## SIEMENS

## Data sheet

## 3RT2038-1AF04



Contactor, AC-3, 37 kW / 400 V, 2 NO + 2 NC, 110 V AC, 50 Hz, 3-pole, Size S2, screw terminal

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	No
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	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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
<ul> <li>ambient temperature during operation</li> </ul>	-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

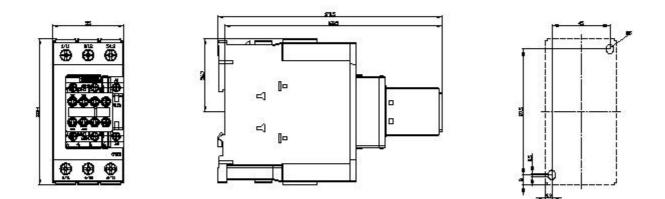
operational current	-
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	90 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	90 A
— up to 690 V at ambient temperature 60 °C rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 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> <li>at AC-6a</li> </ul>	66.4 A
<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
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	46.7 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	46.7 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	46.7 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²
operational current for approx. 200000 operating cycles at AC-4	-
at 400 V rated value	30 A
<ul> <li>at 690 V rated value</li> </ul>	24 A
operational current	
• at 1 current path at DC-1	
— 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
<ul> <li>with 3 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	55 A
	55 A 55 A
— at 24 V rated value	
— at 24 V rated value — at 110 V rated value	55 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	55 A 45 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	55 A 45 A 2.9 A
<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	55 A 45 A 2.9 A

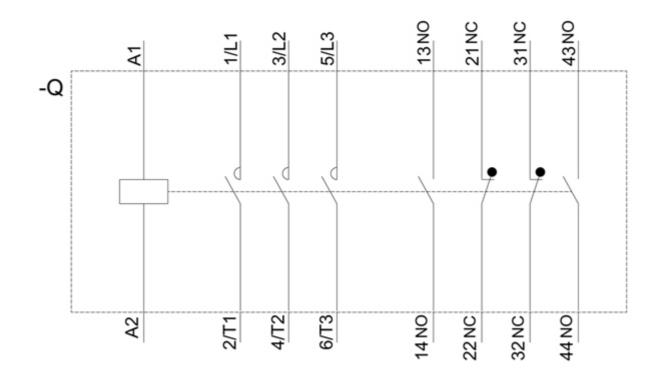
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 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	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	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 • at 400 V rated value	15.8 kW
at 690 V rated value	21.8 kW
operating apparent power at AC-6a	21.0 KVV
up to 230 V for current peak value n=20 rated value	27.8 kV·A
• up to 400 V for current peak value n=20 rated value	48.4 kV·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	60.6 kV·A
• up to 690 V for current peak value n=20 rated value	69.3 kV·A
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	18.6 kV·A
• up to 400 V for current peak value n=30 rated value	32.3 kV·A
• up to 500 V for current peak value n=30 rated value	40.4 kV·A
• up to 690 V for current peak value n=30 rated value	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
Imited to 30 s switching at zero current maximum	414 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	333 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	700.4/h
• 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	440.1/
at 50 Hz rated value	110 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	190 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 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	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
at 200 V rated value     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	10.4
• 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	
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 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
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	
<ul> <li>at 480 V rated value</li> </ul>	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
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	

- with type of accordination 1 required     96: 250.4 (690 V, 100 KA), BM: 100 A (690 V, 100 KA), BSSB: 125A (415 V, 600 V), 100 KA), BSSB: 125A (415 V, 710 KA), BSSB: 125A					
	— with type of coordination 1 required				
required	— with type of assignment 2 required	<b>o</b>			
mounting position         +1400° rotation possitio on vertical mounting surface are be titled forward and backward by +2.2.5° on vertical mounting surface.           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail accounding to LNN EN 60715           • side-by-side mounting         Yes           height         114 mm           vidth         95 mm           depth         174 mm           required spacing         •           • with side-by-side mounting         174 mm           - guards         10 mm           - upwards         10 mm           - downwards         10 mm           - forowards		gG: 10 A (500 V, 1 kA)			
mounting position         +1400° rotation possitio on vertical mounting surface are be titled forward and backward by +2.2.5° on vertical mounting surface.           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail accounding to LNN EN 60715           • side-by-side mounting         Yes           height         114 mm           vidth         95 mm           depth         174 mm           required spacing         •           • with side-by-side mounting         174 mm           - guards         10 mm           - upwards         10 mm           - downwards         10 mm           - forowards	Installation/ mounting/ dimensions				
forward and backward by +-2 22 * on vertical mounting surface           scared and backward by +-2 22 * on vertical mounting rail according to DIN EN 60715           height         114 mm           width         55 mm           depth         114 mm           required spacing         114 mm           eight         114 mm           required spacing         10 mm           - forwards         10 mm           - upwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm		+/-180° rotation possible on vertical mounting surface; can be tilted			
according to DIN EN 60715 <sup>1</sup> height         114 mm           width         65 mm           depth         174 mm           required spacing         174 mm           • with side-by-side mounting         10 mm           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - at the side         6 mm           - forwards         10 mm           - at the side         6 mm           - downwards         10 mm           - for main current trout         screw-type terminals           for auguing and contot cicruit         screw-type terminals		forward and backward by +/- 22.5° on vertical mounting surface			
height       114 mm         width       55 mm         depth       174 mm         required spacing       174 mm         • with side-by-side mounting       174 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       0 mm         - for grounded parts       0 mm         - bowards       10 mm         - downwards       10 mm         - for rauxilary and control circuit       screw-type terminals         of or main current circuit       screw-type terminals         of main current circuit       screw-type terminals         - for auxilary and control circuit       screw-type terminals	-	according to DIN EN 60715			
with         55 mm           depth         174 mm           required spacing         174 mm           • with side-by-side mounting         0 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - at the side         6 mm           - downwards         10 mm           - downwards <td< td=""><td><ul> <li>side-by-side mounting</li> </ul></td><td>Yes</td></td<>	<ul> <li>side-by-side mounting</li> </ul>	Yes			
depth       174 mm         required spacing       174 mm         evidi side-by-side mounting       0 mm         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - at the side       0 mm         - for grounded parts       0 mm         - for grounded parts       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - for vards       10 mm         - downwards       10 mm         - for axillary control:       screw-type terminals         of rauxillary and control circuit       screw-type terminals         - for axillary contacts       2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )         - ald or stranded       0.5 2.5 mm <sup>2</sup> , 1x (1 5	height	114 mm			
• with side-by-side mounting         - equired spacing         • with side-by-side mounting         - upwards       10 mm         - upwards       10 mm         - downwards       0 mm         - downwards       10 mm         - downwards       10 mm         - for grounded parts       0 mm         - downwards       10 mm         - downwards <t< td=""><td>width</td><td>55 mm</td></t<>	width	55 mm			
• with side-by-side mounting       10 mm         - Lowards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       0 mm         - at the side       0 mm         - for groundd parts       10 mm         - wards       10 mm         - wards       10 mm         - downwards       10 mm         - for auitiary and control circuit       screw-type terminals         for auitiary and co	depth	174 mm			
- forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - at the side     0 mm       - for grounded parts     0 mm       - forwards     10 mm       - upwards     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - for auxiliary contacts	required spacing				
	<ul> <li>with side-by-side mounting</li> </ul>				
- downwards     10 mm       - at the side     0 mm       • for grounded pants     10 mm       - forwards     10 mm       - upwards     10 mm       - at the side     6 mm       - downwards     10 mm       - downwards     0 for main current circuit       screw-type terminals     5 crew-type terminals       - for main contacts     2x (1 35 mm²), 1x (1 50 mm²)       - for wainde with core end processing     2x (1 25 mm²), 1x (1 35 mm²)       - finely stranded with core end processing     1 35 mm²       - finely str	— forwards	10 mm			
at the side0 mm• for grounded parts10 mm upwards10 mm upwards10 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards50 mm downwards10 mm downwards50 mm downards50 mm downards50 mm downards50 mm downards2x (1 35 mm <sup>3</sup> ), 1x (1 50 mm <sup>3</sup> ) solid or stranded2x (1 25 mm <sup>3</sup> ), 1x (1 50 mm <sup>3</sup> ) ender conductor cross-section for main contacts2x (1 25 mm <sup>3</sup> ) finely stranded with core end processing1 35 mm <sup>3</sup> solid or stranded0.5 2.5 mm <sup>3</sup> solid or stranded2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> ) finely stranded with core end processing50 2.5 mm <sup>3</sup> <	— upwards	10 mm			
• for grounded parts         10 mm           - forwards         10 mm           - upwards         6 mm           - downwards         10 mm           - downwards         10 mm           - for live parts         10 mm           - for live parts         10 mm           - forwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         0 mm           - downwards         screw-type terminals           - for main contacts         Screw-type terminals           - for main contacts         Screw-type terminals           - for auxiliary contacts         2x (1	— downwards	10 mm			
- forwards10 mm upwards10 mm upwards0 mm downwards10 mm downwards10 mm downwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm downwards10 mm downwardsscrew-type terminals downwardsScrew-type terminals downwards2x (1 35 mm²), 1x (1 50 mm²) downards2x (1 25 mm²), 1x (1 50 mm²) solid or stranded2x (1 25 mm²), 1x (1 35 mm²) finely stranded with core end processing1 35 mm² solid or stranded0.5 2.5 mm² solid or stranded0.5 2.5 mm² finely stranded with core end processing1 35 mm² finely stranded with core end processing0.5 2.5 mm² finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) finely stranded with core end processi	— at the side	0 mm			
- forwards10 mm upwards10 mm upwards0 mm downwards10 mm downwards10 mm downwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm downwards10 mm downwardsscrew-type terminals downwardsScrew-type terminals downwards2x (1 35 mm²), 1x (1 50 mm²) downards2x (1 25 mm²), 1x (1 50 mm²) solid or stranded2x (1 25 mm²), 1x (1 35 mm²) finely stranded with core end processing1 35 mm² solid or stranded0.5 2.5 mm² solid or stranded0.5 2.5 mm² finely stranded with core end processing1 35 mm² finely stranded with core end processing0.5 2.5 mm² finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) finely stranded with core end processi	<ul> <li>for grounded parts</li> </ul>				
- at the side     6 mm       - downwards     10 mm       • for live parts     10 mm       - for live parts     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     6 mm       Connections/ Terminals     5 mm       type of electrical connection     screw-type terminals       • for mail current circuit     screw-type terminals       • of mailitign and control circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of main contexts     Screw-type terminals       • of main contacts     Screw-type terminals       • of main contacts     2x (1 35 mm²), 1x (1 50 mm²)       • at AWG cables for main contacts     2x (1 35 mm²), 1x (1 35 mm²)       • of main contacts     2x (1 35 mm²), 1x (1 35 mm²)       • of mely stranded with core end processing     1 35 mm²       • onnectable conductor cross-section for auxiliary     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 (20 16, 2x (18 14)       • AWWG number as coded connectable conductor cross section for mai		10 mm			
- at the side     6 mm       - downwards     10 mm       • for live parts     10 mm       - for live parts     10 mm       - upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - downwards     6 mm       Connections/ Terminals     5 mm       type of electrical connection     screw-type terminals       • for mail current circuit     screw-type terminals       • of mailitign and control circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of main contexts     Screw-type terminals       • of main contacts     Screw-type terminals       • of main contacts     2x (1 35 mm²), 1x (1 50 mm²)       • at AWG cables for main contacts     2x (1 35 mm²), 1x (1 35 mm²)       • of main contacts     2x (1 35 mm²), 1x (1 35 mm²)       • of mely stranded with core end processing     1 35 mm²       • onnectable conductor cross-section for auxiliary     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 (20 16, 2x (18 14)       • AWWG number as coded connectable conductor cross section for mai					
downwards10 mm• for live parts forwards10 mm upwards10 mm downwards10 mm downwards10 mm at the side6 mmConnection/I TerminalsScrew-type terminals• for nain current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at notactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• for main contacts2x (1 35 mm²), 1x (1 50 mm²)• at AWG cables for main contacts2x (1 35 mm²), 1x (1 35 mm²)• at AWG cables for auxiliary contacts2x (1 35 mm²), 2x (0,75 2,5 mm²)• of inely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)• of or auxiliary contacts2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)• of or auxiliary contacts2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)• of or auxiliary contacts2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)• o		6 mm			
• for live parts					
forwards10 mm upwards10 mm downwards10 mm downwards0 mm downwards6 mmConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• for main contactsScrew-type terminals• for main contacts2x (1 35 mm²), 1x (1 50 mm²)- solid or stranded2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 35 mm²), 1x (1 35 mm²)• at AWG cables for main contacts2x (1 35 mm²), 1x (1 35 mm²)• finely stranded with core end processing1 35 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG cables for auxiliary contacts2x (20 10, 2x (18 14)• at AWG cables for auxiliary contacts2x (20 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG cables for auxiliary contacts2x (20 16), 2x (18 14)• AWG number as coded connectable conductor cross section for main contacts2x (20 16, 2x (18 14)• AWG number as coded connectable conductor cross section for main contacts2x (20 14• AWG number as coded connectable conductor cross section for main contacts20 14					
upwards10 mm downwards6 mm at the side6 mmConnections/ Terminals5 mmUppe of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• of main contactsScrew-type terminals• of auxiliary contacts2x (1 35 mm²), 1x (1 50 mm²)• at AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• at finely stranded with core end processing1 35 mm²• finely stranded with core end processing1 35 mm²• finely stranded with core end processing1 35 mm²• for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• 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)• 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 contacts18 1• AWG number as coded connectable conductor cross section for main contacts20 14• AWG number as coded connectable conductor cross section for main contacts20 14	•	10 mm			
- downwards     10 mm       - a 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 main control circuit     screw-type terminals       • of main contacts     Screw-type terminals       • of main contacts     Screw-type terminals       • of main contacts     Screw-type terminals       • for all or stranded     2x (1 35 mm²), 1x (1 50 mm²)       • finely stranded with core end processing     2x (1 25 mm²), 1x (1 35 mm²)       • finely stranded with core end processing     1 35 mm²       • finely stranded with core end processing     1 35 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)       • solid or stranded     2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)       • solid or stranded     2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)       • solid or stranded     2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)       <					
at the side     6 mm       Connections/ Terminals     screw-type terminals       io for auxiliary and control circuit     screw-type terminals       i at contactor for auxiliary contacts     Screw-type terminals       i of magnet coil     Screw-type terminals       i of main contacts     - solid or stranded       - solid or stranded     2x (1 35 mm²), 1x (1 50 mm²)       - finely stranded with core end processing     2x (1 25 mm²), 1x (1 35 mm²)       e at AWG cables conductor cross-section for main contacts     2x (18 2), 1x (18 1)       connectable conductor cross-section for auxiliary contacts     0.5 2.5 mm²       e solid or stranded     0.5 2.5 mm²       e solid or stranded     0.5 2.5 mm²       e for auxiliary contacts     2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)       e atXWG cables for auxiliary contacts     2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)       e atWG cables for auxiliary contacts     2x (0.5 1,6 m²), 2x (0.75 2,5 mm²)       e at WG cables for auxiliary contacts     2x (0.5 1,6 m²), 2x (0.75 2,5 mm²)       e AWG number as coded connectable con					
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         • of main contacts         • of main contacts         - solid or stranded         - finely stranded with core end processing         • at AWG cables for main contacts         2x (1 35 mm²), 1x (1 50 mm²)         • at AWG cables for main contacts         2x (1 25 mm²), 1x (1 50 mm²)         • at AWG cables for main contacts         2x (1 25 mm²), 1x (1 50 mm²)         • finely stranded with core end processing         1 35 mm²         connectable conductor cross-section for main contacts         0.5 2.5 mm²         connectable conductor cross-sections         • finely stranded with core end processing         0.5 2.5 mm²         type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded         - solid or stranded         - nely stranded with core end processing         • finely stranded with core end processing         • for auxiliary contacts         - solid or str					
type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul> Screw-type terminals          Screw-type terminals <ul> <li>screw-type terminals</li> </ul> <li>screw-type terminals</li> <li>Screw-type terminals&lt;</li>					
• for main current circuit       screw-type terminals         • 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-section for main contacts       2x (1 35 mm²), 1x (1 50 mm²)         - finely stranded with core end processing       2x (1 35 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 35 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 35 mm²), 1x (1 35 mm²)         • finely stranded with core end processing       1 35 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         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       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)         • finely stranded with core end processing       2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)         • finely stranded       2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)         • at AWG cables for auxiliary contacts       2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²)					
• for auxiliary and control circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       • for main contacts         • for main contacts       2x (1 35 mm²), 1x (1 50 mm²)         - finely stranded with core end processing       2x (1 25 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 25 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 25 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 35 mm²)         • at AWG cables for main contacts       2x (1 25 mm²)         • at AWG cables for main contacts       2x (1 35 mm²)         • at AWG cables for main contacts       2x (1 25 mm²)         • finely stranded with core end processing       1 35 mm²         • for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • at AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         • AWG number as coded connectable conductor cross section for main contacts       20 14         • AWG number as coded connectable conductor cross section for auxilia		screw_type terminals			
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• of magnet coll       Screw-type terminals         type of connectable conductor cross-sections       • for main contacts         • solid or stranded       2x (1 35 mm²), 1x (1 50 mm²)         - finely stranded with core end processing       2x (1 35 mm²), 1x (1 35 mm²)         • at AWG cables for main contacts       2x (1 35 mm²), 1x (1 35 mm²)         connectable conductor cross-section for main contacts       2x (1 35 mm²)         • finely stranded with core end processing       1 35 mm²         onnectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       0.5 2.5 mm²         • finely stranded       0.5 2.5 mm²         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)         • at AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         • AWG number as coded connectable conductor cross section for auxiliary contacts       20 14         • AWG number as coded connectable conductor cross section for auxiliary contacts       20 14					
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<ul> <li>for main contacts         <ul> <li>solid or stranded</li> <li>solid or stranded with core end processing</li> <li>tat AWG cables for main contacts</li> <li>tat AWG cables for end processing</li> <li>tat at the core end processing</li> <litat core="" end="" li="" processing<="" the=""></litat></ul></li></ul>	-	Screw-type terminals			
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• finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       • for auxiliary contacts         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)         • at AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         • AWG number as coded connectable conductor cross section for main contacts       18 1         • AWG number as coded connectable conductor cross section for auxiliary contacts       20 14	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1)			
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<ul> <li>for auxiliary contacts         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> <li>Safety related data</li>	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> </ul> </li> </ul>	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>			
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AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor cross section for auxiliary contacts     Safety related data	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts             <ul> <li>auxiliary contacts</li> <li>solid or stranded</li> </ul> </li> </ul></li></ul>	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 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )			
AWG number as coded connectable conductor cross section for auxiliary contacts 20 14 Safety related data	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts                  <ul> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>model or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> </ul></li></ul>	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> 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )			
cross section for auxiliary contacts Safety related data	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor</li> </ul> </li> </ul>	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> 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)			
	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> </li> </ul>	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 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1			
B10 value with high demand rate acc. to SN 31920 1 000 000	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>minely stranded with core end processing</li> </ul> </li> <li>et auxiliary contacts         <ul> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> </li> </ul>	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 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1			
	<ul> <li>finely stranded with core end processing         <ul> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>minely stranded with core end processing</li> </ul> </li> <li>et auxiliary contacts         <ul> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>AWG number as coded connectable conductor cross section for auxiliary contacts</li> </ul> </li> </ul>	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 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 18 1			

proportion of dang	erous failures						
• with low demand rate acc. to SN 31920			40 %				
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>			73 %				
failure rate [FIT] with	low demand rate acc. I	to SN 31920	100 FIT				
product function							
<ul> <li>mirror contact</li> </ul>	acc. to IEC 60947-4-1		Yes				
<ul> <li>positively drive</li> </ul>	en operation acc. to IEC	60947-5-1	No				
T1 value for proof t IEC 61508	est interval or service	life acc. to	20 у				
protection class IP on the front acc. to IEC 60529			IP20				
•	n the front acc. to IEC		finger-safe, for vertical contact from the front				
•	ety-related switching O	FF	Yes				
Certificates/ approva	ls						
General Product A	pproval					EMC	
() E		(U) L	K	<u>«C</u>	EHC	RCM	
Declaration of Con	formity	Test Certifica	ates		Marine / Shipping		
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Tes</u> <u>Certificates/</u> <u>Report</u>		<u>al Test</u> ficate	ABS	BUREAU VERITAS	
Marine / Shipping						other	
Llovd's Register uts	PRS	RINA		ARS	DNV-GL DNV-GL	<u>Confirmation</u>	
other							
Confirmation							
urther information							
Information- and Do https://www.siemens	ownloadcenter (Catalo s.com/ic10	ogs, Brochures,	)				
	ne ordering system)						
	siemens.com/mall/en/er	n/Catalog/produc	<u>t?mlfb=3RT2038-1</u>	<u>AF04</u>			
Cax online generat	or ation.siemens.com/WW		ilt asnv?land=en&n	nlfh=3RT20	38-1AF04		
Service&Support (I	Manuals, Certificates, try.siemens.com/cs/ww.	Characteristics,	FAQs,)				
Image database (pr	roduct images, 2D dim on.siemens.com/bilddb/	ension drawing	s, 3D models, dev		diagrams, EPLAN ma	cros,)	
Characteristic: Trip	pping characteristics, I try.siemens.com/cs/ww.	<sup>2</sup> t, Let-through	current	Tolong-CI			
	tics (e.g. electrical en						





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