SIEMENS

Data sheet 3RT2035-3AN20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
 at AC in hot operating state per pole 	2.2 W
without load current share typical	6.5 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
• 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 	60 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	60 A
value	EE A
 up to 690 V at ambient temperature 60 °C rated value 	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	277
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value at AC-5 curve to 600 V rated value	35 A 52.8 A
at AC-5a up to 690 V rated value	
at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
 up to 500 V for current peak value n=20 rated value 	36.5 A
 up to 690 V for current peak value n=20 rated value 	24 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	24.2 A
 up to 400 V for current peak value n=30 rated value 	24.2 A
 up to 500 V for current peak value n=30 rated value 	24.2 A
 up to 690 V for current peak value n=30 rated value 	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 110 V rated value — 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.	EE A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

— at 24 V rated value	35 A			
— at 60 V rated value	6 A			
— at 220 V rated value	1 A			
— at 440 V rated value	0.1 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	55 A			
— at 60 V rated value	45 A			
— at 110 V rated value	25 A			
— at 220 V rated value	5 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	55 A			
— at 60 V rated value	55 A			
— at 110 V rated value	55 A			
— at 220 V rated value	25 A			
— at 440 V rated value	0.6 A			
— at 600 V rated value	0.35 A			
operating power				
• at AC-2 at 400 V rated value	18.5 kW			
• at AC-3				
— at 230 V rated value	11 kW			
— at 400 V rated value	18.5 kW			
— at 500 V rated value	22 kW			
— at 690 V rated value	22 kW			
• at AC-3e				
— at 230 V rated value	11 kW			
— at 400 V rated value	18.5 kW			
— at 500 V rated value	22 kW			
— at 690 V rated value	22 kW			
operating power for approx. 200000 operating cycles at AC-				
4				
 at 400 V rated value 	11.6 kW			
at 690 V rated value	16.8 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	14.5 kVA			
 up to 400 V for current peak value n=20 rated value 	25.2 kVA			
 up to 500 V for current peak value n=20 rated value 	31.6 kVA			
up to 690 V for current peak value n=20 rated value	28.6 kVA			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=30 rated value	9.6 kVA			
 up to 400 V for current peak value n=30 rated value 	16.8 kVA			
• up to 500 V for current peak value n=30 rated value	21 kVA			
• up to 690 V for current peak value n=30 rated value	28.6 kVA			
short-time withstand current in cold operating state up to				
40 °C	942 At Line minimum group section and to AC 4 rated value			
Ilimited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value			
Ilimited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value			
Ilimited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value			
Iimited to 30 s switching at zero current maximum	241 A; Use minimum cross-section acc. to AC-1 rated value			
Iimited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	5 000 4/b			
• at AC	5 000 1/h			
operating frequency	4 200 4/b			
• at AC-1 maximum	1 200 1/h			
• at AC-2 maximum	750 1/h			
• at AC-3 maximum	1 000 1/h			
• at AC-3e 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	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	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	
	0.9 A
• at 220 V rated value	0.9 A 0.3 A
at 220 V rated valueat 600 V rated value	
	0.3 A
at 600 V rated value	0.3 A 0.1 A
at 600 V rated value contact reliability of auxiliary contacts	0.3 A 0.1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	0.3 A 0.1 A
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

design of the fuse link • for short-circuit protection of the main circuit — with type of accordination 1 required — with type of accordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for switch				
at 200/208 V rated value		7.5 hp		
and 450/480 V rated value and 476/480 rated value and 476/480 rated value and 476/480 rated value and 476/480 rated value core and processing and 476/480 rated value or and processin	•	40.1		
— at 575,000 V rated value Contact rating of auxiliary contacts according to UL Above / P800 Above				
contact rating of auxilliary contacts according to UL hot-circuits protection by prote				
Non-Circuit protection Non-Circuit protection of the main circuit	— at 575/600 V rated value	40 hp		
design of the fuse link • for short-circuit protection of the main circuit — with type of accordination 1 required — with type of accordination 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for switch		A600 / P600		
• for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • statistical mounting dimensions ***All **Coal **(890 V. 100 kA), alk* 50A (690 V. 100 kA), BS88: 63A (415 V. 80 kA) • \$60 (80 V. 100 kA), alk* 50A (690 V. 100 kA), BS88: 63A (415 V. 80 kA) • \$60 (80 V. 100 kA), alk* 50A (690 V. 100 kA), BS88: 63A (415 V. 80 kA) • \$60 (80 V. 100 kA), alk* 50A (690 V. 100 kA), BS88: 63A (415 V. 80 kA) • \$60 (80 V. 100 kA), alk* 50A (690 V. 100 kA), alk* 5	Short-circuit protection			
- with type of assignment 2 required				
with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required statistication incuntary dimensions mounting position for statistication incunting dimensions ****IB0** rotation possible on vertical mounting surface; can be tilted forward and backward by +2-2.5.** on vertical mounting surface; side-by-side mounting for short side by-side mounting ***IB0** rotation possible on vertical mounting surface; side-by-side mounting ***IB0** rotation possible on vertical mounting surface; so and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 **Yes ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on mounting onto 35 mm DIN rail according to DIN EN 60715 ***Pear ward sang-on	·			
- with type of assignment 2 required of in for short-circuit protection of the auxiliary switch required stallation mounting dimensions **Total Community of the auxiliary switch required before the auxiliary switch required stallation mounting of the auxiliary switch required short-circuit protection of the auxiliary switch required specification possible on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface; can be titled forward and backward by 4 × 2.2 5° on vertical mounting surface	 — with type of coordination 1 required 			
For short-circuit protection of the auxiliary switch required statilisation mounting dimensions	— with type of assignment 2 required			
mounting position between the side of the				
### Application possible on vertical mounting surface, can be litted forward and backward by 4-/-22.5° on vertical mounting surface ### side-by-side mounting ### side-by-sid		go: 107. (600 t, 1.11.)		
bekoward by +/- 22.5° on vertical mounting surface side-by-side mounting side-by-side mounting width depth depth 114 mm width 55 mm depth	<u> </u>	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
• side-by-side mounting				
Methods	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
S5 mm	side-by-side mounting	Yes		
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — 10 mm — at the side • for grounded parts — forwards — upwards — 10 mm — at the side • for mm — upwards — 10 mm — at the side — downwards — 10 mm — the side — downwards — 10 mm • for live parts — forwards — 10 mm • for live parts — forwards — 10 mm — upwards — 10 mm • for man current circuit • for main current circuit • for main current circuit • for main current circuit • at contactor for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for AWG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts •	height	114 mm		
evilin side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - the side - forwards - the side - forwards - the side - forwards - the side - downwards - the side - downwards - the side - downwards - to mm - upwards - to mm - downwards - to mm - upwards - to mm - downwards - to mm - upwards - to mm - upwa	width	55 mm		
with side-by-side mounting — forwards — upwards — at the side — or manual o	depth	130 mm		
forwards	required spacing			
upwards 10 mm	 with side-by-side mounting 			
- downwards - at the side	— forwards	10 mm		
- at the side • (or grounded parts - forwards - upwards - at the side - downwards • (or live parts - forwards - upwards • (or live parts - forwards - upwards - forwards - upwards - forwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - at the side - formain current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • finely stranded with core end processing - finely stranded with core end processing • finely stranded with core end pro	— upwards	10 mm		
• for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — to mm — at the side — downwards — to mm — at the side — formainals **Type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Upe of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stran	— downwards	10 mm		
forwards 10 mm	— at the side	0 mm		
- upwards	 for grounded parts 			
- at the side	— forwards	10 mm		
- downwards • for live parts - forwards - upwards - downwards - at the side - at the side - at the side - for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • for finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary conducts • for AWG cables for auxiliary conductor cross	— upwards	10 mm		
for live parts	— at the side	6 mm		
forwards	— downwards	10 mm		
- upwards - downwards - at the side onnections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	• for live parts			
- downwards - at the side onnections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts - finely stranded without core end processing • for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	— forwards	10 mm		
- at the side 6 mm connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 1.5 mm² • finely stranded without core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 2.5 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) • for AWG cables for auxiliary contacts 2x (20 14) AWG number as coded connectable conductor cross	— upwards	10 mm		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	— downwards	10 mm		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	— at the side	6 mm		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil spring-type terminals 2x (1 35 mm²) 1 35 mm²) 2x (1 35 mm²) 2x (20 14) AWG number as coded connectable conductor cross	Connections/ Terminals			
of roauxiliary and control circuit at contactor for auxiliary contacts of magnet coil spring-type terminals type of connectable conductor cross-sections for main contacts of solid or stranded of finely stranded with core end processing connectable conductor cross-section for main contacts of finely stranded with core end processing connectable conductor cross-section for main contacts of finely stranded with core end processing connectable conductor cross-section for auxiliary contacts osolid or stranded of finely stranded with core end processing of finely stranded with core end processing of finely stranded without core end processing of or auxiliary contacts osolid or stranded of roauxiliary contacts of or auxiliary contacts of roauxiliary co	type of electrical connection			
 at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing finely stranded with core end processing solid or stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for auxiliary contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts finely stranded with core end processing for auxiliary contacts finely stranded with core end processing for AWG cables for auxiliary contacts for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	for main current circuit	screw-type terminals		
 of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 2.5 mm²) finely stranded without core end processing finely stranded without core end processing 2x (0.5 2.5 mm²) finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	 for auxiliary and control circuit 	spring-loaded terminals		
type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	 at contactor for auxiliary contacts 	Spring-type terminals		
 solid or stranded finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 2.5 mm²) finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 2x (20 14) AWG number as coded connectable conductor cross	of magnet coil	Spring-type terminals		
 ◆ finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts ◆ finely stranded with core end processing ◆ solid or stranded ◆ finely stranded with core end processing ◆ finely stranded without core end processing ◆ finely stranded without core end processing ◆ for auxiliary contacts ← solid or stranded ← solid or stranded ← finely stranded with core end processing − finely stranded with core end processing − finely stranded with core end processing ← for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	type of connectable conductor cross-sections for main contacts			
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • for auxiliary contacts • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing • zx (0.5 2.5 mm²) • finely stranded with core end processing • zx (0.5 2.5 mm²) • finely stranded without core end processing • zx (0.5 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	 solid or stranded 	2x (1 35 mm²), 1x (1 50 mm²)		
 finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts avx (0.5 2.5 mm²) for AWG cables for auxiliary contacts avx (0.5 2.5 mm²) avx (0.5 2.5 mm²)<td> finely stranded with core end processing </td><td>2x (1 25 mm²), 1x (1 35 mm²)</td>	 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 2.5 mm²) — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	connectable conductor cross-section for main contacts			
 solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts 4 AWG number as coded connectable conductor cross 	 finely stranded with core end processing 	1 35 mm²		
 finely stranded with core end processing finely stranded without core end processing for connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	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 — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	 solid or stranded 	0.5 2.5 mm²		
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without 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 14) AWG number as coded connectable conductor cross	 finely stranded with core end processing 	0.5 1.5 mm²		
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	 finely stranded without core end processing 	0.5 2.5 mm²		
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14) AWG number as coded connectable conductor cross	type of connectable conductor cross-sections			
 — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 2x (0.5 1.5 mm²) 2x (20 14)	• for auxiliary contacts			
 — finely stranded with core end processing — finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 2x (0.5 2.5 mm²) 2x (20 14)	— solid or stranded	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 14) AWG number as coded connectable conductor cross	 finely stranded with core end processing 	2x (0.5 1.5 mm²)		
• for AWG cables for auxiliary contacts 2x (20 14) AWG number as coded connectable conductor cross				
AWG number as coded connectable conductor cross				
section	<u> </u>			
	section			

• for main contacts	18 1
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>





Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping	other	Railway	Dangerous Good	Environment



Confirmation

Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-3AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AN20

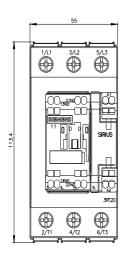
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

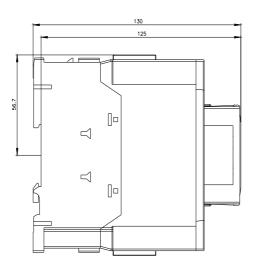
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AN20

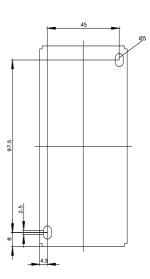
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

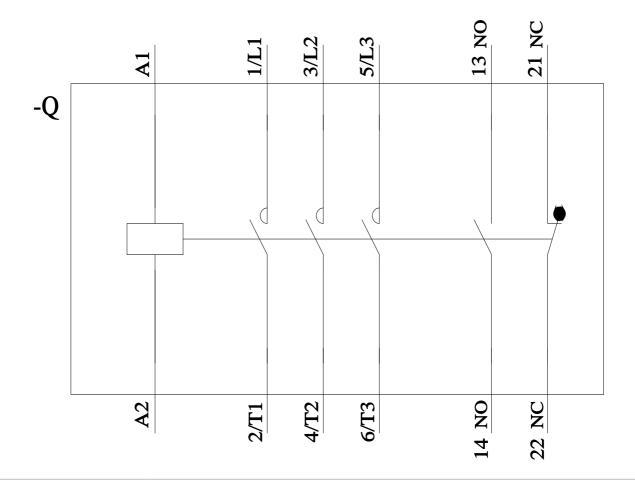
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3AN20&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AN20&objecttype=14&gridview=view1









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