SIEMENS

Data sheet

3RT2015-2AN21



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00,

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	4.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	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 AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code 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	
 during operation 	-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 %
Main circuit	
number of poles for main current circuit	3

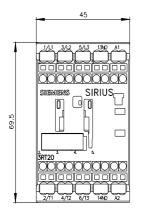
number of NO contacts for main contacts	3
operating voltage	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	18 A
value	
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A
— up to 400 V for current peak value n=20 rated value	4 A
— up to 500 V for current peak value n=20 rated value	3.8 A
— up to 690 V for current peak value n=20 rated value	3.6 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	2.7 A
 — up to 400 V for current peak value n=30 rated value 	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	2.5 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
 at 1 current path at DC-3 at DC-5 	

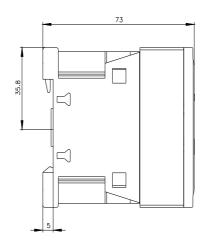
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
— at 110 V rated value	0.1 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
at AC-2 at 400 V rated value	3 kW
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	
	1 5 KM
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
	1 kVA
up to 230 V for current peak value n=30 rated value	
up to 400 V for current peak value n=30 rated value	1.8 kVA
• up to 500 V for current peak value n=30 rated value	2.2 kVA
up to 690 V for current peak value n=30 rated value	2.9 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 0.5 switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum 	43 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-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
at 60 Hz rated value	220 V
operating range factor control supply voltage rated value of	
magnet coil at AC	

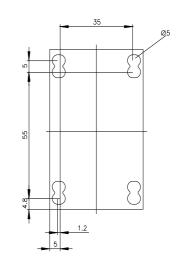
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 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 NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
 at 110 V rated value 	3 A
• at 125 V rated value	2 A
 at 220 V rated value 	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.05 hz
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
for 3-phase AC motor at 200/200 V steed value	4.5 hz
- at 200/208 V rated value	1.5 hp
- at 220/230 V rated value	2 hp
- at 460/480 V rated value	3 hp
- at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	

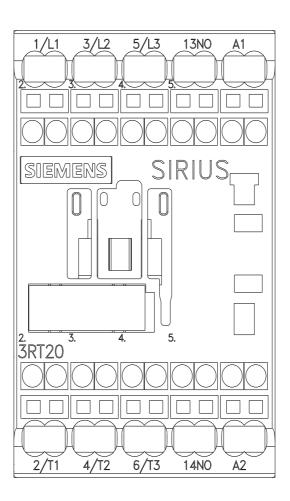
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http://www.communities.communit		• • • • • • • • • • • •
membra position +100" rotation possitie on vertical mounting surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage surface; can be tilled forward and become and manage on mounting onto 25 mm DIN rail according to DIN EN 60715 store hyside mounting Yes height Yes width 45 mm doth 7 mm required spacing 7 mm - upwards 10 mm - dorwards 10 mm - dorwards 10 mm - dorwards 10 mm - dorwards 10 mm - upwards 10 mm - dorwards 10 mm		99. 10 A (500 V, 1 KA)
Index Dackward by <i>i</i> ,		+/-180° rotation possible on vertical mounting surface: can be tilted forward and
side-by-side mountingYesheight70 mmwidth45 mddepth71 mdrequired spacing71 md	mounting position	
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deph 78 m required spacing - - forwards 10 mm - upwards 10 mm - dowmards	height	70 mm
redured specing - • with side byside mounting - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - upwards 0 mm - downwards 10 mm - at the side	width	45 mm
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	— upwards	10 mm
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• of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts 2x (0.5 4 mm ³) • solid 2x (0.5 4 mm ³) • solid or stranded with core end processing 2x (0.5 2.5 mm ³) • finely stranded with core end processing 2x (0.5 2.5 mm ³) • solid 0.5 4 mm ³ • solid 0.5 4 mm ³ • solid 0.5 4 mm ³ • stranded with core end processing 0.5 4 mm ³ • finely stranded with core end processing 0.5 4 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded without core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • finely stranded with core end processing 2x (0.5 4 mm ³) • finely stranded with core end processing 2x (0.5 4 mm ³) • finely stranded with core end processing <td< td=""><td> for auxiliary and control circuit </td><td>spring-loaded terminals</td></td<>	 for auxiliary and control circuit 	spring-loaded terminals
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2x (0.5 4 mm²)• solid or stranded2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• connectable conductor cross-section for main contacts5 4 mm²• solid0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• 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• solid or stranded0.5 4 mm²• solid or stranded with core end processing0.5 2,5 mm²• solid or stranded with core end processing0.5 4 mm²• solid or stranded with core end processing0.5 4 mm²• finely stranded with core end processing0.5 4 mm²• finely stranded with core end processing0.5 4 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 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• finely stranded with core end processing2x (20,5 2,5 mm²)• finely stranded with core end processing2x (20,5 2,5 mm²)	 of magnet coil 	Spring-type terminals
• solid or stranded2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 2,5 mm²)• finely stranded without core end processing0x (0,5 2,5 mm²)• solid0.5 4 mm²• solid0.5 4 mm²• 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• 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 4 mm²)• for auxiliary contacts2x (0,5 4 mm²)• or auxiliary contacts2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end p	type of connectable conductor cross-sections for main contacts	
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• finely stranded without core end processing2x (0.5 2.5 mm²)connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 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• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing2.x (0.5 4 mm²)• finely stranded with core end processing2.x (0.5 2.5 mm²)• finely stranded with core end processing2.x (0.5 2.5 mm²)• finely stranded without core end processing2.x (0.5 2.5 mm²)• for auxiliary contacts2.x (0.5 2.5 mm²)• for walk connectable conductor cross2.x (0.5 2.5 mm²)• for main contacts20 12• for main contacts20 12• for main contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12	 solid or stranded 	2x (0,5 4 mm²)
connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2.5 mm²• for auxiliary contacts2.5 mm²• for auxiliary contacts2.5 mm²- solid or stranded2x (0.5 4 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)• for auxiliary contacts2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for main contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• solid or 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 processing0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)• for auxiliary contacts2x (0,5 4 mm²)• for auxiliary contacts2x (0,5 2.5 mm²)• finely stranded with core end processing2x (0,5 2.5 mm²)• for auxiliary contacts2x (0,5 2.5 mm²)• for auxiliary contacts2x (0,5 2.5 mm²)• for AWG cables for auxiliary contacts2x (0,5 2.5 mm²)• for AWG cables for auxiliary contacts2x (0,5 2.5 mm²)• for main contacts20 12• for main contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• solid or 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 without core end processing0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 4 mm²)• finely stranded with core end processing2x (0,5 2.5 mm²)• finely stranded with core end processing2x (0,5 2.5 mm²)• finely stranded with core end processing2x (0,5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 2.5 mm²)• for main contacts20 12• for main contacts20 12• for auxiliary contacts20 12• for auxiliary contacts20 12		
• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• solid or stranded0.5 4 mm²• solid or 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 without core end processing0.5 2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)• for auxiliary contacts2x (0,5 4 mm²)• for auxiliary contacts2x (0,5 2.5 mm²)• finely stranded with core end processing2x (0,5 2.5 mm²)• for auxiliary contacts2x (0,5 2.5 mm²)• for AWG cables for auxiliary contacts2x (0.5 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for main contacts • for auxiliary contacts20 12• for auxiliary contacts20 12• addet data	• solid	0.5 4 mm²
• finely stranded without core end processing0.5 2.5 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 without core end processing0.5 2.5 mm²• type of connectable conductor cross-sections2.5 mm²• for auxiliary contacts2x (0,5 4 mm²)- solid or stranded2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded with core end processing2x (0.5 2.5 mm²)- finely stranded without core end processing2x (0.5 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 12)AWG number as coded connectable conductor cross section20 12• for main contacts20 12• for auxiliary contacts20 12	stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts 0.5 4 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded without core end processing 0.5 2.5 mm² type of connectable conductor cross-sections 0.5 2.5 mm² • for auxiliary contacts 2x (0,5 4 mm²) - solid or stranded 2x (0,5 4 mm²) - finely stranded with core end processing 2x (0,5 4 mm²) - finely stranded with core end processing 2x (0,5 2.5 mm²) - finely stranded with core end processing 2x (0,5 2.5 mm²) - finely stranded without core end processing 2x (20 12) AWG number as coded connectable conductor cross section 2x (20 12) AWG number as coded connectable conductor cross section 20 12 • for auxiliary contacts 20 12 section 20 12	 finely stranded with core end processing 	0.5 2.5 mm ²
• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections-• for auxiliary contacts solid or stranded2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 2.5 mm²)- finely stranded with core end processing2x (0,5 2.5 mm²)- finely stranded with core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- for AWG cables for auxiliary contacts20 12)AWG number as coded connectable conductor cross section20 12. for auxiliary contacts20 12. of or auxiliary contacts20 12	 finely stranded without core end processing 	0.5 2.5 mm ²
• finely stranded with core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²type of connectable conductor cross-sections•• for auxiliary contacts2x (0,5 4 mm²)- solid or stranded2x (0,5 4 mm²)- finely stranded with core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (0,5 2.5 mm²)- finely stranded without core end processing2x (20 12)• for AWG cables for auxiliary contacts20 12• for main contacts20 12• for auxiliary contacts20 12	connectable conductor cross-section for auxiliary contacts	
finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing	solid or stranded	0.5 4 mm²
finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing	 finely stranded with core end processing 	
type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0,5 4 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded without core end processing 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section 20 12 • for main contacts 20 12 Safety related data 20 12		0.5 2.5 mm²
 for auxiliary contacts solid or stranded solid or stranded finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts for main contacts for auxiliary contacts 20 12 		
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finely stranded without core end processing 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section 20 12 • for main contacts 20 12 • for auxiliary contacts 20 12 • for auxiliary contacts 20 12	 — finely stranded with core end processing 	2x (0.5 2.5 mm²)
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for main contacts 20 12 for auxiliary contacts 20 12 Safety related data	•	
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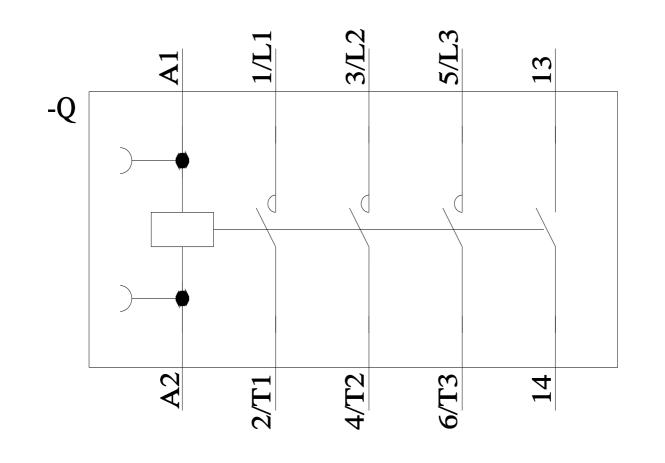
 mirror contact a 	according to IEC 60947-4-1		Yes; with 3RH29		
mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920			1 000 000		
proportion of dangerous failures					
with low deman	d rate according to SN 319	20	40 %		
 with high demand rate according to SN 31920 		920	73 %		
failure rate [FIT] with lo	ow demand rate according	to SN 31920	100 FIT		
T1 value for proof test 61508	interval or service life acco	ording to IEC	20 a		
protection class IP o	n the front according to I	EC 60529	IP20		
touch protection on	the front according to IEC	60529	finger-safe, for vertical cont	act from the front	
suitability for use					
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ertificates/ approvals					_
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EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	onformity	Test Certificates	
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