SIEMENS

Data sheet 3RT2018-2AN22



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 220 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	3 W
 at AC in hot operating state per pole 	1 W
 without load current share typical 	5.7 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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
 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	95 %

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	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	00.4
 up to 690 V at ambient temperature 60 °C rated value 	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	0.571
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	9.6 A
— up to 400 V for current peak value n=20 rated value	9.6 A
 up to 500 V for current peak value n=20 rated value 	9.6 A
 up to 690 V for current peak value n=20 rated value 	8.9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	6.6 A
 up to 400 V for current peak value n=30 rated value 	6.4 A
up to 500 V for current peak value n=30 rated value	6.4 A
 up to 690 V for current peak value n=30 rated value 	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 110 v rated value — at 220 V rated value	1.6 A
	0.8 A
— at 440 V rated value	
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1 at 24 V sets d valve.	20.4
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

at 24 V rated value	
 — at 110 V rated value ■ with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 24 V rated value — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value 	
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 60 V rated value at 110 V rated value at 110 V rated value with 3 current paths in series at DC-3 at DC-5 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value 7.5 kW 	
 — at 24 V rated value — at 60 V rated value — at 110 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value 7.5 kW 	
- at 60 V rated value	
— at 110 V rated value ■ with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at AC-2 at 400 V rated value ■ at AC-3 — at 230 V rated value — at 400 V rated value 7.5 kW	
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 20 A — at 60 V rated value 20 A — at 110 V rated value 1.5 A — at 220 V rated value 0.2 A — at 600 V rated value 0.2 A — at 600 V rated value 7.5 kW • at AC-2 at 400 V rated value 7.5 kW	
- at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A operating power ■ at AC-2 at 400 V rated value 7.5 kW ■ at AC-3 - at 230 V rated value 4 kW - at 400 V rated value 7.5 kW	
- at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A operating power • at AC-2 at 400 V rated value 7.5 kW • at AC-3 - at 230 V rated value 4 kW - at 400 V rated value 7.5 kW	
- at 60 V rated value 20 A - at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A operating power	
— at 110 V rated value 20 A — at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A operating power	
— at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A operating power ■ at AC-2 at 400 V rated value 7.5 kW ■ at AC-3 — at 230 V rated value 4 kW — at 400 V rated value 7.5 kW	
— at 440 V rated value 0.2 A — at 600 V rated value 0.2 A operating power ■ at AC-2 at 400 V rated value 7.5 kW ■ at AC-3 — at 230 V rated value 4 kW — at 400 V rated value 7.5 kW	
— at 600 V rated value 0.2 A operating power	
operating power	
 at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value 5 kW 	
 at AC-3 — at 230 V rated value — at 400 V rated value 7.5 kW 	
 at 230 V rated value at 4 kW at 400 V rated value 7.5 kW 	
— at 400 V rated value 7.5 kW	
— at 500 V rated value 7.5 kW	
— at 690 V rated value 7.5 kW	
• at AC-3e	
— at 230 V rated value 4 kW	
— at 400 V rated value 7.5 kW	
— at 500 V rated value 7.5 kW	
— at 690 V rated value 7.5 kW	
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value 2.5 kW	
• at 690 V rated value 3.5 kW	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value 3.8 kVA	
• up to 400 V for current peak value n=20 rated value 6.6 kVA	
• up to 500 V for current peak value n=20 rated value 8.3 kVA	
• up to 690 V for current peak value n=20 rated value 10.6 kVA	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 2.5 kVA	
• up to 400 V for current peak value n=30 rated value 4.4 kVA	
• up to 500 V for current peak value n=30 rated value 5.5 kVA	
• up to 690 V for current peak value n=30 rated value 7.6 kVA	
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum 300 A; Use minimum cross-section acc. to AC-1 rated value)
• limited to 5 s switching at zero current maximum 169 A; Use minimum cross-section acc. to AC-1 rated value	;
• limited to 10 s switching at zero current maximum 128 A; Use minimum cross-section acc. to AC-1 rated value	÷
• limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at AC 10 000 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 750 1/h	
• at AC-4 maximum 250 1/h	
Control circuit/ Control	
type of voltage of the control supply voltage AC	
control supply voltage at AC	
• at 50 Hz rated value 220 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	37 VA
● at 60 Hz	33 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.75
apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 VA
● at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC 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	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	4 hn
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	2 hn
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	

First short-circuit protection of the main circuit with type of assignment 2 required gG, SDA (680V,100kA), BMS 25A (680V,100kA), BMS 55A (415V,80KA) gG, SDA (680V,100kA), BMS 55A (680V,100k		
with type of contination 1 required 96: 50A (600V, 100AA), and: 25A (600V, 100AA), BSS8: 50A (415V,80BAA) 96: 25A (600V, 100AA), BSS8: 50A (415V,80BAA) 96: 25A (600V, 100AA), BSS8: 25A (415V,80BAA) 96: 25A (600V,80AA)	design of the fuse link	
- with tipe of resignment 2 required 6 of 50 cash (1900 V, 19 kA), abit 20A (1900 V, 19 kA) and (1900 V, 19 kA) (1900 V, 19 kA		O FOA (000) (400) A) AA OFA (000) (400) A) BOOO FOA (445) (00) A)
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Marchael for invariency dimensions Marchael for invarience Mar		
mounting position #.4160* rotation possible on vertical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical mounting surface; can be litted forward and backward vy 4.22 5* normical wards and surface; can be litted forward and backward vy 4.22 5* normical wards and surface; can be litted forward and backward vy 4.22 5* normical wards and surface; can be litted forward and backward vy 4.22 5* normical wards and surface; can be litted forward and backward vy 4.22 5* normical wards and surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and backward vy 4.22 5* normical surface; can be litted forward and vy 4.22 5* normical surface; can be litted forward and vy 4.22 5* normical surface; can be litted f		gG: 10 A (500 V, 1 KA)
Sacksvaride mounting surface Sacksvaride mounting surface Sacksvaride mounting Sack		1/190° rotation possible on vertical mounting ourface; can be tilted forward and
Meight	mounting position	
Meditable	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Width 46 mm 73 mm 74 m	side-by-side mounting	Yes
Part	height	70 mm
The specifical connectable conductor cross-section for main contacts 10 mm	width	45 mm
• with side-by-side mounting	depth	73 mm
forwards	required spacing	
upwards	with side-by-side mounting	
downwards at the side 0 mm at the side 0 mm at the side 10 mm forwards 10 mm forwards 10 mm at the side 6 mm downwards 10 mm downwards 10 mm downwards 10 mm downwards 10 mm forwards 10 mm forwards 10 mm downwards 10 mm downwards 10 mm at the side 6 mm downwards 10 mm at the side 10 mm at	— forwards	10 mm
- at the side	·	10 mm
• for grounded parts		
forwards upwards upward		0 mm
- upwards - at the side - 6 mm		
at the side 6 mm 10 mm 1		
• for live parts • for live parts — chowards — upwards — downwards — at the side • for main current circuit • for main current circuit • of main current circuit • of auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-section for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for solutiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts	·	
• for live parts — forwards — upwards — downwards — at the side — at the side — for main current circuit • for auxiliary and control circuit • for for auxiliary contacts • of magnet coil • solid • solid or stranded • finely stranded with ore end processing • finely stranded with ore end processing • finely stranded with our end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with our 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 without core end processing • for auxiliary contacts • for auxiliary contacts • for for will contacts • for for main contacts • for for main contacts • for for will contacts • for main contacts • for will any contacts		
forwards		TO THIN
- upwards - downwards - downwards - at the side Connections/ Torminals 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 • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely 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 • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • for fauxiliary contacts • for wall calculated conductor cross • for from an contacts • for from an contacts • for main contacts • for main contacts • for main contacts • for from an contacts • for auxiliary contacts • for from an contacts • for auxiliary contacts	•	10 mm
- downwards — at the side 6 mm Connections/ Torminals type of electrical connection • for main current circuit spring-loaded terminals spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • solid 2x (0.5 4 mm²) • solid or stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm² • for our contacts 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm² • for main contacts 0.5 2.5 mm²		
Connections / Torminals type of electrical connection • for main current circuit • at contactor 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 • for auxiliary contacts • solid or stranded — finely stranded with core end processing • for auxiliary contacts	·	
Connections/ Terminals type of electrical connection spring-loaded terminals • for main current circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid • solid or stranded 2x (0.5 4 mm²) • solid or stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • connectable conductor cross-section for main contacts solid • solid 0.5 4 mm² • stranded 0.5 4 mm² • stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid or stranded 0.5 2.5 mm² • solid or stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 2.5 mm²)		
type of electrical connection • for main current circuit • 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 contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • solid • stranded • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • 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 • for auxiliary contacts		O THIN
• 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 • 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 • 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 stranded without core end processing • finely stranded without core end processing • 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 without core end processing • for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross-section • for main contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for		
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid		spring-loaded terminals
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 finely stranded without core end processing solid stranded of finely stranded with core end processing connectable conductor cross-section for main contacts solid stranded of finely stranded with core end processing of finely stranded with core end processing of finely stranded with core end processing of finely stranded without core end processing of finely stranded without core end processing of finely stranded without core end processing of finely stranded with core end processing of finely stranded with core end processing of finely stranded with core end processing of finely stranded without core end processing of onectable conductor cross-sections of or auxillary contacts - solid or stranded - finely stranded with core end processing of one stranded with core end processing of or auxillary contacts - solid or stranded - finely stranded with core end processing of or auxillary contacts - solid or stranded - finely stranded with core end processing of or auxillary contacts - solid or stranded without core end processing of or auxillary contacts - solid or stranded without core end processing of or auxillary contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) AWG number as coded connectable conductor cross section of or main contacts of or auxillary contacts of or main contacts of or main contacts of or main contacts of or auxillary contacts 20 12 Safety related data		
of magnet coil type of connectable conductor cross-sections for main contacts of solid or stranded of niely stranded with core end processing of niely stranded without core end processing connectable conductor cross-section for main contacts of niely stranded with core end processing connectable conductor cross-section for main contacts of niely stranded with core end processing of niely stranded with core end processing of niely stranded without core end processing of niely stranded without core end processing of niely stranded with core end processing of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or AWG cables for auxiliary contacts of or AWG cables for auxiliary contacts of or main contacts of or main contacts of or main contacts of or main contacts of or auxiliary contacts of or auxiliary contacts of or main contacts of or auxiliary contacts of or main contacts of or auxiliary contacts of or auxiliary contacts of or main contacts of or auxiliary contacts of or auxiliary contacts of or main contacts of or auxiliary contacts	•	
type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • solid or stranded without core end processing • finely stranded without core end processing • solid • 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 stranded without core end processing • 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 - solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts - solid or stranded - 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 - finely stranded without core end processing - for auxiliary contacts - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - for auxiliary contacts - solid or stranded - finely stranded without core end processing - for auxiliary contacts - solid or stranded - solid or	•	
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 solid or stranded finely stranded with core end processing finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts solid stranded stranded with core end processing o.5 4 mm² finely stranded with core end processing o.5 2.5 mm² finely stranded without core end processing o.5 2.5 mm² finely stranded without core end processing o.5 2.5 mm² finely stranded with core end processing o.5 4 mm² finely stranded with core end processing o.5 2.5 mm² type of connectable conductor cross-sections finely stranded without core end processing o.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts solid or stranded pack (0.5 4 mm²) 2x (0.5 4 mm²) finely stranded with 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 for AWG cables for auxiliary contacts for main contacts for main contacts for main contacts for auxiliary contacts 20 12 Safety related data		2x (0.5 4 mm²)
• finely stranded without core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely branded without core end processing • finely stranded without core end processing • solid or 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 • 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 without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts Safety related data	solid or stranded	
• finely stranded without core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely branded without core end processing • finely stranded without core end processing • solid or 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 • 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 without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts Safety related data	 finely stranded with core end processing 	
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 finely stranded with core end processing finely stranded without core end processing 0.5 2.5 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 finely stranded with core end processing for auxiliary contacts finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 Safety related data 	• stranded	0.5 4 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 without core end processing • for auxiliary contacts - solid or 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 - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 finely stranded with 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 type of connectable conductor cross-sections 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 finely stranded without core end processing 	0.5 2.5 mm²
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• 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 — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 solid or stranded 	0.5 4 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 AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 finely stranded with core end processing 	0.5 2.5 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 section • for main contacts • for auxiliary contacts 20 12 Safety related data	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 - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section - for main contacts - for auxiliary contacts 20 12 Safety related data	type of connectable conductor cross-sections	
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— finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	— solid or stranded	
for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts Safety related data 2x (20 12) 20 12 20 12		
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data		
section • for main contacts • for auxiliary contacts 20 12 20 12 Safety related data		2x (20 12)
• for main contacts • for auxiliary contacts 20 12 Safety related data		
• for auxiliary contacts 20 12 Safety related data		20 12
Safety related data		
	<u> </u>	
MI VAMOS IMIIVAIVII	product function	

 mirror contact according to IEC 60947-4-1 	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
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity





Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

ther

Confirmation



Confirmation

Vibration and Shock

Railway

Environmental Confirmations

Environment

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-2AN22

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2018-2AN22}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AN22

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

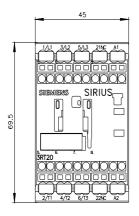
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2AN22&lang=en

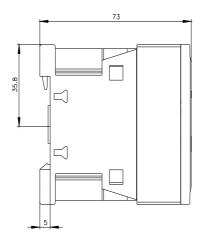
Characteristic: Tripping characteristics, I2t, Let-through current

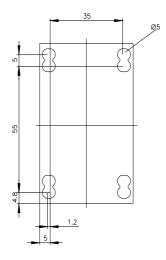
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AN22/char

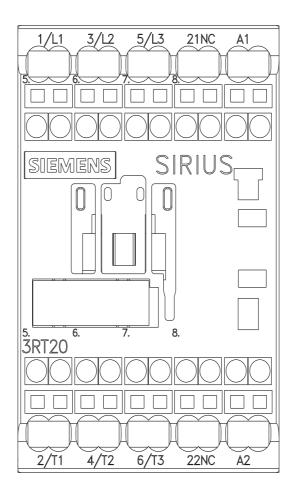
Further characteristics (e.g. electrical endurance, switching frequency)

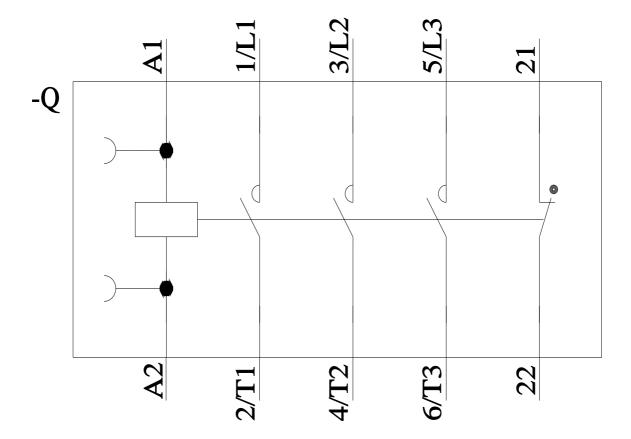
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2018-2AN22\&objecttype=14\&gridview=view1}$











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