SIEMENS

Data sheet

3RT2028-1AN24



Power contactor, AC-3 38 A, 18.5 kW / 400 V 2 NO + 2 NC, 220 V AC 50/60 Hz, 3-pole Size S0, screw terminals Removable auxiliary switch

and the first frame of the second	
product brand name	SIRIUS Device contenter
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current at AC in hot operating state	11.4 W
per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	10.5 W
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	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	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 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 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
 ambient temperature during operation 	-25 +60 °C
ambient temperature during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
 operating voltage at AC-3 rated value maximum 	690 V
- operating relage at ris o rated rated maximum	

operational current	
• at AC-1 at 400 V at ambient temperature 40 °C	50 A
rated value	
• at AC-1	50.4
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
 at AC-4 at 400 V rated value 	22 A
 at AC-5a up to 690 V rated value 	44 A
 at AC-5b up to 400 V rated value at AC-6a 	31.5 A
 up to 230 V for current peak value n=20 rated value 	30.8 A
 — up to 400 V for current peak value n=20 rated value 	30.8 A
 — up to 500 V for current peak value n=20 rated value 	30.8 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	21 A
— up to 230 V for current peak value n=30 rated value	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
 — up to 500 V for current peak value n=30 rated value 	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	-
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
	35 A
— at 110 V rated value	
— at 110 V rated value — at 220 V rated value	35 A
— at 220 V rated value	35 A
— at 220 V rated value — at 440 V rated value	35 A 2.9 A
 — at 220 V rated value — at 440 V rated value — at 600 V rated value 	35 A 2.9 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
 at 400 V rated value 	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	12.2 kV·A
 up to 400 V for current peak value n=20 rated value 	21.3 kV·A
 up to 500 V for current peak value n=20 rated value 	26.6 kV·A
 up to 690 V for current peak value n=20 rated value 	25 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	8.1 kV·A
 up to 400 V for current peak value n=30 rated value 	14.2 kV·A
 up to 500 V for current peak value n=30 rated value 	18.5 kV·A
 up to 690 V for current peak value n=30 rated value 	25 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
Imited to 1 s switching at zero current maximum	593 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 5 s switching at zero current maximum	395 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 30 s switching at zero current maximum	186 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	152 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	5 000 1/b
• at AC	5 000 1/h
operating frequency	1,000,1/b
• 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	
type of voltage of the control supply voltage	AC
 control supply voltage at AC at 50 Hz rated value 	220.1/
	220 V 220 V
at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	220 V
• at 50 Hz	0.8 1.1
• at 50 Hz	0.85 1.1

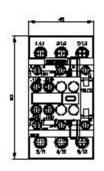
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apparent pick-up power of magnet coil at AC	
• at 50 Hz	81 V·A
• at 60 Hz	79 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 V·A
• at 60 Hz	8.5 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A
 at 690 V rated value 	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
• at 60 V rated value	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
 at 24 V rated value 	6 A
 at 48 V rated value 	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	34 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	25 hp

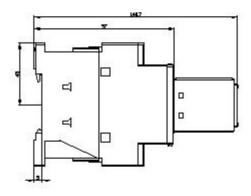
contect rating of auxiliary contacts according to UL A000 / 2000 Short-chain protection Gestion of the rain circuit - with type of conditation 1 required G: 125A (660V,100kA), akt. 50A (660V,100kA), BS8: 125A (415V, 50KA) - with type of assignment 2 required g: 30A (2000, 120KA), akt. 50A (660V, 100kA), BS8: 50A (415V, 50KA) - with type of assignment 2 required g: 30A (2000, 120KA), akt. 50A (660V, 100kA), BS8: 50A (415V, 50KA) for abort-circuit protection of the auxiliary switch g: 30A (2000, 120KA), akt. 50A (660V, 100kA), BS8: 50A (415V, 50KA) firstening method side-by-side mounting. +1480* rotation possible on vertical mounting aurface firstening method side-by-side mounting. +1480* rotation possible on vertical mounting aurface with alide-by-side mounting +1480* rotation possible on vertical mounting aurface +1480* rotation possible on vertical mounting aurface eight 95 100 mm -100* rotation -100* rotation of groundel parts -100* rotation 100 mm -100* rotation - downwards 100 mm -100* rotation -100* rotation - forwards 100 mm -100* rotation -100* rotation - forwards 100 mm -	— at 575/600 V rated value	25 hp
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required spacing for short-circuit protection of the auxiliary switch required spacing mounting position +-180° rotation possible on vertical mounting surface: can be litted forward and backward by V-1225° on vertical mounting surface socie van damage on mounting and 35 mm standard mounting surface socie van damage on mounting and 35 mm standard mounting surface socie van damage on mounting and 35 mm standard mounting surface socie van damage on mounting and 35 mm standard mounting surface socie van damage on mounting and 35 mm standard mounting surface socie van damage on mounting and as mean socie mounting and asocie mounting and as mean socie mounting and as mean so		•
design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required 0: for short-circuit protection of the auxiliary switch required required for short-circuit protection of the auxiliary switch required mounting position fastening method size-by-side mounting fastening method - size-by-side mounting - for grounded parts - for grounded parts - for grounded parts - downwards - downwards 10 mm - downwards - downwards - forwards - downwards - downwards - forwards - downwards - forwards - f		
with type of coordination 1 required gG: 122A (690V, 100KA), aM: 50A (690V, 100KA), BS88: 125A with type of assignment 2 required gG: 50A (690V, 100KA), aM: 25A (690V, 100KA), BS88: 50A (415V, 80KA) installation/incurting/dimensions gG: 10 A (500 V, 1 kA) Installation/incurting/dimensions +/180° rotation possible on vertical mounting surface: can be filted forward and backward by V, 22 8° on vertical mounting surface fastening method screw and snap-on mounting on 0.5 mm standard mounting real accounting to 10 NE M 60715 visit 45 mm width 45 mm depth 14 trum - elde-by-side mounting Yes meaning Fastening method - elde-by-side mounting 10 mm -		
- with type of assignment 2 required QE:SDA (690V, 100kA), abl: 25A (690V, 100kA), BS88: 50A (415V, 80KA) - or short-circuit protection of the auxiliary switch required QE:SDA (690V, 100kA), abl: 25A (690V, 100kA), BS88: 50A (415V, 80KA) Installation/ inounting/ dimensions - or short-circuit protection of the auxiliary switch required fastening method - or short-circuit protection of the auxiliary switch required spacing • side-by-side mounting - or short-circuit protection of the auxiliary switch required spacing • side-by-side mounting - or short-circuit protection • with tide-by-side mounting - or short-circuit protection • with side-by-side mounting - or short-circuit protection • or grounded parts - or short-circuit protection forwards 10 mm downwards 10 mm or short is sold 0 mm or sold 5 mm forwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm or sorads 10 mm f	 for short-circuit protection of the main circuit 	
- with type of assignment 2 required gG: 50A (890V, 100AA), BS88: 50A (415V. solutions of the auxiliary switch required mounting position fastening mothod • side-by-side mounting • side side-by-side mounting • side side side • side mounting • side side-by-side mounting • side side side side • side side side side • side side side side • side side side side side • side side side side side • side side side side side side side side	— with type of coordination 1 required	
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions +/180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/22.5° on vertical mounting surface; and backward by +/22.5° on vertical mounting surface; screw and snaps on mounting onto 35 mm standard mounting rail according to Dit EN 60715 • side-by-side mounting Yes • height 85 mm with 45 mm depth 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - otomewards 10 mm - otomewards 10 mm	— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,
Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be titled forward and backward by +/-22.5° on vertical mounting rail according to DNE NE 00715 • side-by-side mounting - • side-by-side mounting - • width 45 mm • depth 141 mm required spacing 10 mm • ubt side-by-side mounting - • overwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10		,
forward and backward by 4/. 22.5° on vertical mounting surface fastening method source was dia sap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 height 85 mm width 45 mm deepth 141 mm required spacing 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm -		
ecode-by-side mounting Yes height 85 mm with 45 mm depth 44 mm required spacing 10 mm - orwards 10 mm - uwards 10 mm - downwards 10 mm - downwards 10 mm - uwards 10 mm - downwards 10 mm - solid screw-type terminals of main current cincuit<	mounting position	
• side-by-side mounting Yes height 88 mm width 46 mm depth 141 mm required spacing 0 mm • with side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - downwards 0 mm - downwards 10 mm - otoratile control circuit screw-type terminals storatilery and control circuit screw-type terminals of	fastening method	
with 45 mm deptn 141 mm required spacing 141 mm • with side-by-side mounting 10 mm - forwards 10 mm - downwards 10 mm - of agnet coil screw-type terminals for auxillary and control circuit screw-type terminals of magnet coil Screw-type terminals solid or stranded	 side-by-side mounting 	-
depth 141 mm required spacing 141 mm eventh side-by-side mounting 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm - for grounded parts 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - solid screw-type terminals screw-type terminals screw-type terminals for auxiliary contacts Screw-type terminals		85 mm
required spacing • with side-by-side mounting forwards 10 mm upwards 10 mm downwards 0 mm downwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm growards 10 mm growards 10 mm growards 10 mm at the side 6 mm downwards 10 mm growards 10 mm	width	45 mm
• with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 0 mm - at the side 0 mm - for grounded parts 10 mm - for quounded parts 10 mm - for quounded parts 10 mm - upwards 10 mm - downwards 10 mm - solid on current circuit screw-type terminals * for main current circuit screw-type terminals • of magnet coil 2x (1 25 mm ²), 2x (2.5	depth	141 mm
- forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connectable conductor cross-sections 6 reminals of magnet coil Screw-type terminals <td>required spacing</td> <td></td>	required spacing	
- upwards 10 mm - downwards 00 mm - at the side 0 mm • for grounded parts 0 - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 50 max - of auxillary and control circuit screw-type terminals - solid 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - solid or s		
- downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm Connection/ screw-type terminals screw-type terminals Screw-type terminals • of main contacts Screw-type terminals • of main contacts 2x (1 25 mm ²), 2x (2.5 10 mm ²) - solid 2x (1 25 mm ²), 2x (2.5 10 mm ²) - solid or stranded 2x (1 25 mm ²), 2x (2.5 10 mm ²) • solid or stranded 1 10 mm ²	— forwards	10 mm
at the side 0 mm • for grounded parts forwards forwards 10 mm upwards 10 mm at the side 6 mm at the side 6 mm downwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm forwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals 10 mm • of main current circuit screw-type terminals • of onanic contacts Screw-type terminals • of adjor stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) solid 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) • at AWG cables for main contacts 2x (1 2.5 mm ³), 2x (2.5 6 m	— upwards	10 mm
 for grounded parts for varids for varids upwards mm upwards mm downwards mm effective later for main current circuit screw-type terminals screw-type terminals downetcolor for auxiliary contacts screw-type terminals screw-type te		10 mm
 for grounded parts for varids for varids upwards mm upwards mm downwards mm effective later for main current circuit screw-type terminals screw-type terminals downetcolor for auxiliary contacts screw-type terminals screw-type te	— at the side	0 mm
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - forwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 10 mm type of connectable conductor cross-sections 6 main contracts of magnet coil Screw-type terminals type of connectable conductor cross-sections 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - solid or stranded 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) - solid or stranded 1 10 mm ² • solid 1 10 mm ² • solid or stranded 0.5 2.5 mm ² <		
- upwards 10 mm - at the side 6 mm - downwards 10 mm off live parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm type of electrical connection 6 mm of rauxiliary and control circuit screw-type terminals of rauxiliary and control circuit screw-type terminals of rauxiliary and control circuit screw-type terminals of magnet coil Screw-type terminals of or main contacts - solid - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - solid 1 10 mm² - solid 1 10 mm² - solid or stranded 1 10 mm² - solid or stranded </td <td></td> <td>10 mm</td>		10 mm
- at the side 6 mm - downwards 10 mm • for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm type of electrical connection 6 reaxiliary and control circuit screw-type terminals 5 crew-type terminals of main current circuit screw-type terminals • for auxiliary contacts Screw-type terminals • of main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid		
downwards 10 mm • for live parts 10 mm gowards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for main current circuit screw-type terminals • of magnet coll Screw-type terminals • of magnet coll Screw-type terminals • of main contacts Screw-type terminals • of onnectable conductor cross-sections • for main contacts • for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid 1 10 mm² • stranded 1 10 mm² • stranded 1 10 mm² • stranded with core end processing 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm²		
 for live parts forwards mm upwards mm downwards mm downwards mm at the side mm Connections/ Terminals type of electrical connection for main current circuit screw-type terminals of main current circuit at contactor for auxiliary contacts Screw-type terminals of magnet coil Screw-type terminals of magnet coil Screw-type terminals of magnet coil Screw-type terminals of standed 2x (1 2.5 mm²), 2x (2.5 10 mm²) at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) at AWG cables for main contacts at AWG cables for main contacts at AWG cables for main contacts at (1 2.5 mm²), 2x (2.5 10 mm²) at AWG cables for main contacts at (1 10 mm² at anded at 10 mm² at		
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upwards 10 mm		10
- downards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • solid 1 10 mm² • finely stranded with core end processing 1 10 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • 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 </td <td></td> <td></td>		
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Connections/ Terminals type of electrical connection screw-type terminals • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections Screw-type terminals • of main contacts Screw-type terminals - solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (1 2.5 mm²), 2x (14 8) connectable conductor cross-section for main contacts 1 10 mm² • solid 1 10 mm² • solid 1 10 mm² • solid 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² <		
type of electrical connection• for main current circuit• for auxiliary and control circuit• at contactor for auxiliary contacts• of magnet coiltype of connectable conductor cross-sections• for main contacts- solid- solid or stranded- finely stranded with core end processing• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²e at AWG cables for main contacts2x (1 10 mm²connectable conductor cross-section for main contactse solid1 10 mm²a stranded1 10 mm²connectable conductor cross-section for auxiliary contactse solid or strandede solid or strandede finely stranded with core end processing1 10 mm²type of connectable conductor cross-sections e for auxiliary contactse for auxiliary contacts		6 mm
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 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals Screw		
 at contactor for auxiliary contacts of magnet coil Screw-type terminals Screw target		
• of magnet coilScrew-type terminalstype of connectable conductor cross-sectionsScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm²), 2x (2.5 10 mm²)- solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• at AWG cables for main contacts2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• solid or stranded0.5 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• finely stranded with core end processing0.5 2.5 mm²	-	
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• at AWG cables for main contacts $2x (16 \dots 12), 2x (14 \dots 8)$ connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²		
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• stranded 1 10 mm² • finely stranded with core end processing 1 10 mm² connectable conductor cross-section for auxiliary contacts 1 10 mm² • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm²		4 40
• finely stranded with core end processing 1 10 mm ² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm ² • solid or stranded 0.5 2.5 mm ² • finely stranded with core end processing 0.5 2.5 mm ² • type of connectable conductor cross-sections • for auxiliary contacts		
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type of connectable conductor cross-sections • for auxiliary contacts		
for auxiliary contacts	 finely stranded with core end processing 	0.5 2.5 mm ²
	type of connectable conductor cross-sections	
- solid or stranded 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)	 for auxiliary contacts 	
	— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)

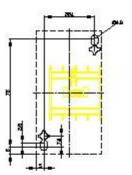
— finely stranded with core end processi	•	2x (0.5 1.5 mm²), 2x (0	,	
 at AWG cables for auxiliary contacts 	2	2x (20 16), 2x (18 14	4)	
 AWG number as coded connectable conductors section for main contacts 	ictor	16 8		
 AWG number as coded connectable conductors section for auxiliary contacts 	ictor 2	20 14		
Safety related data				
B10 value with high demand rate acc. to SN 3192	20 .	1 000 000		
proportion of dangerous failures				
with low demand rate acc. to SN 31920	2	40 %		
 with high demand rate acc. to SN 31920 	-	73 %		
failure rate [FIT] with low demand rate acc. to SN		100 FIT		
product function				
 mirror contact acc. to IEC 60947-4-1 		Yes		
• positively driven operation acc. to IEC 6094		No		
T1 value for proof test interval or service life a		20 у		
protection class IP on the front acc. to IEC 60	529	P20		
touch protection on the front acc. to IEC 6052		inger-safe, for vertical co	ontact from the front	
suitability for use safety-related switching OFF		Yes		
Certificates/ approvals				
General Product Approval				EMC
	•	KC		^
	(U) u	<u>KC</u>	EAC	RCM
	UL UL		ERE Marine / Shipping	RCM
Declaration of Conformity Te Miscellaneous	est Certificate <u>Type Test</u> <u>Certificates/Tes</u> <u>Report</u>	s <u>Special Test</u>		
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Declaration of Conformity Te Miscellaneous EG-Konf.	<u>Type Test</u> Certificates/Tes	s <u>Special Test</u>	Marine / Shipping	RCM
Declaration of Conformity Telescondent Miscellaneous EG-Konf.	<u>Type Test</u> Certificates/Tes	s st <u>Special Test</u> <u>Certificate</u>	Marine / Shipping	Image: Constraint of the second se

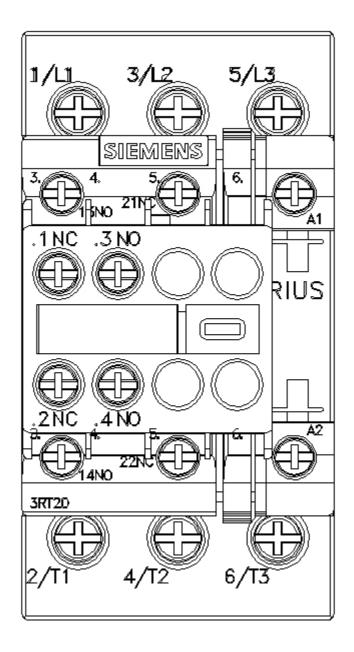
Further information

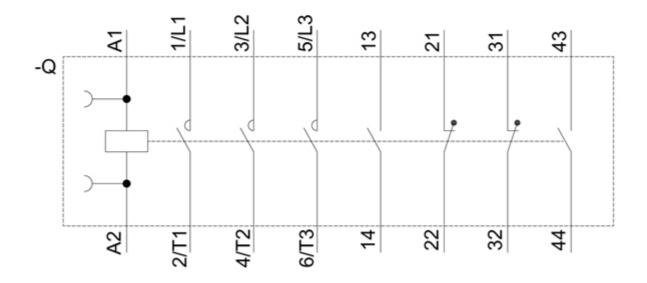
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