SIEMENS

Data sheet 3RT2035-1AN20



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, screw 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	17.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	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 aug 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 sets d valve.	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	25 A
— at 24 V rated value	35 A
— at 60 V rated value	6.4
— at 220 V rated value	1.4
— 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-	
■ at 400 V rated value	11.6 kW
at 690 V rated value at 690 V rated value	16.8 kW
	IO.O KVV
operating apparent power at AC-6a	14.5 kVA
up to 230 V for current peak value n=20 rated value	25.2 kVA
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	31.6 kVA
·	28.6 kVA
up to 690 V for current peak value n=20 rated value	20.0 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 up to 400 V for current peak value n=30 rated value	16.8 kVA
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	21 kVA
 up to 500 V for current peak value n=30 rated value 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	20.0 11/7
40 °C	
• limited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	241 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	196 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	1 200 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
	000 1/11
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	0.3 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	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
for single-phase AC motor— at 110/120 V rated value	3 hp

- at 200 V ratest value		
		7.5 hp
	·	
	— at 200/208 V rated value	·
	— at 220/230 V rated value	15 hp
contact rating of auxiliary contacts according to U. A600 / P600 A608 gro of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — side-by-side mounting of immanions — state-ling method — side-by-side mounting — state-ling method — side-by-side mounting — with side by-side mounting — side-by-side mounting — with side by-side mounting —	— at 460/480 V rated value	30 hp
Short-circuit protection design of the fuse link - of with type of coordination it required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - of whort-circuit protection of the auxiliary switch required - with type of assignment 2 required - with side-by-side mounting - with type of assignment 2 required - with	— at 575/600 V rated value	40 hp
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 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 • 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 • fastening method • side-by-side mounting • for switch • side-by-side mounting • with sole-by-side mounting • with sole-by-side mounting • with sole-by-side mounting • with sole-by-side mounting • for grounded parts • for grounded parts • for grounded parts • for grounded parts • for five parts • for live parts • for live parts • for live parts • for live parts • for nownwards • for main current circuit • for auxiliary and control circuit • for sub-strained with core and processing • finely stranded with core and processing • for AWG acides for auxiliary contacts • finely stranded with core end processing • for AWG cables for auxiliary contacts • for faviliary contacts • for faviliar		A600 / P600
- for short-circuit protection of the main circuit - with type of contrination 1 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 - 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 auxiliary contacts - for switch au		
	design of the fuse link	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required mounting possible on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by +1-22.5" on vertical mounting surface; can be tilted forward and backward by -1-22.5 mm backward by mind and surface; can be tilted forward and backward by -1-22.5	•	
	 — with type of coordination 1 required 	
• for short-circuit protection of the auxiliary switch required installation/mounting dimensions **Transport	— with type of assignment 2 required	· ·
mounting position mounting position fastening method side-by-side mounting yes width depth 114 mm width depth 150 mm - forwards - downwards - downwards - of orwards - of		
mounting position #-150° rotation possible on vertical mounting surface; can be litted forward and backward by 47-25° on vertical mounting surface; can be litted forward and backward by 47-25° on vertical mounting surface. ### Side-by-side mounting ### Side-by-side mounting ### Side-by-side mounting ### With side-by-side mounting ### Side-by-side-side-		30. 1077 (000 V, 1 10 V)
astering method side-by-side mounting Pes Nolght 114 mm width 55 mm depth 130 mm required spacing with side-by-side mounting - forwards - upwards - downwards - of orwards - forwards - forwards - forwards - ownwards - downwards - to for grounded parts - forwards - upwards - upwards - to man - at the side - downwards - upwards - to man - at the side - downwards - to man - at the side - downwards - to man - at the side - downwards - to fire live parts - forwards - for in in current circuit - for availary and control circuit - of a contactor for auxiliary contacts - sind or stranded - finely stranded with core end processing connectable conductor cross-section for main contacts - sind or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for favic ables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for Man cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - finely stranded with core end processing - for availary contacts - solid or stranded - fin		+/-180° rotation possible on vertical mounting surface: can be tilted forward and
Neight		
height width 55 mm dotpth 55 mm dotpth 130 mm required spacing • with side-by-side mounting — lorwards	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
with dopth dopth 130 mm required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — 10 mm — at the side • for grounded parts — forwards — 10 mm — at the side • for grounded parts — forwards — at the side — downwards — 10 mm — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards • for live parts — forwards — upwards — upwards — to mm — to realizing and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for auxiliary and control circuit • screw-type terminals 10 pe 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 main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing for an Wice Sables for auxiliary contacts • for a	side-by-side mounting	Yes
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — for live parts — for live parts — forwards — the side — downwards — to mm — upwards — for live parts — forwards — upwards — to mm — upwar	height	114 mm
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — of rorgounded parts — forwards — the side — of many and a side of the side — downwards — the side — downwards — the side — downwards — to many — at the side — downwards — to many — of rowards — to many — of rowards — to many — to the side — downwards — to many — to many — to many — the side — downwards — downwards — downwards — downwards — to many — at the side — downwards — downwards — downwards — to many — at the side — for many — at the side — for many — to reminals Type of electrical connection — for main current circuit — for auxiliary and control circuit — so crew-type terminals — so from a great connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing connectable conductor cross-section for main contacts — solid or stranded — finely stranded with core end processing — to a waxiliary contacts — solid or stranded — finely stranded with core end processing — to a waxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing — for MCS cables for auxiliary contacts — solid or stranded — finely stranded with core end processing	width	55 mm
with side-by-side mounting — forwards — upwards — downwards — at the side — one of grounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards — upwards — at the side — downwards — one of for live parts — forwards — one of for live parts — forwards — forwards — upwards — upwards — one of live parts — forwards — upwards — upwards — upwards — upwards — upwards — one of live parts — one of live parts — one of live parts — upwards — upwards — upwards — the side — one one of live parts — at the side — one one of live parts — the side — one one of live parts — one of live parts — upwards — upwards — to mm — upwards — one	depth	130 mm
forwards 10 mm	required spacing	
- upwards	 with side-by-side mounting 	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • for live parts - downwards - downwards - downwards - for live parts - forwards - upwards - downwards - upwards - downwards - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - secret-type terminals - of magnet coil - 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 - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing - for fawG cables for auxiliary contacts - solid or stranded - finely stra	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards - upwards - at the side - downwards - at the side - domnound the side - at the s	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm — upwards — 10 mm — downwards — 10 mm — downwards — 10 mm — downwards — 10 mm — at the side — 6 mm Connections/ Terminals type of electrical connection • for main current circuit — or 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 • 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 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-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables 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 - solid or	— downwards	10 mm
- forwards 10 mm 1	— at the side	0 mm
- upwards	• for grounded parts	
- at the side — downwards — 10 mm — 10	— forwards	10 mm
- downwards • for live parts - forwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • 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 • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables 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 - 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 conductor cross-section - for main contacts	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections 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 connectable conductor cross-sections 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 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 2x (1 35 mm² 2 35 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 2x (0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts 18 1	— at the side	6 mm
forwards	— downwards	10 mm
- upwards	• for live parts	
- downwards - at the side 6 mm Connections/ Torminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • of magnet coil Screw-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 • solid or 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 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts 18 1	— forwards	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-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 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid or 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) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)	— 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 connectable conductor cross-section 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 connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • 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 section • for main contacts 18 1	— 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 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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts 18 1	— at the side	6 mm
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • 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 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 very of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing very of connectable conductor cross-sections • for auxiliary contacts — solid or stranded very of connectable conductor cross-sections • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts 18 1	Connections/ Terminals	
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-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 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 type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for auxiliary contacts finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section for main contacts 18 1 	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing finely stranded with core end processing minely stranded minely stranded with core end processing minely stranded minely stranded minely stranded with core end processing minely strande	• for main current circuit	screw-type terminals
• 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 • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm² 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 - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 18 1	 for auxiliary and control circuit 	screw-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 timely stranded with core end processing 1 35 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 2.5 mm² 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 • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 18 1	 at contactor for auxiliary contacts 	Screw-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 solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts 18 1 	of magnet coil	Screw-type terminals
 • 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 type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — 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) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section • for main contacts 18 1 	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 type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — 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) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 18 1	 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 for auxiliary contacts solid or stranded for auxiliary contacts finely stranded with core end processing finely stranded with core end processing for AWG cables for auxiliary contacts for main contacts for main contacts 18 1 	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 type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts 18 1	connectable conductor cross-section for main contacts	
 solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing for AWG cables for auxiliary contacts for AWG connectable conductor cross section for main contacts 18 1 	finely stranded with core end processing	1 35 mm²
 ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ 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 section ◆ for main contacts 18 1 	connectable conductor cross-section for auxiliary contacts	
type of connectable conductor cross-sections • 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 section • for main contacts 18 1	 solid or stranded 	0.5 2.5 mm²
 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 section for main contacts 18 1 	finely stranded with core end processing	0.5 2.5 mm²
 — solid or stranded — finely stranded with core end processing ● for AWG cables for auxiliary contacts ■ for main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross section ■ for main contacts 18 1 	type of connectable conductor cross-sections	
 — finely stranded with core end processing ● for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section ● for main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 	• for auxiliary contacts	
 ◆ for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section ◆ for main contacts 2x (20 16), 2x (18 14) 18 1 	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
AWG number as coded connectable conductor cross section • for main contacts 18 1	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
section ● for main contacts 18 1	for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
• for auxiliary contacts 20 14	• 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
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
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



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).

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)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AN20

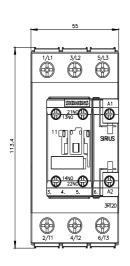
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

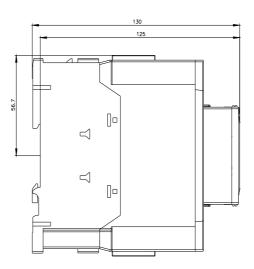
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AN20

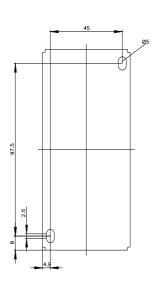
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

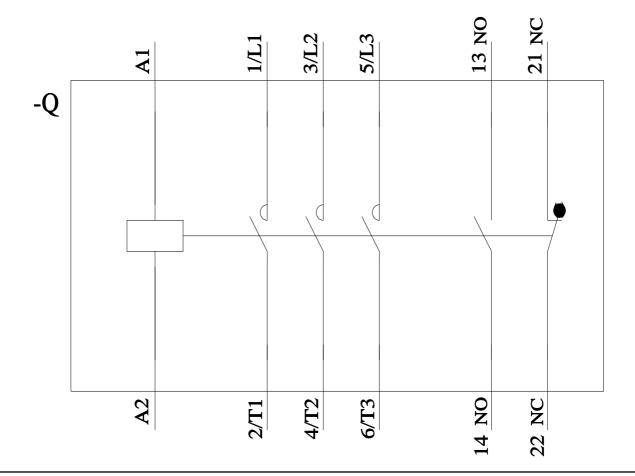
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AN20\&lang=enderse$

Characteristic: Tripping characteristics, I²t, Let-through current









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