## SIEMENS

## Data sheet

## 3RT2038-3AB00



Power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 24 V AC, 50 Hz 3-pole, size S2 Spring-type terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	17.1 W
• per pole	5.7 W
power loss [W] for rated value of the current without load current share typical	16 W
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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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
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	-
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	90 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	55 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	79.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	66.4 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	70 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	70 A
— up to 500 V for current peak value n=20 rated value	70 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	58 A
	46.7 A
— up to 230 V for current peak value n=30 rated value — up to 400 V for current peak value n=30 rated	46.7 A
value — up to 500 V for current peak value n=30 rated	46.7 A
value — up to 690 V for current peak value n=30 rated	46.7 A
value minimum cross-section in main circuit at maximum AC-1	
rated value	55 mm
operational current for approx. 200000 operating cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	30 A
at 690 V rated value	24 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 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	55 A
— at 24 V rated value	55 A 45 A
— at 110 V rated value — at 220 V rated value	45 A 5 A
at 220 V rated value     at 440 V rated value	5 A 1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	0.07
- at 24 V rated value	55 A
	55 A
— at 110 V rated value	0071
— at 110 V rated value — at 220 V rated value	45 A
— at 220 V rated value	45 A 2 9 A
— at 220 V rated value — at 440 V rated value	2.9 A
— at 220 V rated value — at 440 V rated value — at 600 V rated value	
— at 220 V rated value — at 440 V rated value	2.9 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
at AC-2 at 400 V rated value	37 kW
● at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	15.8 kW
• at 690 V rated value	21.8 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	27.8 kV·A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	48.4 kV·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	60.6 kV·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	69.3 kV·A
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	18.6 kV·A
• up to 400 V for current peak value n=30 rated value	32.3 kV·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	40.4 kV·A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	55.8 kV·A
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>	1 298 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	898 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	640 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	414 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	333 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	700 1/h
• at AC-2 maximum	350 1/h
• at AC-3 maximum	500 1/h
● at AC-4 maximum	150 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	24 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	

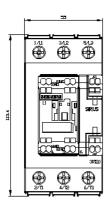
	100.1/ 4
• at 50 Hz	190 V·A
inductive power factor with closing power of the coil	0.70
• at 50 Hz	0.72
apparent holding power of magnet coil at AC • at 50 Hz	16 V·A
	10 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 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 instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
• at 500 V rated value	2 A
<ul> <li>at 690 V rated value</li> </ul>	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	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
• at 600 V rated value	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
• 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	65 A
• at 600 V rated value	62 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	5 hp
— at 230 V rated value	15 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	

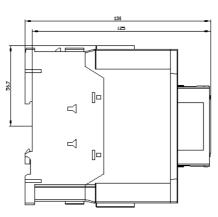
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
e side by side mounting	Yes		
side-by-side mounting	114 mm		
height			
width	55 mm		
depth	130 mm		
required spacing			
with side-by-side mounting			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
— at the side Connections/ Terminals	6 mm		
Connections/ Terminals	6 mm		
Connections/ Terminals type of electrical connection • for main current circuit	screw-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals spring-loaded terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	screw-type terminals spring-loaded terminals Spring-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	screw-type terminals spring-loaded terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections	screw-type terminals spring-loaded terminals Spring-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²)		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²)		
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )		
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Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1)		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1)		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         • solid or stranded         • solid or stranded with core end processing         • solid or stranded with core end processing         • solid or stranded with core end processing         • solid or stranded with core section for auxiliary contacts         • solid or stranded	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 \dots 35 \text{ mm}^2), 1x (1 \dots 50 \text{ mm}^2)$ $2x (1 \dots 25 \text{ mm}^2), 1x (1 \dots 35 \text{ mm}^2)$ $2x (18 \dots 2), 1x (18 \dots 1)$ $1 \dots 35 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • solid or stranded with core end processing         • solid or stranded         • solid or stranded         • finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 \dots 35 \text{ mm}^2), 1x (1 \dots 50 \text{ mm}^2)$ $2x (1 \dots 25 \text{ mm}^2), 1x (1 \dots 35 \text{ mm}^2)$ $2x (18 \dots 2), 1x (18 \dots 1)$ $1 \dots 35 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • 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         • finely stranded with core end processing         • finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 \dots 35 \text{ mm}^2), 1x (1 \dots 50 \text{ mm}^2)$ $2x (1 \dots 25 \text{ mm}^2), 1x (1 \dots 35 \text{ mm}^2)$ $2x (18 \dots 2), 1x (18 \dots 1)$ $1 \dots 35 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing         • solid or stranded         • finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 \dots 35 \text{ mm}^2), 1x (1 \dots 50 \text{ mm}^2)$ $2x (1 \dots 25 \text{ mm}^2), 1x (1 \dots 35 \text{ mm}^2)$ $2x (18 \dots 2), 1x (18 \dots 1)$ $1 \dots 35 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$		
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Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         e finely stranded with core end processing         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         totacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         - solid or stranded         - finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$ 2x (18 2), 1x (18 1) $1 35 mm^2$ $0.5 2.5 mm^2$ $0.5 2.5 mm^2$ $2x (0.5 2.5 mm^2)$ $2x (0.5 2.5 mm^2)$		
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Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$ 2x (18 2), 1x (18 1) $1 35 mm^2$ $0.5 2.5 mm^2$ $0.5 2.5 mm^2$ $2x (0.5 2.5 mm^2)$ $2x (0.5 2.5 mm^2)$ $2x (0.5 1.5 mm^2)$		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         • finely stranded with core end processing         • finely stranded with core end processing         — finely stranded with core end processing         — finely stranded with core end processing         — finely stranded	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 \dots 35 \text{ mm}^2), 1x (1 \dots 50 \text{ mm}^2)$ $2x (1 \dots 25 \text{ mm}^2), 1x (1 \dots 35 \text{ mm}^2)$ $2x (18 \dots 2), 1x (18 \dots 1)$ $1 \dots 35 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$ $0.5 \dots 2.5 \text{ mm}^2$ $2x (0.5 \dots 2.5 \text{ mm}^2)$ $2x (0.5 \dots 2.5 \text{ mm}^2)$ $2x (0.5 \dots 2.5 \text{ mm}^2)$ $2x (0.5 \dots 2.5 \text{ mm}^2)$		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         — solid or stranded         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         • for auxiliary contacts         — solid or stranded         • for auxiliary contacts         — solid or stranded         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         — finely stranded with core end processing </td <td>screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm<sup>2</sup>), 1x (1 50 mm<sup>2</sup>) 2x (1 25 mm<sup>2</sup>), 1x (1 35 mm<sup>2</sup>) 2x (18 2), 1x (18 1) 1 35 mm<sup>2</sup> 0.5 2.5 mm<sup>2</sup> 0.5 2.5 mm<sup>2</sup> 2x (0.5 2.5 mm<sup>2</sup>) 2x (0.5 2.5 mm<sup>2</sup>) 2x (0.5 2.5 mm<sup>2</sup>) 2x (0.5 2.5 mm<sup>2</sup>)</td>	screw-type terminals spring-loaded terminals Spring-type terminals Spring-type terminals 2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> ) 2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> ) 2x (18 2), 1x (18 1) 1 35 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> ) 2x (0.5 2.5 mm <sup>2</sup> )		
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         • at contactor for auxiliary contacts         • of magnet coil         type of connectable conductor cross-sections         • for main contacts         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         connectable conductor cross-section for auxiliary contacts         • finely stranded with core end processing         • for auxiliary contacts         - solid or stranded         • for auxiliary contacts         - solid or stranded         • finely stranded with core end processing         • finely stranded with core end processing         • finely stranded with core end processing         - finely stranded with core end processing         - finely stranded with core end processing	screw-type terminals spring-loaded terminals Spring-type terminals $2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$ 2x (18 2), 1x (18 1) $1 35 mm^2$ $0.5 2.5 mm^2$ $0.5 2.5 mm^2$ $2x (0.5 2.5 mm^2)$ $2x (0.5 2.5 mm^2)$ 2x (20 14)		

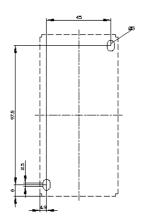
Safety related data							
product function mir	ror contact acc. to IE	C 60947-4-1	Yes				
B10 value with high demand rate acc. to SN 31920			1 000 000				
	proportion of dangerous failures						
<ul> <li>with low demand</li> </ul>	d rate acc. to SN 3192	0	40 %				
<ul> <li>with high deman</li> </ul>	nd rate acc. to SN 319	20	73 %				
-			100 FIT				
	failure rate [FIT] with low demand rate acc. to SN 31920 product function positively driven operation acc. to IEC			No			
T1 value for proof tes IEC 61508	st interval or service	life acc. to	20 y				
protection class IP of	n the front acc. to IE	C 60529	IP20				
touch protection on t	the front acc. to IEC	60529	finger-safe, for vertical cont	act from the front			
suitability for use			<u>J</u> , , , , , , , , , , , , , , , , , , ,				
<ul> <li>safety-related sv</li> </ul>	witching OFF		Yes				
Certificates/ approvals	-						
					FNO		
General Product App	proval				EMC		
(SP)			KC	EHC	RCM		
Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping		
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>UK Declaration</u> Conformity	n of <u>Special Test Certific-</u> ate	<u>Type Test Certific-</u> ates/Test Report	ABS		
Marine / Shipping							
BUREAU VERITAS	Llovd's Register us	PRS	RINA	RMRS	ENVILEDRAD		
other							
Confirmation	Confirmation						

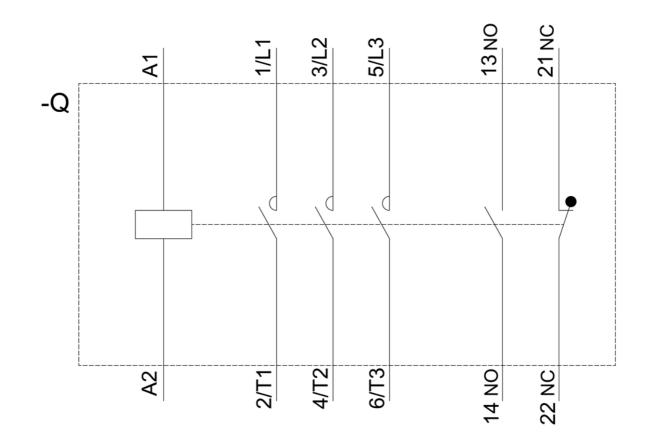
Information and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2038-3AB00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-3AB00 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AB00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2038-3AB00&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

## https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AB00/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-3AB00&objecttype=14&gridview=view1









last modified:

12/21/2020 🖸