SIEMENS

Data sheet 3RT2028-2AP00



Power contactor, AC-3 38 A, 18.5 kW / 400 V 1 NO + 1 NC, 230 V AC 50 Hz, 3-pole, size S0 Spring-type terminals

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	9.6 W
 at AC in hot operating state per pole 	3.2 W
 without load current share typical 	9.8 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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 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 	50 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
	42 A
 up to 690 V at ambient temperature 60 °C rated value 	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
• at AC-5b up to 400 V rated value	31.5 A
at AC-5b up to 400 v rated value at AC-6a	01.0 A
	30.8 A
 up to 230 V for current peak value n=20 rated value 	30.6 A
— up to 400 V for current peak value n=20 rated	30.8 A
value	00.071
— up to 500 V for current peak value n=20 rated	30.8 A
value	
 up to 690 V for current peak value n=20 rated 	21 A
value	
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	20.5 A
	20.5.4
 up to 400 V for current peak value n=30 rated value 	20.5 A
— up to 500 V for current peak value n=30 rated	21.4 A
value	
— up to 690 V for current peak value n=30 rated	21 A
value	
minimum cross-section in main circuit at maximum AC-1	10 mm²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
at 400 V rated value at 690 V rated value	12 A
operational current	127
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
	4.5 A 1 A
— at 220 V rated value	
— 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 reted value.	2F A
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	

— at 24 V rated value	35 A		
— at 110 V rated value	35 A		
— at 220 V rated value	35 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	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		
 with 2 current paths in series at DC-3 at DC-5 			
— at 24 V rated value	35 A		
— at 110 V rated value	15 A		
— at 220 V rated value	3 A		
— at 440 V rated value	0.27 A		
— at 600 V rated value	0.16 A		
 with 3 current paths in series at DC-3 at DC-5 			
— at 24 V rated value	35 A		
— at 110 V rated value	35 A		
— at 220 V rated value	10 A		
— at 440 V rated value	0.6 A		
— at 600 V rated value	0.6 A		
operating power			
• at AC-3			
— at 230 V rated value	11 kW		
— at 400 V rated value	18.5 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	18.5 kW		
• at AC-3e			
— at 230 V rated value	11 kW		
— at 400 V rated value	18.5 kW		
— at 500 V rated value	18.5 kW		
— at 690 V rated value	18.5 kW		
operating power for approx. 200000 operating cycles			
at AC-4			
 at 400 V rated value 	6 kW		
at 690 V rated value	10.3 kW		
operating apparent power at AC-6a			
 up to 230 V for current peak value n=20 rated value 	12.2 kVA		
 up to 400 V for current peak value n=20 rated value 	21.3 kVA		
 up to 500 V for current peak value n=20 rated value 	26.6 kVA		
up to 690 V for current peak value n=20 rated value	25 kVA		
operating apparent power at AC-6a			
 up to 230 V for current peak value n=30 rated value 	8.1 kVA		
 up to 400 V for current peak value n=30 rated value 	14.2 kVA		
 up to 500 V for current peak value n=30 rated value 	18.5 kVA		
• up to 690 V for current peak value n=30 rated value	25 kVA		
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	593 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 60 s switching at zero current maximum	152 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	750 1/h		
at AC-3 maximum	750 1/h		

at AC-3e maximum 250 1/h Control circuit/ Control type of voltage of the control supply voltage 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 apparent pick-up power of magnet coil at AC at 50 Hz Inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz coil at 4C at 50 Hz closing delay at AC at AC at AC at AC arcing time control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxilliary contacts instantaneous contact number of NC contacts for auxillia
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at 60 V rated value 6 A
ar Tru 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 34 A
at 600 V rated value 27 A
yielded mechanical performance [hp]
yielded mechanical performance [hp]
yielded mechanical performance [hp] • for single-phase AC motor

at 200/230 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 575/500 V rated value value value by of coordination 1 required value by of sasignment 2			
at 460/480 V rated value 25 fp contact rating of auxiliary contacts according to UL Short-circuit protection design of the five sink • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived • for short-circuit protection of the auxiliary switch equived and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) required forward and backward by 10 (600 V .1 kA) requ	— at 200/208 V rated value	10 hp	
	 at 220/230 V rated value 	,	
A600 / P600			
Short-circuit protection design of the fuse link of short-circuit protection of the main circuit with type of coordination 1 required GS 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) of assignment 2 required GS 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA) of a short-circuit protection of the auxiliary switch required meaning in the common of the auxiliary switch required of short-circuit protection of the auxiliary switch required space of short-circuit protection of the auxiliary switch required space of short-circuit of steeling method of steeling method of short-circuit of short-c			
dosign of the fuse link		A600 / P600	
For short-circuit protection of the main circuit — with type of assignment 2 required	Short-circuit protection		
- with type of coordination 1 required (415% 800%, 100% A), aMr. SOA (690%, 100% A), 888: 125A (415%, 800%) - with type of assignment 2 required (50 Key Soa, 100% A), aMr. SOA (690%, 100% A), 888: 50A (415%, 800%) - for short-circuit protection of the auxiliary switch required (50 Key Soa, 100% A), aMr. SOA (690%, 100% A), BS88: 50A (415%, 800%) - for short-circuit protection of the auxiliary switch required (50 Key Soa, 100% A), aMr. SOA (690%, 100% A), BS88: 50A (415%, 800%) - for short-circuit protection of the auxiliary switch required mounting out and search of the search of	•		
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch efor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position +/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting rail according to DIN EN 60715 * Side-by-side mounting - side-by-side mounting - forwards - downwards - downwards - forwards - forwards - forwards - forwards - forwards - of mm - downwards	•		
with type of assignment 2 required 80kA) • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • with side-by-side mounting • forwards - upwards - downwards - at the side • of orgrounded parts - forwards - at the side - downwards - at the side - downwards - of live parts - forwards - upwards - forwards - upwards - of live parts - forwards - upwards - of live parts - forwards - upwards - forwards - upwards - forwards - upwards - forwards - ownwards - forwards - forwards - ownwards - for will a side by side farming side according to Din Mm - of an auxiliary contacts • for main current circuit • of an auxiliary and control circuit • at contactor for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finel	 — with type of coordination 1 required 		
of or short-circuit protection of the auxillary switch required metallation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting out 35 mm standard mounting surface; can be tilted forward and beckward by +½ 22.5° on vertical mounting surface screw and snap-on mounting note 35 mm standard mounting rail according to DIN EN 60715 vertical satisfies a screw and snap-on mounting note 35 mm standard mounting rail according to DIN EN 60715 Yes height 102 mm width 45 mm 97 mm required spacing • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • the side — downwards — upwards — on mm • for grounded parts — for younded parts — the side — downwards • for live parts — upwards • for live parts — the side — downwards • for main current circuit • for main contacts — solid — solid or stranded — finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without co	— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,	
mounting position mounting position fastening method side-by-side mounting - interest side - ownwards - ownw		'	
mounting position +-180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4-2.25 or on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 +	<u> </u>		
forward and backward by + 22.5" on vertical mounting surface side-by-side mounting e side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — downwards — at the side — downwards — to fir live parts — for live parts — othorwards — upwards — to fir live parts — for live parts — for for indeparts — othorwards — to fir live parts — othorwards — at the side — downwards — othorwards — to fir live parts — for forwards — to fir live parts — for forwards — at the side — downwards — to fir live parts — for live parts — for live parts — othorwards — the side — othorwards — the side — othorwards — the side — for min undered circuit — of or auxiliary and control circuit — of or main contacts — solid — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts connectable conductor cross-section for main contacts — solid — solid — if lively stranded with core end processing — finely		+/-180° rotation possible on vertical mounting surface; can be tilted	
e side-by-side mounting Peight width depth required spacing • with side-by-side mounting — forwards — upwards — at the side — of orgrounded parts — I forwards — the side — ownwards — to mm — at the side — downwards — to mm — the side — ownwards — ownwards — to mm — the side — ownwards — ow			
height width 45 mm depth 97 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — downwards 10 mm — of regrounded parts — forwards 10 mm — upwards 10 mm — upwards 10 mm — at the side 0 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — of rorwards 10 mm — of for live parts — forwards 10 mm — upwards 10 mm — of the parts — forwards 10 mm — upwards 10 mm — of the parts — forwards 10 mm — of the parts — forwards 10 mm — of mail cornection of the parts — of mail cornection of the parts — of mail cornection of the parts — of mailery and control circuit of a connection of main cornectable conductor cross-sections — for main contacts — solid 2x (1 10 mm²) — solid or stranded with core end processing of the parts of the	fastening method		
width depth 97 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side • for grounded parts — forwards — upwards — at the side • for mounted parts — for live parts — at the side Connections/ 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 — solid — solid — 2x (1 10 mm²) — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing			
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — to mm — for grounded parts — for live parts — for live parts — for live parts — for wards — 10 mm • for live parts — forwards — 10 mm — upwards — 10 mm — upwards — 10 mm — upwards — the side — downwards — 10 mm — upwards — the side — of mm — upwards — the side — of mm — upwards — the side — so mm — upwards — the side — so mm — the side — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — to mm — upwards — upwards — upwards — upwards — upwards — upwards — to mm — upwards — upwards — upwards — upwards — upwards — upwards — to mm — upwards — upwards — upwards — upwards — upwards — to mm — upwards — upwards — upwards — upwards — upwards — upwards — to mm — upwards			
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side of for grounded parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - forwards - upwards - downwards - upwards - downwards - downwards - at the side - downwards - at the side - domnards - at the side - formal corrections - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - solid - solid - solid or stranded - finely stranded with our e end processing - solid - solid - solid - stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded			
with side-by-side mounting	depth	97 mm	
forwards upwards upwards downwards at the side downwards at the side downwards for grounded parts forwards upwards upwards upwards downwards upwards downwards upwards for inverparts forwards upwards downwards upwards upwards upwards upwards downwards upwards downwards upwards downwards downwards downwards downwards downwards downwards upwards downwards down			
- upwards	with side-by-side mounting		
- downwards - at the side • for grounded parts - forwards - upwards - at the side • for mm - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - upwards - forwards - downwards - downwards - downwards - downwards - at the side - downwards - downwards - at the side - for mm - the side - for mm - the side - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - of magnet coil - of magnet coil - for main contacts - solid - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid - at AWG cables for main contacts - solid - stranded - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - stranded - finely stranded without core end processing - at AWG cables for main contacts - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded wi	— 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 - downwards - upwards - downwards - downwards - at the side - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— upwards	10 mm	
• for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — ownwards — 10 mm • for live parts — forwards — upwards — downwards — 10 mm — downwards — at the side — for main current circuit — for auxiliary and control circuit — of or auxiliary and control circuit — so for auxiliary contacts — solid — solid — solid — solid or stranded — finely stranded without core end processing — at AWG cables for main contacts — solid — at AWG cables for main contacts — solid — solid — at AWG cables for main contacts — solid — solid — solid — solid or stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts — solid — solid — solid — solid — solid or stranded — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— downwards	10 mm	
- forwards - upwards - at the side - downwards • for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side - formal contection • for main current circuit • for auxiliary and control circuit • of or auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • stranded • finely stranded with core end processing • at finely stranded with core end processing • at finely stranded with core end processing • at finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded without core end processing	— at the side	0 mm	
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Torminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main currant directions/ • at contactor for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely contacts	 for grounded parts 		
- at the side - downwards - for live parts - for wards - upwards - upwards - downwards - at the side - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - of magnet coil - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - solid - at AWG cables for main contacts - solid - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - finely stranded without core end processin	— forwards	10 mm	
- downwards • for live parts - forwards - upwards - downwards - at the side Connections/ 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 - solid or stranded - finely stranded with out core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— upwards	10 mm	
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— at the side	6 mm	
- forwards	— downwards	10 mm	
- upwards - downwards - at the side Connections/ 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 - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely cornectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary	for live parts		
- downwards - at the side Connections/ Terminals type of electrical connection	— forwards	10 mm	
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 10 mm²) - solid or stranded 2x (1 10 mm²) - finely stranded with core end processing 2x (1 6 mm²) • at AWG cables for main contacts 2x (18 8) connectable conductor cross-section for main contacts • solid 1 10 mm² • stranded 5 stranded with core end processing 1 6 mm² • finely stranded with core end processing 1 6 mm² connectable conductor cross-section for auxiliary contacts	— 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 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) - at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— 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 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid styne of connectable conductor cross-sections • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely connectable conductor cross-section for auxiliary contacts	— at the side	6 mm	
• 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 — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • solid • at AWG cables for main contacts • solid • solid • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • solid • 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 • finely conductor cross-section for auxiliary contacts **Total carriage spring-loaded terminals **Spring-type terminals	Connections/ Terminals		
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts	type of electrical connection		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of for main contacts - solid - solid or stranded - finely stranded without core end processing of at AWG cables for main contacts - solid connectable conductor cross-section for main contacts - solid - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - finely stranded without core end processing - finely strand	• for main current circuit	spring-loaded terminals	
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of for main contacts - solid - solid or stranded - finely stranded without core end processing of at AWG cables for main contacts - solid connectable conductor cross-section for main contacts - solid - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - solid - time to the time to	 for auxiliary and control circuit 	spring-loaded terminals	
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for main contacts • solid • stranded • 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	 at contactor for auxiliary contacts 		
 for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts for mm² 1 6 mm² 1 6 mm² connectable conductor cross-section for auxiliary contacts 	of magnet coil		
 for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 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 - at AWG cables for main contacts - at AWG cables for main contacts - solid - stranded - stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - connectable conductor cross-section for auxiliary contacts	• for main contacts		
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 2x (1 10 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm²	— solid	2x (1 10 mm²)	
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts at a solid stranded 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 contacts 	— solid or stranded		
 finely stranded without core end processing at AWG cables for main contacts at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded without core end processing finely contacts connectable conductor cross-section for auxiliary contacts 	 finely stranded with core end processing 		
connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 1 10 mm² 1 6 mm² 1 6 mm²	 finely stranded without core end processing 	2x (1 6 mm²)	
connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely connectable conductor cross-section for auxiliary contacts - to main contact cross-section for main contact cross-section cross-section cross-section cross-section cross-section cross-section cross-section cross-section	 at AWG cables for main contacts 	2x (18 8)	
 stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 6 mm² connectable conductor cross-section for auxiliary contacts 			
 finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 	• solid	1 10 mm²	
• finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 1 6 mm²	• stranded	1 10 mm²	
◆ finely stranded without core end processing 1 6 mm² connectable conductor cross-section for auxiliary contacts	 finely stranded with core end processing 	1 6 mm²	
connectable conductor cross-section for auxiliary contacts		1 6 mm²	
• solid or stranded 0.5 2.5 mm ²	connectable conductor cross-section for auxiliary		
· · · · · · · · · · · · · · · · · · ·	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 	2x (0.5 2.5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²)	
 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 at AWG cables for auxiliary contacts 	2x (20 14)	
AWG number as coded connectable conductor cross section		
 for main contacts 	18 8	
 for auxiliary contacts 	20 14	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
B10 value with high demand rate according to SN 31920	450 000	
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 y	
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 Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping o

other



Confirmation



Confirmation

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=3RT2028-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-2AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2AP00

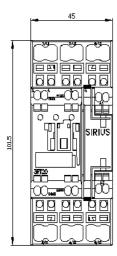
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

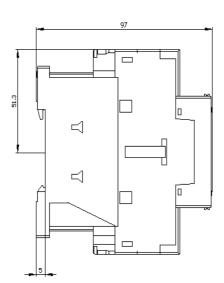
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-2AP00&lang=en

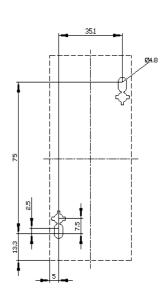
Characteristic: Tripping characteristics, I2t, Let-through current

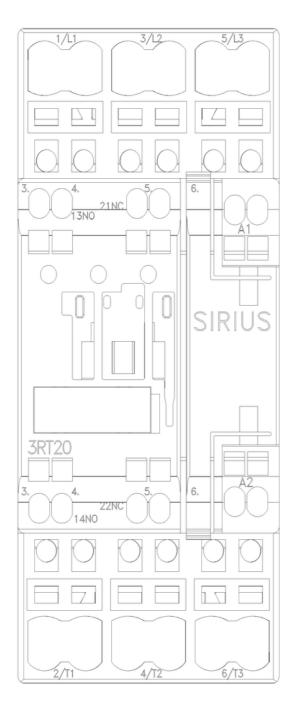
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2AP00/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-2AP00&objecttype=14&gridview=view1









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