## SIEMENS

## Data sheet

## 3RT2028-1BB44-3MA0



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, captive auxiliary switch, no surge suppressor retrofittable

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.2 W
<ul> <li>without load current share typical</li> </ul>	5.9 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes

Global Warming Potential [CO2 eq] total	221 kg
Global Warming Potential [CO2 eq] during manufacturing	2.65 kg
Global Warming Potential [CO2 eq] during operation	219 kg
Global Warming Potential [CO2 eq] after end of life	-0.639 kg
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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	50 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	31.5 A
• at AC-6a	20.0 A
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	30.8 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	21 A
<ul> <li>at AC-oa</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 200 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	21.4 A
— up to 500 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	35 A
— at 60 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A

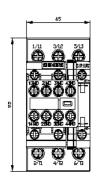
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 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	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	6 kW
<ul> <li>at 690 V rated value</li> </ul>	10.3 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	12.2 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	21.3 kVA
• up to 500 V for current peak value n=20 rated value	26.6 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 kVA
short-time withstand current in cold operating state up to 40 $^{\circ}\mathrm{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	593 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	341 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	199 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	162 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	

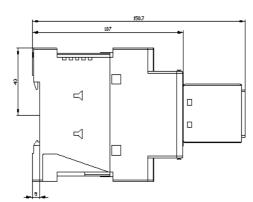
operating frequency

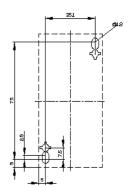
● at AC-1 maximum	1 000 1/h
● at AC-2 maximum	750 1/h
<ul> <li>at AC-3 maximum</li> </ul>	750 1/h
<ul> <li>at AC-3e maximum</li> </ul>	750 1/h
● at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	
• at DC	50 170 ms
opening delay	
at DC	15 18 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	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 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	
<ul> <li>at 24 V rated value</li> </ul>	6 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	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
	3 hp
— at 110/120 V rated value	
— at 110/120 V rated value	
— at 230 V rated value	5 hp
<ul><li>— at 230 V rated value</li><li>for 3-phase AC motor</li></ul>	5 hp
<ul> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> </ul>	5 hp 10 hp
<ul><li>— at 230 V rated value</li><li>for 3-phase AC motor</li></ul>	5 hp

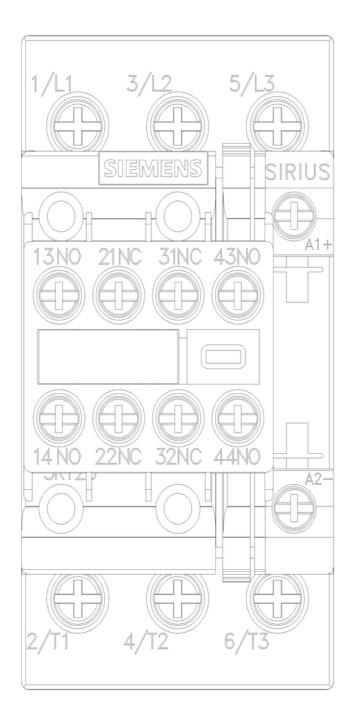
contact rain of auxiliary contacts according to UL     A80 / 0600       Stort-cruit protection     design of the train lat.       - with type of conditation required     g5: 125A, (680V, 100AA), abf. 25A, (68	— at 575/600 V rated value	25 hp			
Stans-Could protection           design of the face link           - with type of coordination 1 required           (a) the face inter-circuit protection of the auxiary switch required           mounting position           - factor-circuit protection of the auxiary switch required           fastening method           - sole cycle sole mounting           - sole cycle sole mounting           - with table-by-sole mounting           - fastening method           - sole cycle sole mounting           - with table-by-sole mounting           - fastening method           - fastening method <tr< td=""><td></td><td colspan="4">· ·</td></tr<>		· ·			
design of the fues that         • for short-Encurptoxic production to the main circuit         - with type of acadimation 1 required         - mounting particular protection differentiations         mounting particle         tastening method         • adat-by-side mounting         • adat-by-side mounting         • with         - forwards         - forwards       0 mm					
- of short-final protection of the main cloud:					
with type of assignment 2 required         gG: 12.4 (BSW, 100A), BSBB: 126.4 (415V, 80KA)	-				
		gG: 125A (690V.100kA), aM: 50A (690V.100kA), BS88: 125A (415V.80kA)			
• or short-circuit protection of the auxiliary switch required         9C: 10.4 (800 V, 1 kJ)           Installation mounting definerations         +180° indution possible on vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.225° or vertical mounting surface, can be filted forward and backward by +5.25° or vertical mounting surface, can be filted forward and backward by the filted forward and backward by the forward and backward by the filted forward and backward by the filted forward by the filted f					
Installation mounting dimensions         -(16)*rotation possible on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and backward by +-2.21* on vertical mounting surface: can be liked forward and mounting surface: can be liked forwar					
mounting peakton         +/-60" motion possible on vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and betweet and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting surface; can be bitted forward and y-/-6.22 or vertical mounting whether y-/-6.22 or vertical y0.22 or verti		90. 107 (000 V, 110 V)			
backward by +-2 25 °m vertical mounting surface           fastening method         sore with single-on mounting onto 35 nm DIN rail according to DIN EN 60715           Yes         Method         45 mm           height         95 mm         95 mm           with         46 mm         46 mm           depth         151 nm         75 mm           required spacing		+/-180° rotation possible on vertical mounting surface: can be tilted forward and			
• sig-by-side mounting         Yes           height         85 mm           width         46 mm           depth         151 mm           required spacing         151 mm           • with side-by-side mounting         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - odo         screw-type terminals           of anubing and con					
height     86 mm       with     45 mm       depth     151 mm       required spacing     10 mm       - drowads     10 mm       - upwards     10 mm       - drowads     10 mm       - at the side     6 mm       of maging and control circuit     screw-type terminals       of maging and control circuit     screw-type ter	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
width         46 mm           depth         151 mm           required spacing         151 mm           • with side-by-side mounting         -           - upwards         10 mm           - upwards         10 mm           - downwards         00 mm           - downwards         10	<ul> <li>side-by-side mounting</li> </ul>	Yes			
depth     151 mm       required spacing	height	85 mm			
required spacing         • with side-by-side mounting         - Growards       10 mm         - upwards       10 mm         - downwards       10 mm         - at the side       0 mm         - downwards       10 mm         - at the side       0 mm         - upwards       10 mm         - upwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - for like side       6 mm         Connections       5 crew-type terminals         - downwards       5 crew-type terminals         - of main contracts       5 crew-type terminals         - of main contracts       5 crew-type terminals         - solid or stranded       2x (1 25 mm <sup>1</sup> ), 2x (2.5 10 mm <sup>2</sup> )	width	45 mm			
• with side-by-side mountingID mm forwards10 mm downwards00 mm downwards00 mm downwards00 mm for graunded parts00 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwardsScrew-type terminals downwardsScrew-type terminals downwardsScrew-type terminals downwards2x (1 25 mm?) 2x (25 10 mm?) for auxiliary contacts2x (1 25 mm?) 2x (25 10 mm?) fordy stranded with core end processing2x (1 25 mm?) 2x (25 10 mm?) fordy stranded with core end processing2x (1 25 mm?) 2x (25 15 mm?) soiid or stranded2x (1 25 mm?) 2x (25	depth	151 mm			
- forwards10 mm- upwards10 mm- upwards0 mm- at the side0 mm- for grounded parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwardsScrew-type terminals- for auxiliary contactsScrew-type terminals- for auxiliary contactsScrew-type terminals- solid2x (1 25 mm²) 2x (25 10 mm²)- solid2x (1 25 mm²) 2x (25 10 mm²)- solid or stranded2x (1 25 mm²) 2x (25 10 mm²)- solid or stranded2x (1 25 mm²) 2x (25 10 mm²)- solid or stranded1 10 mm²- solid or stranded2x (1 25 mm²) 2x (25 10 mm²)- for auxiliary contacts2x (1 25 mm²)	required spacing				
	<ul> <li>with side-by-side mounting</li> </ul>				
- downwards10 mm- at the side0 mm- forwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards5 mmConnectional Connectionscrew-type terminals- for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• of magnet coil2x (1 25 mm²) 2x (25 10 mm²)• of main current circuitscrew-type terminals• of main current circuitscrew-type terminals• of main current circuitscrew-type terminals• of main contacts2x (1 25 mm²) 2x (25 10 mm²)• of added2x (1 25 mm²) 2x (25 10 mm²)• of added2x (1 25 mm²) 2x (25 6 mm²), 1x 10 mm²• solid or standed1 10 mm²• for added2x (1 25 mm²) 2x (0.75 6 mm²), 1x 10 mm²• solid or standed5 25 mm²• for adding conductor cross-sections5 25 mm²• for adding conductor cross-sections5 25 mm²• for adding conductor cross-sections5 25 mm²• for adding condacts <td>— forwards</td> <td></td>	— forwards				
alt he side0 mm•- for grounded parts10 mm upwards10 mm upwards10 mm alt he side6 mm downwards10 mm for live parts10 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards0 mm downwards5 mm downwards10 mm downwards5 mm downwards2 x (1 25 mm <sup>2</sup> ), 2x (2 5 10 mm <sup>2</sup> ) solid2 x (1 25 mm <sup>2</sup> ), 2x (2 5 10 mm <sup>2</sup> ) endit or stranded1 10 mm <sup>2</sup> for auxiliary contacts2 x (1 25 mm <sup>2</sup> ), 2x (2 5 10 mm <sup>2</sup> ) solid1 10 mm <sup>2</sup> for auxiliary contacts2 x (0 25 mm <sup>2</sup> ), 2x (2 5 25 mm <sup>2</sup> ) for auxiliary contacts2 x (0 25 mm <sup>3</sup> ) for auxiliary contacts2 x (0 15 mm <sup>3</sup> ), 2					
• for grounded parts10 mm forwards10 mm growards10 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm upwards10 mm upwards10 mm upwards10 mm downwards10 mm dot the side6 mmConnectional / Terminals5 mmConnectional / Terminals5 mm• for main current circuitscrew-type terminals• for main contract for auxiliary and control circuitscrew-type terminals• of main contacts5 corew-type terminals• of main contacts2 x (1 25 mm²), 2x (2.5 10 mm²)- solid2 x (1 25 mm²), 2x (2.5 10 mm²)- main contacts2 x (1 25 mm²), 2x (2.5 10 mm²)- solid or stranded2 x (1 25 mm²), 2x (2.5 10 mm²)• for AWG cables for main contacts2 x (16 12), 2x (14 8)connectable conductor cross-section for auxiliary contacts2 mm²• for auxiliary contacts2 x (16 12), 2x (14 8)connectable conductor cross-section for auxiliary contacts2 mm²• for auxiliary contacts2 x (0.5 15 mm²), 2x (0.75 25 mm²)• for auxiliary contacts2 x (0.5 15 mm²), 2x (0.75 25 mm²)• for auxiliary contacts </td <td></td> <td></td>					
- forwards     10 mm       upwards     0 mm       upwards     0 mm       downwards     10 mm       forwards     10 mm       forwards     10 mm       forwards     10 mm       forwards     10 mm       downwards     0 mm       downwards     0 mm       downwards     0 mm       downwards     10 mm       downwards     10 mm       downwards     10 mm       downwards     5 mm       downwards     2 k (1 2.5 mm <sup>2</sup> ), 2 k (2.5 10 mm <sup>2</sup> olid     1 10 mm <sup>2</sup> <td></td> <td>0 mm</td>		0 mm			
downwards10 mm• for live parts forwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards10 mm at the side6 mmConnectority Terminalsscrew-type terminals• for auxiliary and control circuitscrew-type terminals• for auxiliary contactsScrew-type terminals• for main current circuitscrew-type terminals• of magnet coilScrew-type terminals• of auxiliary contactsScrew-type terminals• of auxiliary contactsScr	— upwards				
• for live partsImage: constraint of the stand of the stan					
forwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections? Terminalstype of electrical connection• for auxiliary and control circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of main contactsScrew-type terminals• for main contactsScrew-type terminals• for auxiliary contactsScrew-type terminals• for main contactsScrew-type terminals• for add contacts2x (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)• for AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded1 10 mm²• for AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• of rauxiliary contacts2x (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)• 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)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for		10 mm			
upwards10 mm downwards0 mm at the side6 mmConnectionSTerminalstype of electrical connection• for axiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of main current circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet collScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• of main contacts- solid- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid or stranded1 10 mm²• solid or stranded1 10 mm²• solid or stranded1 10 mm²• for AWG cables for main contacts- solid• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• for awillary contacts- solid or stranded• solid or stranded0.5 2.5 mm²• for awillary contacts- solid or stranded• solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for awillary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for awillary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for awillary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) <tr< td=""><td></td><td></td></tr<>					
downwards     10 mm       at the side     6 mm       Connections/Terminals     screw-type 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 coll     Screw-type terminals       • of magnet coll     Screw-type terminals       • of main contacts     Screw-type terminals       • of or main contacts     Screw-type terminals       • of or stranded     Screw-type terminals       • of or main contacts     Screw-type terminals       • of or stranded with core end processing     2x (1 25 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       - solid or stranded with core end processing     2x (1 25 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • for AWG cables for main contacts     2x (1 25 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • solid or stranded     1 10 mm <sup>2</sup> • finely stranded with core end processing     1 10 mm <sup>2</sup> • solid or stranded     0.5 2.5 mm <sup>2</sup> • solid or stranded     0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing     0.5 2.5 mm <sup>2</sup> • for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )       • for auxiliary contacts     2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )					
at the side     6 mm       Connections       type of electrical connection     screw-type terminals       • for auxiliary and control circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of magnet coll     Screw-type terminals       • of on 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 6 m²), 1x 10 mm²       - solid or stranded     2x (1 12.5 mm²), 2x (2.5 6 m²), 1x 10 mm²       • for AWG cables for main contacts     2x (1 10 mm²       • solid     1 10 mm²       • solid or stranded     1 10 mm²       • finely stranded with core end processing     1 10 mm²       • finely stranded with core end processing     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)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for AWG cables for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 m					
Connections/ Terminals         type of electrical connection         • for main current 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       Screw-type terminals         • for main contacts       Screw-type terminals         • for main contacts       Screw-type terminals         • for anin contacts       Screw-type terminals         • for anin contacts       Screw-type terminals         • for anin contacts       Screw-type terminals         • for all conductor cross-sections       Screw-type terminals         • for AWG cables for main contacts       Screw-type terminals         • stranded       1 10 mm²         • finely stranded with core end processing       1 10 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       Screw-type terminals         • fo					
type of electrical connection       sorew-type terminals         • for main current circuit       sorew-type terminals         • at contactor for auxiliary and control circuit       sorew-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       - solid         - solid stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid       1 10 mm²         • solid       1 10 mm²         • finely stranded with core end processing       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • for auxiliary contacts       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)         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2		6 mm			
• 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-sections       •         • for main contacts       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)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • ofor AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • onnectable conductor cross-section for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid       1 10 mm²         • stranded       1 10 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)         • for dwG cables for auxiliary contacts       2x (20 16), 2x (18 14) <td></td> <td></td>					
• 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       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid       1 10 mm²         • solid       1 10 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)         • for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       2x (20 1					
• at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       •         • for main contacts       -         - solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid       1 10 mm²         • solid       1 10 mm²         • solid       1 10 mm²         • solid or stranded       1 10 mm²         • stranded with core end processing       1 10 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       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)         • for auxiliary contacts       2x (20 16), 2x (18 14)					
• of magnet coil       Screw-type terminals         type of connectable conductor cross-sections       •         • for main contacts       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 10 mm²)         - finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • for AWG cables for main contacts       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • solid or stranded with core end processing       1 10 mm²         • solid or stranded with core end processing       1 10 mm²         • solid or stranded with core end processing       0.5 2.5 mm²         • solid or stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       - solid or stranded         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       - finely stranded with core end processing         • for main contacts       16 8 <t< td=""><td></td><td></td></t<>					
type of connectable conductor cross-sections• for 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 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts• solid1 10 mm²• solid• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts- solid or stranded2x (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 processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded2x (0.5 1.5 mm²), 2x (18 14)AWG number as coded connectable conductor crosssection• for main contacts• for main contacts16 8• for auxiliary contacts20 14	-				
<ul> <li>for main contacts         <ul> <li>solid</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>solid or stranded</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>for AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>for AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>for AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>for AWG cables for main contacts</li> <li>a for AWG cables for main contacts</li> <li>a for AWG cables for main contacts</li> <li>a for auxiliary contacts</li> <li>a finely stranded with core end processing</li> <li>1 10 mm²</li> <li>a finely stranded with core end processing</li> <li>a finely stranded</li>             &lt;</ul></li></ul>		Screw-type terminals			
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 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 12, 2x (14 8)connectable conductor cross-section for main contacts• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (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 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 processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section2x (20 16), 2x (18 14)• for main contacts16 8• for auxiliary contacts20 14					
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 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 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 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)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14		$2x(1 - 25 mm^2) - 2x(2 - 5 - 10 mm^2)$			
finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• for AWG cables for main contacts2x (16 12), 2x (14 8)• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 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)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14					
• for AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 10 mm²         • solid       1 10 mm²         • stranded       1 10 mm²         • finely stranded with core end processing       1 10 mm²         connectable 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         • for auxiliary contacts       - solid or stranded         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       16 8         • for main contacts       16 8         • for auxiliary contacts       20 14					
connectable conductor cross-section for main contacts 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts- solid or stranded- solid or stranded2x (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)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for auxiliary contacts16 8• for auxiliary contacts20 14					
• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts 10 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts 10 mm²- solid or stranded2x (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 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 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 processing2x (0.5 1.6 m²), 2x (0.75 2.5 mm²)- for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14					
• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²type of connectable conductor cross-sections0.5 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 AWG cables for auxiliary contacts2x (20 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14		1 10 mm²			
• finely stranded with core end processing       1 10 mm²         connectable 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         • for auxiliary contacts       2.5 mm²         - 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)         - for AWG cables for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       16 8         • for main contacts       16 8         • for auxiliary contacts       20 14					
connectable 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         • 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)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       16 8         • for main contacts       16 8         • for auxiliary contacts       20 14					
• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²type of connectable conductor cross-sections0.5 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)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14					
<ul> <li>finely stranded with core end processing</li> <li>of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>a for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>a for auxiliary contacts</li> <li>16 8</li> <li>a for auxiliary contacts</li> <li>20 14</li> </ul>	-	0.5 2.5 mm²			
type of connectable conductor cross-sections         • for auxiliary contacts         solid or stranded         finely stranded with core end processing         • for AWG cables for auxiliary contacts         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts         2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section         • for main contacts       16 8         • for auxiliary contacts       20 14					
<ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>					
solid or stranded2x (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)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14					
— finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       16 8         • for main contacts       16 8         • for auxiliary contacts       20 14	-	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
• for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section	— finely stranded with core end processing				
AWG number as coded connectable conductor cross section					
• for auxiliary contacts 20 14	AWG number as coded connectable conductor cross				
•	for main contacts	16 8			
Safety related data	for auxiliary contacts	20 14			
	Safety related data				

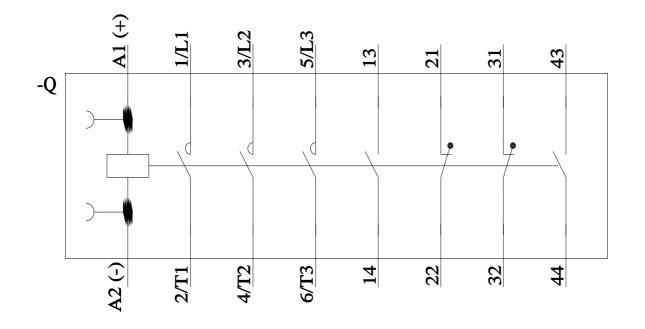
proportion of danger	ous failures					
<ul> <li>with low demand</li> </ul>	d rate according to SN 319	20	40 %			
<ul> <li>with high deman</li> </ul>	nd rate according to SN 31	920	73 %			
failure rate [FIT] with low demand rate according to SN 31920			100 FIT			
B10 value with high d	lemand rate according to	SN 31920	450 000			
product function pos IEC 60947-5-1	itively driven operation a	according to	No			
product function mirr	ror contact according to	IEC 60947-4-1	Yes			
suitability for use safety	y-related switching OFF		Yes; applies only to contactor of	perating mechanism		
IEC 61508						
T1 value for proof tes IEC 61508	t interval or service life a	according to	20 a			
Electrical Safety						
protection class IP or	n the front according to I	EC 60529	IP20			
touch protection on t	he front according to IEC	60529	finger-safe, for vertical contact	from the front		
pprovals Certificates						
General Product App	oroval					
(SP)	CE EG-Konf.	UK CA	<u>Confirmation</u>			
General Product App	proval	EMV	Test Certificates		Marine / Shipping	
KO		•	On a sint Tarat Oratifia	Time Test Ostifie	-	
KC	EHC	RCM	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific:</u> <u>ates/Test Report</u>	ABS	
Marine / Shipping					other	
BUREAU		Lloyd's Register uis	RINA	KMRS	<u>Miscellaneous</u>	
other	Dangerous Good	Environment				
Confirmation	Transport Information	EPD Typ II/III (wit cylce assessme				
Further information						
	I to exit the Russian mar	ket (see here).				
https://press.siemens.cc Siemens is working of Please contact your loo EAC relevant market (of Information on the pa https://support.industry	com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned b	e/siemens-wind-dow rent EAC certificat status of validity of the EAEU member state lew/109813875	es. he EAC certification if you intend	I to import or offer to sup	ply these products to an	
https://www.siemens.co		-				
Industry Mall (Online https://mall.industry.sie	ordering system) mens.com/mall/en/en/Cat	alog/product?mlfb=:	3RT2028-1BB44-3MA0			
Cax online generator						
the second se	on.siemens.com/WW/CAX inuals, Certificates, Char		lang=en&mlfb=3RT2028-1BB44	<u>-3MA0</u>		
https://support.industry Image database (proc http://www.automation. Characteristic: Trippi	siemens.com/cs/ww/en/p duct images, 2D dimension siemens.com/bilddb/cax_c ng characteristics, I <sup>2</sup> t, Le	s/3RT2028-1BB44- on drawings, 3D m de.aspx?mlfb=3RT2 at-through current	3 <u>MA0</u> odels, device circuit diagrams 2028-1BB44-3MA0⟨=en	s, EPLAN macros,)		
	v.siemens.com/cs/ww/en/p					
<u>rurther characteristic</u>	<u>cs (e.g. electrical endura</u>	ice, switching free	<u>luericy)</u>			
3RT20281BB443MA	AO		12/24/2023	Subject to o	change without notice	











last modified:

12/20/2023 🖸