## SIEMENS

## Data sheet

## 3RT2028-1AV00-0JA0



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, India 40 A, Tu max. 50  $^\circ\text{C}$ 

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
• at AC in hot operating state	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.2 W
<ul> <li>without load current share typical</li> </ul>	2.5 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
• 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 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)	
<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)	
Weight	0.42 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +50 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

lain 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>	50 A	
• at AC-1		
— up to 690 V at ambient temperature 40 °C rated value	50 A	
— up to 690 V at ambient temperature 60 °C rated value	42 A	
• at AC-3		
— at 400 V rated value	38 A	
— at 500 V rated value	32 A	
— at 690 V rated value	21 A	
• at AC-3e		
— at 400 V rated value	38 A	
— at 500 V rated value	32 A	
— at 690 V rated value	21 A	
• at AC-4 at 400 V rated value	22 A	
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	44 A	
• at AC-5b up to 400 V rated value	31.5 A	
• at AC-6a		
— up to 230 V for current peak value n=20 rated value	30.8 A	
— up to 400 V for current peak value n=20 rated value	30.8 A	
— up to 500 V for current peak value n=20 rated value	30.8 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	21.4 A	
— up to 690 V for current peak value n=30 rated value	21 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		
<ul> <li>at 1 current path at DC-1</li> </ul>		
— 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	
-	35 A 35 A	
— at 24 V rated value		
— at 24 V rated value — at 60 V rated value	35 A	

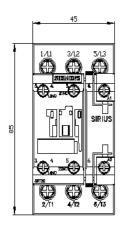
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</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	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	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 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	26.6 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	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 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>	593 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	341 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>	199 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	162 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
• at AC-3 maximum	750 1/h
<ul> <li>at AC-3e maximum</li> </ul>	750 1/h

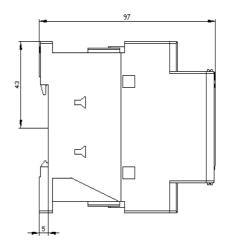
• at AC-4 maximum	250 1/h
Control circuit/ Control	
	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	100.1/
at 50 Hz rated value	400 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	77 VA
inductive power factor with closing power of the coil	
• 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 coil	
• at 50 Hz	0.25
closing delay	0.20
• 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	1
contact	'
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	
• at 24 V rated value	10 A
• at 48 V rated value	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	34 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	3 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

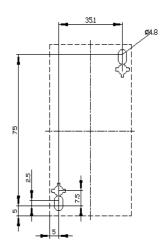
at 575/600 V rated value       25 hp         contact rating of auxiliary contacts according to UL       A600 / P600         Short-circuit protection	— at 460/480 V rated value	25 hp
contact rating of auxiliary contacts according to UL         A600 / P600           Short-chrout protection of the main circuit		
Short-circuit protection         design of the fues link         - with type of coordination of the main circuit         - with type of coordination is required         - with type of coordination is required         - with type of coordination is required         for short-circuit protection of the auxiliary switch required         for short-circuit protection of the auxiliary switch required         fastening method         fastening method         fastening method         - with ade-by-side mounting outfores can be titled floward by the safet mounting surface can be titled floward by the safet mounting onto 35 nm DIN rail according to DIN EN 60         height         with ade-by-side mounting         - forwards       10 mm         - downwards       10 mm         - of mailing curine loricuit       screw-type terminals <td></td> <td>· ·</td>		· ·
design of the fuse link         • for short-circul protection of the main circuit         - with type of coordination 1 required         of short-circul protection of the auxiliary switch required         mounting position         ************************************		
for short dicult protection of the main iccuit		
- with type of assignment 2 required with type of assignment 2 required if a short-carl protection of the auxiliary witch required so (4150, 4000, 1000A), aM: 20A (6900, 1000A), BSB8: 50A (415V, 80A) gS: 10A (6900, 1000A), aM: 20A (6900, 1000A), BSB8: 50A (415V, 80A) if attaining position witch appendix and appendix appendix and appendix app	0	
- with type of assignment 2 required g3: 50A (800V, 100A), abt. 25A (690V, 100A), BS88. 50A (415V, 80A) g2: 10 A (600 V, 1 IA) Treatment of means and the auxiliary switch required g3: 10 A (600 V, 1 IA) Treatment of means and the auxiliary switch required the advectory of 22 C or vertical amounting surface: can be tilted forward balght width dsmm width dsm	-	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
Installation/ mounting dimensions         -4/-180° rotation possible on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backward by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on vertical mounting surface, can be titled forware backware by -1/-22 5° on main can be -100° mm -100° mm		
backward by +/-22.5' on vertical mounting surface           fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60           height         65 mm           with         45 mm           depth         97 mm           required spacing         97 mm           • with add-by-side mounting         -           - (pwards         10 mm           - upwards         10 mm           - downwards         10 mm           - of main current circuit </td <td></td> <td></td>		
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60height85 mmdepth97 mmrequired spacing97 mm- forwards10 mm- upwards10 mm- downwards10 mm- onnectloar/ toricuitscrew-type terminalsstrate-collscrew-type terminalsstrate-collconnectloar• for auxilary and control circuitscrew-type terminals• of anget collScrew-type terminals• of anget collScrew-type terminals• for auxilary and control circuitscrew-type t	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
height     85 mm       width     45 mm       depth     97 mm       required spacing     97 mm       • with side-by-side mounting     10 mm       - gowwards     10 mm       - gowwards     10 mm       - dowwards     10 mm       - dowrwards     10 mm <td></td> <td>, , , , , , , , , , , , , , , , , , ,</td>		, , , , , , , , , , , , , , , , , , ,
width     45 mm       dopth     97 mm       required spacing     97 mm       - forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - upwards     10 mm       - downwards     10 mm       - of or auxiliary and control circuit     screw-type terminals       tor auxiliary and control circuit     screw-type terminals       for auxiliary cont		screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
depth     97 mm       required spacing     97 mm       • with side-by-side mounting     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - dorwards     10 mm       - at the side     0 mm       - forwards     10 mm       - at the side     0 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - of main curent		
required spacing         • with side-by-side mounting        forwards       10 mm        upwards       10 mm        downwards       10 mm        forwards       10 mm        downwards       10 mm        downwards       10 mm        forwards       10 mm        forwards       10 mm        downwards       10 m		
• with side-by-side mounting       10 mm         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - at the side       0 mm         - forwards       10 mm         - at the side       0 mm         - upwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm	•	97 IIIII
forwards10 mm upwards00 mm downwards00 mm at the side0 mm for wards10 mm forwards10 mm upwards10 mm upwards10 mm at the side6 mm downwards10 mm downwardsScrew-type terminals for auxiliary contactsScrew-type terminals of main contacts2x (1 25 mm <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> ) solid2x (1 25 mm <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> ) solid2x (1 25 mm <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> ) solid1 10 mm <sup>2</sup> solid1 10 mm <sup>2</sup> finely stranded with core end processing2x (1 25 mm <sup>2</sup> ), 2		
		10 mm
downwards     10 mm      at the side     0 mm       • for grounded parts     10 mm      powards     10 mm      upwards     10 mm      at the side     6 mm      downwards     10 mm      downwards     50 mm      at the side     6 mm      oontectable conductor cross-sections     5 crew-type terminals      solid     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       <		
at the side     0 mm       • for grounded parts     forwards       forwards     10 mm       upwards     10 mm       at the side     6 mm       downwards     10 mm       downwards     10 mm       downwards     10 mm       forwards     10 mm       downwards     10 mm       at the side     6 mm       Connections     5 crew-type terminals       • for main current circuit     screw-type terminals       • of magnet coll     2 crew-type terminals       type of connectable conductor cross-sections     5 crew-type terminals       • of or auxiliary and contol circuit     screw-type terminals       • of or auxiliary contacts     2 cr (1 25 mm <sup>2</sup> ), 2 x (2 5 10 mm <sup>2</sup> )       • olid     1 10 mm <sup>2</sup> • for MWG cables for main contacts     2 cr (1 25 mm <sup>2</sup>	•	
• for grounded parts       - forwards       10 mm         - upwards       10 mm         - upwards       6 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       6 mm         - downwards       10 mm         - downwards       6 mm         - downwards       5 mm         - at the side       6 mm         - at the side       6 mm         • for auxillary and control circuit       screw-type terminals         • for main contracts       5 crew-type terminals         • for auxillary contacts       Screw-type terminals         • for auxillary contacts       Screw-type terminals         • for auxillary contacts       2 x (1 25 mm?), 2x (2.5 10 mm?)         - nolid       <		
- forwards       10 mm         - upwards       10 mm         - at the side       6 mm         - downwards       10 mm         • for live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - upwards       10 mm         - downwards       10 mm         - domneations// Terminals       10 mm         Connections// Terminals       6 mm         Connections// Terminals       5 crew-type terminals         of maginget coil       Screw-type terminals         of maginget coil       Screw-type terminals         • of rausiliary and control circuit       screw-type terminals         • of main contacts       2x (1 25 mm²), 2x (2.5 10 mm²)         • of adjonest conductor cross-sections       5 connectable conductor cross-sections         • for Alvi Cables for main contacts       2x (1 25 mm²), 2x (2.5 10 mm²)         - solid       2x (1 25 mm²), 2x (2.5 10 mm²)         - solid or stranded       1 10 mm²         • of advitor cross-section for main contacts       2x (1 25 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid or stranded       1 10 mm²         • of a auxiliary contacts       2x (1 2		
upwards10 mm at the side6 mm downwards10 mmof like parts10 mm forwards10 mm upwards10 mm upwards10 mm downwards6 mm at the side6 mmConnections/TerminalsVery of electrical connectionof main current circuitscrew-type terminalsof nami current circuitscrew-type terminalsof nami current circuitscrew-type terminalsof or auxiliary contactsScrew-type terminalsof mapie coil2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid1 10 mm²- finely stranded with core end processing1 10 mm²- solid or stranded1 10 mm²- solid or stranded1 10 mm²- finely stranded with core end processing1 10 mm²- solid or stranded1 10 mm²- finely stranded with core end processing0.5 2.5 mm²)- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<		10 mm
downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm downwards10 mm downwards10 mm at the side6 mmConnectionstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of main contractsScrew-type terminals• of main contactsScrew-type terminals• of auxiliary contactsScrew-type terminals• of auxiliary contactsScrew-type terminals• of main contactsScrew-type terminals• of auxiliary contactsScrew-type terminals• of AWG cables for main contactsZx (1 2.5 mm²), 2x (2.5 10 mm²)• of AWG cables for main contactsZx (1 2.5 mm²), 2x (2.5 10 mm²)• of auxiliary contactsI 10 mm²• of auxiliary contactsScrew-type terminals• solid or stranded0.5 2.5 mm²• solid or strandedScrew-type terminals• for auxiliary contactsScrew-type terminals• for auxiliary contacts <td></td> <td></td>		
• for live parts       I0 mm         - forwards       10 mm         - upwards       10 mm         - downwards       0 mm         - at the side       6 mm         Connections/ Terminals         type of electrical connection         • for auxiliary and control circuit       screw-type terminals         • of rauxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         • of main contacts       - solid         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       2x (1 2.5 mm³), 2x (2.5 10 mm³)         - solid or stranded       1 10 mm²         • solid or stranded       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5		
forwards10 mm upwards10 mm downwards10 mm at the side6 mm at the side6 mmconnection[Streminals]type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of main contactsScrew-type terminals• of main contactsScrew-type terminals• of main contactsScrew-type terminals• for avxiliary and control circuitScrew-type terminals• of main contactsScrew-type terminals• for anin contactsScrew-type terminals• for awarded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for awardedyex (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
- downwards       10 mm         - at the side       6 mm         Connections/ Terminals         type of electrical connection         • for auxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       • for main contacts         - solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • solid       1 10 mm²         • solid       1 10 mm²         • stranded       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core end processing       1 10 mm²         • finely stranded with core end processing       2 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processin		10 mm
at the side     6 mm       Connections/ Terminals     type of electrical connection       • for main current circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of magnet coil     Screw-type terminals       type of connectable conductor cross-sections     Screw-type terminals       • for main contacts     Screw-type terminals       - solid     2x (1 2.5 mm²), 2x (2.5 10 mm²)       - solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       - solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       - solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       - solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       - solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • for AWG cables for main contacts     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • solid     1 10 mm²       • solid     1 10 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) <t< td=""><td>— upwards</td><td>10 mm</td></t<>	— upwards	10 mm
Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         • at contactor for auxiliary contacts       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       • for main contacts         - solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       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 10 mm²)         - solid or stranded       1 10 mm²         • solid       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²)         • solid or stranded       0.5 2.5 mm²)         • finely stranded with core end processing       0.5 2.5 mm²)         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— downwards	10 mm
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coli</li> </ul> screw-type terminals             • of magnet coli         Screw-type terminals           type of connectable conductor cross-sections <ul> <li>of main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>for AWG cables for main contacts</li> <li>solid</li> <li>they stranded with core end processing</li> <li>a solid</li> <li>they stranded</li> <li>they stranded with core end processing</li> <li>solid</li> <li>they stranded with core end processing</li> <li>they stranded</li> <li>they stranded with core end processing</li> <li>they stranded with co</li></ul>	— at the side	6 mm
• for main current circuit       screw-type terminals         • for auxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       Screw-type terminals         • for main contacts       Screw-type terminals         - solid       Screw-type terminals         - solid or stranded       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         - solid or stranded       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         - finely stranded with core end processing       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for AWG cables for main contacts       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • solid       1 10 mm <sup>2</sup> • stranded       1 10 mm <sup>2</sup> • stranded       1 10 mm <sup>2</sup> • finely stranded with core end processing       1 10 mm <sup>2</sup> • solid or stranded       0.5 2.5 mm <sup>2</sup> • for auxiliary contacts       2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )         • for auxiliary contacts       2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )         • ofinely stranded with core end processing       2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )         • finely stranded w	Connections/ Terminals	
<ul> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>for main contacts</li> <li>solid</li> <li>a solid or stranded</li> <li>for AWG cables for main contacts</li> <li>a solid</li> <li>for AWG cables for auxiliary contacts</li> <li>a solid</li> <li>timely stranded with core end processing</li> <li>finely stranded</li> <li>finely stranded</li> <li>finely stranded</li> <li>finely stranded</li> <li>finely stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded</li> <li>finely stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>2x (0.5 1.5 mm<sup>2</sup>), 2x (0.75 2.5 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (20 16), 2x (18 14)</li> </ul>	type of electrical connection	
• at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       -         • for main contacts       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       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         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid       1 10 mm²         • finely stranded with core end processing       2x (1 2.5 mm²)         • solid       1 10 mm²         • stranded       1 10 mm²         • finely stranded with core end processing       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core e	for main current circuit	screw-type terminals
• of magnet coilScrew-type terminalstype of connectable conductor cross-sections-• for main contacts solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts-• solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5	<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
type of connectable conductor cross-sections• for main contacts- solid- solid or stranded- solid or stranded- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts• solid1 10 mm²• solid• stranded• stranded• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• for auxiliary contacts• for auxiliary contacts- solid or stranded- solid or stranded- solid or stranded- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>for main contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>solid or stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>for AWG cables for main contacts</li> <li>solid</li> <li>for AWG cables for main contacts</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>solid or stranded</li> <li>solid</li> <li>solid or stranded</li> <li< td=""><td>of magnet coil</td><td>Screw-type terminals</td></li<></ul></li></ul>	of magnet coil	Screw-type terminals
solid2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (1 6 12), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross2x (20 16), 2x (18 14)	type of connectable conductor cross-sections	
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connectable conductor cross-section for auxiliary contacts         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       0.5 2.5 mm²         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>0.5 2.5 mm<sup>2</sup></li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>2x (0.5 1.5 mm<sup>2</sup>), 2x (0.75 2.5 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm<sup>2</sup>), 2x (0.75 2.5 mm<sup>2</sup>)</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross</li> </ul>		1 10 MM*
• finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       • for auxiliary contacts         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross	-	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)         — finely stranded with core end processing         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts         2x (20 16), 2x (18 14)		
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> </ul>		0.0 2.0 mm
— solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         — finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross       2x (20 16), 2x (18 14)		
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> </ul>	-	$2x (0.5 \pm 1.5 \text{ mm}^2) 2x (0.75 \pm 2.5 \text{ mm}^2)$
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)           AWG number as coded connectable conductor cross		
AWG number as coded connectable conductor cross		
	AWG number as coded connectable conductor cross	
• for main contacts 16 8	• for main contacts	16 8
• for auxiliary contacts 20 14	<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	Safety related data	

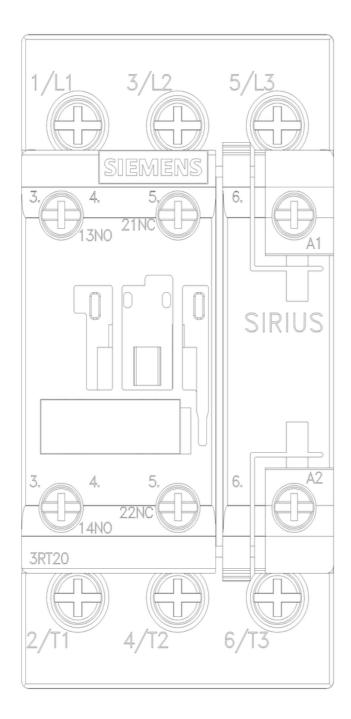
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
<ul> <li>suitable for safety function</li> </ul>	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related 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/catalog/product?ml Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.as	lfb=3RT2028-1AV00-0JA0
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1AV00-0JA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AV00-0JA0	
Image database (product images, 2D dimension drawings, 3I http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3I	RT2028-1AV00-0JA0⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through curro https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AV	
The strategy of the strategy o	

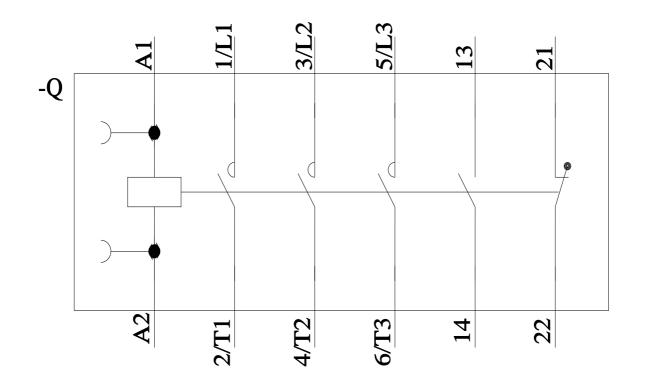
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1AV00-0JA0&objecttype=14&gridview=view1











last modified:

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