## 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	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
<ul> <li>without load current share typical</li> </ul>	4.2 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 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)	
<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 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
<ul> <li>during storage</li> </ul>	-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

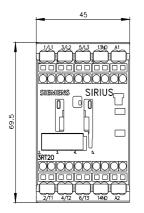
number of NO contacts for main contacts	3
operating voltage	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	18 A
value	
— up to 690 V 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
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	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 <sup>2</sup>
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

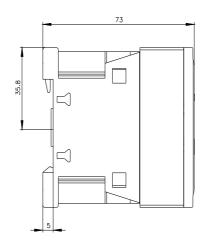
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	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
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> </ul>	52 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	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	

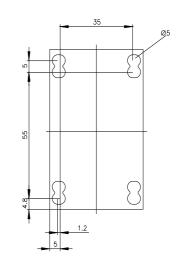
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power 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	
<ul> <li>at 230 V rated value</li> </ul>	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
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• 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	

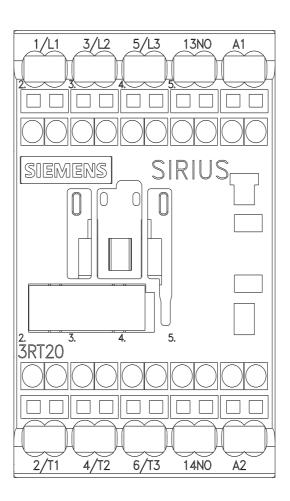
• of whit-choic is protection of the main circuit- with type of conduction of required05.054 (6007, 1004A), abl. 20A (6007, 1004A), BSBR. 30A (4157, 500A)• with type of conduction of the eacling white require05.00A (6007, 1004A), abl. 20A (6007, 1004A), BSBR. 30A (4157, 500A)• is derived conduction of the eacling white require05.00A (6007, 1004A), abl. 20A (6007, 1004A), BSBR. 30A (4157, 500A)• is derived conduction of the eacling white require05.00A (6007, 1004A), abl. 20A (6007, 1004A), BSBR. 30A (4157, 500A)• is derived conduction of the eacling white required is possible on whice innovating surface; can be Blied forward and beakersky by 22A* on whice innovating surface; can be Blied forward and beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to beakersky by 22A* on whice innovating surface; can be Blied forward and to annovation cand be Blied forward and to ann	design of the fuse link	
	-	
		aG: 354 (690)/ 100kA) aM· 204 (690)/ 100kA) RS88 354 (415)/ 80kA)
or tank-cranit protection of the auxiliary sortich required96:10.A (80.V.1 KA)tabilities manufing dimensions150° r (afticin peaktor in vertical monoling suffice, can be litted forward and independence on mounting onto 35 mm DNN rail according to DNN EN 60715 Yes* stable soft mountingYes• stable soft mounting70 mmwitch46 mmcontrol73 mmwitch70 mmvertice spacing73 mm• with side shyside mounting70 mm- or barded spacing10 mm- o		
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	
heigh         70 mm           width         45 mm           doph         73 mm           required spacing         73 mm           required spacing         70 mm           - upwards         10 mm           - forwain current circuit         spring-loaded terminals           totatot circuit         spring-loaded terminals           totatotatot circuit	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width         45 mm           depth         73 mm           depth         73 mm           events depending         73 mm           - forwards         10 mm           - dowwards         10 mm           - upwards         10 mm           - dowwards         10 mm           - dowards         10 mm           - dowards         10 mm           - dow	<ul> <li>side-by-side mounting</li> </ul>	Yes
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
• with side-Syndia mounting         - forwards         10 mm           - forwards         10 mm           - downwards         00 mm           - downwards         00 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         10 mm           - upwards         10 mm           - downwards         10 mm           - downwards         50 main           - for uain         50 main           - for uain         50 main           - for uain         50 main	depth	73 mm
- forwards10 mm- upwards00 mm- dorwards00 mm- at the side00 mm- at the side00 mm- forwards10 mm- upwards00 mm- upwards00 mm- upwards00 mm- dorwards10 mm- dorwards50 mm- dorwards10 mm- dorwards50 mm- dorwards20 (054 mm <sup>2</sup> )- solid20 (054 mm <sup>2</sup> )- solid or standed054 mm <sup>2</sup> - solid or standed054 mm <sup>2</sup> - solid or standed with core end processing0525 mm <sup>2</sup> - solid or standed with core end processing0525 mm <sup>2</sup> - inely standed with core end processing0525 mm <sup>2</sup> - inely standed with core end processing0525 mm <sup>2</sup> - ine	required spacing	
- upwards10 mm- downwards0mm- downwards0mm- opwards0mm- upwards10 mm- upwards00 mm- upwards00 mm- upwards00 mm- upwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- downwards00 mm- upwards10 mm- upwards00 mm- upwards5mm- upwards5pm- upwards5pm- upwards5pm- the side5pm- upwards5pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm- upwards2pm <trr>- upwards2pm- upwa</trr>	<ul> <li>with side-by-side mounting</li> </ul>	
- downwards0 mm- at the side0 mm- for younds10 mm- forwards10 mm- upwards0 mm- downwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- downwards0 mm- upwards10 mm- downwards0 mm- downwards0 mm- downwards0 mm- downwards9 mm- downwards2 k (0.5 4 mm <sup>2</sup> - solid cor standed0 S	— forwards	10 mm
at the side0 mm• for grounded parts10 mm upwards10 mm upwards0 mm at the side6 mm at the side0 mm dowmards10 mm dowmards10 mm dowmards10 mm dowmards0 mm upwards10 mm dowmards0 mm dowmards0 mm dowmards0 mm dowmards0 mm dowmards0 mm dowmards5 mm dowmards2 x (0.5 4 mm <sup>2</sup> ) of downards2 x (0.5 2.5 mm <sup>2</sup> ) of downards5 4 mm <sup>2</sup> old of or stranded5 4 mm <sup>2</sup> old or stranded5 2.5 mm <sup>2</sup> old or stranded with core end processing5 2.5 mm <sup>2</sup> onextable conductor cross-section for mailing contacts5 4 mm <sup>2</sup> old or stranded with core end processing5 2.5 mm <sup>2</sup> old or stranded with core end processing5 2.5 mm <sup>2</sup> onextable conductor cross-sections5 2.5 mm <sup>2</sup> finely stranded w	— upwards	10 mm
• for grounded parts0- forwards10 mm- upwards6 mm- downwards6 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards5 mm- downwards6 mm- downwards5 mm- downwards5 mm- downwards5 mm- downwards5 pring-tope terminals- downwards5 pring-tope terminals- downwards5 pring-tope terminals- for auxiliary and control circuitspring-tope terminals• for auxiliary and control circuit5 pring-tope terminals• for auxiliary and control circuit2 x (0.5 4 mm <sup>2</sup> )• exild6 S 4 mm <sup>2</sup> • exild0 S 4 mm <sup>2</sup> • exild0 S 4 mm <sup>2</sup> • for built core end processing2 x (0.5 4 mm <sup>2</sup> )• exild0 S 4 mm <sup>2</sup> • exild0 S 2 S mm <sup>2</sup> • exild exitned with out core end processing0 S	— downwards	10 mm
- forwards     10 mm       - upwards     6 mm       - upwards     10 mm       - downwards     10 mm       - downwards     10 mm       - forwards     10 mm       - forwards     10 mm       - upwards     10 mm       - downwards     0 mm       - downwards     0 mm       - downwards     6 mm       - downwards     6 mm       - downwards     6 mm       - downwards     5 ming-type terminals       - of or axuillary contacts     5 x (0.5 4 mm <sup>2</sup> )       - solid     0 x 4 mm <sup>2</sup> - solid     0 S 4 mm <sup>2</sup> - solid o stranded     0 S 4 mm <sup>2</sup> - solid o stranded     0 S 4 mm <sup>2</sup> - indiv stranded witho cre end processing	— at the side	0 mm
	<ul> <li>for grounded parts</li> </ul>	
- a the side6 mm- downwards10 mm• for ive parts10 mm- upwards10 mm- upwards10 mm- upwards0 mm- downwards6 mm- downwards6 mm- downwards6 mm- downwards9 pring-loaded terminals- of or and current circuitspring-loaded terminals• for auxiliary and control drouitspring-loaded terminals• for auxiliary contactsSpring-loaded terminals• of or auxiliary contactsSpring-loaded terminals• of auxiliary contactsSpring-loaded terminals• olid or strandedZx (0.5 4 mm <sup>2</sup> )• finely stranded with core end processingO.5 2.5 mm <sup>2</sup> • finely stranded without core end processingO.5 2.5 mm <sup>2</sup> • finely stranded without core end processingO.5 2.5 mm <sup>2</sup> • finely stranded without core end processingO.5 2.5 mm <sup>2</sup> • finely stranded without core end processingO.5 2.5 mm <sup>2</sup> • finely stranded without core end processingO.5 2.5 mm <sup>2</sup> • finely stranded witho	— forwards	10 mm
- downwards10 mm• for vive parts00 mm- upwards10 mm- upwards00 mm- downwards6 mm- downwards6 mm• at the side6 mmconnections/Terminatsspring-loaded terminals• for main current circuitspring-loaded terminals• for auxiliary and control circuitspring-loaded terminals• for angent collSyring-type terminals• for subility stranded withcore end processing2x (0.5 4 mm <sup>2</sup> )• for subility stranded without core end processing0.5 4 mm <sup>2</sup> • for subility stranded without core end processing0.5 25 mm <sup>2</sup> )• finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 mm <sup>2</sup> • finely stranded without core end processing0.5 25 m	— upwards	10 mm
• for live parts- forwards10 mm- upwards10 mm- upwards0 mm- downwards0 mm- at the side6 mmconnections/ Terminalstype of electrical connection• for main current circuitsping-loaded terminals• for main current circuitsping-loaded terminals• at contactor for auxiliary oratactsSpring-type terminals• of magnet coll2x (0.5 4 mm²)• solid or stranded2x (0.5 4 mm²)• solid or stranded0.5 4 mm²• solid or stranded with core end processing2x (0.5 25 mm²)• finely stranded with core end processing0.5 25 mm²• finely stranded with core end processing0.5 25 mm² <td>— at the side</td> <td>6 mm</td>	— at the side	6 mm
- forwards10 mm- upwards10 mm- downwards00 mm- downwards6 mm- at the side6 mmconnections/ Terminalsspring-loaded terminalsconnections/ Terminalsspring-loaded terminalsof or and normer torcuitspring-loaded terminalsof or and normer torcuitSpring-loaded terminalsof angant collSpring-loaded terminals <td>— downwards</td> <td>10 mm</td>	— downwards	10 mm
upwards10 mm downwards10 mm at the side6 mmconnections / terminals- for main current circuitspring-loaded terminals- of magnet colSpring-type terminals- of nagnet colSpring-type terminals- solid2x (0.5 4 mm²)- solid2x (0.5 4 mm²)- solid0.5 4 mm²- solid or stranded0.5 4 mm²- solid or stranded with core end processing0.5 4 mm²- finely stranded with core end processing0.5 4 mm²- solid or stranded0.5 4 mm²- solid or stranded with core end processing0.5 2.5 mm²- inley stranded with core end processing2x (0.5 2.5 mm²- inley stranded with core end processing<	<ul> <li>for live parts</li> </ul>	
- downwards     10 mm       - at the side     6 mm       connections/Terminals     5 mm       type of electrical connection     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       • solid     2x (0.5 4 mm²)       • solid or stranded     2x (0.5 4 mm²)       • solid or stranded     0.5 2.5 mm²)       • solid     0.5 4 mm²       • solid     0.5 4 mm²       • solid or stranded     0.5 2.5 mm²)       • solid     0.5 4 mm²       • solid     0.5 4 mm²       • solid     0.5 2.5 mm²)       • solid     0.5 2.5 mm²       • solid     0.5 2.5 mm²       • solid 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       • 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     0.5 2.5 mm²       • for auxiliary contacts     0.5 2.5 mm²       • for auxiliary contacts     2x (0.5 2.5 mm²	— forwards	10 mm
	— upwards	10 mm
Connections/ Terminals           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           • 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)           • finely stranded with core end processing         0.5 4 mm²           • solid         0.5 4 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	— downwards	10 mm
type of electrical connection              if or main current circuit         spring-loaded terminals           i of auxiliary and control circuit         spring-loaded terminals           i of auxiliary contacts         Spring-type terminals           i of agnet coil         Spring-type terminals           type of connectable conductor cross-sections for main contacts         i solid           i solid         2x (0.5 4 mm²)           i finely stranded with core end processing         2x (0.5 2.5 mm²)           connectable conductor cross-section for main contacts         i solid           i solid         0.5 4 mm²           i finely stranded with core end processing         2x (0.5 2.5 mm²)           connectable conductor cross-section for main contacts         i stranded           i solid         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 4 mm²           i finely stranded with core end processing         0.5 2.5 mm²	— at the side	6 mm
informatic current circuitspring-loaded terminalsinformatic control circuitspring-loaded terminalsinformatic control circuitSpring-loaded terminalsinformatic control circuitSpring-lype terminalsinformatic control circuit	Connections/ Terminals	
• for auxiliary and control circuitspring-loaded terminals• at contactor for auxiliary contactsSpring-type terminals• of magnet coilSpring-type terminalstype of connectable conductor cross-sections for main contacts2x (0.5 4 mm²)• solid2x (0.5 4 mm²)• solid or stranded2x (0.5 4 mm²)• finely stranded with core end processing2x (0.5 2.5 mm²)• connectable conductor cross-section for main contacts	type of electrical connection	
• 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 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)       • solid     0.5 4 mm²       • stranded     0.5 4 mm²       • 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       • 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 with core end processing     2x (0.5 2.5 mm²)       • for auxiliary contacts	for main current circuit	spring-loaded terminals
• of magnet coil       Spring-type terminals         type of connectable conductor cross-sections for main contacts       2x (0.5 4 mm <sup>3</sup> )         • solid       2x (0.5 4 mm <sup>3</sup> )         • solid or stranded with core end processing       2x (0.5 2.5 mm <sup>3</sup> )         • finely stranded with core end processing       2x (0.5 2.5 mm <sup>3</sup> )         • solid       0.5 4 mm <sup>3</sup> • solid       0.5 4 mm <sup>3</sup> • solid       0.5 4 mm <sup>3</sup> • stranded with core end processing       0.5 4 mm <sup>3</sup> • finely stranded with core end processing       0.5 4 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded without core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       2x (0.5 4 mm <sup>3</sup> )         • finely stranded with core end processing       2x (0.5 4 mm <sup>3</sup> )         • finely stranded with core end processing <td< td=""><td><ul> <li>for auxiliary and control circuit</li> </ul></td><td>spring-loaded terminals</td></td<>	<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
type of connectable conductor cross-sections for main contacts       2x (0.5 4 mm²)         solid or stranded       2x (0.5 4 mm²)         infinely stranded with core end processing       2x (0.5 2.5 mm²)         connectable conductor cross-section for main contacts       5 2.5 mm²)         solid       0.5 4 mm²         otimely stranded with core end processing       0.5 4 mm²         otimely stranded with core end processing       0.5 4 mm²         otimely stranded with core end processing       0.5 4 mm²         otimely stranded with core end processing       0.5 4 mm²         otimely stranded with core end processing       0.5 2.5 mm²         otimely stranded with core end processing       0.5 2.5 mm²         otimely stranded with core end processing       0.5 2.5 mm²         otimely stranded with core end processing       0.5 2.5 mm²         of new stranded       0.5 2.5 mm²         of on auxiliary contacts       0.5 2.5 mm²         of or auxiliary contacts       0.5 4 mm²)         of new stranded with core end processing       0.5 2.5 mm²         of or auxiliary contacts       2x (0.5 2.5 mm²)         of or auxiliary contacts       2x (0.5 2.5 mm²)         of or auxiliary contacts       2x (0.5 2.5 mm²) <td< td=""><td><ul> <li>at contactor for auxiliary contacts</li> </ul></td><td>Spring-type terminals</td></td<>	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
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)	<ul> <li>of magnet coil</li> </ul>	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	
• finely stranded with core end processing2x (0.5 2.5 mm²)connectable conductor cross-section for main contacts	• solid	2x (0.5 4 mm²)
• 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	<ul> <li>solid or stranded</li> </ul>	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	<ul> <li>finely stranded with core end processing</li> </ul>	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	<ul> <li>finely stranded without core end processing</li> </ul>	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	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
• 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	<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
• 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	<ul> <li>finely stranded with core end processing</li> </ul>	
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
<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul> </li> </ul>		
finely stranded with core end processing     2x (0.5 2.5 mm²)       finely stranded without 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     2x (20 12)       AWG number as coded connectable conductor cross     20 12       • for main contacts     20 12       • for auxiliary contacts     20 12	<ul> <li>for auxiliary contacts</li> </ul>	
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	— solid or stranded	2x (0,5 4 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         • for auxiliary contacts       20 12         • for auxiliary contacts       20 12	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts     2x (20 12)  AWG number as coded connectable conductor cross section     for main contacts     for auxiliary contacts     20 12     20 12  Safety related data	- finely stranded without core end processing	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section       20 12         • for main contacts       20 12         • for auxiliary contacts       20 12         Safety related data       20 12		
for main contacts 20 12     for auxiliary contacts 20 12 Safety related data	•	
for auxiliary contacts     20 12 Safety related data	section	
Safety related data	<ul> <li>for main contacts</li> </ul>	20 12
	-	20 12
product function	Safety related data	
	product function	

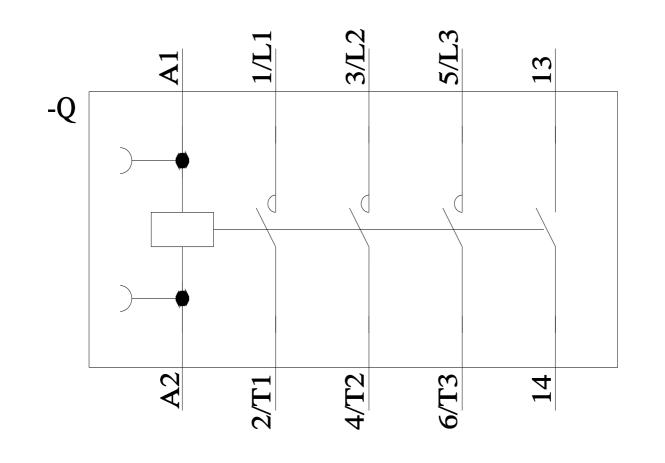
<ul> <li>mirror contact a</li> </ul>	according to IEC 60947-4-1		Yes; with 3RH29		
mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920			1 000 000		
proportion of dangerous failures					
with low deman	d rate according to SN 319	20	40 %		
<ul> <li>with high demand rate according to SN 31920</li> </ul>		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					
<ul> <li>safety-related s</li> </ul>	0		Yes		
ertificates/ approvals					_
General Product App	proval				
		<u>Confirmation</u>	UL u	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	onformity	Test Certificates	
RCM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
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ABS	BUREAU VERITAS	DNV	LRS	PRS	RINA
Marine / Shipping	other			Railway	Environment
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