Data sheet 3RT2027-2CK64-3MA0



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, captive auxiliary switch

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	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.3 W
 at AC in hot operating state per pole 	2.3 W
without load current share typical	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 protective separation 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 (operating 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 	50 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	50 A
value	40 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
	21 A
— at 690 V rated value● at AC-4 at 400 V rated value	22 A
	44 A
at AC-5a up to 690 V rated value	
at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	00.0 A
— 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	21 A
• at AC-6a	
 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 mm²
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 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 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	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1 at 24 V rated value.	25 A
— 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 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

1041/	00.4
— 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 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 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
 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 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
	10.5 KVV
• at AC-3e	7.5 120
— 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-	
at 400 V rated value	6 kW
at 490 V rated value at 690 V rated value	10.3 kW
operating apparent power at AC-6a	10.0 KVV
• up to 230 V for current peak value n=20 rated value	12.2 kVA
·	21.3 kVA
up to 400 V for current peak value n=20 rated value	
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	0.41374
• 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	
	400 At Lieu minimum erose coetion and to AC 4 rated value
Ilimited to 1 s switching at zero current maximum	499 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 5 s switching at zero current maximum	341 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 10 s switching at zero current maximum	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
	5 000 1/h
• at AC	5 000 1/h 1 000 1/h
at AC operating frequency	
at AC operating frequency at AC-1 maximum	1 000 1/h
at AC operating frequency at AC-1 maximum at AC-2 maximum	1 000 1/h 750 1/h
 at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum 	1 000 1/h 750 1/h 750 1/h
 at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3e maximum 	1 000 1/h 750 1/h 750 1/h 750 1/h

type of voltage of the control supply voltage at AC AC at 60 14z cited voltage at AC 100 V at 60 14z cited voltage at AC 120 V at 60 14z cited voltage at AC 120 V at 60 14z cited voltage at AC 0.81.1 at 60 14z cited voltage at AC 0.81.1 at 60 14z cited voltage at AC 0.81.1 at 60 14z cited voltage at AC 1.1 at 60 14z cited voltage at AC 1.1 at 60 14z cited voltage at AC 1.1 at 60 14z cited voltage at AC 1.2 at 60 14z cited voltage at AC 1.2 at 60 14z cited voltage at AC 0.74 apparent pickup power of magnet coil at AC 10.5 VA at 60 14z cited voltage at AC 0.25 at 60 14z cited voltage at AC 0.25 at 60 14z cited voltage at AC 0.25 at 60 14z cited voltage at AC 4 16 ma at 60 14z cited voltage at AC <th></th> <th>10</th>		10
a all 01 1/2 rated value	type of voltage of the control supply voltage	AC
a at 01tz rated value		
Content or any factor control supply voltage rated value or magnet coll at AC 0.8	at 50 Hz rated value	110 V
magnet coll at AC	at 60 Hz rated value	120 V
eat 80 Hz		
design of the surge suppressor	● at 50 Hz	0.8 1.1
aparent pick-up power of magnet coil at AC a it 50 Hz b at 50 Hz b at 50 Hz at 50 Hz at 50 Hz b at 50 Hz b at 50 Hz at 50 Hz b at 50 Hz	• at 60 Hz	0.8 1.1
** all 50 Hz	design of the surge suppressor	with varistor
• al 80 Hz 10 Hz	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coil	● at 50 Hz	81 VA
• at 50 Hz	● at 60 Hz	79 VA
	inductive power factor with closing power of the coil	
a paramet holding power of magnet coil at AC	● at 50 Hz	0.72
* at 50 Hz	• at 60 Hz	0.74
	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil	● at 50 Hz	10.5 VA
• at 50 Hz • at 60 Hz • at 60 Hz • at AC opening delay • at AC scring time arcing time control version of the switch operating mechanism witchilary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact outperational current at AC-12 maximum 10 A operational current at AC-18 maximum operational current at DC-12 at 24 V rated value at 600 V rated value at 1600 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 148 V rated value at 148 V rated value at 149 V rated value at 149 V rated value at 140 V rated value at 150 V rated value at 160 V rated value at 175 V rated value at 180 V	● at 60 Hz	8.5 VA
• at 50 Hz • at 60 Hz • at 60 Hz • at AC opening delay • at AC scring time arcing time control version of the switch operating mechanism witchilary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact outperational current at AC-12 maximum 10 A operational current at AC-18 maximum operational current at DC-12 at 24 V rated value at 600 V rated value at 1600 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 148 V rated value at 148 V rated value at 149 V rated value at 149 V rated value at 140 V rated value at 150 V rated value at 160 V rated value at 175 V rated value at 180 V	inductive power factor with the holding power of the coil	
		0.25
• at AC 8 40 ms opening delay 4 16 ms arcing time 10 10 ms control varsion of the switch operating mechanism Standard A1 - A2 withilary circuit 10 ms number of NC contacts for auxiliary contacts instantaneous contact 2 number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 maximum 10 A operational current at AC-12 maximum 6 A • at 230 V rated value 8 A • at 440 V rated value 1 A • at 690 V rated value 1 A • at 690 V rated value 6 A • at 14 V rated value 6 A • at 14 V rated value 6 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 1 A • at 25 V rated value		
Second		8 40 ms
* al AC 4 16 ms	*****	
arcing time		4 16 ms
control version of the switch operating mechanism Standard A1 - A2 waxilary circuit Contacts number of NC contacts for auxiliary contacts instantaneous contact 2 contact 2 number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 ————————————————————————————————————		
Number of NC contacts for auxiliary contacts instantaneous contact c	•	
number of NC contacts for auxiliary contacts instantaneous contact 2 number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 *** • at 230 V rated value 6 A • at 450 V rated value 2 A • at 690 V rated value 1 A • at 48 V rated value 6 A • at 10 V rated value 6 A • at 10 V rated value 3 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 220 V rated value 1 A • at 125 V rated value 0.9 A • at 125 V rated value 0.9 A • at 220 V rated value 0.1 A • at 125 V rated value 0.1 A <td< td=""><td></td><td>Constant of the</td></td<>		Constant of the
contact contact number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 - • at 2500 V rated value 6 A • at 500 V rated value 1A • at 6800 V rated value 1A • at 680 V rated value 10 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 1A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 24 V rated value 6 A • at 250 V rated value 2 A • at 4600 V rated value 2 A • at 48 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 0.9 A • at 220 V rated value 0.3 A <td></td> <td>2</td>		2
contact contact operational current at AC-12 maximum 10 A operational current at AC-15 CA a at 230 V rated value 6 A a at 400 V rated value 2 A at 690 V rated value 1 A operational current at DC-12 Value at 24 V rated value 6 A at 48 V rated value 6 A at 110 V rated value 3 A at 125 V rated value 2 A at 250 V rated value 3 A at 125 V rated value 2 A at 220 V rated value 1 A at 220 V rated value 6 A at 48 V rated value 6 A at 24 V rated value 2 A at 60 V rated value 2 A at 24 V rated value 2 A at 25 V rated value 2 A at 110 V rated value 2 A at 210 V rated value 3 A at 25 V rated value 3 A <td></td> <td>2</td>		2
Name	•	2
• at 230 V rated value	operational current at AC-12 maximum	10 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 48 V rated value at 110 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 126 V rated value at 127 V rated value at 128 V rated value at 129 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 125 V rated value at 125 V rated valu	operational current at AC-15	
	 at 230 V rated value 	6 A
• at 690 V rated value 10 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 80 V rated value 1 A • at 80 V rated value 2 A • at 220 V rated value 1 A • at 60 V rated value 1 A • at 60 V rated value 2 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 3 A • at 220 V rated value 4 A • at 48 V rated value 5 A • at 48 V rated value 6 A • at 48 V rated value 9 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 120 V rated value 1 A • at 420 V rated value 1 A • at 420 V rated value 2 A • at 600 V rated value 3 A • at 600 V rated value 3 A • at 600 V rated value 2 A • at 600 V rated value 3 A • at 600 V rated value 3 A • at 600 V rated value 4 A • at 600 V rated value 5 A • at 600 V rated value 2 A • at 600 V rated value 27 A • at 600 V rated value 27 A • at 600 V rated value 27 A	 at 400 V rated value 	3 A
Operational current at DC-12	 at 500 V rated value 	2 A
 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 42 V rated value at 42 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 480 V rated value at 600 V rated value 	at 690 V rated value	1 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value out 5 A Operational current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 600 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 100 V rated value at 200 V rated value at 200 V rated value at 600 V rated value at 480 V rated value at 600 V rated value <l< td=""><td>operational current at DC-12</td><td></td></l<>	operational current at DC-12	
• 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 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value	at 24 V rated value	10 A
• 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 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value	• at 48 V rated value	6 A
 at 125 V rated value 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 4 48 V rated value 2 A 4 48 V rated value 2 A 4 110 V rated value 4 110 V rated value 5 V rated value 1 A 4 125 V rated value 1 A 4 125 V rated value 1 A 4 120 V rated value 1 A 20 V rated value 3 A 1 faulty switching per 100 million (17 V, 1 mA) 1L/CSA ratings 1 faulty switching per 100 million (17 V, 1 mA) 27 A 1 at 600 V rated value 27 A 1 at 600 V rated value 27 A 27 A 1 performance [hp] 	• at 60 V rated value	6 A
	• at 110 V rated value	3 A
● at 600 V rated value 0.15 A operational current at DC-13 6 A ● at 24 V rated value 6 A ● at 48 V rated value 2 A ● at 60 V rated value 1 A ● at 110 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) JL/CSA ratings full-load current (FLA) for 3-phase AC motor 27 A ● at 600 V rated value 27 A ● at 600 V rated value 27 A ● at 600 V rated value 27 A	at 125 V rated value	2 A
operational current at DC-13 • at 24 V rated value	at 220 V rated value	1 A
 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 600 V rated value yielded mechanical performance [hp] 	at 600 V rated value	0.15 A
 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 600 V rated value yielded mechanical performance [hp] 		
 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 480 V rated value at 480 V rated value at 600 V rated value <li< td=""><td>•</td><td>6 A</td></li<>	•	6 A
 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 0.1 A Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 480 V rated value at 600 V rated value yielded mechanical performance [hp]		
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) L/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp]		
at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp]		
at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 27 A yielded mechanical performance [hp]		
at 600 V rated value ontact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) JL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp]		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp]		
JL/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]		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 27 A yielded mechanical performance [hp]		Tradity Switching per 100 million (17 V, 1 ma)
● at 480 V rated value ● at 600 V rated value 27 A yielded mechanical performance [hp] 27 A 27 A		
• at 600 V rated value 27 A yielded mechanical performance [hp]		07.4
yielded mechanical performance [hp]		
		27 A
● for single-phase AC motor		
	• 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 / Q600
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 DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	102 mm
width	45 mm
depth	144 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
— 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 main current circuit	spring-loaded terminals spring-loaded terminals
for main current circuit for auxiliary and control circuit	spring-loaded terminals
for main current circuit	
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	spring-loaded terminals Spring-type terminals
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	spring-loaded terminals Spring-type terminals
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	spring-loaded terminals Spring-type terminals Spring-type terminals
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts	spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²)
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 1 10 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 10 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 10 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely conductor cross-section for auxiliary contacts connectable conductor cross-section for auxiliary contacts	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts for magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing solid or stranded connectable conductor cross-section for auxiliary contacts solid or stranded	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing stranded finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm² 0.5 2.5 mm² 0.5 1.5 mm²
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing	spring-loaded terminals Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm² 0.5 2.5 mm² 0.5 1.5 mm²

 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section	
 for main contacts 	18 8
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
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
suitability for use	
 safety-related switching OFF 	Yes
Certificates/ approvals	

General Product Approval



Confirmation





<u>KC</u>



Functional EMC Declaration of Conformity Test Certificates Marine / Shipping Safety/Safety of Machinery



Type Examination Cer**tificate**





Type Test Certificates/Test Report



Marine / Shipping













Railway other **Environment**

Confirmation



Vibration and Shock

Environmental Confirmations

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2027-2CK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2CK64-3MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2CK64-3MA0

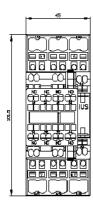
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

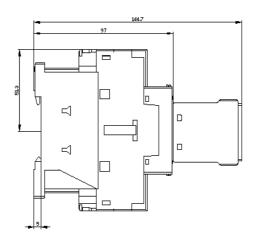
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2CK64-3MA0&lang=en

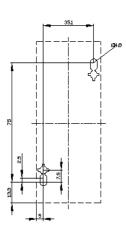
Characteristic: Tripping characteristics, I2t, Let-through current

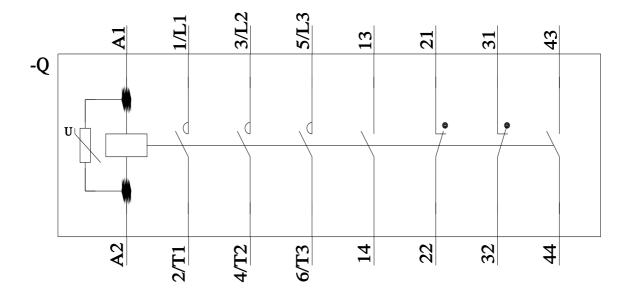
https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2CK64-3MA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2CK64-3MA0&objecttype=14&gridview=view1









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