated value35 A— at 110 V rated value35 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-3
 — 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
• 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 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 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 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 7.2 kVA
up to 690 V for current peak value n=30 rated value 7.2 kVA 7.2 kVA
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 122 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum 78 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum 68 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-3e maximum • at AC-4 maximum	300 1/h
• at AC-4 maximum Control circuit/ Control	
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	000.17
• at 50 Hz rated value	220 V
at 60 Hz rated value	220 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	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	7.9 VA
• at 60 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	2
instantaneous contact	
	2 2
instantaneous contact number of NO contacts for auxiliary contacts	
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	2
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	2
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	2 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	2 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	2 10 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	2 10 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	2 10 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 operational current at DC-12	2 10 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 24 V rated value	2 10 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 24 V rated value • at 48 V rated value	2 10 A 6 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	2 10 A 6 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	2 10 A 6 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	2 10 A 6 A 3 A 2 A 1 A 10 A 6 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value	2 10 A 6 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 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 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 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	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 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 • at 600 V rated value • at 220 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 6 A 3 A 2 A 1 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 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 212 V rated value • at 600 V rated value • at 212 V rated value • at 600 V rated value • at 210 V rated value • at 410 V rated value • at 410 V rated value • at 410 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 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 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 220 V rated value • at 220 V rated value • at 220 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.9 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 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	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 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 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	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.9 A 0.3 A 0.1 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 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 24 V rated value • at 220 V rated value • at 25 V rated value • at 260 V rated value • at 27 V rated value • at 20 V rated value • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 200 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.9 A 0.3 A 0.1 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 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 24 V rated value • at 220 V rated value • at 25 V rated value • at 260 V rated value • at 27 V rated value • at 20 V rated value • at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.15 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 200 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 1 A 0.9 A 0.3 A 0.1 A

• at 600 V rated value	9 A				
yielded mechanical performance [hp]					
for single-phase AC motor					
— 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 / Q600				
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)				
 — with type of assignment 2 required 	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)				
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)				
required					
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting 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	102 mm 45 mm				
width					
depth required spacing					
with side-by-side mounting					
with side-by-side mounting — forwards	10 mm				
— upwards	10 mm				
— upwards — downwards	10 mm				
— at the side	0 mm				
for grounded parts					
— 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					
for main current circuit	spring-loaded terminals				
 for auxiliary and control circuit 	spring-loaded terminals				
 at contactor for auxiliary contacts 	Spring-type terminals				
of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections					
 for main contacts 					
— solid	2x (1 10 mm²)				
— solid or stranded	2x (1 10 mm²)				
 finely stranded with core end processing 	2x (1 6 mm²)				
 finely stranded without core end processing 	2x (1 6 mm²)				
at AWG cables for main contacts	2x (18 8)				
connectable conductor cross-section for main contacts					
• solid	1 10 mm²				
• stranded	1 10 mm²				
 finely stranded with core end processing 	1 6 mm²				

e finaly strandad wit	bout core and proces	sing	1 6 mm²				
connectable conducto	thout core end proces		10111112				
contacts	1 01033-3601011101	auxinary					
 solid or stranded 	solid or stranded			0.5 2.5 mm ²			
 finely stranded wit 	finely stranded with core end processing			0.5 1.5 mm ²			
 finely stranded wit 	 finely stranded without core end processing 			0.5 2.5 mm ²			
type of connectable co	onductor cross-sect	ions					
 for auxiliary contact 	cts						
— solid or stran	– solid or stranded		2x (0.5 2.5 mm²)				
 finely stranded with core end processing 		2x (0.5 1.5 mm²)					
— finely strande	- finely stranded without core end processing		2x (0.5 2.5 mm²)				
 at AWG cables for 	at AWG cables for auxiliary contacts		2x (20 14)				
AWG number as coded section	d connectable cond	uctor cross					
 for main contacts 			18 8				
 for auxiliary contact 	cts		20 14				
Safety related data							
product function							
 mirror contact acc 	ording to IEC 60947-	4-1	Yes				
 positively driven o 5-1 	peration according to	IEC 60947-	No				
B10 value with high dem	nand rate according to	o SN 31920	450 000				
proportion of dangero	us failures						
	rate according to SN		40 %				
	rate according to SN		73 %				
31920	failure rate [FIT] with low demand rate according to SN 31920		100 FIT				
IEC 61508	T1 value for proof test interval or service life according to IEC 61508		20 у				
protection class IP on 60529	the front according	to IEC	IP20				
touch protection on th	e front according to	IEC 60529	finger-safe,	for vertical cor	tact from the front		
suitability for use							
 safety-related swit 	tching OFF		Yes				
Certificates/ approvals							
General Product Appr	oval						
(SP)	<u>Confirmation</u>			U) u	<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	,	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA		CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	
Marine / Shipping							
ABS	BUREAU VERITAS			Lloyds Register uis	PRS	RINA	
Marine / Shipping	other						

7/8/2022

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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=3RT2023-2AN24

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-2AN24

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-2AN24

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

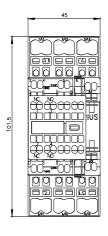
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-2AN24&lang=en

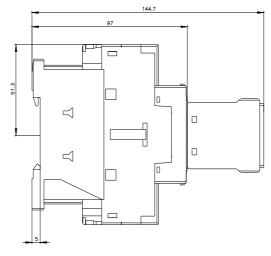
Characteristic: Tripping characteristics, I²t, Let-through current

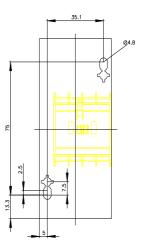
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-2AN24/char}$

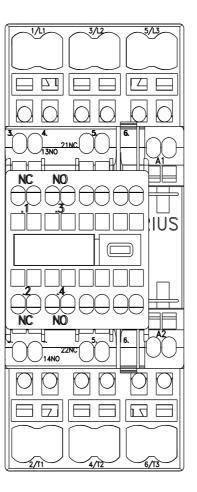
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-2AN24&objecttype=14&gridview=view1









last modified:

6/2/2022 🖸