SIEMENS

Data sheet

3RT2038-1AN20

Power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 220 V AC 50/60 Hz, 3-pole Size S2, screw terminals



product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	17.1 W
 at AC in hot operating state per pole 	5.7 W
power loss [W] for rated value of the current without load current share typical	17.2 W
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 acc. to EN 60947-1 	400 ∨

protection class IP		
• on the front	IP20	
• of the terminal	IP00	
shock resistance at rectangular impulse		
• at AC	11.8g / 5 ms, 7.4g / 10 ms	
shock resistance with sine pulse		
• at AC	18.5g / 5 ms, 11.6g / 10 ms	
mechanical service life (switching cycles)		
 of contactor typical 	10 000 000	
 of the contactor with added electronics- 	5 000 000	
compatible auxiliary switch block typical		
• of the contactor with added auxiliary switch	10 000 000	
block typical		
reference code acc. to DIN EN 81346-2	Q	
Ambient conditions		
 installation altitude at height above sea level 	2 000 m	
maximum		
ambient temperature		
during operation	-25 +60 °C	
• during storage	-55 +80 °C	
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	
operating current		
• at AC-1 at 400 V		
— at ambient temperature 40 °C rated value	90 A	
● at AC-1		
— up to 690 V at ambient temperature 40 °C rated value	90 A	
— up to 690 V at ambient temperature 60 °C rated value	80 A	
• at AC-3		
— at 400 V rated value	80 A	
— at 500 V rated value	80 A	
— at 690 V rated value	58 A	
• at AC-4 at 400 V rated value	55 A	
• at AC-5a up to 690 V rated value	79.2 A	
• at AC-5b up to 400 V rated value	66.4 A	
● at AC-6a		

	70 4
— up to 230 V for current peak value n=20 rated value	70 A
— up to 400 V for current peak value n=20 rated value	70 A
— up to 500 V for current peak value n=20 rated value	70 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
— up to 500 V for current peak value n=30 rated value	46.7 A
— up to 690 V for current peak value n=30 rated value	46.7 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	35 mm²
operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	30 A
• at 690 V rated value	24 A
operating current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	45 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	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operating current	

• at 1 current path at DC-3 at DC-5	25 A
— at 24 V rated value	35 A 2.5 A
— at 110 V rated value	1 A
— at 220 V rated value	
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	37 kW
• at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	37 kW
— at 690 V rated value	45 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	15.8 kW
• at 690 V rated value	21.8 kW
operating apparent output at AC-6a	
 up to 230 V for current peak value n=20 rated value 	27.8 kV·A
 up to 400 V for current peak value n=20 rated value 	48.4 kV·A
 up to 500 V for current peak value n=20 rated value 	60.6 kV·A
 up to 690 V for current peak value n=20 rated value 	69.3 kV·A
operating apparent output at AC-6a	
 up to 230 V for current peak value n=30 rated value 	18.6 kV·A
 up to 400 V for current peak value n=30 rated value 	32.3 kV·A

 up to 500 V for current peak value n=30 rated value 	40.4 kV·A			
 up to 690 V for current peak value n=30 rated value 	55.8 kV·A			
short-time withstand current in cold operating state				
up to 40 °C				
 limited to 1 s switching at zero current maximum 	1 298 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	898 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	640 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	414 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 60 s switching at zero current maximum 	333 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	700 1/h			
• at AC-2 maximum	350 1/h			
• at AC-3 maximum	500 1/h			
• at AC-4 maximum	150 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
• at 50 Hz rated value	220 V			
• at 60 Hz rated value	220 V			
operating range factor control supply voltage rated				
value of magnet coil at AC				
● at 50 Hz	0.8 1.1			
● at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
● at 50 Hz	210 V·A			
• at 60 Hz	188 V·A			
inductive power factor with closing power of the coil				
● at 50 Hz	0.69			
• at 60 Hz	0.65			
apparent holding power of magnet coil at AC				
• at 50 Hz	17.2 V·A			
● at 60 Hz	16.5 V·A			
inductive power factor with the holding power of the				
coil				

• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	
● at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2

Auxiliary circuit	
number of NC contacts for auxiliary contacts	
 instantaneous contact 	1
number of NO contacts for auxiliary contacts	
 instantaneous contact 	1
operating current at AC-12 maximum	10 A
operating 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
operating 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
operating 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 three-phase AC motor	

• at 480 V rated value	65 A
• at 600 V rated value	62 A
yielded mechanical performance [hp]	

 for single-phase AC motor 				
— at 110/120 V rated value	5 hp			
— at 230 V rated value	15 hp			
 for three-phase AC motor 				
— at 200/208 V rated value	20 hp			
— at 220/230 V rated value	25 hp			
— at 460/480 V rated value	50 hp			
— at 575/600 V rated value	60 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Chart size uit protestion				
Short-circuit protection design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)			
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
 side-by-side mounting 	Yes			
height	114 mm			
width	55 mm			
depth	130 mm			
required spacing				
 with side-by-side mounting 				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
 for live parts 				
— forwards	10 mm			
	10 mm 10 mm			

- downwards 10 mm - at the side 6 mm Connections? Terminals screw-type terminals • for main current circuit screw-type terminals • at the side Screw-type terminals • of main current circuit Screw-type terminals • of main contacts Screw-type terminals • for main contacts Screw-type terminals • for main contacts 2x (1 35 mm ²), 1x (1 50 mm ²) - finely stranded with core end processing 2x (1 25 mm ²), 1x (1 50 mm ²) • for main contacts 2x (1 25 mm ²), 1x (1 50 mm ²) • for oncactable conductor for main contacts 2x (1 25 mm ²) • finely stranded with core end processing 1 35 mm ² • finely stranded with core end processing 5 2.5 mm ² • finely stranded with core end processing 5 2.5 mm ² • finely stranded with core end processing 5 2.5 mm ² • finely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) <	decomposed a	10 mm		
Connections/ Terminals Ype of electrical connection screw-type terminals • for main current circuit screw-type terminals • or auxiliary and control current circuit screw-type terminals • or auxiliary contacts Screw-type terminals • or main contacts Screw-type terminals • or main contacts Screw-type terminals • or main contacts 2x (1 35 mm ²) - finely stranded with core end processing 2x (1 25 mm ²) • finely stranded with core end processing 1 35 mm ² • finely stranded with core end processing 0.5 2.5 mm ² • single or multi-stranded 0.5 2.5 mm ² • single or multi-stranded 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • hely stranded with core end processing 2x (20.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • linely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • linely stranded with core end processing 2x (20.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • linely stranded with core end processing 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) • type of connectable conductor cross-sections at AWG conductors for auxiliary contacts 2x (0.5 1.5 mm	— downwards	10 mm		
type of electrical connection or main current circuit screw-type terminals • for main current circuit screw-type terminals • for main control current circuit Screw-type terminals • of main contacts Screw-type terminals • of main contacts Screw-type terminals • for main contacts Screw-type terminals • for main contacts Screw-type terminals • for main contacts 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • finely stranded with core end processing 1 35 mm² • finely stranded with core end processing 0.5 2.5 mm² • linely stranded with core end processing 0.5 2.5 mm² • linely stranded with core end processing 0.5 2.5 mm² • linely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • linely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • proper connectable conductor cross-sections for auxiliary contacts 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • for auxiliary contacts 18 1 2x (20 16), 2x (18 14) AWG number as coded conne	— at the side	6 mm		
• for main current circuitscrew-type terminals• for auxiliary and control current circuitscrew-type terminals• of magnet coilScrew-type terminals• of magnet coilScrew-type terminals• for main contactsScrew-type terminals• for main contacts2x (1 35 mm²), 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)• at AWG conductor for main contacts2x (1 25 mm²), 1x (1 35 mm²)• at AWG conductor cross-section for main contacts2x (1 25 mm²), 1x (1 35 mm²)• inely stranded with core end processing1 35 mm²• inely stranded thit core end processing0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• inely stranded with core end processing0.5 2.5 mm²• inely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sections at 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• type of connectable conductor cross-sect	Connections/ Terminals			
• for auxiliary and control current circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet collScrew-type terminals• for main contacts*• finely stranded with core end processing2x (1 35 mm²) 1x (1 50 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)• finely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)• finely stranded with core end processing1 35 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• productors for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• fine validary contacts2 14• for auxiliary contacts2 14• for auxiliary contacts2 14• for auxiliary contacts1.000 000 <td< td=""><td>type of electrical connection</td><td></td></td<>	type of electrical connection			
• at contactor for auxiliary contacts Screw-type terminals • of main contacts Screw-type terminals • of r main contacts 2x(135 mm ²), 1x(150 mm ²) - finely stranded with core end processing 2x(182), 1x(181) contactable conductor cross-section for main contacts 2x(182), 1x(181) contactable conductor cross-section for main contacts 2x(1025 mm ²) • finely stranded with core end processing 135 mm ² • finely stranded with core end processing 0.525 mm ² • single or multi-stranded 0.525 mm ² • single or multi-stranded 0.525 mm ² • finely stranded with core end processing 2x(0.515 mm ²), 2x(0.7525 mm ²) • finely stranded with core end processing 2x(0.515 mm ²), 2x(0.7525 mm ²) • finely stranded with core end processing 2x(0.515 mm ²), 2x(0.7525 mm ²) • finely stranded with core end processing 2x(0.515 mm ²), 2x(0.7525 mm ²) • for auxiliary contacts 2x(0.515 mm ²), 2x(0.7525 mm ²) • for auxiliary contacts 181 • for auxiliary contacts 1000 000 • for auxiliary contacts 2014 Step related data 2014 <td> for main current circuit </td> <td>screw-type terminals</td>	 for main current circuit 	screw-type terminals		
• of magnet collScrewtype terminalstype of connectable conductor cross-sections • firm ain contacts • single or multi-stranded • finely stranded with core end processing • at AWG conductors for main contacts • finely stranded with core end processing • single or multi-stranded • single or multi-stranded • single or multi-stranded • finely stranded with core end processing • single or multi-stranded • single or multi-stranded • finely stranded with core end processing • finely strande •	 for auxiliary and control current circuit 	screw-type terminals		
type of connectable conductor cross-sections - single or multi-stranded 2x (135 mm ³), 1x (150 mm ³) - finely stranded with core end processing 2x (125 mm ³), 1x (150 mm ³) - at AWG conductors for main contacts 2x (125 mm ³), 1x (150 mm ³) - finely stranded with core end processing 2x (182), 1x (181) connectable conductor cross-section for nain contacts 0.525 mm ² - finely stranded with core end processing 0.525 mm ² - single or multi-stranded 0.525 mm ² - single or multi-stranded 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - single or multi-stranded 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - single or multi-stranded 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - single or multi-stranded 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - single or multi-stranded 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - finely stranded with core end processing 2x (1814) - finely stranded with core end processing 2x (0.51,5 mm ³), 2x (0.752,5 mm ³) - for main contacts 1000 000 - for main contacts 1000 000 - for main contacts 1000 000 - for m	 at contactor for auxiliary contacts 	Screw-type terminals		
• for main contacts $2x (1 35 mm^2), 1x (1 50 mm^3)$ - single or multi-stranded $2x (1 25 mm^2), 1x (1 35 mm^3)$ • at AWG conductors for main contacts $2x (1 25 mm^2), 1x (1 35 mm^3)$ connectable conductor cross-section for main contacts $2x (1 25 mm^2), 1x (1 35 mm^3)$ • finely stranded with core end processing $1 35 mm^2$ • finely stranded with core end processing $1 35 mm^2$ • single or multi-stranded $0.5 2.5 mm^2$ • single or multi-stranded $0.5 2.5 mm^2$ • linely stranded with core end processing $0.5 2.5 mm^2$ • single or multi-stranded $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • hinely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • hinely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • hinely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • hinely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • hinely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for nain contacts $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for nain contacts $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for auxiliary contacts $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for auxiliary contacts $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for auxiliary contacts $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for auxiliary contacts $100 00000$ • fo	 of magnet coil 	Screw-type terminals		
	type of connectable conductor cross-sections			
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• at AWG conductors for main contacts2× (18 2), 1× (18 1)connectable conductor cross-section for main contacts1 35 mm²• finely stranded with core end processing1 35 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• single or mutil-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• type of connectable conductor cross-sections for auxiliary contacts2× (0,5 1,5 mm²), 2× (0,75 2,5 mm²)• neingle or mutil-stranded2× (0,5 1,5 mm²), 2× (0,75 2,5 mm²)• finely stranded with core end processing2× (0,5 1,5 mm²), 2× (0,75 2,5 mm²)• type of connectable conductor cross-sections for auxiliary contacts2× (0,5 1,5 mm²), 2× (0,75 2,5 mm²)• finely stranded with core end processing2× (0.5 1,5 mm²), 2× (0,75 2,5 mm²)• type of connectable conductor cross-sections section18 1• for main contacts18 1• for auxiliary contacts20 14Staty related data1000 000proportion of dangerous failures • with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 31920100 FIT• with high demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• miror contact acc. to IEC 60947.41Yes• positively driven operati	— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)		
connectable conductor cross-section for main contacts 1 35 mm ² inely stranded with core end processing 1 35 mm ² connectable conductor cross-section for auxiliary contacts 0.5 2.5 mm ² inely stranded with core end processing 0.5 2.5 mm ² inely stranded with core end processing 0.5 2.5 mm ² inely stranded with core end processing 0.5 2.5 mm ² inely stranded with core end processing 0.5 2.5 mm ² inely stranded with core end processing 2x (0.5 1,5 mm ²), 2x (0.75 2,5 mm ²) inely stranded with core end processing 2x (0.5 1,5 mm ²), 2x (0.75 2,5 mm ²) with our contactable conductor cross-sections at AWG conductors for auxiliary contacts 2x (20 16), 2x (18 14) AWG number as coded connectable conductor cross- section 1 14 if or auxiliary contacts 1 14 Safety related data 20 14 Safety related data 40 % with high demand rate acc. to SN 31920 1 .000 000 induct function 73 % with low demand rate acc. to SN 31920 100 FIT induct function 100 FIT with low demand rate acc. to SN 31920 100 FIT indirect functi	 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)		
contactsI 35 mm²• finely stranded with core end processing1 35 mm²connectable conductor cross-section for auxiliary contexts0.5 2.5 mm²• single or multi-stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- single or multi-stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (20 16), 2x (18 14)• type of connectable conductor cross-sections at AWG conductors for auxiliary contacts2x (20 16), 2x (18 14)• for main contacts18 1• for main contacts1000 000• for auxiliary contacts1000 000Proportion of dangerous failures1000 000• with high demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192040 %• with low demand rate acc. to SN 319201000 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• with low demand rate acc. to SN 31920100 FIT• mirror contact acc. to IEC 60947-4-1Yes• positively dr	 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)		
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AWG conductors for auxiliary contactsImage: Content and the section of	 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
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• with high demand rate acc. to SN 319201 000 000proportion of dangerous failures• with low demand rate acc. to SN 3192040 %• with high demand rate acc. to SN 3192073 %failure rate [FIT]• with low demand rate acc. to SN 31920100 FITproduct function• mirror contact acc. to IEC 60947-4-1Yes• positively driven operation acc. to IEC 60947-5-5No	Safety related data			
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positively driven operation acc. to IEC 60947-5- No	product function			
	• mirror contact acc. to IEC 60947-4-1	Yes		
		No		

EC 61508	st interval or servi	ce life acc. to 20	у		
protection against electrical shock		fin	ger-safe when touched	d vertically from front	acc. to IEC 60529
uitability for use saf	ety-related switch	ing OFF Ye	S		
rtificates/ approva					
General Product	Approval				EMC
	CSA		<u>KC</u>	EHC	RCM
Functional Safety/Safety of Machinery	Declaration o	f Conformity	Test Certificates		Marine / Ship- ping
Type Examination Certificate	EG-Konf.	Miscellaneous	Type Test Certific- ates/Test Report	Special Test Certi- ficate	ABS
Marine / Shippin	g				
B UR E A U V E R I T A S	Lloyd's Register Irs	PRS	RINA	RMRS	DNV-GL
other					
Confirmation					

Further information

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=3RT2038-1AN20

Cax online generator

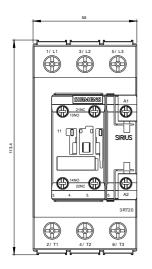
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1AN20

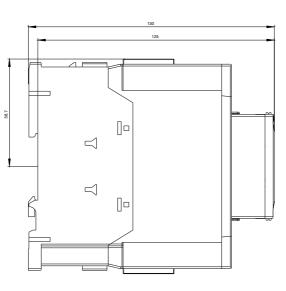
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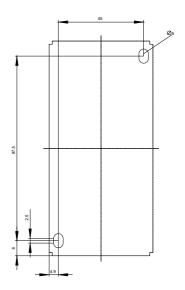
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1AN20&lang=en

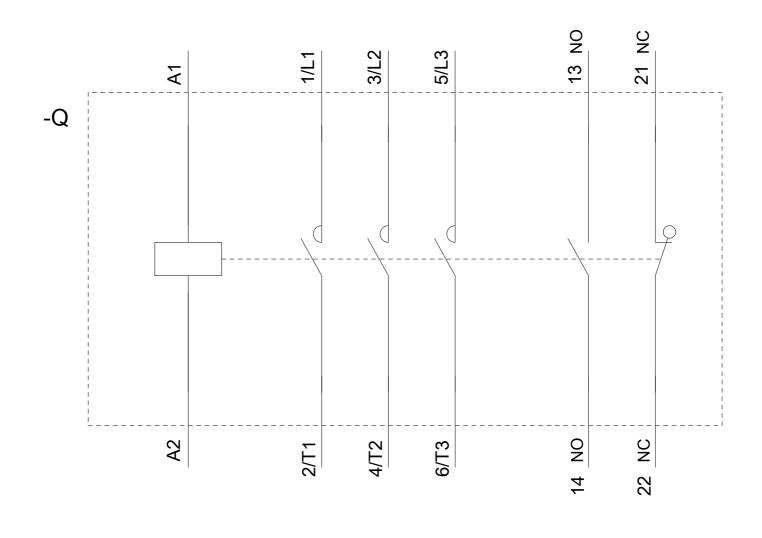
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AN20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1AN20&objecttype=14&gridview=view1









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09/08/2020