SIEMENS

Data sheet 3RT2017-2FW42



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 48 V DC, with integrated diode, 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 	1.5 W
 at AC in hot operating state per pole 	0.5 W
 without load current share typical 	4 W
type of calculation of power loss depending on pole	quadratic
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 DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	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
SVHC substance name	Lead - 7439-92-1
Weight	0.309 kg
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	95 %

Environmental footprint Environmental Product Declaration(EPD) Global Warming Potential [CO2 eq] total 153 kg	
Environmental Product Declaration(EPD) Global Warming Potential [CO2 eq] total 153 kg	
Global Warming Potential [CO2 eq] total 153 kg	
Global Warming Potential [CO2 eq] during manufacturing 1.42 kg	
Global Warming Potential [CO2 eq] during operation 152 kg	
Global Warming Potential [CO2 eq] after end of life -0.305 kg	
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 value at AC-1 	
— up to 690 V at ambient temperature 40 °C rated value	
— up to 690 V at ambient temperature 60 °C rated value 20 A	
• at AC-3	
— at 400 V rated value 12 A	
— at 500 V rated value 9.2 A	
— at 690 V rated value 6.7 A	
• at AC-3e	
— at 400 V rated value 12 A	
— at 500 V rated value 9.2 A	
— at 690 V rated value 6.7 A	
 at AC-4 at 400 V rated value at AC-5a up to 690 V rated value 19.4 A 	
 at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value 9.9 A 	
• at AC-5a up to 400 V fated value 9.9 A	
— up to 230 V for current peak value n=20 rated value 7.2 A	
— up to 400 V for current peak value n=20 rated value 7.2 A	
— up to 500 V for current peak value n=20 rated value 7.2 A	
— up to 690 V for current peak value n=20 rated value 6.7 A • at AC-6a	
— up to 230 V for current peak value n=30 rated value 4.8 A	
— up to 400 V for current peak value n=30 rated value 4.8 A	
— up to 500 V for current peak value n=30 rated value 4.8 A	
— up to 690 V for current peak value n=30 rated value 4.8 A	
minimum cross-section in main circuit at maximum AC-1 rated 4 mm² value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 4.1 A	
at 690 V rated value 3.3 A	
operational current	
• at 1 current path at DC-1	
— at 24 V rated value 20 A	
— at 60 V rated value— at 110 V rated value2.1 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 220 V rated value 1.6 A	
— at 440 V rated value 0.8 A	

— at 600 V rated value	0.7 A
 with 3 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	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	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
 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	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	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	C.O KVV
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	O.O KVV
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2.8 kVA
• up to 400 V for current peak value n=20 rated value	4.9 kVA
• up to 500 V for current peak value n=20 rated value	6.2 kVA
• up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.9 kVA
• up to 400 V for current peak value n=30 rated value	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
• up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	96 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h

* AR AC-5 meantum * AR AC-5 meantum * AR AC-4 meantum	• at AC-3 maximum	750 1/h
## AC-4 maximum ## AC-		
Control supply voltage at DC rated value		
Type of voltage of the control supply voltage DC		
Control supply votlage at DC rated value 68 V General paragregate factor control supply votlage rated value of magnet coil at DC 1.11		DC
Operating range factor control supply voltage rated value of magnet coil at C		
majnet coll at DC		TO V
Mull-scale value		
design of the surge suppressor diode	• initial value	0.8
Closing power of magnet coil at DC	• full-scale value	1.1
holding power of magnet coil at DC	design of the surge suppressor	diode
closing delay	closing power of magnet coil at DC	4 W
• at DC opening delay • at DC arcing time 10	holding power of magnet coil at DC	4 W
e at DC	closing delay	
arcing time 1015 ms	• at DC	30 100 ms
arcing time	opening delay	
Control version of the switch operating mechanism	• at DC	38 65 ms
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum poporational current at AC-15 alt 230 V rated value at 400 V rated value at 600 V rated value	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact		Standard A1 - A2
contact coperational current at AC-12 maximum 10 A coperational current at AC-15 at 230 V rated value	Auxiliary circuit	
operational current at AC-15		1
all 230 V rated value	operational current at AC-12 maximum	10 A
	operational current at AC-15	
	 at 230 V rated value 	10 A
• at 690 V rated value 10 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 2 A • at 110 V rated value 3 A • at 220 V rated value 1 A • at 80 V rated value 1 A • at 80 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 600 V rated value 3 A • at 122 V rated value 3 A • at 125 V rated value 4 A • at 150 V rated value 9 A • at 125 V rated value 9 A • at 800 V rated value 11 A vielded mechanical performance [hp] 9 A • at 800 V rated value 9 A • at 220 V rated value 9 A • at 230 V rated value 9 A • at 230 V rated value 9 A • at 250 V rated value 9 A • at 800 V rated value 9 A •	 at 400 V rated value 	3 A
Operational current at DC-12	● at 500 V rated value	2 A
	at 690 V rated value	1 A
	operational current at DC-12	
• at 60 V rated value	at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 200 V rated value at 600 V rated value at 600 V rated value operational current at DC-13 otal 48 V rated value at 220 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 80 V rated value at 80 V rated value at 14 60 V rated value at 80 V rated value at 60 V rated value at 70 Passe AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 110 V rated value at 600 V rated value at 120 V rated value at 140 V rated value at 140 V rated value at 150 V rated value at 150 V rated value at 160 V rated value at 200 V rated value at 200 V rated value at 200 V rated value at 257600 V rated value at 575600 V rated value	at 48 V rated value	6 A
	• at 60 V rated value	6 A
• at 220 V rated value • at 600 V rated value • at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 700 V rated value • at 600 V rated value • at 700 V rated value • at 220 V rated value • at 220 V rated value • at 30 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 220 V rated value • for 3-phase AC motor - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection	• at 110 V rated value	3 A
• at 600 V rated value	• at 125 V rated value	2 A
operational current at DC-13	at 220 V rated value	1 A
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 48 V rated value at 48 V rated value at 480 V rated value at 480 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value for single-phase AC motor at 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 480/480 V rated value at 480/480 V rated value at 575/600 V rated value by 0 contact rating of auxiliary contacts according to UL Short-circuit protection 	at 600 V rated value	0.15 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value 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 at 600 V rated value for single-phase AC motor -at 110/120 V rated value for 3-phase AC motor -at 230 V rated value for 3-phase AC motor -at 200/208 V rated value -at 220/230 V rated value -at 220/230 V rated value -at 460/480 V rated value -at 460/480 V rated value 7.5 hp -at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection 	operational current at DC-13	
	at 24 V rated value	10 A
■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 480 V rated value ■ at 480 V rated value ■ at 480 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 11 A ■ if on 3-phase AC motor ■ at 110/120 V rated value ■ at 230 V rated value ■ at 230 V rated value ■ at 230 V rated value ■ for 3-phase AC motor ■ at 200/208 V rated value ■ at 200/208 V rated value ■ at 200/208 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value	at 48 V rated value	2 A
at 125 V rated value at 220 V rated value at 600 V rated value outside the first second of the first sec	at 60 V rated value	2 A
	• at 110 V rated value	
at 600 V rated value 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 11 A at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp at 230 V rated value 6 for 3-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 3 hp at 460/480 V rated value 7.5 hp at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
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 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value to he contact rating of auxiliary contacts according to UL Short-circuit protection		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.5 hp — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value at 220/230 V rated value 3 hp — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 0.5 hp - at 230 V rated value 2 hp for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		
for single-phase AC motor — at 110/120 V rated value		11 A
- at 110/120 V rated value 0.5 hp - at 230 V rated value 2 hp • for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
— at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
• for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
— at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection A600 / Q600		2 hp
- at 220/230 V rated value 3 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection	•	
- at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection		
— at 575/600 V rated value 10 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection		
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection		
Short-circuit protection		
		A600 / Q600
design of the fuse link		
	design of the fuse link	

	• for short-circuit protection of the main circuit	
• for short-circult protection of the auxiliary switch required installation from from thing differentiations 4-590° relation possible on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 1-22.3° on vertical mounting surface; can be titled floward and backward by 10 mm	 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
Installation/mounting/dimensions With a control from the position With a control	 — with type of assignment 2 required 	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
mounting position # 1900 relation presible on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward and backward and backward by + 22.5° on vertical mounting surface: can be titled forward and backward and b	for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
fastening method side-by-aide mounting Ves fastening method server was also on mounting onto 35 mm DIN rail according to DIN EN 69715 height vidth depth 70 mm required spacing • with side-by-side mounting • to with side-by-side mounting • with side-by-side mounting • to with side-by-side mounting • to with side-by-side mounting • to make side 10 mm • at the side 0 mm • for wind gards • for virunding side • for grunding darts • for wind gards • for wind gards • for wind side-by-side mounting • the side 0 mm • for man of the side 0 mm • for man of the side 0 mm • for man of the side 0 mm • for man outled connection • for man current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for man contacts • for main contacts • solid • stranded • finely stranded with oze end processing • finely stranded with oze end processing • finely stranded with core end processing • for auxiliary contacts • solid • for maxiliary contacts • contactable conductor cross-sec	Installation/ mounting/ dimensions	
Testening method Screw and snap-on mounting onto 35 mm DIN reil according to DIN EN 60715 To min with side-by-side mounting	mounting position	
Neglit	fastening method side-by-side mounting	Yes
width depth 73 mm required spacing • with side-by-side mounting — forwards — upwards — upwards — of mem — of mem — of the side • for grounded parts — for grounded parts — in the side — downwards — upwards — upwards — at the side — downwards — to mm — upwards — of mem — downwards • for live parts — forwards — to mm — in the side — downwards • for live parts — forwards — upwards — to mm — upwards — upwards — to mm — the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — downwards — to mm — at the side — to main current circuit • to rausiliary and control circuit • of a usualiary and control circuit • at contactor for ausiliary contacts • of magnet coll 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 without core end p	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Image: Content Imag	height	70 mm
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — forwards — upwards — forwards — upwards — the side — downwards — the side — downwards — to mm — forwards — upwards — to mm — downwards — upwards — to mm — downwards — upwards — to mm — at the side — downwards — upwards — oownwards — to mm — at the side — to mm — at the side — to mm — the side — th		
• with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — the side — ownwards — the side — downwards — to man — forwards — forwards — forwards — upwards — to man — forwards — upwards — the side — downwards — upwards — the side — ownwards — upwards — the side — ownwards — the side — ownwards — the side — ownwards — ownwards — the side — ownwards — ow	·	73 mm
forwards	· · · · · · · · · · · · · · · · · · ·	
- upwards	•	
downwards at the side at the side at the side at the side for grounded parts forwards forwards forwards forwards forwards form forwards form forwards downwards form forwards for		
For grounded parts 10 mm	·	
• for grounded parts lorwards Upwards at the side downwards downwards for live parts forwards forwards forwards downwards at the side for min current circuit at the side for main current circuit for main current circuit for availiary and control circuit at contactor for auxiliary contacts for main current circuit for availiary and control circuit at contactor for auxiliary contacts solid for main contacts solid solid or stranded finely stranded with core end processing finely stranded with core end processing for AVC cables for main contacts solid solid or stranded finely stranded with core end processing finely stranded without		
- forwards - upwards - 10 mm		U mm
- upwards - at the side - downwards • for live parts - forwards • for live parts - forwards 10 mm - upwards 10 mm - upwards - downwards 10 mm - downwards - at the side 6 mm Connections/ Forminals 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 • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • for awaillary contacts • solid or stranded - finely stranded without core end processing • for stranded - finely stranded without core end processing • for stranded - finely stranded without core end processing • for fawG cables for auxiliary contacts • solid or stranded - finely stranded without core end processing • for fawG cables for auxiliary contacts • for awailiary contacts • for fawG cables for auxiliary contacts • for awailiary contact		40
- at the side - downwards 10 mm 10 m		
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side - downwards - at the side - for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for for main current circuit • for for main contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for fav. Gables for auxiliary contacts • for au	·	
• for live parts — forwards — upwards — upwards — downwards — at the side Connections/ Terminals Type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control cross-sections • for main current conductor cross-sections • 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 • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for fawG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for fawG cables for auxiliary contacts • for auxiliary contacts		
forwards 10 mm		TO HILL
- upwards - downwards - d the side - at the side Connections/Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • at contactor for auxiliary contacts • for main contacts - solid - solid or stranded - finely stranded with core end processing • for him confacts • for him contacts - solid - solid - solid - solid or stranded - finely stranded with core end processing • for Mard Cables for main contacts • solid • 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	•	10 mm
- downwards — 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 • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • for main contacts - solid 2x (0.5 4 mm²) - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm²) • for AWG cables for main contacts • solid • stranded • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing 0.5 2.5 mm² • 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 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - finely stranded with core end processing 2x (0.5 2.5 mm²) - for auxiliary contacts - for auxiliary co		
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- 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 main contacts • solid • stranded • 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 • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid	— solid	2x (0.5 4 mm²)
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connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — 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) 2x (0.5 2.5 mm²) 2x (20 12) AWG number as coded connectable conductor cross section • for main contacts 20 12	• finely stranded with core end processing	0.5 2.5 mm ²
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	 finely stranded with core end processing 	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 20 12	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
section	for AWG cables for auxiliary contacts	2x (20 12)
• for auxiliary contacts 20 12		
·	• for main contacts	20 12
Safety related data	 for auxiliary contacts 	20 12
	Safety related data	

product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
 suitable for safety function 	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	

General Product Approval







Confirmation





General Product Approval

EMV

Test Certificates

Marine / Shipping

<u>KC</u>





Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Miscellaneous

other

other Railway Dangerous goods Environment

Confirmation

Special Test Certificate

Transport Information



Environmental Confirmations

Further information

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=3RT2017-2FW42

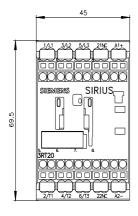
Cax online generator

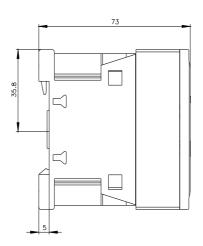
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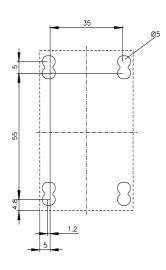
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2FW42

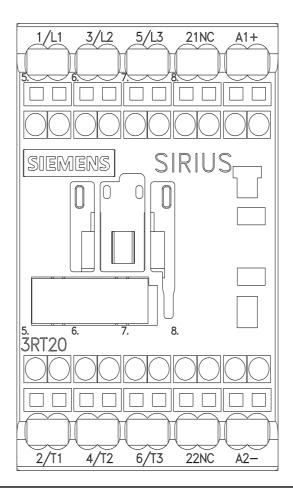
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

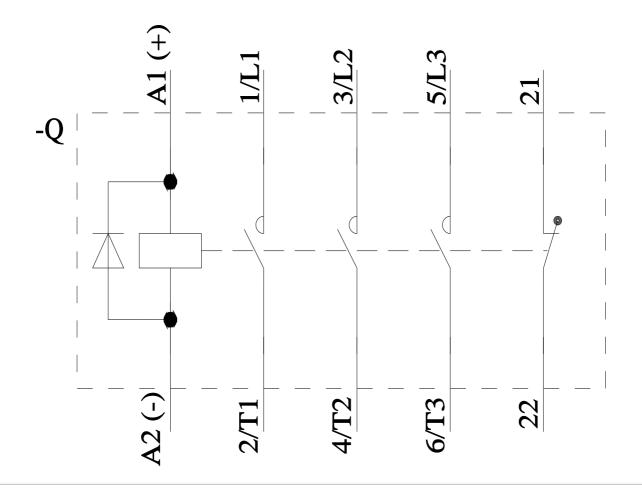
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