SIEMENS

Data sheet

3RT2025-1AP00



power contactor, AC-3 17 A, 7.5 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz, 3-pole, Size S0 screw terminal

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S0		
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	2.7 W		
• per pole	0.9 W		
power loss [W] for rated value of the current without load current share typical	7.6 W		
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 acc. to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at AC	7,5g / 5 ms, 4,7g / 10 ms		
shock resistance with sine pulse			
• at AC	11,8g / 5 ms, 7,4g / 10 ms		
mechanical service life (switching cycles)			
 of contactor typical 	10 000 000		
 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 acc. to IEC 81346-2	Q		
Substance Prohibitance (Date)	01.10.2009 00:00:00		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
 ambient temperature during operation 	-25 +60 °C		
ambient temperature during storage	-55 +80 °C		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		

operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	40 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
 at AC-4 at 400 V rated value 	15.5 A
 at AC-5a up to 690 V rated value 	35.2 A
 at AC-5b up to 400 V rated value at AC-6a 	14.1 A
 — up to 230 V for current peak value n=20 rated value 	11.4 A
 — up to 400 V for current peak value n=20 rated value 	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	11.3 A
 — up to 230 V for current peak value n=30 rated value 	7.6 A
 — up to 400 V for current peak value n=30 rated value 	7.6 A
 — up to 500 V for current peak value n=30 rated value 	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	7.7 A
• at 690 V rated value	7.7 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
 at 1 current path at DC-3 at DC-5 	

— at 110 V rated value	2.5 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.09 A				
— at 600 V rated value	0.06 A				
 with 2 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	35 A				
— at 110 V rated value	15 A				
— at 220 V rated value	3 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
 with 3 current paths in series at DC-3 at DC-5 					
— at 24 V rated value	35 A				
— at 110 V rated value	35 A				
— at 220 V rated value	10 A				
— at 440 V rated value	0.6 A				
— at 600 V rated value	0.6 A				
operating power					
• at AC-3					
— at 230 V rated value	4 kW				
— at 400 V rated value	7.5 kW				
— at 500 V rated value	7.5 kW				
— at 690 V rated value	11 kW				
operating power for approx. 200000 operating cycles					
at AC-4					
• at 400 V rated value	3.5 kW				
at 690 V rated value	6 kW				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=20 rated value	4.5 kV·A				
• up to 400 V for current peak value n=20 rated value	7.8 kV·A				
• up to 500 V for current peak value n=20 rated value	9.9 kV·A				
up to 690 V for current peak value n=20 rated value	13.6 kV·A				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=30 rated value	3 kV·A				
• up to 400 V for current peak value n=30 rated value	5.2 kV·A				
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	6.6 kV·A 9.1 kV·A				
short-time withstand current in cold operating state	3.1 KV A				
up to 40 °C					
 limited to 1 s switching at zero current maximum 	225 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	225 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	180 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	115 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at AC	5 000 1/h				
operating frequency					
• at AC-1 maximum	1 000 1/h				
• at AC-2 maximum	1 000 1/h				
• at AC-3 maximum	1 000 1/h				
• at AC-4 maximum	300 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
• at 50 Hz rated value	230 V				
operating range factor control supply voltage rated					
value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
apparent pick-up power of magnet coil at AC					
• at 50 Hz	65 V·A				

inductive power factor with closing power of the coil					
• at 50 Hz	0.82				
apparent holding power of magnet coil at AC					
• at 50 Hz	7.6 V·A				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.25				
closing delay	0.23				
• at AC	938 ms				
opening delay					
• at AC	4 16 ms				
arcing time	10 10 ms				
control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					
number of NC contacts for auxiliary contacts instantaneous contact	1				
number of NO 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	14 A				
• at 600 V rated value	17 A				
yielded mechanical performance [hp]					
 for single-phase AC motor 					
— at 110/120 V rated value	1 hp				
— at 230 V rated value	3 hp				
• for 3-phase AC motor					
— at 200/208 V rated value	3 hp				
— at 220/230 V rated value	5 hp				
— at 460/480 V rated value	10 hp				
— at 575/600 V rated value	15 hp				
contact rating of auxiliary contacts according to UL	A600 / P600				
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)				

- with type of assignment 2 required

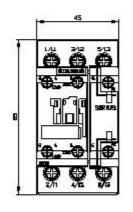
 \bullet for short-circuit protection of the auxiliary switch required

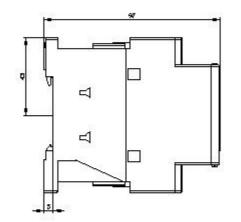
gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA)

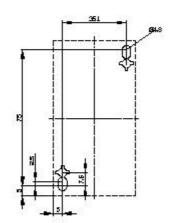
worthing position 4-180° rotation possible on vertical mounting surface fastening method side-by-side mounting side-by-side mounting side-by-side mounting with ds mm degrin gs mm degrin gr mm required spacing with side-by-side mounting - forwards - forwards - forwards - downwards - downwards - forwards - forwards - forwards - forwards - mm - qwards - forwards - forwards - forwards - mm - qwards - forwards - mm - downwards - mm - downwards - forwards - mm - downwards - mm - forwards - mm - main current circuit - forwards - for main current circuit - solid or stranded - solid or stranded<	nstallation/ mounting/ dimensions				
Instanting method prover and snap-orm noutring onto 35 mm shandard mounting real according to DIN EN 60715 height 45 mm height 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 97 mm - forwards 10 mm - downwards 10 mm - for auxiliary contacts screw-type terminals typ of connectable conductor cros-sections		+/-180° rotation possible on vertical mounting surface; can be tilted			
escording to DNI EN 60715 [°] height 45 mm width 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 10 mm - upwards 10 mm - downwards 10 mm - esoid screw-type terminals screw-type terminals		forward and backward by +/- 22.5° on vertical mounting surface			
height 85 mm widtn 45 mm depth 97 mm required spacing 97 mm • with side-by-side mounting 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm Contaction for unitials screw-type terminals type of olacitical connection screw-type terminals <td>fastening method</td> <td colspan="4"></td>	fastening method				
width 45 mm depth 97 mm evidth 90 mm	 side-by-side mounting 	Yes			
depth 97 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - solud context screw-type terminals for awaliary contacts screw-type terminals for awaliary and control cicuit	height	85 mm			
evaluated spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forvards 10 mm - downwards 10 mm - at the side 6 m connectable conductor cross-sections 6 magine coll type of connectable conductor cross-sections 5 crew-type terminals - solid	width	45 mm			
with side-by-side mountingImage: constraint of the side- forwards10 mm- downwards10 mm- downwards10 mm- downwards0 mm- forgrounded parts10 mm- upwards6 mm- upwards0 mm- downwards10 mm- upwards6 mm- downwards10 mm- downwards5 mm- forwards10 mm- downwards5 mm- downwards2 mm- downards2 mm- downards2 mm- solid1 10 mm ² <t< td=""><td>depth</td><td>97 mm</td></t<>	depth	97 mm			
- forwards10 mm- upwards00 mm- downwards00 mm- at the side0 mm- at the side0 mm- at the side0 mm- forvards10 mm- upwards10 mm- at the side5 mm- at the side6 mm- downwards10 mm- downwards5 mm- downwards10 mm- downwards5 crew-type terminals- downwards5 crew-type terminals- for auxiliary contacts5 crew-type terminals- for auxiliary contacts2 x (1 2.5 mm?), 2x (2.5 10 mm²)- solid or stranded2 x (1 2.5 mm?), 2x (2.5 10 mm²)- solid or stranded1 10 mm²- solid or stranded1 10 mm²- solid or stranded0.5 2.5 mm²- solid or stranded0.5 2.5 mm²- solid or stranded0.5 2.5 mm² <td>required spacing</td> <td></td>	required spacing				
- upwards10 mm- downwards00 mm- downwards00 mm- forvards10 mm- upwards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- of the parts forvards10 mm- downwards10 mm- at the side6 mmContactions/ TerminalsYep of electrical connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for audiary and control circuitScrew-type terminals• for down catcleScrew-type terminals• for audiary and control circuitScrew-type terminals• for audiary and control croustScrew-type terminals• standed1 10 mm²• solid or stranded1 10 mm²• for audiary contactsScrew-type terminals• solid or stranded5 2.5 mm²• solid or stranded <td> with side-by-side mounting </td> <td></td>	 with side-by-side mounting 				
	— forwards	10 mm			
at the side0 mm• for grounded parts10 mm forwards10 mm at the side6 mm at the side6 mm at the side6 mm downwards10 mm downwards10 mm forwards10 mm forwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm at the side6 mm at the side5 crew-type terminals at the side5 crew-type terminals of or auxiliary and control circuit5 crew-type terminals of ad of stranded2x (1 25 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 25 mm²), 2x (2.5 10 mm²) solid or stranded1 10 mm² solid or stranded1 10 mm² solid or stranded0.5 2.5 mm² solid or stranded0.5 2.5 mm² solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) solid or stranded	— upwards	10 mm			
• for grounded parts 10 mm forwards 10 mm upwards 6 mm downwards 0 mm - downwards 10 mm - forwards 10 mm - downwards 5 mm - downwards 0 mm - at the side 6 mm connections/ Terminals screw-type terminals connections/ Terminals screw-type terminals of a axiliary and control circuit screw-type terminals of a main corrent circuit screw-type terminals of angent coil 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 1 10 mm ³ - solid or stranded 1 10 mm ³ - solid or stranded 0.5 2.5 mm ³ - inely	— downwards	10 mm			
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 50 mm - or auxiliary contacts Screw-type terminals of main contacts 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 1 10 mm ² • finely stranded with core end processing 2x (1 2.5 mm ³) • solid or stranded <	— at the side	0 mm			
	 for grounded parts 				
- at the side6 mm- downwards10 mm• for live parts10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- at the side6 mmconnections/Torminals6 mmtype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for main control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of angnet coll2x (1 2.5 mm²), 2x (2.5 10 mm²)• for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• asolid1 10 mm²• solid1 10 mm²• solid1 10 mm²• solid1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded2x (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)• 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)• at AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG c	— forwards	10 mm			
downwards10 mm• for live parts forwards10 mm upwards10 mm downwards10 mm downwards0 mm downwards6 mm• downwards0 mm downwards10 mm downwards10 mm downwards0 mm downwards10 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwards0 mm downwardsscrew-type terminals• for main current circuitscrew-type terminals• for main contactsScrew-type terminals• of magnet coll2x (1 2.5 mm ²), 2x (2.5 10 mm ²) solid2x (1 2.5 mm ²), 2x (2.5 10 mm ²) solid or stranded2x (1 2.5 mm ²), 2x (2.5 10 mm ²) finely stranded with core end processing2x (1 2.5 mm ²), 2x (2.5 10 mm ²)• stranded1 10 mm ² • stranded1 10 mm ² • stranded with core end processing1 10 mm ² • solid or stranded0.5 2.5 mm ² • solid or stranded0.5 2.5 mm ² • for auxiliary contacts	— upwards	10 mm			
• for live parts - forwards 10 mm - upwards 10 mm - - upwards 10 mm - - downwards 10 mm - - downwards 10 mm - - at the side 6 mm - for main current circuit screw-type terminals - • for main current circuit screw-type terminals - • of main contacts - - - • of main contacts - - - - - • for main contacts - <td>— at the side</td> <td>6 mm</td>	— at the side	6 mm			
forwards10 mm upwards10 mm downwards10 mm downwards0 mm downwards6 mm downwards6 mm downwards6 mm domnections/ Terminalsscrew-type terminals for main current circuitscrew-type terminals for main current circuitscrew-type terminals for main contactsScrew-type terminals formain contactsScrew-type terminals solid2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) forly stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) solid1 10 mm² forly stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) solid1 10 mm² solid1 10 mm² solid1 10 mm² solid1 10 mm² solid2x (1 2.5 mm²), 2x (2.5 10 m²) solid1 10 mm² solid1 10 mm² solid1 10 mm² solid2 2.5 mm² solid or stranded0.5 2.5 mm² solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) <td>— downwards</td> <td>10 mm</td>	— downwards	10 mm			
- upwards 10 mm - downwards 10 mm - at the side 6 mm connections/ Terminals 6 mm type of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • of auxiliary and control circuit screw-type terminals • of auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-type terminals • of main contacts - solid - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) • at AWG cables for main contacts 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) • solid 1 10 mm ² • solid 1 10 mm ² • solid or stranded 1 10 mm ² • finely stranded with core end processing 1 10 mm ² • solid or stranded 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 2x (0.5 1,5 mm ³),	 for live parts 				
- downwards 10 mm - a the side 6 mm connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • a contactor for auxiliary ond control circuit screw-type terminals • a contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • for main contacts - solid - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 1 10 mm² - solid 1 10 mm² - solid 1 10 mm² - solid 0.5 2.5 mm² - solid or stranded 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm² - solid or stranded 0.5 2.5 mm² - solid or stranded 0.5 2.5 mm² - solid or stranded 0.5 2.5 mm² - finely stranded with core end processing 0.5 2.5 mm²)	— forwards	10 mm			
at the side 6 mm connections/ Terminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • of main contacts Screw-type terminals - solid Screw-type terminals - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 1 10 mm² • solid 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— upwards	10 mm			
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • acontactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - solid or stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • stranded • finely stranded with core end processing • stranded • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • solid or	— downwards	10 mm			
type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coll screw-type terminals screw-type terminals Screw-type terminals	— at the side	6 mm			
 for main current circuit screw-type terminals screw-type terminals<td>Connections/ Terminals</td><td></td>	Connections/ Terminals				
 for main current circuit screw-type terminals screw-type terminals<td>type of electrical connection</td><td></td>	type of electrical connection				
• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet collScrew-type terminalstype of connectable conductor cross-sectionsFor main contacts- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²)• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• solid1 10 mm²• solid1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• solid or stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• 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)• at AWG cables for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• AWG number as coded connectable conductor20 14		screw-type terminals			
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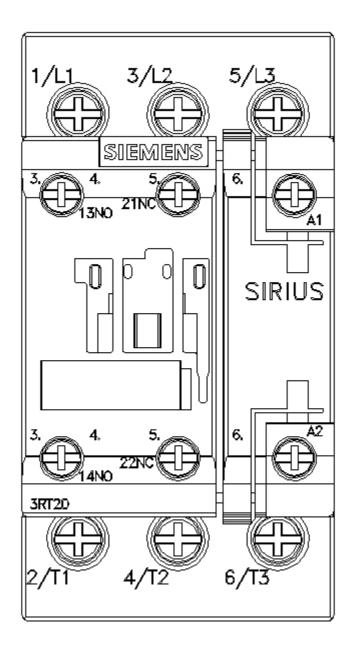
B10 value with high demand rate acc. to	SN 31920	1 000 00	00			
proportion of dangerous failures						
 with low demand rate acc. to SN 3 	1920	40 %	40 %			
 with high demand rate acc. to SN 31920 		73 %				
failure rate [FIT] with low demand rate a	failure rate [FIT] with low demand rate acc. to SN 31920					
product function						
• mirror contact acc. to IEC 60947-4	-1	Yes				
T1 value for proof test interval or serv IEC 61508	vice life acc. to	20 y				
protection class IP on the front acc. to	DIEC 60529	IP20				
touch protection on the front acc. to I	EC 60529	finger-sa	afe, for vertical con	tact from the front		
suitability for use safety-related switching	g OFF	Yes				
Certificates/ approvals						
General Product Approval					EMC	
			<u>KC</u>	EHC	RCM	
Declaration of Conformity	Test Certifica	ates		Marine / Shipping		
Miscellaneous EG-Konf.	<u>Type Tes</u> <u>Certificates/7</u> <u>Report</u>		<u>Special Test</u> <u>Certificate</u>	ABS	B UREAU VERITAS	
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https://support.industry.siemens.com/cs/ Further characteristics (e.g. electrical						

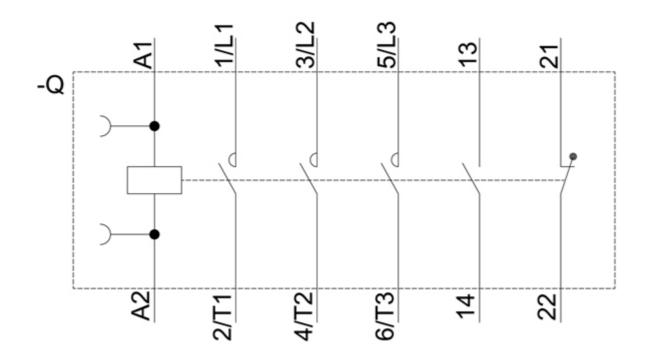
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AP00&objecttype=14&gridview=view1











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