# SIEMENS

#### Data sheet

### 3RT2025-1AP00-1AA0

power contactor, AC-3 17 A, 7.5 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz, 3-pole, Size S0 screw terminal for upright mounting position



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2
General technical data	
Size of contactor	S0
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>	2.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.9 W
Power loss [W] for rated value of the current without load current share typical	7.6 W
Surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN 60947-1</li> </ul>	400 V

Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
Mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	к
Reference code acc. to DIN EN 81346-2	Q
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
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-2 at 400 V rated value	17 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 A
at no ou up to obd v rated value	

<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	14.1 A
● at AC-6a	
— up to 230 V for current peak value n=20	11.4 A
rated value	
— up to 400 V for current peak value n=20	11.4 A
rated value	44.4.4
— up to 500 V for current peak value n=20 rated value	11.4 A
— up to 690 V for current peak value n=20	11.3 A
rated value	
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 400 V for current peak value n=30 rated value	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30	7.6 A
rated value	
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	10 mm <sup>2</sup>
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	7.7 A
• at 690 V rated value	7.7 A
Operating current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 0
	1 A
— at 440 V rated value	0.4 A
— at 440 V rated value — at 600 V rated value	
	0.4 A
— at 600 V rated value	0.4 A
<ul><li>— at 600 V rated value</li><li>with 2 current paths in series at DC-1</li></ul>	0.4 A 0.25 A
<ul> <li>— at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	0.4 A 0.25 A 35 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A 1 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A 1 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A 1 A 0.8 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A 1 A 0.8 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> </ul>	0.4 A 0.25 A 35 A 35 A 5 A 1 A 0.8 A 35 A 35 A

— at 600 V rated value	1.4 A
Operating current	
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 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-1	
— at 230 V rated value	13.3 kW
— at 230 V at 60 °C rated value	13.3 kW
— at 400 V rated value	23 kW
— at 400 V at 60 °C rated value	23 kW
— at 690 V rated value	40 kW
— at 690 V at 60 °C rated value	40 kW
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	3.5 kW
at 690 V rated value     Operating apparent output at AC-6a	6 kW
• up to 230 V for current peak value n=20 rated	4 500 V·A
value	

<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7 800 V·A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9 900 V·A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	13 600 V·A
Operating apparent output at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 000 V·A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5 200 V·A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6 600 V·A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	9 100 V·A
Short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	180 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	115 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	65 V·A
Inductive power factor with closing power of the coil	

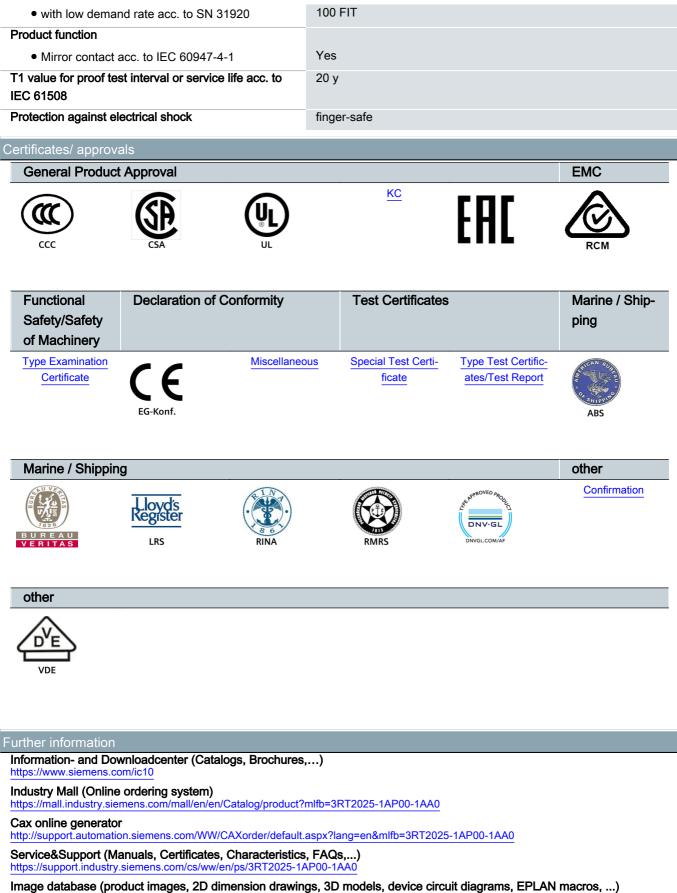
● at 50 Hz	0.82
Apparent holding power of magnet coil at AC	
● at 50 Hz	7.6 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.25
Closing delay	
• at AC	9 38 ms
Opening delay	
● at AC	4 16 ms
Arcing time	10 10 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	

Number of NC contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	1
Number of NO contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	1
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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

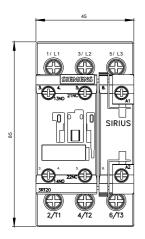
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	14 A
• at 600 V rated value	17 A
Yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 hp
Contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
Design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A
	(415V,80kA)
	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A
— with type of assignment 2 required	(415V,80kA)
<ul> <li>with type of assignment 2 required</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	
	(415V,80kA)
• for short-circuit protection of the auxiliary switch	(415V,80kA)
• for short-circuit protection of the auxiliary switch required	(415V,80kA)
• for short-circuit protection of the auxiliary switch required	(415V,80kA) gG: 10 A (500 V, 1 kA)
• for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions Mounting position	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  Mounting position  Mounting type	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type         <ul> <li>Side-by-side mounting</li> </ul> </li> <li>Height</li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  Mounting position  Mounting type      Side-by-side mounting	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type</li> <li>Side-by-side mounting</li> <li>Height</li> <li>Width</li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> </ul> </li> <li>Height</li> <li>Width</li> <li>Depth</li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type         <ul> <li>Side-by-side mounting</li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Required spacing</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> </ul> </li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Required spacing <ul> <li>with side-by-side mounting</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> </ul> </li> <li>Height</li> <li>Width</li> <li>Depth</li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> </ul> </li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> </ul> </li> </ul></li></ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> </ul> </li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> </ul> </li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul> <li>forwards</li> <li>forwards</li> <li>forwards</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm 10 mm 0 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> </ul> </li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul> <li>forwards</li> <li>forwards</li> <li>at the side</li> </ul> </li> <li>for wards</li> <li>mathematical action of the auxiliary switch required space of the side of</li></ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm 10 mm 10 mm
<ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>nstallation/ mounting/ dimensions</li> <li>Mounting position</li> <li>Mounting type <ul> <li>Side-by-side mounting</li> <li>Height</li> </ul> </li> <li>Width <ul> <li>Depth</li> </ul> </li> <li>Required spacing <ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>for grounded parts <ul> <li>forwards</li> <li>forwards</li> <li>forwards</li> </ul> </li> </ul>	(415V,80kA) gG: 10 A (500 V, 1 kA) standing, on horizontal mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 97 mm 10 mm 10 mm 10 mm 10 mm 10 mm

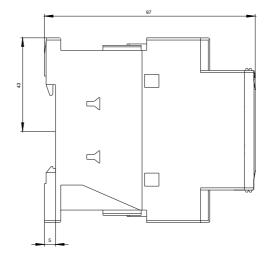
- upwards     10 mm       - upwards     10 mm       - downwards     10 mm       - at the side     6 mm       Connections/ Terminals       Type of electical connection       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • for main current circuit     screw-type terminals       • of magnet coil     Screw-type terminals       • for main contacts     Screw-type terminals       • for main contacts     Screw-type terminals       • of magnet coil     2x (1 25 mm?), 2x (2.5 10 mm?)       - = solid     2x (1 25 mm?), 2x (2.5 10 mm?)       - = solid     2x (1 25 mm?), 2x (2.5 10 mm?)       - = solid     2x (1 25 mm?), 2x (2.5 10 mm?)       - = solid     2x (1 25 mm?), 2x (2.5 10 mm?)       - = solid     2x (1 25 mm?), 2x (2.5 10 mm?)       • at AWG conductor cross-section for main contacts     2x (1 10 mm²       • stranded     1 10 mm²       • finally stranded with core end processing     1 10 mm²       • finally stranded with core end processing     0.5 2.5 mm²)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • of auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • at AWG condu	formando	10 mm
	— forwards	
- at the side     6 mm       Connections/ Terminals     screw-type terminals       • for main current circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of magnet coil     Screw-type terminals       • for main contacts     Screw-type terminals       • of magnet coil     Screw-type terminals       • for main contacts     Screw-type terminals       • of magnet coil     Screw-type terminals       • for main contacts     Screw-type terminals       • a coll d     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 6 mm²), 1x 10 mm²       • at AWG conductor cross-section for main contacts     2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²       • at AWG conductor cross-section for main contacts     2x (1 12), 2x (14 8)       Connectable conductor cross-section for auxiliary contacts     3 10 mm²       • solid     1 10 mm²       • infely stranded with core end processing     1 10 mm²       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     2x (20 16), 2x (18 14)       AWG number as coded connectable conductor		
Connections/ Terminals           Type of electrical connection           • for main current circuit           • for auxiliary and control current circuit           • at contactor for auxiliary contacts           • of magnet coil           Type of electrical connectable conductor cross-sections           • for main contacts           - solid           - solid           - solid           - solid           - finely stranded with core end processing           • at AVK conductor cross-section for main           - finely stranded with core end processing           • solid           - solid           - solid           - solid           - finely stranded with core end processing           - solid           - solid           - solid           - solid           - solid           - finely stranded with core end processing           - single or multi-stranded           - single or multi-stranded           - single or multi-stranded           - single or multi-stranded           - finely stranded with core end processing           - for auxiliary contacts           - for auxiliary contacts           - for auxiliary contacts		
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       • for main contacts         • single or multi-stranded       2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 10 mm <sup>3</sup> )         - single or multi-stranded       2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 10 mm <sup>3</sup> )         • at AWG conductors for main contacts       2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 10 mm <sup>3</sup> )         • solid       1 10 mm <sup>4</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> • for auxiliary contacts       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • for auxiliary contacts       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • for auxiliary contacts       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • for auxiliary contacts       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • for auxiliary contacts		0 mm
• for main current circuitscrew-type terminals• for auxiliary and control current circuitscrew-type terminals• of cancelator for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminals• for main contactsScrew-type terminals• for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- single or multi-stranded2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- finely stranded with core end processing2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )• at AWG conductors for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • at AWG conductors cross-section for main contacts1 10 mm <sup>3</sup> • solid1 10 mm <sup>3</sup> • solid1 10 mm <sup>3</sup> • stranded1 10 mm <sup>3</sup> • single or multi-stranded0.5 2.5 mm <sup>3</sup> • single or multi-stranded0.5 2.5 mm <sup>3</sup> • single or multi-stranded2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• finely stranded with core end processing0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0		
• for auxiliary and control current circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• for main contacts- solid- solid2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- single or multi-stranded2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- finely stranded with core end processing2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • at AWG conductors for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • solid0.5 2.5 mm <sup>2</sup> • single or multi-stranded0.5 2.5 mm <sup>2</sup> • single or multi-stranded2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ), 2x (0.75 2.5 mm <sup>3</sup> )• for auxiliary contacts2x (0.5 1.5 mm <sup>3</sup> ),		
• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalsType of connectable conductor cross-sections• for main contacts- single or multi-stranded2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- single or multi-stranded2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )- finely stranded with core end processing2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • at AWG conductors for main contacts2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • solid1 10 mm <sup>3</sup> • stranded1 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • stranded1 10 mm <sup>2</sup> • single or multi-stranded0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing2x (0.5 1,5 mm <sup>2</sup> ), 2x (0.75 2,5 mm <sup>2</sup> )• finely stranded with core end processing2x (0.5 1,5 mm <sup>2</sup> ), 2x (0.75 2,5 mm <sup>2</sup> )• finely stranded with core end processing2x (0.5 1,5 mm <sup>2</sup> ), 2x (0.75 2,5 mm <sup>2</sup> )• for auxiliary contacts2x (0.5 1,5 mm <sup>2</sup> ), 2x (0.75 2,5 mm <sup>2</sup> )• for auxiliary contacts2x (20 16), 2x (18 14)AVKO number as coded connectable conductor cross-sections1000 000• for auxiliary contacts1000 000• for auxiliary contacts1000 000• with high demand rate acc. to SN 3192040 %• with high demand rate		
• of magnet coilScrew-type terminalsType of connectable conductor cross-sections• for main contacts- solid2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 10 mm <sup>9</sup> )- single or multi-stranded2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 10 mm <sup>9</sup> )- finely stranded with core end processing2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • at AWG conductor for main contacts2x (1 2,5 mm <sup>3</sup> ), 2x (2,5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • solid1 10 mm <sup>2</sup> • stranded1 10 mm <sup>2</sup> • finely stranded with core end processing1 10 mm <sup>2</sup> • finely stranded with core end processing5 2,5 mm <sup>2</sup> • finely stranded with core end processing0.5 2,5 mm <sup>2</sup> • finely stranded with core end processing5 2,5 mm <sup>2</sup> • finely stranded with core end processing2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• finely stranded with core end processing2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• finely stranded with core end processing2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• finely stranded with core end processing2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• at AWG conductors for auxiliary contacts2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• finely stranded with core end processing2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• at AWG conductors for auxiliary contacts2x (0,5 1,6 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )• for auxiliary contacts16 8• for auxiliary contacts1000 000<	<ul> <li>for auxiliary and control current circuit</li> </ul>	
Type of connectable conductor cross-sections       • for main contacts         • solid       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         - single or multi-stranded       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • at AWG conductors for main contacts       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • connectable conductor cross-section for main contacts       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • connectable conductor cross-section for main contacts       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • connectable conductor cross-section for main contacts       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> • solid       1 10 mm <sup>2</sup> • solid       1 10 mm <sup>2</sup> • stranded       1 10 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> • finely stranded with core end processing       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • finely stranded with core end processing       2x (0,5 1,5 mm <sup>3</sup> ), 2x (0,75 2,5 mm <sup>3</sup> )         • for auxiliary contacts       2x (0.5 1,5 mm <sup>3</sup> ), 2x (0.75 2,5 mm <sup>3</sup> )         • at AWG conductors for auxiliary contacts       2x (20 16), 2x (18 14)	<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
• for main contacts solid2x (1 2.5 mm²), 2x (2.5 10 mm²) single or multi-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 finely stranded with core end processing2x (16 12), 2x (14 8)Connectable conductor corss-section for main contacts2x (16 12), 2x (14 8)• solid1 10 mm²• stranded1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• ningle or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts20 14AWG number as coded connectable conductor cross section16 8• for auxiliary contacts20 14• for auxiliary contacts20 14• with high demand rate acc. to SN 319201000 000 <td>● of magnet coil</td> <td>Screw-type terminals</td>	● of magnet coil	Screw-type terminals
solid2x (1 2.5 mm²), 2x (2.5 10 mm²) single or multi-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 conductors for main contacts2x (16 12), 2x (14 8)Connectable conductor cross-section for main contacts1 10 mm² solid1 10 mm² solid1 10 mm² solid1 10 mm² solid0.5 2.5 mm² solid0.5 2.5 mm² single or multi-stranded0.5 2.5 mm² single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) finely stranded with core end processing2x (0,5 1,6 4,14)AWG conductors for auxiliary contacts20 14Section16 8 for main contacts16 8 for main contacts20 14Sello value1 000 000Proportion of dangerous failures40 % with high demand rate acc. to SN 3	Type of connectable conductor cross-sections	
	<ul> <li>for main contacts</li> </ul>	
	— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• at AWG conductors for main contacts       2x (16 12), 2x (14 8)         Connectable conductor cross-section for main contacts       1 10 mm²         • solid       1 10 mm²         • stranded       1 10 mm²         • finely stranded with core end processing       1 10 mm²         Connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • single or multi-stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         • for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       6 8         • for auxiliary contacts       20 14         Safety related data       1000 000         Proportion of dangerous failures       40 %         • with high demand rate acc. to SN 31920       40 %         • with high demand rat	— single or multi-stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)
Connectable conductor cross-section for main contacts	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
contactsImage: Contacts• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• finely stranded with core end processing2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts20 14• for auxiliary contacts20 14Stety related data1000 000Proportion of dangerous failures • with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)
conserve1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²Connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)- single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures • with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %		
• finely stranded with core end processing       1 10 mm²         Connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • single or multi-stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         Type of connectable conductor cross-sections       0.5 2.5 mm²         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - single or multi-stranded       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (20 16), 2x (18 14)         AWG conductors for auxiliary contacts       16 8         • for auxiliary contacts       1000 000	• solid	1 10 mm²
Connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²Type of connectable conductor cross-sections • for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures • with high demand rate acc. to SN 319201 000 000• with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	• stranded	1 10 mm²
contacts• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²Type of connectable conductor cross-sections• for auxiliary contacts2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)- single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section2x (20 16), 2x (18 14)• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures1 000 000• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²Type of connectable conductor cross-sections0.5 2.5 mm²• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (20 16), 2x (18 14)AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures40 %• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	Connectable conductor cross-section for auxiliary	
• finely stranded with core end processing       0.5 2.5 mm²         Type of connectable conductor cross-sections       • for auxiliary contacts         • for auxiliary contacts       2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         - finely stranded with core end processing       2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)         • finely stranded with core end processing       2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)         • at AWG conductors for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       16 8         • for main contacts       16 8         • for auxiliary contacts       20 14         Safety related data       1000 000         Proportion of dangerous failures       40 %         • with low demand rate acc. to SN 31920       40 %         • with high demand rate acc. to SN 31920       73 %	contacts	
Type of connectable conductor cross-sections• for auxiliary contacts- single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (0,5 1.5 mm²), 2x (0,75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor crosssection• for main contacts• for auxiliary contacts20 14Safety related dataB10 value• with high demand rate acc. to SN 3192040 %• with low demand rate acc. to SN 3192073 %	<ul> <li>single or multi-stranded</li> </ul>	0.5 2.5 mm²
• for auxiliary contacts2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)- finely stranded with core end processing2x (20 16), 2x (18 14)at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures1 000 000• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
single or multi-stranded2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)• at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related data1000 000Proportion of dangerous failures1000 000• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	Type of connectable conductor cross-sections	
finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross section16 8• for main contacts16 8• for auxiliary contacts20 14Safety related dataB10 value1 000 000• with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures40 %• with high demand rate acc. to SN 3192073 %	<ul> <li>for auxiliary contacts</li> </ul>	
• at AWG conductors for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       -         • for main contacts       16 8         • for auxiliary contacts       20 14         Safety related data       -         B10 value       -         • with high demand rate acc. to SN 31920       1 000 000         Proportion of dangerous failures       -         • with low demand rate acc. to SN 31920       40 %         • with high demand rate acc. to SN 31920       73 %	— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
AWG number as coded connectable conductor cross section• for main contacts16 8• for auxiliary contacts20 14Safety related dataB10 value1000 000• with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures40 %• with high demand rate acc. to SN 3192073 %	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
sectionImage: constant of the section of	<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
• for main contacts16 8• for auxiliary contacts20 14Safety related dataB10 value1000 000• with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures40 %• with high demand rate acc. to SN 3192073 %	AWG number as coded connectable conductor cross	
<ul> <li>for auxiliary contacts</li> <li>20 14</li> <li>Safety related data</li> <li>B10 value         <ul> <li>with high demand rate acc. to SN 31920</li> <li>1 000 000</li> </ul> </li> <li>Proportion of dangerous failures         <ul> <li>with low demand rate acc. to SN 31920</li> <li>40 %</li> <li>with high demand rate acc. to SN 31920</li> <li>73 %</li> </ul> </li> </ul>	section	
Safety related data       B10 value       • with high demand rate acc. to SN 31920       Proportion of dangerous failures       • with low demand rate acc. to SN 31920       40 %       • with high demand rate acc. to SN 31920       73 %	<ul> <li>for main contacts</li> </ul>	16 8
B10 value       I 000 000         • with high demand rate acc. to SN 31920       1 000 000         Proportion of dangerous failures       I 000 000         • with low demand rate acc. to SN 31920       40 %         • with high demand rate acc. to SN 31920       73 %	<ul> <li>for auxiliary contacts</li> </ul>	20 14
• with high demand rate acc. to SN 319201 000 000Proportion of dangerous failures40 %• with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %	Safety related data	
Proportion of dangerous failures       • with low demand rate acc. to SN 31920       • with high demand rate acc. to SN 31920       73 %	B10 value	
<ul> <li>with low demand rate acc. to SN 31920</li> <li>with high demand rate acc. to SN 31920</li> <li>73 %</li> </ul>	<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	1 000 000
• with high demand rate acc. to SN 31920 73 %	Proportion of dangerous failures	
	• with low demand rate acc. to SN 31920	40 %
Failure rate [FIT]	• with high demand rate acc. to SN 31920	73 %
	Failure rate [FIT]	

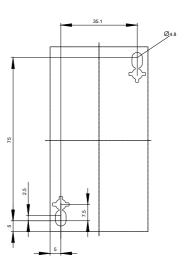


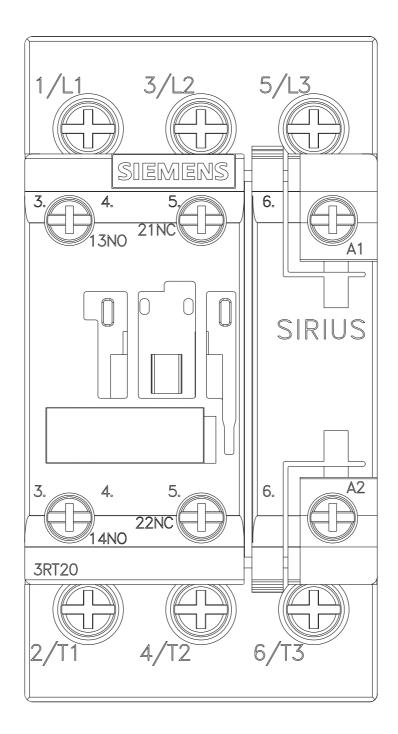
## Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AP00-1AA0/char

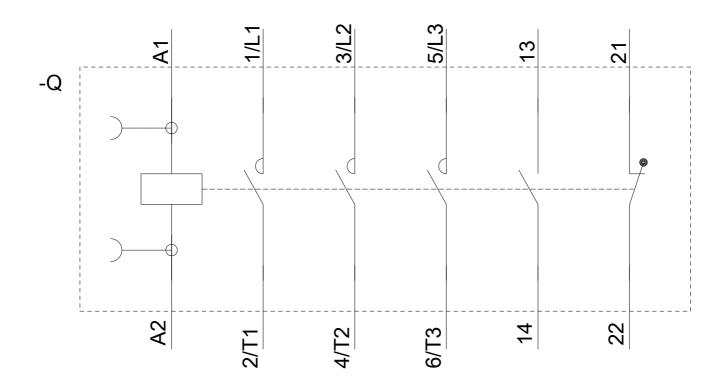
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AP00-1AA0&objecttype=14&gridview=view1











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