SIEMENS

Data sheet

3RT2017-2AF02

power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NC, 110 V AC, 50 / 60 Hz 3-pole, Size S00 Spring-type terminal



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	

 Auxiliary switch 	Yes
Surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	400 V
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms

Shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	Q
	X
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
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
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-2 at 400 V rated value	12 A
● at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
— up to 230 V at current peak n=20 rated value	7.2 A
— up to 400 V at current peak n=20 rated value	7.2 A
— up to 500 V at current peak n=20 rated value	7.2 A

— up to 690 V at current peak n=20 rated value	6.7 A
• at AC-6a	
— up to 230 V at current peak n=30 rated	4.8 A
value	
— up to 400 V at current peak n=30 rated value	4.8 A
— up to 500 V at current peak n=30 rated value	4.8 A
— up to 690 V at current peak n=30 rated value	4.8 A
Minimum cross-section in the main circuit	
 at maximum AC-1 rated value 	4 mm ²
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	2.5 mm ²
• at 40 °C minimum permissible	4 mm ²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 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	20 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	
● at AC-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• at AC-2 at 400 V rated value	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
Thermal short-time current limited to 10 s	90 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	1.2 W
 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-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	110 V

Operating range factor control supply voltage rated value of magnet coll at AC 0.8 1.1 • at 50 Hz 0.8 1.1 Apparent pick-up power of magnet coll at AC 0.8 1.1 • at 50 Hz 37 V.A • at 60 Hz 0.8 1.1 Inductive power factor with closing power of the coll 0.8 • at 60 Hz 0.8 • at 60 Hz 0.8 • at 60 Hz 0.75 Apparent holding power of magnet coll at AC 0.8 • at 50 Hz 0.75 Apparent holding power of magnet coll at AC 0.8 • at 50 Hz 0.75 Apparent holding power of magnet coll at AC 0.8 • at 50 Hz 0.75 Inductive power factor with the holding power of the coll 0.25 Closing delay 0.25 • at 60 Hz 0.25 Closing delay 0.25 • at AC 8 33 ms Opening delay 10 15 ms • at AC 1 Operating current at AC-15 1 • at 230 V rated value 3A • at 230 V rated value 3A • at 230 V rated value		440.1/
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Opening delay• at AC4 15 msArcing time10 15 msControl version of the switch operating mechanismStandard A1 - A2Auxiliary circuitStandard A1 - A2Auxiliary circuit1Number of NC contacts for auxiliary contacts • instantaneous contact1Operating current at AC-12 maximum10 AOperating current at AC-1510 A• at 230 V rated value3 A• at 690 V rated value1 AOperating current at DC-121• at 24 V rated value10 A• at 690 V rated value6 A• at 60 V rated value3 A• at 110 V rated value3 A	Closing delay	
• at AC415 msArcing time10 15 msControl version of the switch operating mechanismStandard A1 - A2Auxiliary circuitImage: Auxiliary contactsAuxiliary circuit1Number of NC contacts for auxiliary contacts1Operating current at AC-12 maximum10 AOperating current at AC-15Image: Auxiliary contact• at 230 V rated value10 A• at 230 V rated value3 A• at 500 V rated value2 A• at 690 V rated value10 A• at 24 V rated value10 A• at 24 V rated value6 A• at 60 V rated value3 A• at 10 V rated value3 A	● at AC	8 33 ms
Arcing time10 15 msControl version of the switch operating mechanismStandard A1 - A2Auxiliary circuitImage: Control version of the switch operating mechanismStandard A1 - A2Auxiliary circuitImage: Control version of the switch operating mechanismImage: Control version of the switch operating mechanismAuxiliary circuitImage: Control version of the switch operating contacts of auxiliary contactsImage: Control version of the switch operating contacts of auxiliary contactsNumber of NC contacts for auxiliary contactsImage: Control version of the switch operating contactImage: Control version of the switch operating contactOperating current at AC-12 maximumImage: Control version of the switch operating contactImage: Control version of the switch operating contactOperating current at AC-15Image: Control version of the switch operating current at DC-15Image: Control version operating current at DC-12Image: Control version of version operating current at DC-12Image: Control version operating current at DC-12Image: Control version operating version operating current at Control version operating current at DC-12Image: Control version operating current at Con	Opening delay	
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Auxiliary circuitNumber of NC contacts for auxiliary contacts• instantaneous contact1Operating current at AC-12 maximum10 AOperating current at AC-15•• at 230 V rated value10 A• at 400 V rated value3 A• at 500 V rated value1 AOperating current at DC-12•• at 24 V rated value10 A• at 60 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A		
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• at 500 V rated value 2 A • at 690 V rated value 1 A Operating current at DC-12 10 A • at 24 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 3 A	• at 230 V rated value	10 A
• at 690 V rated value1 AOperating current at DC-12Image: mail of the second	• at 400 V rated value	3 A
Operating current at DC-12 Image: Constraint of the second s	• at 500 V rated value	2 A
 at 24 V rated value at 48 V rated value 6 A at 60 V rated value 6 A at 110 V rated value 3 A 	• at 690 V rated value	1 A
 at 48 V rated value at 60 V rated value at 110 V rated value 3 A 	Operating current at DC-12	
 at 60 V rated value at 110 V rated value 3 A 	• at 24 V rated value	10 A
• at 110 V rated value 3 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 125 V rated value	2 A
• at 220 V rated value 1 A		1 A
• at 600 V rated value 0.15 A		0.15 A
Operating 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 three-phase AC motor	
• at 480 V rated value	11 A
• at 600 V rated value	11 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
 for three-phase AC motor 	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection Design of the fuse link

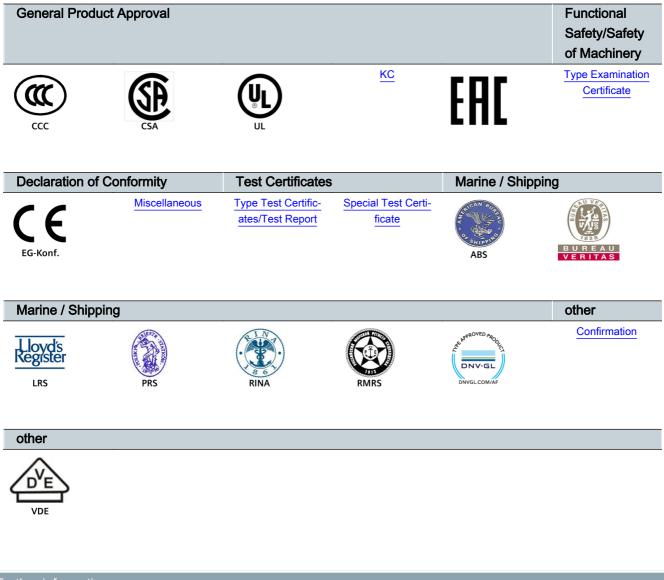
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)

+/-180° rotation possible on vertical mounting surface; can be • (mounting position) tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail • (mounting type) according to DIN EN 60715 Yes • Mounting type Side-by-side mounting (height) 70 mm Width 45 mm Depth 73 mm **Required spacing**

	 with side-by-side mounting 	
downwards10 mmat the side0 mmat the side0 mm		10 mm
- downwards10 mm- at the side0 mm- for younded parts0 mm- for younded parts10 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards20 mm- downwards20 mm- downwards20 mm- finely stranded with core end processing2x (0.54 mm ²)- solid0.54 mm ² - solid with core end processing0.52 5 mm ² - fin	— upwards	10 mm
• for grounded parts - forwards - forwards 10 mm - upwards 50 mm - at the side 5 mm - downwards 00 mm - downwards 10 mm - downwards 10 mm - for live parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 50 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 50 mm - solid 2x (0 5 4 mm ³) - solid 51 4 mm ³ <td< td=""><td>•</td><td>10 mm</td></td<>	•	10 mm
• for grounded partsI 0 mm- forwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- for live parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- downwards10 mm- downwardsspring-loaded terminals- for nain current circuitspring-loaded terminals* for main current circuitspring-loaded terminals- solid2x (0 5 4 mm [*])- single or multi-stranded2x (0 5 2 5 mm [*])- finely stranded with core end processing2x (0 12)Connectable conductor cross-section for maincontacts• stranded0 5 4 mm [*] • stranded0 5 2 5 mm [*] • finely stranded with core end processing0 5 2 5 mm [*] • finely stranded with core end processing0 5 2 5 mm [*] • finely stranded with core end processing0 5 2 5 mm [*] • finely stranded with core end processing0 5 2 5 mm [*] • finely stranded with core end processing0 5 2 5 mm [*] • finely strand	— at the side	0 mm
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		10 mm
downwards 10 mm • for live parts forwards forwards 10 mm upwards 10 mm upwards 10 mm downwards 6 mm downwards 6 mm downwards 5 mm downwards 2x (0.5 4 mm ³) solid 2x (0.5 4 mm ³) finely stranded without core end processing 2x (0.5 4 mm ³) - solid 0.5 4 mm ³ - solid 0.5	— upwards	10 mm
• for live parts 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/Terminals 6 mm Connections/Terminals spring-loaded terminals * for auxiliary and control current circuit spring-loaded terminals * for auxiliary and control current circuit spring-loaded terminals * for main current circuit spring-loaded terminals * for auxiliary and control current circuit spring-loaded terminals * for auxiliary and control current circuit spring-loaded terminals * for main contacts - solid - solid 2x (0.5 4 mm ²) - single or multi-stranded 2x (0.5 2.5 mm ³) - finely stranded without core end processing 2x (2 12) Connectable conductor for main contacts 2x (2 12) Connectable conductor cross-section for auxiliary 0.5 4 mm ² • solid 0.5 4 mm ² • solid 0.5 4 mm ² • solid 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ² • finely stranded with core	— at the side	6 mm
forwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/TerminalsType of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control current circuitspring-loaded terminals• for auxiliary and control current circuitspring-loaded terminals• for main contactsspring-loaded terminals• for main contacts2x (0.5 4 mm²)- solid2x (0.5 4 mm²)- single or multi-stranded2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 4 mm²• at AWG conductor ross-section for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 4 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• finely stranded without core end processing0.5 2.5 mm²	— downwards	10 mm
- upwards10 mm- downwards10 mm- at the side6 mmConnections/TerminalsType of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control current circuitspring-loaded terminalsType of connectable conductor cross-sectionsspring-loaded terminals• for main contacts2x (0.5 4 mm²)- single or multi-stranded2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG conductor for main contacts2x (20 12)Connectable conductor cross-section for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• stranded0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5	● for live parts	
- downwards 10 mm - at the side 6 mm Connections/Terminals • for main current circuit spring-loaded terminals • for auxiliary and control current circuit spring-loaded terminals • for main contacts - solid • solid 2x (0.5 4 mm²) - single or multi-stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) • solid 0.5 4 mm² • solid 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • single or multi-stranded	— forwards	10 mm
- at the side 6 mm Connections/Terminals spring-loaded terminals • for main current circuit spring-loaded terminals • for auxiliary and control current circuit spring-loaded terminals Type of connectable conductor cross-sections • for main contacts • solid 2x (0.5 4 mm²) - single or multi-stranded 2x (0.5 4 mm²) - finely stranded without core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) Connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • single	— upwards	10 mm
Connections/Terminals Type of electrical connection • for main current circuit spring-loaded terminals • for main control current circuit spring-loaded terminals Type of connectable conductor cross-sections • • for main contacts - - solid 2x (0.5 4 mm²) - single or multi-stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) Connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 2.5 mm² • solid 0.5 2.5 mm² • solid with core end processing 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5	— downwards	10 mm
Type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control current circuit spring-loaded terminals Type of connectable conductor cross-sections • for main contacts - solid 2x (0.5 4 mm²) - single or multi-stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) Connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² Connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • single or multi-stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² <tr< td=""><td>— at the side</td><td>6 mm</td></tr<>	— at the side	6 mm
Type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control current circuit spring-loaded terminals Type of connectable conductor cross-sections • for main contacts - solid 2x (0.5 4 mm²) - single or multi-stranded 2x (0.5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (20 12) Connectable conductor cross-section for main contacts 2x (20 12) Connectable conductor cross-section for main contacts 0.5 4 mm² • solid 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² Connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm² • single or multi-stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • single or multi-stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² <tr< td=""><td>Conversione/Terreinele</td><td></td></tr<>	Conversione/Terreinele	
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• for auxiliary and control current circuitspring-loaded terminalsType of connectable conductor cross-sections-• for main contacts solid2x (0.5 4 mm²)- single or multi-stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded without core end2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 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• single or multi-stranded0.5 4 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm² <td></td> <td>spring-loaded terminals</td>		spring-loaded terminals
Type of connectable conductor cross-sections Image: transform of the section of		
• for main contactsZX (0.5 4 mm²)- single or multi-stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded with out core end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• stranded with core end processing0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm² <td></td> <td></td>		
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finely stranded without core end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 2.5 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• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contactsImage: Strande Strande	— single or multi-stranded	2x (0,5 4 mm²)
processing2x (20 12)• at AWG conductors for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without 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• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²	— finely stranded with core end processing	2x (0.5 2.5 mm²)
• at AWG conductors for main contacts2x (20 12)Connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contacts 4 mm²	-	2x (0.5 2.5 mm²)
contacts4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contactsImage: Contact		2x (20 12)
• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• connectable conductor cross-section for auxiliary contacts0.5 4 mm²• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contactsImage: Stranded with core end processing	Connectable conductor cross-section for main	
 stranded stranded finely stranded with core end processing finely stranded without core end processing 0.5 2.5 mm² Connectable conductor cross-section for auxiliary contacts single or multi-stranded finely stranded with core end processing 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 2.5 mm² Type of connectable conductor cross-sections for auxiliary contacts 	contacts	
• finely stranded with core end processing $0.5 \dots 2.5 \text{ mm}^2$ • finely stranded without core end processing $0.5 \dots 2.5 \text{ mm}^2$ Connectable conductor cross-section for auxiliary contacts $0.5 \dots 2.5 \text{ mm}^2$ • single or multi-stranded $0.5 \dots 4 \text{ mm}^2$ • finely stranded with core end processing $0.5 \dots 2.5 \text{ mm}^2$ • finely stranded with core end processing $0.5 \dots 2.5 \text{ mm}^2$ • finely stranded with core end processing $0.5 \dots 2.5 \text{ mm}^2$ • finely stranded without core end processing $0.5 \dots 2.5 \text{ mm}^2$ • for auxiliary contacts $0.5 \dots 2.5 \text{ mm}^2$	• solid	0.5 4 mm²
 finely stranded without core end processing Connectable conductor cross-section for auxiliary contacts single or multi-stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts 	● stranded	0.5 4 mm²
Connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • single or multi-stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² • for auxiliary contacts • for auxiliary contacts	 finely stranded with core end processing 	0.5 2.5 mm²
contacts• single or multi-stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contacts	 finely stranded without core end processing 	0.5 2.5 mm²
 finely stranded with core end processing finely stranded without core end processing 0.5 2.5 mm² 0.5 2.5 mm² 		
• finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts	 single or multi-stranded 	0.5 4 mm²
Type of connectable conductor cross-sections • for auxiliary contacts	 finely stranded with core end processing 	0.5 2.5 mm ²
for auxiliary contacts	 finely stranded without core end processing 	0.5 2.5 mm ²
	Type of connectable conductor cross-sections	
- single or multi-stranded 2x (0,5 4 mm ²)	 for auxiliary contacts 	
	— single or multi-stranded	2x (0,5 4 mm²)

 — finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end 	2x (0.5 2.5 mm²)
processing	
 at AWG conductors for auxiliary contacts 	2x (20 12)
AWG number as coded connectable conductor cross	
section	
 for main contacts 	20 12
 for auxiliary contacts 	20 12
Safety related data	
B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Proportion of dangerous failures	
• with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	73 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	100 FIT
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
T1 value for proof test interval or service life acc. to	20 у
IEC 61508	
Protection against electrical shock	finger-safe
Suitability for use	
 safety-related switching on 	No
 safety-related switching OFF 	No
Certificates/approvals	

Certificates/approvals



Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2AF02

Cax online generator

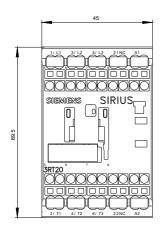
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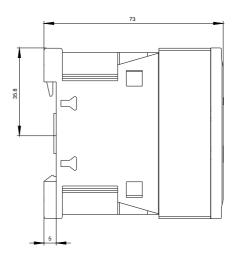
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AF02

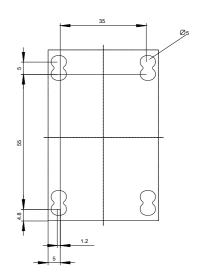
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2AF02&lang=en

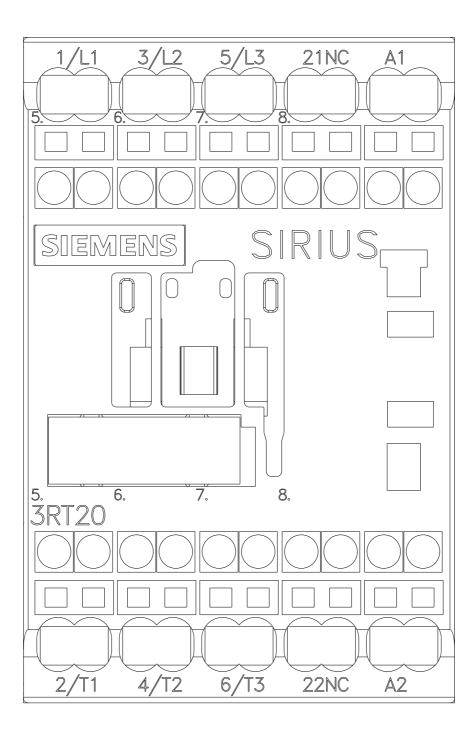
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2AF02/char

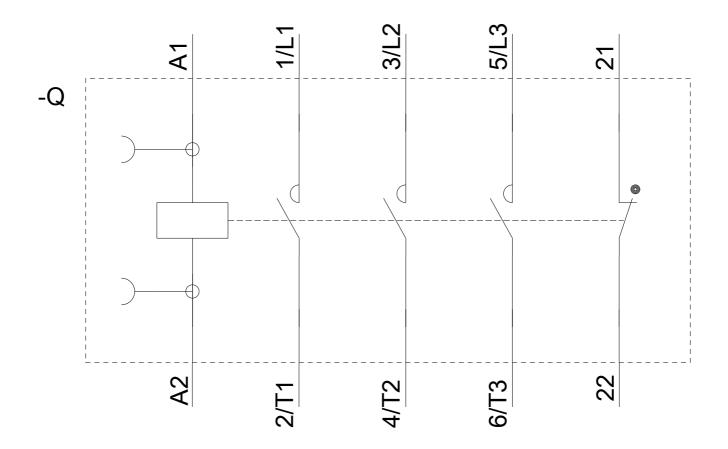
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2AF02&objecttype=14&gridview=view1











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04/13/2019