## SIEMENS

## Data sheet

## 3RT2015-2WB42



power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 0.85-1.85\* US, with varistor integrated, 3-pole, size S00, spring-type terminal not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
<ul> <li>without load current share typical</li> </ul>	1.6 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
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
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	
<ul> <li>during operation</li> </ul>	-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	220.)/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	18 A
• at AC-1 at 400 V at ambient temperature 40 °C rated value	IO 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-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
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	4 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	3.6 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	2.7 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	2.5 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm <sup>2</sup>
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 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 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
<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-3	
— 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
• 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	
<ul> <li>at 400 V rated value</li> </ul>	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	1.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	2.7 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	3.3 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	4.3 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	1.8 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	2.2 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	2.9 kVA
short-time withstand current in cold operating state	
up to 40 °C	120 A: Loo minimum groop postion and to AC 4 rate durates
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	67 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	52 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	10.000.1/b
at DC	10 000 1/h
operating frequency • at AC-1 maximum	1,000,1/b
	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	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.85
	0.00

• full-scale value	1.85
	with varistor
design of the surge suppressor closing power of magnet coil at DC	1.6 W
holding power of magnet coil at DC	1.6 W
closing delay	1.0 VV
• at DC	25 120 ms
opening delay	23 120 113
• at DC	5 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1A
• at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
tor single-phase AC motor         — at 110/120 V rated value	0.25 bp
— at 110/120 V rated value — at 230 V rated value	0.25 hp 0.75 hp
	0.70 hp
• for 3-phase AC motor	1.5 bp
- 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	
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)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	90. 10 M (000 V, 1 M)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted

fastening method         exew and srap-on mounting onto 35 mm standard mounting rail eccording to DN EN 60715           width         70 mm           width         45 mm           depth         121 mm           required spacing         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - add or shanded         2x (0.54 mm <sup>2</sup> )           or magnet coil		forward and backward by +/- 22.5° on vertical mounting surface		
excerding to DIN EN 60715            height         70 nm           width         45 mm           depth         121 mm           required spacing         121 mm           - forwards         10 mm           - downwards         10 m	fastening method	· · · · ·		
heigh     2     70 mm       width     45 mm       depth     121 mm       required spacing     10 mm       - dowards     10 mm       - for an curret circut     spring-loaded terminals	-			
width     45 mm       depth     121 mm       required spacing     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - for raillay and control cicuut<				
depth       121 mm         required spacing       10 mm         - downards       10 mm         - downwards       10 mm         - downards       10 mm         - downards       10 mm         - for do				
required spacing     • with side by side mounting       - forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - at the side     0 mm       • for grounded parts     10 mm       - downwards     10 mm       - for auxiliary and control circuit     spring-baded terminals       * of main current circuit     spring-baded terminals       • for auxiliary and control circuit     spring-baded terminals       • for auxiliary contorbol circuit				
• with side-by-side mounting         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - forwards       10 mm         - for avising and control circuit       spring-loaded terminals         - for fraine current circuit       spring-loaded te	•	121 mm		
- forwards     10 mm       - upwards     10 mm       - at the side     0 mm       - at the side     0 mm       - at the side     0 mm       - for avoinded parts     10 mm       - upwards     10 mm       - at the side     6 mm       - downwards     10 mm       - at the side     6 mm       - downwards     10 mm       - downwards     20 mm       - of adoctical connection     Spring-baced terminals <td></td> <td></td>				
upwards     10 mm      downwards     10 mm      downwards     10 mm      for grounded parts		10 mm		
- downwards     0 mm       - at the side     0 mm       - for grounded parts     00 mm       - for wards     10 mm       - upwards     10 mm       - at the side     6 mm       - at the side     6 mm       - for wards     10 mm       - upwards     10 mm       - downwards     print participart       - for auxiliary contacts     spring-type terminals <td></td> <td></td>				
for grounded parts <ul> <li>for grounded parts</li> <li>forwards</li> <li>forwards</li> <li>for mail</li> <li>the side</li> <li>form</li> <li>at the side</li> <li>form</li> <li>downwards</li> <li>for mix parts</li> <li>for wards</li> <li>for mix parts</li> <li>downwards</li> <li>for mix parts</li> <li>downwards</li> <li>for mail</li> <li>for mail control foruit</li> <li>spring-loaded terminals</li> <li>of magnet coil</li> </ul> <ul> <li>spring-loaded terminals</li> <li>of magnet coil</li> </ul> <ul> <li>spring-type terminals</li> <li>of magnet coil</li> <li>spring-type terminals</li> <li>of magnet coil</li> <li>spring-type terminals</li> <li>of magnet coil</li> <li>spring-type terminals</li> <li>spring</li></ul>				
- forwards     10 mm       - upwards     0 mm       - upwards     10 mm       - downwards     10 mm       - for low parts     10 mm       - forwards     10 mm       - upwards     10 mm       - ontochalized control circuit     spring-loaded terminals       - for main contacts     Spring-type terminals       - of magnet coll     2x (0.5 4 mm <sup>2</sup> )       - for main contacts     2x (0.5 4 mm <sup>2</sup> )       - for wains contacts     2x (2.0 12)       - contactable conductor cross-section for main     Contactable conductor cross-section for auxiliary contacts       - solid     0.5 4 mm <sup>2</sup> - solid     0.5 2.5 mm <sup>2</sup> - for auxiliary contacts     2x (0.5 2.5 mm <sup>2</sup> </td <td></td> <td></td>				
		10 mm		
downwards     10 mm       •- for lwc parts     10 mm       upwards     10 mm       upwards     10 mm       downwards     50 mm       downwards     spring-loaded terminals       for an current circuit     spring-loaded terminals       of main contacts     Spring-lype terminals       solid     2x (0.5 4 mm <sup>2</sup> )       solid or stranded     2x (0.5 4 mm <sup>2</sup> )       solid or stranded with core end processing     2x (0.5 4 mm <sup>2</sup> )       solid conductor cross-section for main     contacts       solid or stranded     0.5 4 mm <sup>2</sup> finely stranded with core end processing     0.5 2.5 mm <sup>2</sup> <td>— upwards</td> <td>10 mm</td>	— upwards	10 mm		
<ul> <li>for like parts         <ul> <li>forwards</li> <li>forwards</li> <li>forwards</li> <li>forman</li> <li>downwards</li> <li>forman</li> </ul> </li> <li>downwards</li> <li>formain</li> <li>downwards</li> <li>formain</li> </ul> <li>downwards</li> <li>formain</li> <li>downwards</li> <li>formain</li> <li>downwards</li> <li>downwards</li> <li>formain</li> <li>downwards</li> <li>formain</li> <li>forman</li> <li>formain</li> <li>forman</li> <li>formai</li>	— at the side	6 mm		
- forwards     10 mm       - uywards     10 mm       - downwards     10 mm       - at the side     6 mm       Connections/ forminals     5 miniplaaded terminals       type of electrical connection     spring-loaded terminals       • for auxiliary and control circuit     spring-loaded terminals       • of magnet coil     Spring-type terminals       • of magnet coil     Spring-type terminals       • of main contacts     Sx (0.5 4 mm <sup>2</sup> )       • at AVG cables for main contacts     Sx (20 12)       connectable conductor cross-section for main contacts     S 4 mm <sup>2</sup> • solid     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 4 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm	— downwards	10 mm		
	<ul> <li>for live parts</li> </ul>			
	— forwards	10 mm		
at the side     6 mm       Connections/ Terminals       type of electrical connection     spring-loaded terminals       • for main current circuit     spring-loaded terminals       • of magnet coil     Spring-lype terminals       • of magnet coil     Spring-lype terminals       • of main contacts     - solid       - solid or stranded     2x (0.5 4 mm <sup>2</sup> )       - finely stranded with core end processing     2x (0.5 25 mm <sup>2</sup> )       • of main contacts     2x (0.5 4 mm <sup>2</sup> )       - solid     0.5 4 mm <sup>2</sup> - finely stranded with core end processing     2x (0.5 4 mm <sup>2</sup> )       • at AWG cables for main contacts     2x (0.5 4 mm <sup>2</sup> )       • solid     0.5 4 mm <sup>2</sup> • solid     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 25 mm <sup>2</sup> • of raudilary contacts     2x (0.5 25 mm <sup>2</sup> )       • of raudilary contacts <td< td=""><td>— upwards</td><td>10 mm</td></td<>	— upwards	10 mm		
Connactions/Terminals     spring-loaded terminals       type of electrical connection     spring-loaded terminals       • for auxiliary and control circuit     spring-loaded terminals       • of main contacts     Spring-type terminals       • of main contacts     Spring-type terminals       • of onanic contacts     Spring-type terminals       • of main contacts     2x (0.5 4 mm <sup>2</sup> )       - solid or stranded     2x (0.5 4 mm <sup>2</sup> )       - finely stranded with core end processing     2x (0.5 2.5 mm <sup>2</sup> )       • stranded     0.5 4 mm <sup>2</sup> • finely stranded with core end processing     0.5 4 mm <sup>2</sup> • stranded     0.5 4 mm <sup>2</sup> • stranded     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 4 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5 25 mm <sup>2</sup> • finely stranded with core end processing     0.5	— downwards	10 mm		
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>spring-loaded terminals</li> <li>spring-type terminals</li> <li>Spring-type</li></ul>	— at the side	6 mm		
• for main current circuit       spring-loaded terminals         • if crauxiliary and control circuit       spring-loaded terminals         • at contactor for auxiliary contacts       Spring-type terminals         • of magnet coil       Spring-type terminals         type of connectable conductor cross-sections       • for main contacts         • a solid       2x (0.5 4 mm <sup>2</sup> )         - solid or stranded       2x (0.5 4 mm <sup>2</sup> )         - finely stranded without core end processing       2x (2.5 2.5 mm <sup>2</sup> )         - finely stranded without core end processing       2x (2.0 12)         connectable conductor cross-section for main contacts       2x (2.0 12)         connectable conductor cross-section for auxiliary contacts       0.5 4 mm <sup>2</sup> • solid       0.5 4 mm <sup>2</sup> • solid or stranded       0.5 4 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded without core	Connections/ Terminals			
• for auxiliary and control circuit       spring-loaded terminals         • at contactor for auxiliary contacts       Spring-type terminals         • of main contacts       Spring-type terminals         • for main contacts       2x (0.5 4 mm²)         - solid or stranded       2x (0.5 4 mm²)         - finely stranded with 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 2.5 mm²)         • solid       0.5 4 mm²         • stranded       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         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       2x (0.5 4 mm²)     <	type of electrical connection			
• at contactor for auxiliary contacts       Spring-type terminals         • of magnet coil       Spring-type terminals         type of connectable conductor cross-sections       •         • for main contacts       2x (0.5 4 mm²)         - solid       2x (0.5 4 mm²)         - finely stranded with core end processing       2x (0.5 2 5 mm²)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts       2x (20 12)         connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         • solid       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 2.5 mm²         connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       2 2.5 mm²	<ul> <li>for main current circuit</li> </ul>	spring-loaded terminals		
• of magnet coil     Spring-type terminals       type of connectable conductor cross-sections     - solid     2x (0.5 4 mm <sup>3</sup> )       - solid or stranded     2x (0.5 4 mm <sup>3</sup> )       - finely stranded withou core end processing     2x (0.5 2.5 mm <sup>3</sup> )       - finely stranded without core end processing     2x (0.5 2.5 mm <sup>3</sup> )       • at AWG cables for main contacts     2x (0.5 4 mm <sup>2</sup> )       connectable conductor cross-section for main contacts     2x (20 12)       connectable conductor cross-section for auxiliary contacts     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 4 mm <sup>2</sup> • solid or stranded     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded without core end processing     0.5 2.5 mm <sup>2</sup> • finely stranded w	<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals		
type of connectable conductor cross-sections         • for main contacts         - solid       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)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 4 mm²         • stranded       0.5 4 mm²         • finely stranded without core end processing       0.5 2.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²         connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded without core end processing       0.5 2.5 mm²         for auxiliary contacts       2 x (0.5 4 mm²)         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       2 x (0.5 4 mm²)         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       2 x (0.5 4 mm²)         • for auxiliary contacts       2 x (0.5 .	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals		
• for main contacts       - solid       2x (0.5 4 mm²)         - solid or 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)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts       0.5 4 mm²         • solid       0.5 4 mm²         • solid or stranded       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         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       - solid or stranded         • for auxiliary contacts       - solid or stranded         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)		Spring-type terminals		
finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts       0.5 4 mm²         • solid       0.5 4 mm²         • 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         • finely stranded without core end processing       0.5 2.5 mm²         • solid or stranded       0.5 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded without core end processing       0.5 2.5 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       -         • for auxiliary contacts       -         • for auxiliary contacts       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)         • for auxiliary contacts       2x (0.5 2.5 mm²)         • for auxiliary contacts       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)				
• at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts       0.5 4 mm²         • solid       0.5 4 mm²         • 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         • connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       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         • 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       2x (0,5 4 mm²)         - finely stranded with core end processing       2x (0,5 2.5 mm²)         - solid or 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 without core end processing       2x (0,5 2.5 mm²)         - for auxiliary contacts       20 12         AWG number as coded connuectable conductor cross section <t< td=""><td></td><td></td></t<>				
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 mm²connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or stranded0.5 4 mm²• solid or 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• for auxiliary contacts2x (0,5 4 mm²)- solid or stranded2x (0,5 4 mm²)- solid or 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 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)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- for auxiliary contacts20 12Safety related data20 12product functionmirror contact according to IEC 60947-4-1 <td></td> <td></td>				
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 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 4 mm²• solid or stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts 2.5 mm²• for auxiliary contacts2 x (0.5 4 mm²)- solid or stranded2 x (0.5 4 mm²)- finely stranded with core end processing2 x (0.5 4 mm²)- finely stranded with core end processing2 x (0.5 4 mm²)- finely stranded with core end processing2 x (0.5 4 mm²)- finely stranded with core end processing2 x (0.5 2.5 mm²)- finely stranded with core end processing2 x (0.5 2.5 mm²)- finely stranded without core end processing2 x (2.5 4 mm²)- finely stranded without core end processing2 x (0.5 2.5 mm²)- finely stranded without core end processing2 x (0.5 2.5 mm²)- for auxiliary contacts2 0 12)AWG number as coded connectable conductor cross section2 (0 12)• for auxiliary contacts2 0 12• for auxiliary contacts2 0 12• for auxiliary contacts2 0		ZX (20 12)		
• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or 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 contacts0.5 2.5 mm²- solid or stranded2x (0,5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• for auxiliary contacts2x (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 without core end processing2x (0.5 2.5 mm²)• at AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for auxiliary contacts20 12• for auxiliary contacts20 12Safety related data7product function • mirror contact according to IEC 60947-4-1Yes				
• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• solid or 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 without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm²- solid or stranded2x (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 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 connectable conductor cross2x (0.5 2.5 mm²)• at AWG cables for auxiliary contacts20 12)AWG number as coded connectable conductor cross20 12Safety related data20 12product functionYes• mirror contact according to IEC 60947-4-1Yes	• solid	0.5 4 mm²		
• finely stranded without core end processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or 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 contacts0.5 2.5 mm²- solid or stranded2x (0,5 4 mm²)- solid or stranded2x (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 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 conductor cross2x (0.5 2.5 mm²)- at AWG cables for auxiliary contacts20 12)AWG number as coded connectable conductor cross section20 12Safety related data20 12product function • miror contact according to IEC 60947-4-1Yes	stranded	0.5 4 mm²		
connectable conductor cross-section for auxiliary contacts       0.5 4 mm²         • solid or 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       0.5 2.5 mm²         • for auxiliary contacts       0.5 2.5 mm²         • for auxiliary contacts       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 2.5 mm²)         - finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)         AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         Safety related data       20 12         Safety related data       Yes	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		
contacts0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections0.5 2.5 mm²• for auxiliary contacts- solid or stranded- solid or 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)- 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)- at AWG cables for auxiliary contacts20 12AWG number as coded connectable conductor cross section20 12Safety related data- 12product function • mirror contact according to IEC 60947-4-1Yes	<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²		
• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections0.5 2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)- solid or stranded2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 4 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)• at AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for main contacts20 12Safety related data20 12product function • mirror contact according to IEC 60947-4-1Yes				
• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections0.5 2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)- solid or stranded2x (0,5 4 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)- at AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for main contacts20 12Safety related data20 12product function • mirror contact according to IEC 60947-4-1Yes				
<ul> <li>finely stranded without core end processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>2x (0,5 4 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> <li>finely stranded without core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> <li>finely stranded without core end processing</li> <li>2x (0.5 2.5 mm<sup>2</sup>)</li> <li>at AWG cables for auxiliary contacts</li> <li>2x (20 12)</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>20 12</li> </ul> </li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>Yes</li> </ul> </li> </ul>				
type of connectable conductor cross-sections         • for auxiliary contacts         - solid or 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)         • at AWG cables for auxiliary contacts       2x (20 12)         AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         Safety related data       20 12         Product function       • mirror contact according to IEC 60947-4-1				
<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>solid or stranded</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 cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul> </li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>Yes</li> </ul> </li> </ul>		0.5 2.5 mm*		
solid or 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) finely stranded without core end processing2x (20 12)AWG number as coded connectable conductor cross section2x (20 12)AWG number as coded connectable conductor cross section20 12 for main contacts20 12 for auxiliary contacts20 12Safety related datayes mirror contact according to IEC 60947-4-1Yes				
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 connectable conductor cross       2x (20 12)         AWG number as coded connectable conductor cross       20 12         for main contacts       20 12         for auxiliary contacts       20 12         Safety related data       Product function         mirror contact according to IEC 60947-4-1       Yes	-	$2x(0.5 - 4 \text{ mm}^2)$		
finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)         AWG number as coded connectable conductor cross section				
• at AWG cables for auxiliary contacts       2x (20 12)         AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         • for auxiliary contacts       20 12         Safety related data       product function         • mirror contact according to IEC 60947-4-1       Yes				
AWG number as coded connectable conductor cross section         • for main contacts       20 12         • for auxiliary contacts       20 12         Safety related data         product function         • mirror contact according to IEC 60947-4-1         Yes				
• for auxiliary contacts     20 12       Safety related data       product function       • mirror contact according to IEC 60947-4-1       Yes	AWG number as coded connectable conductor cross			
Safety related data       product function       • mirror contact according to IEC 60947-4-1       Yes		20 12		
product function           • mirror contact according to IEC 60947-4-1         Yes	<ul> <li>for auxiliary contacts</li> </ul>	20 12		
product function     o mirror contact according to IEC 60947-4-1 Yes				
mirror contact according to IEC 60947-4-1 Yes				
	-	Yes		
		1 000 000		

proportion of dange	rous failures					
<ul> <li>with low deman</li> </ul>	d rate according to SN	31920	40 %			
-	nd rate according to SN		73 %			
failure rate [FIT] with I 31920	ow demand rate accord	ding to SN	100 FIT			
T1 value for proof test IEC 61508	t interval or service life	according to	20 у			
protection class IP o 60529	on the front according	to IEC	IP20			
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical conta	act from the front		
suitability for use						
<ul> <li>safety-related s</li> </ul>	witching OFF		Yes			
Certificates/ approval	S					
General Product Ap	proval					
S.	CCC CCC	<u>Confirmatio</u>		KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Marine / Shipping	_					
ABS	BUREAU VERITAS		Lloyds Register us	PRS	RINA	
Marine / Shipping	other		Dangerous Good			
RMRS	<u>Confirmation</u>	VDE	<u>Transport Informa-</u> <u>tion</u>			
https://www.siemens.c Industry Mall (Online https://mall.industry.si Cax online generato http://support.automat Service&Support (M https://support.industr Image database (pro http://www.automation Characteristic: Tripp https://support.industr Further characteristi	e ordering system) emens.com/mall/en/en. r tion.siemens.com/WW// anuals, Certificates, C y.siemens.com/cs/ww/o duct images, 2D dime n.siemens.com/bilddb/c bing characteristics, I <sup>2</sup> y.siemens.com/cs/ww/o ics (e.g. electrical end	CAXorder/defaul CAXorder/defaul Characteristics, en/ps/3RT2015-2 ension drawinge ax_de.aspx?mlft t, Let-through c en/ps/3RT2015-2 lurance, switchi	?mlfb=3RT2015-2WB42 t.aspx?lang=en&mlfb=3RT20 FAQs,) 2WB42 s, 3D models, device circuit p=3RT2015-2WB42⟨=en surrent 2WB42/char	diagrams, EPLAN ma		
3RT20152WB42				Subject to	change without notice	

7/8/2022