## SIEMENS

## Data sheet

## 3RT2016-1BB41-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal, upright mounting position

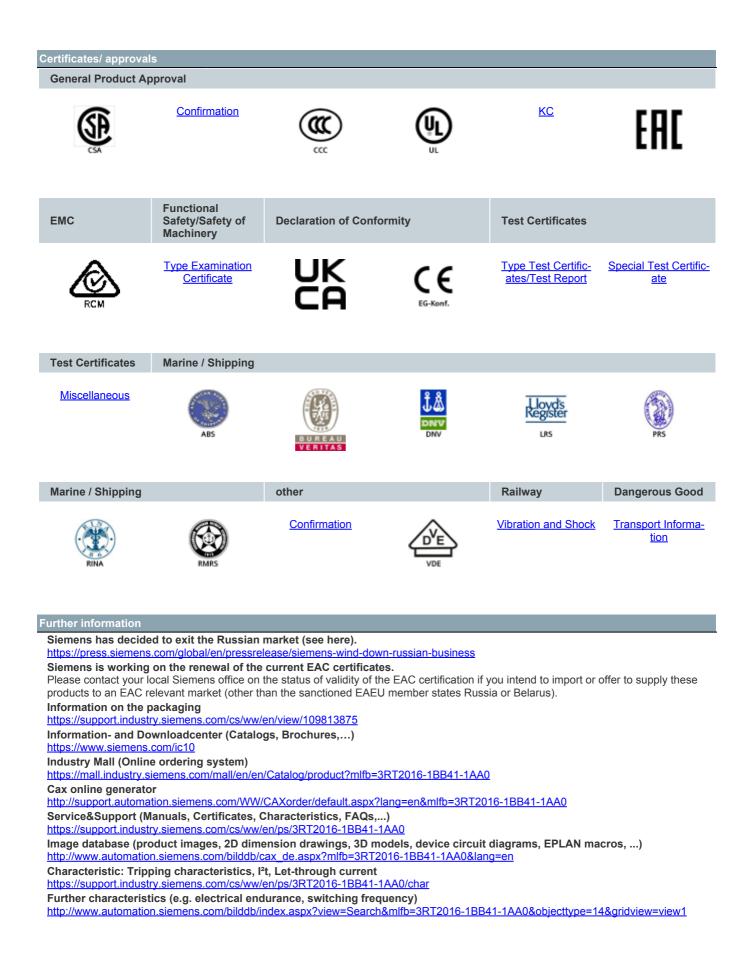
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	4 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 (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	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
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	

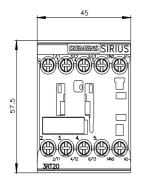
number of poles for main current circuit	3
number of NO contacts for main contacts	3
<ul> <li>operating voltage</li> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3 rated value maximum     at AC-3e rated value maximum	690 V
operational current	000 0
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
• 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	20 A
rated value	
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
<ul> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>	6.7 A
- at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	7.4 A
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	5.3 A
— up to 400 V for current peak value n=20 rated	5.3 A
value	
— up to 500 V for current peak value n=20 rated	5.3 A
value — up to 690 V for current peak value n=20 rated	5 A
value	57
● at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated</li> </ul>	3.5 A
value — up to 400 V for current peak value n=30 rated	3.5 A
value	
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
<ul> <li>at 690 V rated value</li> </ul>	3.3 A
operational current	
at 1 current path at DC-1     — at 24 V rated value	20 A
— at 60 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value — at 220 V rated value	12 A 1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.0 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	20 A

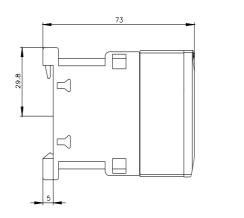
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 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	0.270
at AC-2 at 400 V rated value	4 kW
• at AC-2 at 400 V fated value	4 KVV
	2.2.14M
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5 kW
operating power for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
<ul> <li>at 690 V rated value</li> </ul>	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	3.6 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	4.6 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	5.9 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	2.4 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	3.1 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	4 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	155 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	111 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	66 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	55 A; Use minimum cross-section acc. to AC-1 rated value
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-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	24.14
rated value	24 V

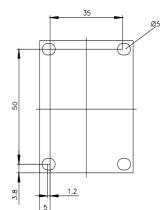
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
● at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts	1
instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
	2 A
at 500 V rated value	
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
<ul> <li>at 600 V rated value</li> </ul>	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	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	7.6 A
<ul> <li>at 600 V rated value</li> </ul>	9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	
- at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 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>	-C. 25A (CONV 4001A) -N/- COA (CONV 4001A) - DOOD - CEA (4451/ COV A)
— with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
• for short-circuit protection of the auviliant awitch	80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
lastening method	60715

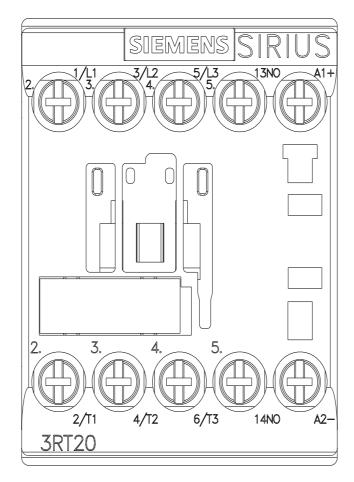
heigh         9 min           width         9 min           width         9 min           width         9 min           depth         73 min           roquied spacing         10 min	<ul> <li>side-by-side mounting</li> </ul>	Yes
width45 mmdepth73 mmrequired spacing73 mmforwards10 mmforwards10 mmforwards10 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards00 mmdownwards10 mmdownwards20 mmdownwards <td< td=""><td></td><td></td></td<>		
depth73 mm.required spacingImm	-	
refunction		
<ul> <li>with side-by-side mounting</li> <li></li></ul>	•	
		10 mm
- downwards 0 mm 0		
for grounded parts         -forwards         -forwards         -forwards         -at the sade         -forwards         -at the sade         -forwards         -at the sade         -forwards         -format.         -worwards         -format.         -forwards         -format.         -forwards         -forwards         -format.         -forwards         -forwards         -format.         -format.         -format.         -format.         -forwards         -forwards         -format.         -forwards         -forwards         -format.         -forwards         -format.         -forwards         -format.         -forwards         -format.         -forwards		
- forwards     - forwards     - forwards     - at the side		
		10 mm
- drawards 0 mm - drawards 10 mm - upwards 10 mm - drawards 10 mm - drawards 0 mm - solid 0 stranded 0 s 15 mm <sup>3</sup> , 2x (0.75 25 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> - solid 0 stranded 0 s 25 mm <sup>3</sup> , 2x (0.75 25 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> - solid 0 stranded 0 s 4 mm <sup>2</sup> - solid 0 stranded 0 s 4 mm <sup>2</sup> - solid 0 stranded 0 s 25 mm <sup>3</sup> , 2x (0.75 25 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> - solid 0 stranded 0 s 4 mm <sup>2</sup> - solid 0 stranded 0 s 25 mm <sup>3</sup> , 2x (0.75 25 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> - solid 0 stranded 0 s 4 mm <sup>2</sup> - solid 0 stranded 0 s 4 mm <sup>2</sup> - solid 0 stranded 0 s 25 mm <sup>3</sup> , 2x (0.75 25 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> - solid 0 stranded 0 s 4		
- downwards10 mm• for live parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- downwardssorew-type terminals- downwardsScrew-type terminals- solidScrew-type terminals- solidScrew-type terminals- solidScrew-type terminals- solid or standedScrew-type terminals- solid or standedScrew-type terminals- solid or standedO.S 4 mm <sup>2</sup> - solid or standedO.S 4 mm <sup>2</sup> - solid or standedScrew-type terminals- add or standedScrew-type terminals- add or s		
<ul> <li>for live parts         <ul> <li>for live parts</li> <li>for main control cricult</li> <li>solid</li> <lisor cont<="" maxiliary="" td=""><td></td><td></td></lisor></ul></li></ul>		
- forwards     10 mm       - upwards     10 mm       - at the side     6 mm       Portectoral Terminals     6 mm       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • of magnet coll     Screw-type terminals       • of connectable conductor cross-sections for main contacts     Screw-type terminals       • solid     2x (0.5 1.5 mm?), 2x (0.75 2.5 mm?), 2x 4 mm²       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     0.5 4 mm²       • stranded     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • for auxilary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     0.5 4 mm²       • for auxilary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     2 0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • for auxilary cont		
		10 mm
- downwards - at the side     0 mm 6 mm       - at the side     6 mm       - at the side     6 mm       Connection? Terminals     screw-type terminals       i for auxiliary and control circuit     screw-type terminals       i at contactor for auxiliary contacts     Screw-type terminals       i of magnet coll     Screw-type terminals       i of magnet coll     Screw-type terminals       i of one standed     2x (0.5 15 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> i solid     2x (0.5 15 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> i solid     0.5 4 mm <sup>2</sup> i standed     0.5 4 mm <sup>2</sup> i finely stranded with core end processing     0.5 2.5 mm <sup>2</sup> connectable conductor cross-sections     0.5 4 mm <sup>2</sup> i finely stranded with core end processing     0.5 2.5 mm <sup>2</sup> vortactable conductor cross-sections     0.5 2.5 mm <sup>2</sup> i for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>4</sup> 2 for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )       i for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )       i for auxiliary contacts     20 12       i for auxi		
— at the side     6 mm       Connections/ Torminals     For auxiliary and control circuit     screw-type terminals       • for auxiliary and control circuit     screw-type terminals       • of magnet coil     Screw-type terminals       • of magnet coil     Screw-type terminals       • solid     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • solid     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • finely stranded with core end processing     0.5 2.5 mm²), 2x (4 mm²       • solid or stranded     0.5 4 mm²       • finely stranded with core end processing     0.5 2.5 mm²)       • for auxiliary contacts     2x (0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • for auxiliary contacts     2x (0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     2x (0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • of auxiliary contacts <td< td=""><td></td><td></td></td<>		
Connections/ Terminals           type of electrical connection           • for main current circuit           • for main current circuit           • at contactor for auxiliary contacts           • of magnet coll           • of connectable conductor cross-sections for main contacts           • solid           • solid or stranded           • finely stranded with core end processing           Connectable conductor cross-section for auxiliary contacts           • finely stranded with core end processing           • for auxiliary contacts           20 15 mm²). 2x (0.75 25 mm²)		
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>et contactor for auxiliary contacts</li> <li>et contactor for auxiliary contacts</li> <li>solid</li> <li>solid</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>to auxiliary contacts</li> <li>ald or stranded</li> <li>finely stranded with core end processing</li> <li>to auxiliary contacts</li> <li>ald or stranded</li> <li>finely stranded with core end processing</li> <li>to auxiliary contacts</li> <li>ald or stranded</li> <li>finely stranded with core end processing</li> <li>to auxiliary contacts</li> <li>ald or stranded</li> <li>for auxiliary contacts</li> <li>ald or stranded</li> <li>for auxiliary contacts</li> <li>ald or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>alt WG cables for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>with low demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>to auxiliary contacts</li> <li>alto bill for usel</li> <li>alto bill for usel</li> <li>alto bill for usel</li> <li>alto</li></ul>		
• for main current circuit     screw-kype terminals       • for auxiliary contacts     screw-kype terminals       • of magnet coll     Screw-kype terminals       • of magnet coll     Screw-kype terminals       • of magnet coll     Screw-kype terminals       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     0.5 4 mm²       • solid conductor cross-section for main contacts     0.5 4 mm²       • solid conductor cross-section for main contacts     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • solid conductor cross-section for auxiliary contacts     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • solid or stranded     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     0.5 4 mm²       • finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²       • finely stranded with core end processing     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
• for auxiliary and control circuit         screw-type terminals           • at contactor for auxiliary contacts         Screw-type terminals           • of magnet coll         Screw-type terminals           type of connectable conductor cross-sections for main contacts         Screw-type terminals           • solid         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> • solid or stranded         2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> • solid         0.5 4 mm <sup>3</sup> • solid         0.5 4 mm <sup>3</sup> • solid or stranded         0.5 4 mm <sup>3</sup> • finely stranded with core end processing         0.5 2.5 mm <sup>3</sup> • for auxiliary contacts         4 mm <sup>3</sup> • solid or stranded         0.5 4 mm <sup>3</sup> • for auxiliary contacts         4 mm <sup>3</sup> • for auxiliary contacts         15 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> • for main contacts         22 (0.5 15 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ), 2x 4 mm <sup>2</sup> • for auxiliary contacts         22 (0.5 15 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )           • for main contacts <t< td=""><td></td><td>paraw type terminale</td></t<>		paraw type terminale
• of magnet coll       Screw-type terminals         type of connectable conductor cross-sections for main contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • solid or stranded       0.5 4 mm²         • finely stranded with core end processing       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 4 mm²         type of connectable conductor cross-sections       0.5 4 mm²         • finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • finely stranded with core end processing       0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²         • for auxiliary contacts       20 12         • for auxiliary contacts       20 12 <td></td> <td></td>		
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<ul> <li>solid or stranded</li> <li>inely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>5 4 mm<sup>2</sup></li> <li>5 2.5 mm<sup>3</sup></li> <li>5 2.5 m<sup>3</sup></li> <li>5</li></ul>		
<ul> <li>solid or stranded</li> <li>inely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>5 4 mm<sup>2</sup></li> <li>5 2.5 mm<sup>3</sup></li> <li>5 2.5 m<sup>3</sup></li> <li>5</li></ul>	• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>solid</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>of auxiliary contacts</li> <li>of or auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>of ra au</li></ul>	<ul> <li>solid or stranded</li> </ul>	
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<ul> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>stranded with core end processing</li> <li>0.5 4 mm<sup>2</sup></li> <li>o.5 2.5 mm<sup>2</sup></li> <li>verse of connectable conductor cross-sections</li> <li>o.5 or auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>o.5 or auxiliary contacts</li> <li>o.5 or auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>o.5 or auxiliary contacts</li> <li>o.5 or auxiliary contacts</li> <li>at AWG rumber as coded connectable conductor cross section</li> <li>o.5 or auxiliary contacts</li> <li>at AWG runber as coded connectable conductor cross section</li> <li>o.5 or auxiliary contacts</li> <li>at AWG rubtact according to IEC 60947-4-1</li> <li>b. value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>at according to IEC 60529</li> <li>at accor</li></ul>		
<ul> <li>stranded</li> <li>stranded with core end processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>connectable conductor cross-section for auxiliary connectable conductor cross-sections</li> <li>solid or stranded</li> <li>0.5 4 mm<sup>2</sup></li> <li>solid or stranded with core end processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>type of connectable conductor cross-sections</li> <li>of or auxiliary contacts</li> <li>- solid or stranded</li> <li>2x (0.5 1.5 mm<sup>3</sup>), 2x (0.75 2.5 mm<sup>3</sup>), 2x 4 mm<sup>2</sup></li> <li>of or auxiliary contacts</li> <li>- solid or stranded</li> <li>2x (0.5 1.5 mm<sup>3</sup>), 2x (0.75 2.5 mm<sup>3</sup>), 2x 4 mm<sup>2</sup></li> <li>2x (0.5 1.5 mm<sup>3</sup>), 2x (0.75 2.5 mm<sup>3</sup>), 2x 4 mm<sup>2</sup></li> <li>at AWG cables for auxiliary contacts</li> <li>2x (0.5 1.5 mm<sup>3</sup>), 2x (0.75 2.5 mm<sup>3</sup>), 2x 4 mm<sup>2</sup></li> <li>at AWG cables for auxiliary contacts</li> <li>2x (0.5 1.5 mm<sup>3</sup>), 2x (0.75 2.5 mm<sup>3</sup>), 2x 4 mm<sup>2</sup></li> <li>at AWG cables for auxiliary contacts</li> <li>20 12</li> <li>at AWG cables for auxiliary contacts</li> <li>20 12</li> <li>at for main contacts</li> <li>at for main contacts</li> <li>at auxiliary contacts</li> <li>20 12</li> <li>be for auxiliary contacts</li> <li>20 12</li> <li>be for auxiliary contacts</li> <li>20 12</li> <li>be for auxiliary contacts</li> <li>at auxiliary contacts</li> <li>at auxiliary contacts</li> <li>at auxiliary contacts</li> <li>at auxiliary contacts</li> <li>be for auxiliary contacts</li> <li>at auxiliary contacts</li> <li>be for auxiliary contacts</li> <li>be for auxiliary contacts</li> <li>be for auxiliary contacts</li> <li>contact according to SN 31920</li> <li>for auxiliary contact according to SN</li></ul>	contacts	
• finely stranded with core end processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or stranded with 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 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- solid or stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for main contacts20 12• for maxiliary contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12• for auxiliary contacts1000 000• mirror contact according to IEC 60947-4-1Yes; with 3RH29• with ligh demand rate according to SN 319201000 000• with high demand rate according to SN 31920100 FIT• with high demand rate according to SN 31920100 FIT3192073 %T 1 value for proof test interval or service life according to IEC 6052920 aincertion class IP on the front according to IEC 6052920 aintability for usefinger-safe, for vertical contact from the front	• solid	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²type of connectable conductor cross-sections•• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• for auxiliary contacts2x (20 16), 2x (18 14), 2x 12• for main contacts20 12• for main contacts20 12• for auxiliary contact according to SN 319201000 000proportion of dangerous failures1000 000• with high demand rate according to SN 3192073 %• failure rate [FIT] with low demand rate according to SN 3192020 a11 value for proof test interval or service life according to SN 3192020 a12 value for proof test interval or service life according to SN 3192020 a12 value for proof test interval or service life according to EC 6052920 a12 value	<ul> <li>stranded</li> </ul>	0.5 4 mm²
contactscontacts• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²type of connectable conductor cross-sections• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• at AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)AWG number as coded connectable conductor cross2x (20 16), 2x (18 14), 2x 12• for main contacts20 12• for main contacts20 12• for auxiliary contacts100 12• for auxiliary contacts100 12• for auxiliary contacts20 12• for auxiliary contact according to IEC 60947-4-1Yes; with 3RH29• mirror contact according to IEC 60947-4-1Yes; with 3RH29• mirror contact according to SN 319201000 000• mirror contact according to SN 3192073 %• with high demand rate according to SN 3192073 %• with high demand rate according to SN 3192073 %• failure rate [FIT] with low demand rate according to IEC 6052920 aIEC 61508IP20• protection class IP on the front according to IEC 60529finger-safe, for vertical contact from the front• suitability for useinger-safe, for vertical contact from the front	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>fype of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>Safety related data</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 60529</li> <li>protection class IP on the front according to IEC 60529</li> <li>suitability for use</li> </ul>		
type of connectable conductor cross-sections• for auxiliary contacts- solid or stranded- finely stranded with core end processing• at AWG cables for auxiliary contactsAWG number as coded connectable conductor crosssection• for main contacts• for auxiliary contacts20 12Safety related dataproduct function• mirror contact according to IEC 60947-4-19100 value with high demand rate according to SN 31920product function• with low demand rate according to SN 31920protection of dangerous failures• with low demand rate according to SN 31920T1 value for proof test interval or service life according to IEC 60529protection class IP on the front according to IEC 60529protection on the front according to IEC 60529suitability for use	<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²
<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data         <ul> <li>mitror contact according to IEC 60947-4-1</li> <li>Yes; with 3RH29</li> <li>1000 000</li> <li>product function             <ul> <li>mitror data according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>fallure rate [FIT] with low demand rate according to SN 31920</li> <li>F1 value for proof test interval or service life according to IEC 60529</li> <li>protection class IP on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> <li>product from the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul> </li> </ul></li></ul>	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>Safety related data</li> <li>mirror contact according to IEC 60947-4-1</li> <li>Yes; with 3RH29</li> <li>1000 000</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Th value for proof test interval or service life according to IEC 60529</li> <li>protection class IP on the front according to IEC 60529</li> <li>suitability for use</li> </ul>		
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• at AWG cables for auxiliary contacts2x (20 16), 2x (18 14), 2x 12AWG number as coded connectable conductor cross section20 12• for main contacts20 12• for auxiliary contacts20 12Safety related data70product function • mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 suitability for use20 aIP20IP20 finger-safe, for vertical contact from the front		
AWG number as coded connectable conductor cross section20 12• for main contacts20 12• for auxiliary contacts20 12Safety related data20 12product function • mirror contact according to IEC 60947-4-1Yes; with 3RH2910 value with high demand rate according to SN 31920 proportion of dangerous failures • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 100 00040 %100 FIT100 FIT31920100 FIT71 value for proof test interval or service life according to IEC 61508 protection on the front according to IEC 6052920 a1P20IP20touch protection on the front according to IEC 60529 suitability for useIEC 60529 finger-safe, for vertical contact from the front		
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<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>Yes; with 3RH29</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Th value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front</li> </ul>		
• for auxiliary contacts20 12Safety related dataproduct function• mirror contact according to IEC 60947-4-1Yes; with 3RH29B10 value with high demand rate according to SN 319201000 000proportion of dangerous failures40 %• with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN100 FIT319203192020 aT1 value for proof test interval or service life according to IEC 6150820 aprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontsuitability for use100 Certical contact from the front		20 12
Safety related data         product function         • mirror contact according to IEC 60947-4-1       Yes; with 3RH29         B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures       • with low demand rate according to SN 31920         • with high demand rate according to SN 31920       40 %         • with high demand rate according to SN 31920       73 %         failure rate [FIT] with low demand rate according to SN 31920       73 %         failure rate [FIT] with low demand rate according to SN 31920       100 FIT         31920       100 FIT         T1 value for proof test interval or service life according to IEC 60529       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       State       finger-safe, for vertical contact from the front		
product function• mirror contact according to IEC 60947-4-1Yes; with 3RH29B10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures• with low demand rate according to SN 31920• with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FIT3192071 value for proof test interval or service life according to IEC 6150820 aprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front suitability for use		
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>Pathon value with high demand rate according to SN 31920</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>Tailure rate [FIT] with low demand rate according to SN 31920</li> <li>Tailure for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>suitability for use</li> </ul>		
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proportion of dangerous failures40 %• with low demand rate according to SN 3192040 %• with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 31920100 FITT1 value for proof test interval or service life according to IEC 6150820 aprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontsuitability for usefinger-safe, for vertical contact from the front		
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front service if according to IEC 60529</li> </ul>		
<ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>protection class IP on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>touch protection on the front according to IEC 60529</li> <li>finger-safe, for vertical contact from the front service.</li> </ul>		40 %
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31920       T1 value for proof test interval or service life according to IEC 61508       20 a         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       Finger-safe, for vertical contact from the front		
IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use IP20 finger-safe, for vertical contact from the front	31920	
60529         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         suitability for use       suitability for use	IEC 61508	
suitability for use	60529	
safety-related switching OFF Yes	suitability for use	tinger-sate, for vertical contact from the front
	<ul> <li>safety-related switching OFF</li> </ul>	Yes



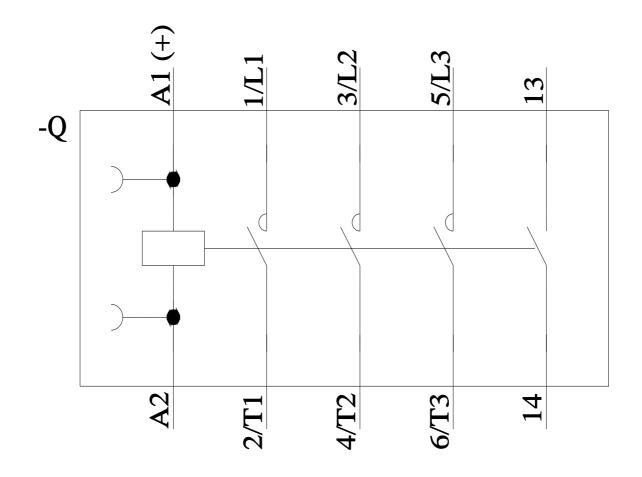








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