SIEMENS

Data sheet

3RT2016-1BB42



Power contactor, AC-3 9 A, 4 kW / 400 V 1 NC, 24 V DC 3-pole, Size S00 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.9 W
• at AC in hot operating state per pole	0.3 W
 without load current share typical 	4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for 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)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	
— 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-3e	
— 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
 at AC-5a up to 690 V rated value 	19.4 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	5.3 A
 up to 400 V for current peak value n=20 rated value 	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
 up to 690 V for current peak value n=20 rated value 	5 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	3.5 A
 — up to 400 V for current peak value n=30 rated value 	3.5 A
 — 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 operational current for approx. 200000 operating	4 mm ²
cycles at AC-4	
at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
- at 24 V rated value	20 A
	20 A 12 A
— at 110 V rated value	
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	

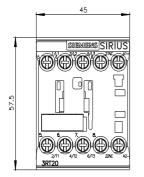
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— 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	
 at 400 V rated value 	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	2 kVA
• up to 400 V for current peak value n=20 rated value	3.6 kVA
• up to 500 V for current peak value n=20 rated value	4.6 kVA
up to 690 V for current peak value n=20 rated value	5.9 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.3 kVA
• up to 400 V for current peak value n=30 rated value	2.4 kVA
• up to 500 V for current peak value n=30 rated value	3.1 kVA
• up to 690 V for current peak value n=30 rated value	4 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	155 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	111 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	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	
-	

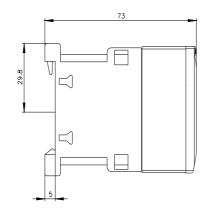
rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	
• at DC	30 100 ms
opening delay	
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of 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
• at 500 V rated value	2 A
• 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
• 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
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	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 3-phase AC motor	
• at 480 V rated value	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— 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	
 for short-circuit protection of the main circuit 	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
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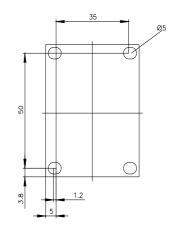
mounting position +100° rotation possitio on vertical mounting surface; can be Illed forward and abakward y+-y-t_25' on vertical mounting numbes preve and snap-on mounting onto 55 mm standard mounting rail according to DNL EN 60715 • side-by-side mounting Yes • height 58 mm width 45 mm • disk-by-side mounting Yes • height 58 mm width 45 mm • disk-by-side mounting 10 mm • upwards 10 mm • upwards 10 mm • disk side by-side mounting 0 mm • disk side	Installation/ mounting/ dimensions				
Fasting method according to DNL EX 80715 • side-by-side mounting Yes height 68 mm with 46 mm depth 73 mm required spacing 10 mm • uith side-by-side mounting 10 mm • uith side-by-side mounting 10 mm • uith side-by-side mounting 10 mm • upwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards <td></td> <td></td>					
• side-by-side mounting Yes height 68 mm width 67 mm depth 73 mm required spacing 10 mm - downards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downards 10 mm - downards 10 mm - at the side 6 mm Connectifications/f craminals screw-type terminals for auxi		· · ·			
• side-by-side mounting Yes height 68 mm witht 46 mm depth 73 mm required spacing 73 mm • with side-by-side mounting 73 mm • of with side-by-side mounting 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - of varda	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
height 98 mm width 46 mm depth 73 mm required spacing 73 mm - upwards 10 mm - downwards 10 mm - of auxiliary contacts 5 come - for auxiliary contacts 5 come	 side-by-side mounting 	-			
width 46 mm deph 73 mm required spacing 73 mm • with side-by-side mounting 73 mm • downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - at the side 0 mm - at the side 0 mm - downwards 10 mm - downwards <td></td> <td colspan="3"></td>					
depth 73 mm required spacing 73 mm - lowards 10 mm - upwards 10 mm - downwards 10 mm - downware					
required spacing • with side-by-side mounting - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - at the side 0 mm - downwards 10 mm					
• with side-by-side mounting - forwards - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - upwards 10 mm - domwards 10 mm - domwards 10 mm - otid screw-type teminals screw-type teminals screw-type teminals of main current circuit screw-type teminals ype of electrical connection screw-type teminals - oild 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - oild 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - oild or stranded 0.5 4 mm² - soild or stranded 0.	•				
- forwards 10 mm - upwards 10 mm - at the side 0 mm - at the side 0 mm - for grounded parts 10 mm - forwards 10 mm - upwards 10 mm - downwards					
- downwards 10 mm - at the side 0 mm - for grounded parts 10 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - for low ands 10 mm - for low ands 10 mm - for wards 10 mm - forwards 10 mm - downwards 50 mm - downward		10 mm			
	— upwards	10 mm			
for grounded parts	— downwards	10 mm			
- forwards 10 mm - upwards 0 mm - downwards 10 mm - downwards 10 mm - for live parts - - forwards 10 mm - upwards 10 mm - ontoctons/Terminals 50 mm for auxiliary and control circuit screw-type terminals store challe conductor cross-sections 50 mm ² , 2x (0.5 2.5 mm ²), 2x 4 mm ² - finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) - solid 0.5 4 mm ² - solid or stranded 0.5 4 mm ² - solid or stranded 0.5 4 mm ² - finely stranded with core end processing 0.5 2.5 mm ² - for auxiliary contacts<	— at the side	0 mm			
	 for grounded parts 				
- at the side 6 mm - downwards 10 mm • for live parts 10 mm - norwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ forminals 5 mm Connectable conductor for auxiliary contacts 5 crew-type terminals • of main contacts 5 crew-type terminals • for main contacts 2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - solid 2 x (0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - stranded 0.5 4 mm² - finely stranded with core end processing 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • for auxiliary contacts 2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • finely stranded with core end processing 0.5 2 mm² • or auxiliary contacts 2 x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • finely stranded with core end processing 0.5 2 mm²	— forwards	10 mm			
downwards 10 mm • for lwc parts 10 mm upwards 10 mm upwards 10 mm downwards 0 mm downwards screw-type terminals downwards Screw-type terminals down an contacts Screw-type terminals solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² finely stranded with core end processing 0.5 4 mm ² finely stranded with core end processing 0.5 4 mm ² finely stranded with core end processing 0.5 2.5 mm ² finely stranded with core end processing 0.5 2.5 mm ² finely stranded with	— upwards	10 mm			
 for live parts for wards for wards do mm downwards do mm downwards do mm downwards <lidownwards< li=""></lidownwards<>	— at the side	6 mm			
forwards 10 mm upwards 10 mm dorwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • of auxiliary and control circuit screw-type terminals • of magnet coll Screw-type terminals • of magnet coll Screw-type terminals • of magnet coll 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - 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 • solid connectable conductor cross-section for main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid contactor for auxiliary contacts 0.5 4 mm² • solid or stranded 0.5 4 mm² • inley stranded with core end processing 0.5 4 mm² • or auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid or stranded 0.5 4 mm²		10 mm			
	•				
at the side 6 mm Connections? Terminals type of electrical connection • for main current circuit strangent coil strangent coil type of connectable conductor cross-sections • for main contacts - solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • at AWG cables for main contacts 0.5 4 mm² • inely stranded with core end processing • solid 0.5 4 mm² • inely stranded with core end processing 0.5 4 mm² • inely stranded with core end processing 0.5 4 mm² • inely stranded with core end processing 0.5 2.5 mm² connectable conductor cross-sections • finely stranded with core end processing 0.5 4 mm² • inely stranded with core end processing • for auxiliary contacts • of auxiliary contacts 20 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x	- F				
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • of auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Screw-type terminals • of main contracts - solid - solid or stranded - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • solid • solid • stranded • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts					
type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coli screw-type terminals screw-type terminals Screw-type terminals		6 mm			
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• for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts • solid 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 15 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 15 mm²), 2x (0.75 2.5 mm²) • at AWG cables for main contacts 2x (0.5 15 mm²), 2x (0.75 2.5 mm²) • at AWG cables for main contacts 2x (0.5 15 mm²), 2x (0.75 2.5 mm²) • at AWG cables for main contacts 2x (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 4 mm² • finely stranded with core end processing 0.5 2.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • solid or stranded 0.5 1.5 mm³), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm³), 2x (0.75 2.5 mm²), 2x 4 mm² • of auxiliary contacts 20 12 • for auxiliary contacts 20 12<					
• at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - 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) • et AVXC cables for main contacts 2x (20 16), 2x (18 14), 2x 12 connectable conductor cross-section for main contacts 2x (20 16), 2x (18 14), 2x 12 • solid 0.5 4 mm² • stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² vpre of connectable conductor cross-sections 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - ninely stranded with core end processing 0.5 4 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - ninely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² - for auxiliary contacts					
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type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing at AWG cables for main contacts solid stranded solid stranded s	-				
• for main contacts - solid 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² - solid or stranded 2x (0.5 1,5 mm ²), 2x (0.75 2,5 mm ²), 2x 4 mm ² - finely stranded with core end processing 2x (2.5 1,5 mm ²), 2x (0.75 2,5 mm ²) e at AWG cables for main contacts 2x (2.0.5 1,5 mm ²), 2x (0.75 2,5 mm ²) connectable conductor cross-section for main contacts 2x (2.0 16), 2x (18 14), 2x 12 connectable conductor cross-section for auxiliary contacts 0.5 4 mm ² • solid 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² • solid or stranded 0.5 4 mm ² • solid or stranded 0.5 4 mm ² • finely stranded with core end processing 0.5 2.5 mm ² vertice of connectable conductor cross-sections 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² - solid or stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² - finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² - finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • for auxiliary contacts 20 12 AWG num		Screw-type terminals			
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 for auxiliary contacts for auxiliary contacts solid or stranded finely stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts at AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 Safety related data product function mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 1000 000 		0.5 2.5 mm²			
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— finely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • at AWG cables for auxiliary contacts $2x (20 16), 2x (18 14), 2x 12$ AWG number as coded connectable conductor cross section $20 12$ • for main contacts $20 12$ • for auxiliary contacts $20 12$ Safety related data $20 12$ product functionYes• mirror contact according to IEC 60947-4-1YesB10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures $1 000 000$	-	$2 \times (0.5 - 1.5 \text{ mm}^2) 2 \times (0.75 - 2.5 \text{ mm}^2) 2 \times 4 \text{ mm}^2$			
• at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12 AWG number as coded connectable conductor cross section 20 12 • for main contacts 20 12 • for auxiliary contacts 20 12 Safety related data 20 12 product function Ves • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures 1 000 000					
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• for auxiliary contacts 20 12 Safety related data					
Safety related data product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures	for main contacts	20 12			
product function • mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures 4 000 000	 for auxiliary contacts 	20 12			
mirror contact according to IEC 60947-4-1 Yes B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures	Safety related data				
B10 value with high demand rate according to SN 31920 1 000 000 proportion of dangerous failures 1 000 000	product function				
proportion of dangerous failures	mirror contact according to IEC 60947-4-1	Yes			
	B10 value with high demand rate according to SN 31920	1 000 000			
• with low demand rate according to SN 31920 40 %	proportion of dangerous failures				
	 with low demand rate according to SN 31920 	40 %			

 with high dema 	nd rate according to SN	31920	73 %			
failure rate [FIT] with low demand rate according to SN 31920		100 FIT				
T1 value for proof test interval or service life according to IEC 61508		20 y				
protection class IP on the front according to IEC 60529		IP20				
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical contact from the front			
suitability for use						
 safety-related s 	witching OFF		Yes			
Certificates/ approval	s					
General Product Ap	proval					
		<u>Confirmatio</u>		<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA	
Marine / Shipping	other		Dangerous Good			
RMRS	<u>Confirmation</u>	DE	<u>Transport Informa-</u> tion			
Further information	woloadcenter (Catalo	as Brochures				
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-1BB42						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-1BB42						
<u>http://support.automation.siemens.com/www/CAXorder/default.aspx?lang=en&mitb=3R12016-1BB42</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BB42						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-1BB42⟨=en</u> Characteristic: Tripping characteristics, I ² t, Let-through current						
https://support.indust	ry.siemens.com/cs/ww/	en/ps/3RT2016-1	BB42/char			
Further characteristics (e.g. electrical endurance, switching frequency)						

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1BB42&objecttype=14&gridview=view1







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