# SIEMENS

## Data sheet

## 3RT2015-2BB42

CONTACTOR, AC-3, 3KW/400V, 1NC, DC 24V, 3-POLE, SZ S00 SPRING-LOADED TERMINAL



product brandname	SIRIUS
Product designation	Power contactor
Product type designation	3RT2
General technical data	
Size of contactor	S00
Product extension	
<ul> <li>function module for communication</li> </ul>	No
Auxiliary switch	Yes
Insulation voltage	
<ul> <li>rated value</li> </ul>	690 V

Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN 60947-1</li> </ul>	400 V
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms

Shock resistance with sine pulse	
● at DC	10,5g / 5 ms, 6,6g / 10 ms
Mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000
compatible auxiliary switch block typical	
<ul> <li>of the contactor with added auxiliary switch</li> </ul>	10 000 000
block typical	
Ambient conditions	
Ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
• during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-2 at 400 V rated value	7 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
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	2.5 mm <sup>2</sup>
Operating 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
Operating current	
• at 1 current path at DC-1	
— at 24 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 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
Operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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-1	
— at 230 V rated value	6.3 kW
— at 230 V at 60 °C rated value	6 kW
— at 400 V rated value	11 kW
— at 400 V at 60 °C rated value	10.5 kW
— at 690 V rated value	19 kW
— at 690 V at 60 °C rated value	18 kW
• at AC-2 at 400 V rated value	3 kW
● at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 690 V rated value	4 kW

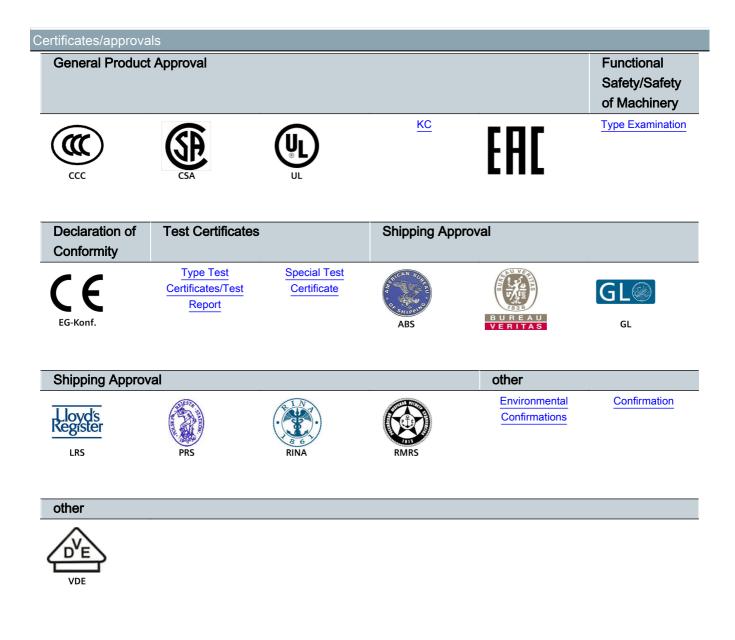
	-
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	1.15 kW
• at 690 V rated value	1.15 kW
Thermal short-time current limited to 10 s	56 A
Power loss [W] at AC-3 at 400 V for rated value of	0.4 W
the operating current per conductor	
No-load switching frequency	
● at DC	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	DC
Control supply voltage at DC	
● rated value	24 V
Closing power of magnet coil at DC	4 W
Holding power of magnet coil at DC	4 W
Closing delay	
● at DC	30 100 ms
Opening delay	
• at DC	7 13 ms
Arcing time	10 15 ms
Residual current of the electronics for control with signal <0>	
<ul> <li>at AC at 230 V maximum permissible</li> </ul>	3 mA
• at DC at 24 V maximum permissible	10 mA
Auxiliary circuit	
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
— instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
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	4.8 A
• at 600 V rated value	6.1 A
Yielded mechanical performance [hp]	

<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— 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

Short-circuit protection	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
— with type of assignment 2 required	gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
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
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

Width     45 mm       Depth     73 mm       Required spacing     • for grounded parts       - at the side     6 mm       • for live parts     - at the side       - at the side     6 mm       • for value current circuit     spring-loaded terminals       • for main current circuit     spring-loaded terminals       • for main current circuit     spring-loaded terminals       - solid     2x (0.5 4 mm²)       - solid     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - niely stranded with core end processing     2x (0.5 2.5 mm²)       - with high demand rate acc. to SN 31920     1000 000	Side-by-side mounting	Yes	
Width     45 mm       Depth     73 mm       Required spacing     • for grounded parts       - at the side     6 mm       • for live parts     - at the side       - at the side     6 mm       • for value current circuit     spring-loaded terminals       • for main current circuit     spring-loaded terminals       • for main current circuit     spring-loaded terminals       - solid     2x (0.5 4 mm²)       - solid     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - niely stranded with core end processing     2x (0.5 2.5 mm²)       - with high demand rate acc. to SN 31920     1000 000	Height	70 mm	
Required spacing <ul> <li>for grounded parts</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>for live parts</li> <li>at the side</li> <li>for main current circuit</li> </ul> <ul> <li>for main current circuit</li> <li>spring-loaded terminals</li> <li>for auxiliary and control current circuit</li> <li>spring-loaded terminals</li> </ul> Type of electrical connection <ul> <li>for main current circuit</li> <li>spring-loaded terminals</li> </ul> Type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> <li>2x (0.5 4 mm<sup>3</sup>)</li> <li>single or multi-stranded</li> <li>2x (0.5 2.5 mm<sup>3</sup>)</li> <li>for eaxiliary contacts</li> </ul> - solid         2x (0.5 2.5 mm <sup>3</sup> )              - finely stranded with core end processing <ul> <li>2x (0.5 2.5 mm<sup>3</sup>)</li> <li>for auxiliary contacts</li> <li>single or multi-stranded</li> <li>2x (0.5 2.5 mm<sup>3</sup>)</li> <li>at AWG conductors for auxiliary contacts</li> </ul> - single or multi-stranded         2x (0.5 2.5 mm <sup>3</sup> )             - finely stranded without core end processing <ul> <li>2x (0.5 2.5 mm<sup>3</sup>)</li> <li>at AWG conductors for auxiliary contacts</li> <li>2x (20</li></ul>	Width	45 mm	
• for grounded parts       6 mm         - at the side       6 mm         • for live parts       6 mm         - at the side       6 mm         connections/Terminals         spring-loaded terminals         of or main connectol current circuit       spring-loaded terminals         of or main contacts       spring-loaded terminals         - 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 with core end processing       2x (0.5 2.5 mm²)         - single or multi-stranded       2x (0.5 4 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - single or multi-stranded       2x (0.5 4 mm²)         - single or multi-stranded       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - single or multi-stranded       2x (0.5 2.5 mm²)         - finely stranded withore end processing	Depth	73 mm	
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• for live parts       6 mm         • for live parts       6 mm         • 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 auxiliary and control current circuit       spring-loaded terminals         • for auxiliary and control current circuit       spring-loaded terminals         • for main contacts       2x (0.5 4 mm <sup>2</sup> )         - single or multi-stranded       2x (0.5 4 mm <sup>2</sup> )         - finely stranded without core end processing       2x (0.5 2.5 mm <sup>2</sup> )         - finely stranded without core end processing       2x (0.5 4 mm <sup>2</sup> )         • at AWG conductors for main contacts       2x (0.5 4 mm <sup>2</sup> )         • for auxiliary contacts       2x (0.5 4 mm <sup>2</sup> )         • finely stranded without core end processing       2x (0.5 4 mm <sup>2</sup> )         • for auxiliary contacts       2x (0.5 2.5 mm <sup>2</sup> )         • finely stranded without core end processing       2x (0.5 2.5 mm <sup>2</sup> )         • finely stranded without core end processing       2x (0.5 2.5 mm <sup>2</sup> )         • at AWG conductors for auxiliary contacts       2x (0.5 2.5 mm <sup>2</sup> )         • with high demand rate acc. to SN 31920       1000 0000         • with high deman	<ul> <li>for grounded parts</li> </ul>		
- a the side6 mmConnections/TerminalsType of electrical connectioni for main current circuitspring-loaded terminalsi for auxiliary and control current circuitspring-loaded terminalsType of connectable conductor cross-sections-i for main contacts solid2x (0.5 4 mm <sup>2</sup> )- solid or multi-stranded2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded without core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 4 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- finely stranded with core end processing2x (0.5 2 5 mm <sup>2</sup> )- with high demand rate acc. to SN 319201000 000Proportion of dangerous failures- with high demand rate acc. to SN 31920100 FIT- with high demand rate acc. to SN 3192073 % <td colsp<="" td=""><td>— at the side</td><td>6 mm</td></td>	<td>— at the side</td> <td>6 mm</td>	— at the side	6 mm
connections/T eminals         Type of electrical connection         • for main current circuit       spring-loaded terminals         • for main current circuit       spring-loaded terminals         Type of connectable conductor cross-sections       •         • for main current circuit       spring-loaded terminals         - single or multi-stranded       2x (0.5 4 mm²)         - single or multi-stranded with core end processing       2x (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG conductor for main contacts       2x (0.5 4 mm²)         • for auxiliary contacts       2x (0.5 4 mm²)         - single or multi-stranded       2x (0.5 2.5 mm²)         - single or multi-stranded       2x (0.5 4 mm²)         - finely stranded with core end processing       - finely stranded with core end processing         - finely stranded with core end processing       - finely stranded with core end processing         - finely stranded with core end processing       - finely stranded with core end processing         - with high demand rate acc. to SN 31920       1 000 000         Proportion of dangerous failures       40 %         • with high demand rate acc. to SN 31920       73 %         Failure rate [FIT]       • with low demand rate acc. to SN 31920	• for live parts		
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 (0.5 4 mm²)       - finely stranded without core end processing     2x (0.5 4 mm²)       - finely stranded without core end processing     2x (0.5 4 mm²)       - finely stranded without core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 4 mm²)       - finely stranded with core end processing     2x (0.5 2.5 mm²)       - finely stranded without core end processing     2x (0.5 2.5 mm²)       - finely stranded without core end processing     2x (20 12)       at AWG conductors for auxiliary contacts     2x (20 12)       Strate     1000 000       Proportion of dangerous failures     40 %       • with high demand rate acc. to SN 31920     73 %       Failure rate [FIT]     100 FIT       Product function     With cor denard rate acc. to SN 31920     73 %<	— at the side	6 mm	
for main current circuitspring-loaded terminals• for main control current circuitspring-loaded terminalsType of connectable conductor cross-sections*• for main contacts2x (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 end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (0.5 4 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)- with high demand rate acc. to SN 31920100 000Proportion of dangerous failures40 %- with high demand rate acc. to SN 3192073 %Failure rate [FIT]inthe with low demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FITProduct functionintror	Connections/Terminals		
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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 (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG conductors for main contacts       2x (0.5 4 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         • for auxiliary contacts       2x (0.5 4 mm²)         - single or multi-stranded       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         - with high demand rate acc. to SN 31920       1000 000         Proportion of dangerous failures       40 %         • with high demand rate acc. to SN 31920       100 FIT         Product function       100 FIT         • with high demand rat	<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals	
• 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 end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (20 12)Type of connectable conductor cross-sections-• for auxiliary 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)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG conductors for auxiliary contacts2x (20 12)Enter term2x (0.5 2.5 mm²)• with high demand rate acc. to SN 319201000 000• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• Mirror contact acc. to IEC 60947-4-1Yes• Mirror contact acc. to IEC 60947-4-1Yes• Late for proof test	<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals	
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 end processing2x (0.5 2.5 mm²) a single or multi-stranded2x (0.5 2.5 mm²) single or multi-stranded2x (0.5 4 mm²) finely stranded with core end processing2x (0.5 4 mm²) finely stranded with core end processing2x (0.5 2.5 mm²) finely stranded with core end processing2x (0.5 2.5 mm²) finely stranded with core end processing2x (0.5 2.5 mm²) finely stranded without core end processing2x (0.5 2.5 mm²) single or multi-stranded2x (0.5 2.5 mm²) finely stranded without core end processing2x (0.5 2.5 mm²) single stranded without core end processing2x (0.5 2.5 mm²) with low demand rate acc. to SN 319201 000 000Proportion of dangerous failures40 % with low demand rate acc. to SN 31920100 FITProduct function • with low demand rate acc. to SN 31920100 FITProduct function • Mirror contact acc. to IEC 60947-4-1YesT value for proof test interval or service life acc, to IEC 6150820 y	Type of connectable conductor cross-sections		
	• for main contacts		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG conductors for main contacts</li> <li>2x (0.5 2.5 mm<sup>3</sup>)</li> <li>at AWG conductor cross-sections</li> <li>for auxiliary contacts</li> <li>single or multi-stranded</li> <li>finely stranded without core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG conductors for auxiliary contacts</li> <li>bit value</li> <li>with high demand rate acc. to SN 31920</li> <li>1000 000</li> <li>Proportion of dangerous failures</li> <li>with low demand rate acc. to SN 31920</li> <li>failure rate [FIT]</li> <li>with low demand rate acc. to SN 31920</li> <li>for FIT</li> <li>Product function</li> <li>Mirror contact acc. to IEC 60947-4-1</li> <li>Yes</li> <li>Ti value for proof test interval or service life acc. to</li> <li>acc. bit for proof test interval or service life acc. to</li> <li>acc. bit for proof test interval or serv</li></ul>	— solid	2x (0.5 4 mm²)	
finely stranded without core end processing2x (0.5 2.5 mm²)• at AWG conductors for main contacts2x (20 12)Type of connectable conductor cross-sections • for auxiliary contacts2x (0,5 4 mm²) finely stranded with core end processing processing2x (0,5 4 mm²) finely stranded with core end processing processing2x (0,5 2.5 mm²) finely stranded without core end processing processing2x (0,5 2.5 mm²) finely stranded without core end processing2x (20 12)afety related data2x (20 12)B10 value • with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures • with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %Failure rate [FIT] • with low demand rate acc. to SN 31920100 FITProduct function • Mirror contact acc. to IEC 60947-4-1YesT1 value for proof test interval or service life acc. to IEC 6150820 y	— single or multi-stranded	2x (0,5 4 mm²)	
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<ul> <li>for auxiliary contacts         <ul> <li>single or multi-stranded</li> <li>2x (0,5 4 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>aftery stranded without core end</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> </ul> </li> <li>at AWG conductors for auxiliary contacts</li> <li>2x (20 12)</li> </ul> afety related data B10 value <ul> <li>with high demand rate acc. to SN 31920</li> <li>1 000 000</li> </ul> Proportion of dangerous failures <ul> <li>with high demand rate acc. to SN 31920</li> <li>40 %</li> <li>with high demand rate acc. to SN 31920</li> </ul> Failure rate [FIT] <ul> <li>with high demand rate acc. to SN 31920</li> </ul> Forduct function <ul> <li>Mirror contact acc. to IEC 60947-4-1</li> <li>Yes</li> </ul> T1 value for proof test interval or service life acc. to <ul> <li>EC 61508</li> </ul>	<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (20 12)	
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processing • at AWG conductors for auxiliary contacts2x (20 12)afety related data2x (20 12)B10 value • with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures • with low demand rate acc. to SN 3192040 %Failure rate [FIT] • with low demand rate acc. to SN 31920100 FITProduct function • Mirror contact acc. to IEC 60947-4-1YesContact acc. to	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)	
afety related data       B10 value     1 000 000       e with high demand rate acc. to SN 31920     1 000 000       Proportion of dangerous failures     40 %       e with low demand rate acc. to SN 31920     40 %       e with high demand rate acc. to SN 31920     100 FIT       Failure rate [FIT]     100 FIT       Product function     Yes       e Mirror contact acc. to IEC 60947-4-1     Yes       T1 value for proof test interval or service life acc. to     20 y	-	2x (0.5 2.5 mm²)	
B10 value       1 000 000         • with high demand rate acc. to SN 31920       1 000 000         Proportion of dangerous failures       40 %         • with low demand rate acc. to SN 31920       40 %         • with high demand rate acc. to SN 31920       73 %         Failure rate [FIT]       100 FIT         • with low demand rate acc. to SN 31920       100 FIT         Product function       Yes         • Mirror contact acc. to IEC 60947-4-1       Yes         T1 value for proof test interval or service life acc. to       20 y	• at AWG conductors for auxiliary contacts	2x (20 12)	
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• with high demand rate acc. to SN 3192073 %Failure rate [FIT] • with low demand rate acc. to SN 31920100 FITProduct function • Mirror contact acc. to IEC 60947-4-1YesT1 value for proof test interval or service life acc. to IEC 6150820 y	Proportion of dangerous failures		
Failure rate [FIT]     100 FIT       • with low demand rate acc. to SN 31920     100 FIT       Product function     Yes       • Mirror contact acc. to IEC 60947-4-1     Yes       T1 value for proof test interval or service life acc. to IEC 61508     20 y	• with low demand rate acc. to SN 31920		
<ul> <li>with low demand rate acc. to SN 31920</li> <li>Product function         <ul> <li>Mirror contact acc. to IEC 60947-4-1</li> <li>Yes</li> </ul> </li> <li>T1 value for proof test interval or service life acc. to IEC 61508</li> </ul>	-	73 %	
Product function     Yes       • Mirror contact acc. to IEC 60947-4-1     Yes       T1 value for proof test interval or service life acc. to     20 y	Failure rate [FIT]		
Mirror contact acc. to IEC 60947-4-1 Yes 20 y IEC 61508		100 FIT	
T1 value for proof test interval or service life acc. to 20 y IEC 61508	Product function		
IEC 61508		Yes	
Protection against electrical shock finger-safe	T1 value for proof test interval or service life acc. to IEC 61508	20 у	
	Protection against electrical shock	finger-safe	



#### Further information

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

### Industry Mall (Online ordering system)

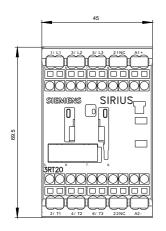
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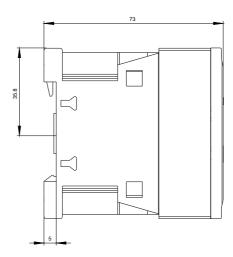
#### Cax online generator

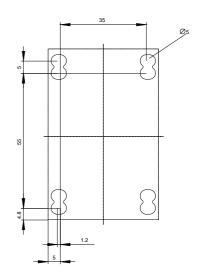
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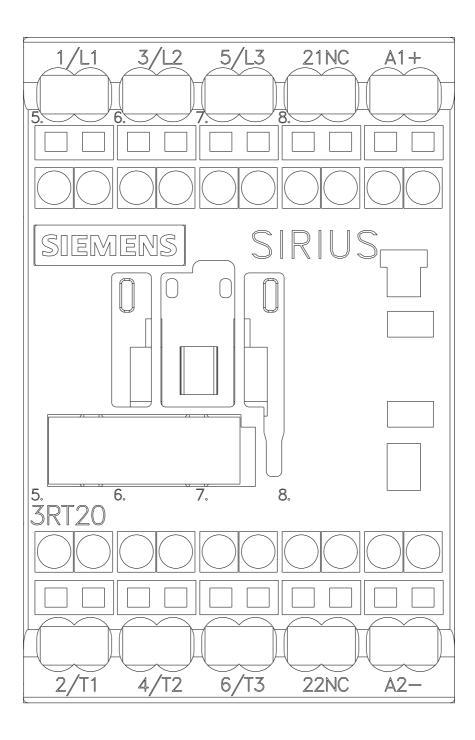
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2BB42

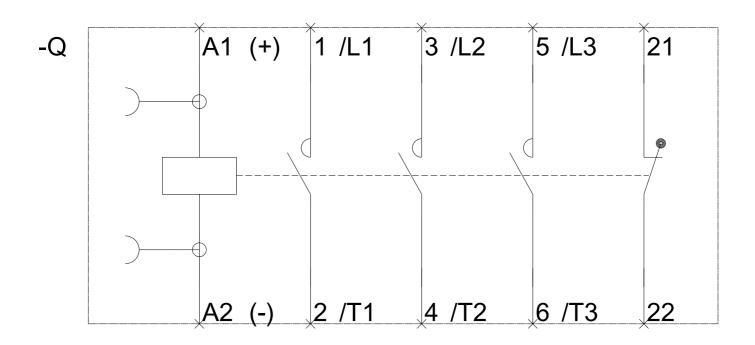
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2015-2BB42&lang=en











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