3RT2016-2BB42-1AA0

Data sheet



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, upright mounting position

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 protective separation 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)	
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 	22 A
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 rated	20 A
value	2071
• 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	4 mm²
operational current for approx. 200000 operating cycles at	
AC-4	44.0
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 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
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 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
 at 1 current path at DC-3 at DC-5 	

- all 110 V moter value • with 2 current paths in series at DC-3 at DC-5 — all 24 V roted value — all 60 V rated value • with 3 current paths in series at DC-3 at DC-5 — all 60 V rated value • at AC-2 at 400 V rated value — all 60 V rated value — all	— at 24 V rated value	20 A
with 2 current paths in series at DC-3 at DC-5	— at 60 V rated value	0.5 A
	— at 110 V rated value	0.15 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
### with 3 current paths in series at DC-3 at DC-5 ### at 24 V rated value ### at 20 A ### at 110 V rated value ### at 20 A ### at 110 V rated value ### at 20 A ### at 110 V rated value ### at 20 A ### at 20 V rated value ### at 20 A ### at 20 V rated value ### at 20 A ### at 20 V rated value	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	with 3 current paths in series at DC-3 at DC-5	
	•	20 A
at 220 V rated value at 460 V rated value at 500 V rated value at 500 V rated value at 622 at 400 V rated value at 623 V rated value at 623 V rated value at 600 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-20 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up to 500 V for current peak value n-30 rated value up		
— at 800 V rated value		
e at AC-2 at 400 V rated value • at AC-2 at 400 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 600 V rated value - at 200 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated value - be 100 V rated value - at 600 V rated value - be 100 V rated value - be 100 V rote current peak value n=20 rated value - be 100 V for current peak value n=20 rated value - be 100 to 600 V for current peak value n=20 rated value - be 100 to 500 V for current peak value n=20 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 V for current peak value n=30 rated value - be 100 to 500 S whiching at zero current maximum - be limited to 1 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at zero current maximum - be limited to 10 s switching at ze		
* al AC-2 at 400 V rated value 4 kW 4		0.2 A
at 230 V rated value at 600 V rated value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V for current peak value 200 rated value at 600 V		4 kW
	• at AC-3	
	— at 230 V rated value	2.2 kW
at 690 V rated value	— at 400 V rated value	4 kW
- at 230 V rated value	— at 500 V rated value	4 kW
at 230 V rated value at 400 V rated value at 600 V rated value at 690 V rated value 25.5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 25.5 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 20.5 kW up to 500 V for current peak value n=20 rated value 20.5 kW up to 500 V for current peak value n=20 rated value 20.5 kW up to 500 V for current peak value n=20 rated value 20.5 kW operating apparent power at AC-6a up to 500 V for current peak value n=20 rated value 20.5 kWA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 20.5 kWA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 20.5 kWA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current peak value n=30 rated value 20.4 kWA up to 500 V for current maximum 20.5 kWantent 20.5	— at 690 V rated value	5.5 kW
- at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - 5.5 kW operating power for approx. 200000 operating cycles at AC-4 4 at 400 V rated value - 2 kW • at 600 V rated value - 2.5 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value - 2.5 kW • up to 400 V for current peak value n=20 rated value - 4.6 kVA • up to 500 V for current peak value n=20 rated value - 5.5 kWA • up to 500 V for current peak value n=20 rated value - 5.5 kWA • up to 500 V for current peak value n=20 rated value - 5.5 kWA • up to 500 V for current peak value n=20 rated value - 5.5 kWA • up to 230 V for current peak value n=20 rated value - 5.5 kWA • up to 500 V for current peak value n=30 rated value - 2.4 kWA • up to 500 V for current peak value n=30 rated value - 2.4 kWA • up to 500 V for current peak value n=30 rated value - 3.1 kWA • up to 500 V for current peak value n=30 rated value - 4.4 kWA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum - ilmited to 5 s switching at zero current maximum - ilmited to 30 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s switching at zero current maximum - ilmited to 60 s	• at AC-3e	
- at 500 V rated value	— at 230 V rated value	2.2 kW
- at 500 V rated value	— at 400 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4 at 400 V rated value at 890 V rated value 2.5 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value n=50 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=50 rated value up to 500 V for current peak value n=50 rated value up to 500 V	— at 500 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4 at 400 V rated value at 890 V rated value 2.5 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value n=50 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=50 rated value up to 500 V for current peak value n=50 rated value up to 500 V	— at 690 V rated value	5.5 kW
at 400 V rated value at 690 V rated value 2 kW operating apparent power at AC-8a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current peak value n=30 rated value value to 500 V for current maximum value to 600 V for current maximum value to 600 voice t		
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• up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum • limited to 60 S switching at zero current maximum •	at 690 V rated value	2.5 kW
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 5,9 kVA operating apparent power at AC-8a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value short-time withstand current in cold operating state up to vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for current peak value n=30 rated value vis to 500 V for switching at zero current maximum vis to 500 V for switching at zero current maximum vis to 500 V for switching at zero current maximum vis to 500 V for switching at zero current maximum vis to 600 S switching at zero current maximum vis to 600 S switching at zero current maximum vis to 600 S switching at zero current maximum vis to 600 S switching at	operating apparent power at AC-6a	
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operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at DC operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • 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 operating range factor control supply voltage rated value of magnet coil at DC		
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at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC rated value rated value of magnet coil at DC		
at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC 250 1/h DC 24 V	• at AC-3 maximum	750 1/h
type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	• at AC-3e maximum	750 1/h
type of voltage of the control supply voltage control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC DC 24 V		250 1/h
control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC 24 V	Control circuit/ Control	
• rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC	type of voltage of the control supply voltage	DC
• rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC	control supply voltage at DC	
magnet coil at DC	rated value	24 V
magnet coil at DC	operating range factor control supply voltage rated value of	
initial value 0.8		
	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 instantaneous	1
contact	40 A
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 at 500 V rated value	2 A
	1 A
at 690 V rated value operational current at DC-12	10
at 24 V rated value	10 A
	10 A 6 A
at 48 V rated value at 60 V rated value	
at 60 V rated value at 110 V rated value	6 A 3 A
• at 110 V rated value	
at 125 V rated value at 230 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	40.4
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	7.0 A
at 480 V rated value at 600 V rated value	7.6 A
• at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	0.22 ha
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	2 ha
— 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 goodination 1 required.	aC: 25A (600\/ 400\A) aM: 20A (600\/ 400\A) BCCC: 25A (445\/ 00\A)
— 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 Installation/mounting/dimensions	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	stradies as badesatel assure
mounting position	standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm

depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	O THILL
·	10 mm
— forwards	10 mm
— upwards — at the side	6 mm
— downwards	10 mm
	10 111111
• for live parts	10 mm
— forwards	10 mm
— upwards	10 mm 10 mm
— downwards	
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary 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	
• 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)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 4 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
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)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function • mirror contact according to IEC 60947-4-1	Vas
mirror contact according to IEC 60947-4-1 Suitability for use safety related switching OEE	Yes
suitability for use safety-related switching OFF B10 value with high demand rate according to SN 31020	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	40.9/
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 failure rate (FLT) with law degrand rate according to SN 31020	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 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
Certificates/ approvals	





Confirmation



<u>KC</u>



Functional
EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good

Environment



Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2016-2BB42-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2BB42-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2BB42-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

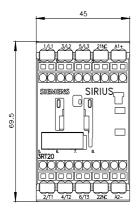
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2BB42-1AA0&lang=en

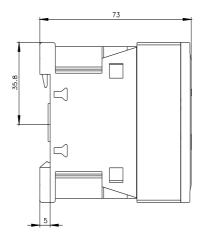
Characteristic: Tripping characteristics, I2t, Let-through current

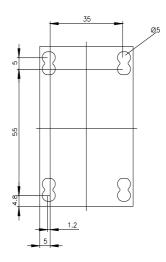
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2BB42-1AA0/char

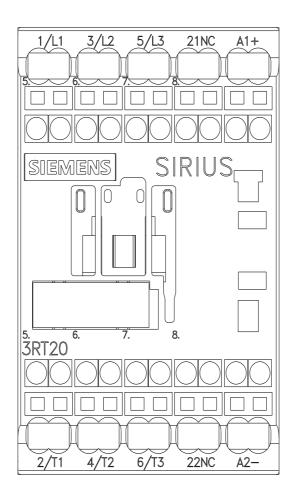
Further characteristics (e.g. electrical endurance, switching frequency)

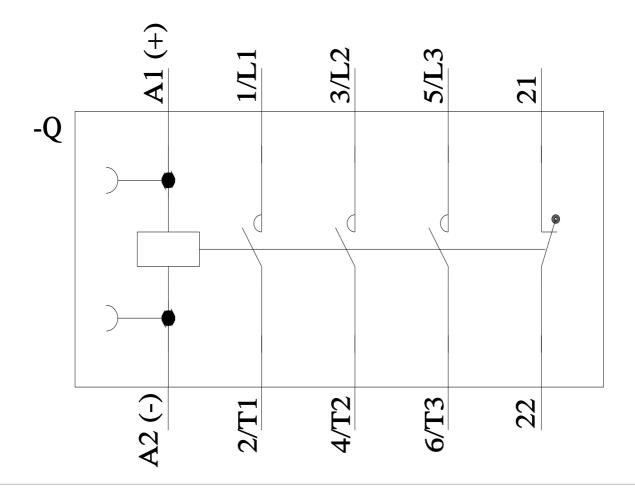
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2016-2BB42-1AA0\&objecttype=14\&gridview=view1}$











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