## SIEMENS

## Data sheet

## 3RT2018-2AD02



Power contactor, AC-3 16 A, 7.5 kW / 400 V 1 NC, 42 V AC, 50/60 Hz 3-pole, Size S00 Spring-type terminals

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S00		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current at AC in hot operating state	6.6 W		
per pole	2.2 W		
power loss [W] for rated value of the current without load current share typical	5.7 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	7,3g / 5 ms, 4,7g / 10 ms		
shock resistance with sine pulse			
• at AC	11,4g / 5 ms, 7,3g / 10 ms		
mechanical service life (switching cycles)			
<ul> <li>of contactor typical</li> </ul>	30 000 000		
<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)	01.10.2009 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		
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C		
Main circuit			
number of poles for main current circuit	3		
number of NO contacts for main contacts	3		
operating voltage at AC-3 rated value maximum	690 V		

operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	22 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 $^\circ \mathrm{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	11.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> </ul>	13.2 A
— up to 230 V for current peak value n=20 rated value	9.6 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	8.9 A
— up to 230 V for current peak value n=30 rated value	6.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	6.4 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6.4 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
	20 A
— at 24 V rated value	2071
— at 24 V rated value — at 110 V rated value	20 A
— at 110 V rated value	20 A
— at 110 V rated value — at 220 V rated value	20 A 20 A
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> </ul>	20 A 20 A 1.3 A
<ul> <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>	20 A 20 A 1.3 A

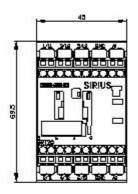
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2.5 kW
• at 690 V rated value	3.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	3.8 kV·A
• up to 400 V for current peak value n=20 rated value	6.6 kV·A
• up to 500 V for current peak value n=20 rated value	8.3 kV·A
• up to 690 V for current peak value n=20 rated value	10.6 kV·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	2.5 kV·A
• up to 400 V for current peak value n=30 rated value	4.4 kV·A
• up to 500 V for current peak value n=30 rated value	5.5 kV·A
• up to 690 V for current peak value n=30 rated value	7.6 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>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	····,
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
	40
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz rated value	42 V
at 60 Hz rated value	42 V 42 V
• at 60 H2 fated value operating range factor control supply voltage rated	72 V
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	37 V·A
• at 60 Hz	33 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75

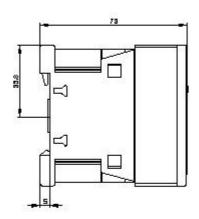
apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 V·A
• at 60 Hz	4.4 V·A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	8 33 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1A
<ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	0.9 A 0.3 A
	0.1 A
at 600 V rated value     contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	14 A
at 600 V rated value	14 A 11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 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 coordination 1 required	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
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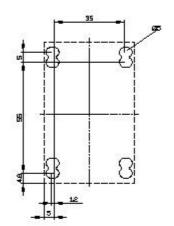
## • for short-circuit protection of the auxiliary switch required

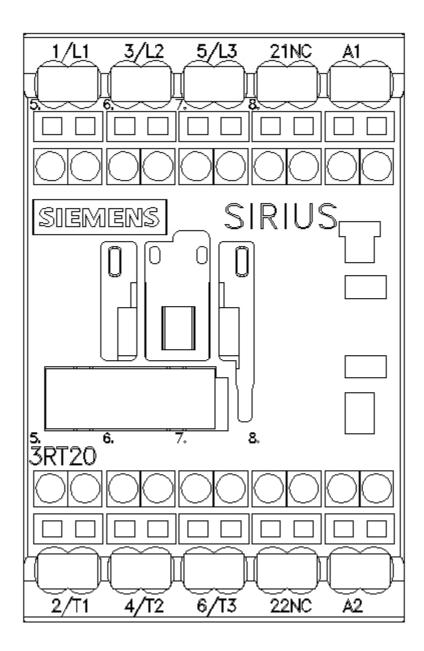
mounting position         +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715           • side-by-side mounting         Yes           height         70 mm           width         45 mm           depth         73 mm           required spacing         In mm           • with side-by-side mounting         0 mm           - forwards         10 mm           - upwards         10 mm           - downwards         0 mm           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - forwards         10 mm           - downwards         10 mm           - forwards         10 mm           - downwards <th1< th=""><th>Installation/ mounting/ dimensions</th><th></th></th1<>	Installation/ mounting/ dimensions				
Invariant and backward by 4-22.5° on vertical mounting surface           sected and snape on mounting onto 35 mm standard mounting rail according to INL EN 80715           height         70 mm           height         70 mm           depth         70 mm           depth <th70 mm<="" th=""></th70>		+/-180° rotation possible on vertical mounting surface; can be tilted			
• side byside mounting         Yes           height         70 mm           width         45 mm           deptn         73 mm           required spacing         73 mm           • with side-byside mounting         -           - forwards         10 mm           - upwards         10 mm           - downwards		forward and backward by +/- 22.5° on vertical mounting surface			
height       70 mm         width       45 mm         depth       73 mm         required spacing       -         • with side-by-side mounting       -         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards </td <td>fastening method</td> <td colspan="4">screw and snap-on mounting onto 35 mm standard mounting rail</td>	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail			
width         45 mm           depth         73 mm           required spacing         73 mm           • with side-by-side mounting         10 mm           - upwards         10 mm           - upwards         10 mm           - dornwards         10 mm           - formain current circuit         spring-loaded terminals           is or main current circuit         spring-loaded terminals           is or main contacts         2x (0.5 4 mm <sup>2</sup> )           - solid	<ul> <li>side-by-side mounting</li> </ul>	Yes			
depth         73 mm           required spacing         *           • with side-by-side mounting         -           - forwards         10 mm           - upwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm           - at the side         6 mm           Spring-loaded terminals         spring-loaded terminals           for main curiet cicuit         spring-loaded terminals     <	height	70 mm			
required spacing         • (with side-by-side mounting         - (govards         - upwards         - upwards         - downwards         - downwards         - at the side         0 mm         - downwards         - downwards         - downwards         - downwards         - downwards         - downwards         10 mm         - downwards         - downwards         10 mm         - downwards         10 man current circuit         spring-loaded terminals         of analizy and control circuit         spring-loaded terminals         of analizy and control circuit         spring-loaded terminals         spring-loaded terminals <t< td=""><td>width</td><td>45 mm</td></t<>	width	45 mm			
• with side-by-side mounting·- forwards10 mm- downwards10 mm- downwards00 mm- downwards10 mm- downwards10 mm- foryards10 mm- forwards10 mm- upwards0 mm- downwards10 mm- downwards5 mreinals- downwardsspring-boaled terminals- for auxiliary contactsSpring-byae terminals<	depth	73 mm			
- forwards10 mm- upwards10 mm- downwards0 mm- at the side0 mm- at the side0 mm- forwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards0 mm- downwards0 mm- downwards10 mm- downwards10 mm- at the side6 mm- otrouctions5 mins-loaded terminals- downwards5 mins-loaded terminals- downwards5 mins-loaded terminals- otrouction5 mins-loaded terminals- otrouction5 mins-loaded terminals- otrouctable conductor cross-sections2 x (0 5 2 mm <sup>2</sup> )- solid2 x (0 5 2 mm <sup>2</sup> )- solid or stranded2 x (0 5 2 mm <sup>2</sup> )- inely stranded with core end processing2 x (0 5 2 5 mm <sup>2</sup> )- inely stranded without core end processing0 5 4 mm <sup>2</sup> - inely stranded without core end processing0 5 4 mm <sup>2</sup> - inely stranded without core end processing0 5 4 mm <sup>2</sup> - inely stranded without core end processing0 5 2 5 mm <sup>2</sup> - inely stranded without core end processing0 5 2 mm <sup>2</sup> - inely stranded without core end processing <td< td=""><td>required spacing</td><td></td></td<>	required spacing				
	<ul> <li>with side-by-side mounting</li> </ul>				
downwards10 mma the side0 mmbrowards10 mmbrowards10 mmbrowards10 mmdownwards10 mmdownwards0 mmdownwards0 mmdownwards0 mma the side6 mma the side6 mma the side5 pring-loaded terminalsa the side5 pring-loaded terminals	— forwards	10 mm			
at the side0 mm forwards10 mm upwards10 mm at the side6 mm at the side6 mm at the side6 mm downwards10 mm forwards10 mm forwards10 mm upwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards10 mm downwards50 mm downwards90 mm dowdo tor downeds2x (0.5 4 mm <sup>3</sup> ) <td>— upwards</td> <td>10 mm</td>	— upwards	10 mm			
• for grounded partsImage: constraint of the state of the	— downwards	10 mm			
-forwards10 mm-upwards00 mm-downwards10 mm-downwards10 mm-forwards10 mm-ior vards10 mm-upwards10 mm-upwards10 mm-upwards00 mm-at the side6 mmConnections: TerminalsConnections: TerminalsConnections: TerminalsSpring-loaded terminalsof or axiliary contactsSpring-loaded terminalsof or axiliary contactsSpring-lype terminalsof or axiliary contactsSpring-lype terminalsof main current circuitspring-lype terminalsof a watiliary contactsSpring-lype terminalsof magnet coll2x (0.5 4 mm²)-solid2x (0.5 4 mm²)-solid or stranded2x (0.5 4 mm²)-solid or stranded2x (0.5 4 mm²)-solid or tor create processing2x (0.5 25 mm²)-solid0.5 4 mm²-solid0.5 4 mm²-solid or stranded0.5 4 mm²-solid or stranded <td< td=""><td>— at the side</td><td>0 mm</td></td<>	— at the side	0 mm			
	<ul> <li>for grounded parts</li> </ul>				
- a the side6 mm- downwards10 mm• for live parts10 mm- upwards10 mm- upwards10 mm- downwards0 mm- a the side6 mmConnections/ Terminals6 mmConnections/ Terminalsspring-loaded terminalsof or and no current circuitspring-loaded terminalsof or adin contactsSpring-type terminalsof main contactsSpring-type terminalsof main contactsSpring-type terminals- solid2x (0 5 4 mm²)- solid or stranded2x (0 5 4 mm²)- solid or stranded with core end processing2x (0 5 2 5 mm²)- finely stranded with core end processing0 5 2 5 mm²)• solid0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2 5 mm²• solid or stranded0.5 4 mm²• solid or stranded0.5 2 mm²• solid or stranded0.5 2 mm²• solid or stranded0.5 2 mm²• finely stranded with core end processing0.5	— forwards	10 mm			
- downwards10 nm• for live parts forwards10 nm- upwards10 nm- downwards10 nm- downwards10 nm- dthe side6 mmconnections/ Terminalsspring-loaded terminalsspring-loaded terminalsspring-loaded terminalsspring-loaded terminalsspring-loaded terminalsof rauxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of main contactsSpring-type terminals• for main contacts2x (0 5 4 mm <sup>2</sup> )- solid or stranded2x (0 5 4 mm <sup>2</sup> )- finely stranded without core end processing2x (0 5 2 5 mm <sup>2</sup> )• ald LOG colsples for main contacts2x (0 5 4 mm <sup>2</sup> )• solid0.5 2 5 mm <sup>2</sup> )• finely stranded with core end processing0 5 2 5 mm <sup>2</sup> )• solid or stranded0.5 4 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • solid or stranded0.5 4 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • solid or stranded0.5 4 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • finely stranded with core end processing0 5 2 5 mm <sup>2</sup> • finely stranded with core end pr	— upwards	10 mm			
<ul> <li>for live parts         <ul> <li>forwards</li> <li>forwards</li> <li>domm</li> <li>upwards</li> <li>domm</li> <li>upwards</li> <li>domm</li> <li>downwards</li> <li>domm</li> <li>downwards</li> <li>domm</li> <li>downwards</li> <li>domm</li> <li>downwards</li> <li>for any the side</li> </ul> </li> <li>Spring-loaded terminals</li> <li>spring-loaded terminals</li></ul>	— at the side	6 mm			
forwards10 mm upwards10 mm downwards00 mm downwards0 mm downwards6 mmConnections/ Terminalsspring-loaded terminals• for nain current circuitspring-loaded terminals• for nain current circuitspring-loaded terminals• for nain current circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of mane contactsSpring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0,5 4 mm²)- solid2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 2,5 mm²)• at AWG cables for main contacts2x (0,5 2,5 mm²)• solid0.5 4 mm²• finely stranded with core end processing0.5 2,5 mm²• solid0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2,5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2,5 mm²• finely stranded with core end processing0.5 2,5 mm²• for auxiliary contacts2 2,5 mm²• finely stranded with core end processing0.5 2,5 mm²• for auxiliary contacts2 2,5 mm²• finely stranded with core end p		10 mm			
upwards10 mm downwards10 mm at the side6 mmConnections/ Terminals• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminals• of main contactsSpring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at AWG cables for main contacts2x (20 12)• solid0.5 4 mm²• solid0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing2x (20 12)• solid0.5 4 mm²• solid0.5 4 mm²• solid or stranded0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core e	<ul> <li>for live parts</li> </ul>				
- downwards10 mm- a the side6 mmconnections/ terminalstype of electrical connection• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• of magnet coilSpring-type terminals• for main contactsSpring-type terminals• for main contacts2x (0.5 4 mm²)- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• a KUG cables for main contacts2x (20 12)connectable conductor cross-section for main contacts• stranded0.5 4 mm²• stranded0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing 2.5 mm²• for auxiliary contacts 2.5 mm²• a	— forwards	10 mm			
at the side       6 mm         connections/ Terminals         • for main current circuit       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • at contactor for auxiliary contacts       Spring-type terminals         • of magnet coil       Spring-type terminals         • for main contacts       - solid         - solid or stranded       2x (0.5 4 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts         • solid       0.5 4 mm²)         • at AWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts         • solid       0.5 4 mm²         • finely 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         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded	— upwards	10 mm			
Connections/ Terminals           type of electrical connection           • for main current circuit           • for auxiliary and control circuit           • for auxiliary and control circuit           • of magnet coil           • of stranded           - solid           - solid or stranded           - minely stranded without core end processing           - finely stranded without core end processing           • at AWG cables for main contacts           • solid           • solid           • stranded           • solid           • finely stranded with core end processing           • finely stranded without core end processing           • finely stranded without core end processing	— downwards	10 mm			
type of electrical connection       • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • at contactor for auxiliary contacts       Spring-type terminals         • of magnet coll       Spring-type terminals         type of connectable conductor cross-sections       • for main contacts         - solid       2x (0.5 4 mm²)         - solid or stranded       2x (0.5 2.5 mm²)         - finely stranded with core end processing       2x (0.5 2.5 mm²)         - tatAWG cables for main contacts       2x (20 12)         connectable conductor cross-section for main contacts       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 4 mm²         • solid       0.5 2.5 mm²         • solid       0.5 4 mm²         • solid       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       0.5 2.5 mm²         • for auxiliary contacts       2x (0.5 2.5 mm²)         • for auxiliary contacts </td <td>— at the side</td> <td>6 mm</td>	— at the side	6 mm			
• for main current circuitspring-loaded terminals• for auxillary and control circuitspring-loaded terminals• at contactor for auxillary contactsSpring-type terminals• of magnet coilSpring-type terminalstype of connectable conductor cross-sectionsFor main contacts• of main contactsSpring-type terminals- solid or stranded2x (0.5 4 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)• at XWG cables for main contacts2x (20 12)• solid0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 4 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 2.	Connections/ Terminals				
• for auxiliary and control circuit         spring-loaded terminals           • at contactor for auxiliary contacts         Spring-type terminals           • of magnet coil         Spring-type terminals           type of connectable conductor cross-sections         -           • for main contacts         -           - solid         2x (0.5 4 mm²)           - solid or stranded         2x (0.5 4 mm²)           - finely stranded with core end processing         2x (0.5 2.5 mm²)           • at AWG cables for main contacts         2x (20 12)           connectable conductor cross-section for main contacts         2x (20 12)           connectable conductor cross-section for main contacts         0.5 4 mm²           • solid         0.5 4 mm²           • solid         0.5 4 mm²           • stranded         0.5 4 mm²           • solid         0.5 4 mm²           • stranded         0.5 4 mm²           • finely stranded with core end processing         0.5 4 mm²           • finely stranded with core end processing         0.5 2.5 mm²           • solid or stranded         0.5 4 mm²           • finely stranded with core end processing         0.5 2.5 mm²           • finely stranded with core end processing         0.5 2.5 mm²	type of electrical connection				
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contacts		2x (20 12)			
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— finely stranded with core end processing       2x (0.5 2.5 mm²)         — finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)         • AWG number as coded connectable conductor       20 12	<ul> <li>for auxiliary contacts</li> </ul>				
finely stranded without core end processing       2x (0.5 2.5 mm²)         • at AWG cables for auxiliary contacts       2x (20 12)         • AWG number as coded connectable conductor       20 12	— solid or stranded	2x (0,5 4 mm²)			
• at AWG cables for auxiliary contacts 2x (20 12)     • AWG number as coded connectable conductor 20 12	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm <sup>2</sup> )			
AWG number as coded connectable conductor     20 12	- finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )			
	<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 12)			
	AWG number as coded connectable conductor	20 12			

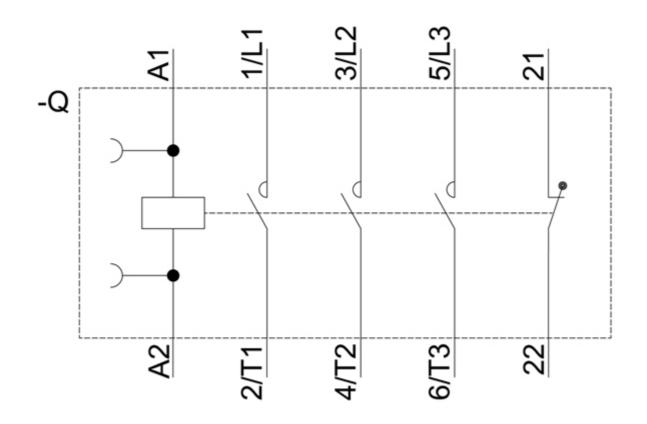
<ul> <li>AWG number as cross section for a</li> </ul>	coded connectable o	conductor	20 12				
Safety related data							
B10 value with high de	mand rate acc. to SN	31920	1 000 00	0			
proportion of danger							
	rate acc. to SN 3192	20	40 %	40 %			
	d rate acc. to SN 319		73 %				
failure rate [FIT] with lo			100 FIT				
product function							
<ul> <li>mirror contact ac</li> </ul>	c. to IEC 60947-4-1		Yes				
T1 value for proof tes IEC 61508	t interval or service	life acc. to	20 y				
protection class IP or	n the front acc. to IE	C 60529	IP20				
touch protection on t	he front acc. to IEC	60529	finger-sa	ife, for vertical cor	ntact from the front		
suitability for use safety	y-related switching Ol	FF	Yes				
Certificates/ approvals							
General Product App	oroval					EMC	
SP.	CCC			<u>KC</u>	EAC	RCM	
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