SIEMENS

Data sheet

3RT2015-1AM21



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 208 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00,

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
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 	4.2 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 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	5
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	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	18 A
value	
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
 — up to 400 V for current peak value n=30 rated value 	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-2 at 400 V rated value	3 kW
• at AC-3	
	1.5 kW
— at 230 V rated value	
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	4.45.114
• at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	1.5 kVA
 up to 400 V for current peak value n=20 rated value 	2.7 kVA
 up to 500 V for current peak value n=20 rated value 	3.3 kVA
 up to 690 V for current peak value n=20 rated value 	4.3 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1 kVA
 up to 400 V for current peak value n=30 rated value 	1.8 kVA
 up to 500 V for current peak value n=30 rated value 	2.2 kVA
 up to 690 V for current peak value n=30 rated value 	2.9 kVA
short-time withstand current in cold operating state up to	
40 °C	
Imited to 1 s switching at zero current maximum	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 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
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	208 V
at 60 Hz rated value	
	208 V
operating range factor control supply voltage rated value of	208 V

• al 60 Hz055 m lappert pick upper of magnet coll at AC21 VA• al 50 Hz21 VA• al 50 Hz0.8• al 50 Hz0.8• al 50 Hz0.3 VA• al 50 Hz0.3 VA• al 50 Hz0.3 VA• al 50 Hz0.2 VA• al 50 Hz0.3 VA• al 50 Hz0.2 VA• al 70 Hz0.2 VA• al 70 Hz0.2 VA• al 70 Hz0.4 VA<																																																																																																		
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• at 24 V rated value 10 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 25 V rated value 0.3 A • at 25 V rated value 0.3 A • at 60 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 600 V rated value 4.8 A • at 600 V rated value 0.1 A • at 600 V rated value 0.25 hp • at 200 V rated value 0.25 hp • at 600 V rated value 0.25 hp • at 200 V rated value 0.75 hp • for 3-phase AC motor - - at 200 V rated value 1.5 hp -</td><td> at 48 V rated value </td><td>6 A</td></tr> <tr><td>• 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 600 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.9 A • at 10 V rated value 0.3 A • at 600 V rated value 0.1 A • at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) <i>IL/CSA ratings</i> - 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at 575/600 V rated value 5 hp</td><td>• at 600 V rated value</td><td>0.15 A</td></tr> <tr><td>• at 48 V rated value 2 A • at 60 V rated value 2 A • at 10 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 contac reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) L/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 4.8 A • at 480 V rated value 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] - • at 320 V rated value 0.25 hp • at 200 V rated value 0.25 hp • at 200/208 V rated value 1.5 hp • at 200/208 V rated value 3 hp • at 200/208 V rated value 3 hp • at 400/480 V rated value 3 hp • at 400/480 V rated value 3 hp • at 600/480 V rated value 3 hp • at 600/480 V rated value</td><td>operational current at DC-13</td><td></td></tr> <tr><td>• 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) JU/CSA ratings full-load current (FLA) for 3-phase AC motor 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] - 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at 575/600 V rated value 5 hp	JL/CSA ratings		• at 600 V rated value 6.1 A yielded mechanical performance [hp] - • for single-phase AC motor - - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 200/208 V rated value 2 hp - at 200/208 V rated value 3 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp	full-load current (FLA) for 3-phase AC motor		yielded mechanical performance [hp] Figure 4 • for single-phase AC motor 0.25 hp - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp	• at 480 V rated value	4.8 A	• for single-phase AC motor 0.25 hp - at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp	• at 600 V rated value	6.1 A	- at 110/120 V rated value 0.25 hp - at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp	yielded mechanical performance [hp]		- at 230 V rated value 0.75 hp • for 3-phase AC motor - - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp	 for single-phase AC motor 		• for 3-phase AC motor · - at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600	— at 110/120 V rated value	0.25 hp	- at 200/208 V rated value 1.5 hp - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600	— at 230 V rated value	0.75 hp	- at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL A600 / Q600	• for 3-phase AC motor			— at 200/208 V rated value	1.5 hp		— at 220/230 V rated value	2 hp	contact rating of auxiliary contacts according to UL A600 / Q600	— at 460/480 V rated value	3 hp		— at 575/600 V rated value	5 hp	Short-circuit protection	contact rating of auxiliary contacts according to UL	A600 / Q600		Short-circuit protection	
• at 690 V rated value	1 A																																																																																																	
• al 48 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 0.15 A operational current at DC-13 - • at 24 V rated value 0.04 A • at 600 V rated value 0.15 A operational current at DC-13 - • at 24 V rated value 2 A • at 24 V rated value 2 A • at 60 V rated value 0.4 • at 60 V rated value 0.9 A • at 220 V rated value 0.3 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JJ/CSA ratings - field on V rated value 6.1 A • at 800 V rated value 6.1 A • at 800 V rated value 0.25 hp - at 110/120 V rated value 0.25 hp • at 200 V rated value	operational current at DC-12																																																																																																	
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	— at 575/600 V rated value	5 hp																																																																																																
Short-circuit protection	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: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (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	58 mm
width	45 mm
depth	73 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	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
at contactor for auxiliary contactsof magnet coil	Screw-type terminals Screw-type terminals
-	
of magnet coil	
of magnet coil type of connectable conductor cross-sections for main contacts	Screw-type terminals
of magnet coil type of connectable conductor cross-sections for main contacts solid	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid solid or stranded	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded of finely stranded with core end processing connectable conductor cross-section for main contacts solid	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded of inely stranded with core end processing connectable conductor cross-section for main contacts solid solid stranded	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid solid stranded inely stranded with core end processing	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 2.5 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid stranded sinely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded solid or stranded finely stranded with core end processing	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm²
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts for auxiliary contacts 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm²
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for auxiliary contacts modulation of the stranded finely stranded with core end processing 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded finely stranded with core end processing for auxiliary contacts solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 2.5 mm² 0.5 4 mm² 2.5 mm² 2.5 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 4 mm² 2.5 4 mm² 2.5 2.5 mm² 2.5 4 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.4 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 2.5 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 2.5 2.5 mm² 0.5 4 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 4 mm² 2.5 4 mm² 2.5 4 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 20 12
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts for auxiliary contacts Safety related data 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 2.5 mm² 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 2.5 2.5 mm² 0.5 4 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 4 mm² 2.5 4 mm² 2.5 4 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 2.5 mm² 2.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 20 12
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1,5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (20 15 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12 Yes
 of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts solid or stranded for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data product function	Screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0,5 1,5 mm²), 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.5 4 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14), 2x 12 20 12 20 12

 with high demar 	nd rate according to SN 319	20 73	%		
failure rate [FIT] with lo	ow demand rate according to	o SN 31920 10	0 FIT		
T1 value for proof test 61508	interval or service life accor	ding to IEC 20	a		
protection class IP or	n the front according to IE	C 60529 IP2	20		
touch protection on the front according to IEC 60529		60529 fing	ger-safe, for vertical contact	from the front	
suitability for use					
 safety-related sy 	witching on	Ye	S		
 safety-related sv 	0	Ye			
ertificates/ approvals	-				
General Product App					
() M	Confirmation			KC	EAC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conf	formity	Test Certificates	
	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific ates/Test Report
Marine / Shipping			Lloyds Register us	PRS	RINA
Marine / Shipping	other		Railway	Environment	
	<u>Confirmation</u>		Vibration and Shock	Environmental Con- firmations	
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Please contact your lo EAC relevant market (other than the sanctioned E ackaging	atus of validity of the E AEU member states R	EAC certification if you intend Russia or Belarus).	d to import or offer to supp	ly these products to a
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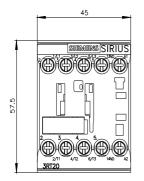
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AM21&lang=en

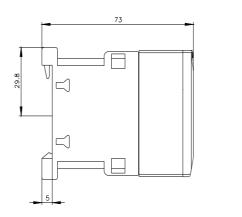
Characteristic: Tripping characteristics, I²t, Let-through current

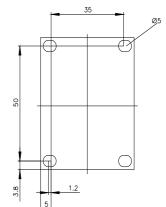
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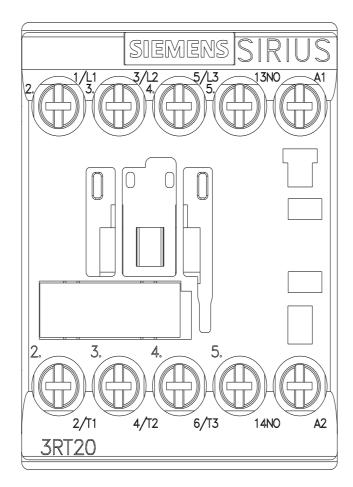
 Further characteristics (e.g. electrical endurance, switching frequency)

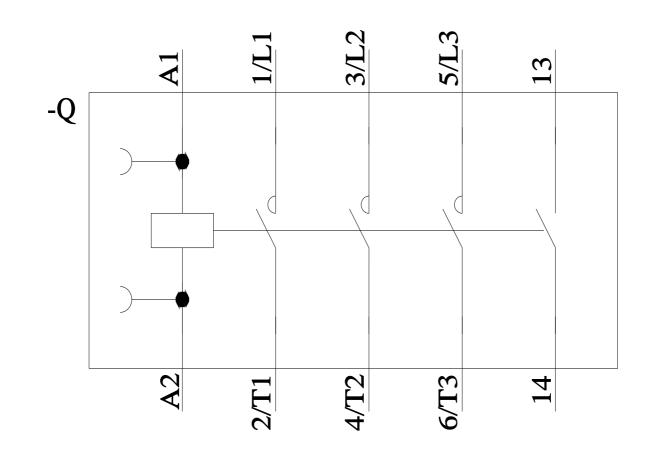
 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AM21&objecttype=14&gridview=view1











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