SIEMENS

Data sheet 3RT2035-3AC20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
 at AC in hot operating state per pole 	2.2 W
without load current share typical	6.5 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	60 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	60 A
value	EE A
 up to 690 V at ambient temperature 60 °C rated value 	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	277
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	35 A 52.8 A
at AC-5a up to 690 V rated value	
at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
 up to 500 V for current peak value n=20 rated value 	36.5 A
 up to 690 V for current peak value n=20 rated value 	24 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	24.2 A
 up to 400 V for current peak value n=30 rated value 	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
 up to 690 V for current peak value n=30 rated value 	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	22 A
• at 690 V rated value	18.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 110 V rated value — at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1 at 24 V sets d valve.	EE A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
 at 1 current path at DC-3 at DC-5 	

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— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	14.5 kVA
 up to 400 V for current peak value n=20 rated value 	25.2 kVA
 up to 500 V for current peak value n=20 rated value 	31.6 kVA
• up to 690 V for current peak value n=20 rated value	28.6 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	9.6 kVA
• up to 400 V for current peak value n=30 rated value	16.8 kVA
• up to 500 V for current peak value n=30 rated value	21 kVA
• up to 690 V for current peak value n=30 rated value	28.6 kVA
short-time withstand current in cold operating state up to 40 °C	
	843 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 1 s switching at zero current maximum	
Iimited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum Ilmited to 20 s switching at zero current maximum.	400 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 30 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum.	241 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	F 000 4/b
• at AC	5 000 1/h
operating frequency	4 200 4/b
• at AC-1 maximum	1 200 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
at AC-4 maximum	300 1/h
Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	210 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
● at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.36
● at 60 Hz	0.39
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous	1
contact	
contact operational current at AC-12 maximum	10 A
contact operational current at AC-12 maximum operational current at AC-15	
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	10 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	10 A 3 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	10 A 3 A 2 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	10 A 3 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	10 A 3 A 2 A 1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value	10 A 3 A 2 A 1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 60 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 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 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 60 V rated value • at 60 V rated value • at 60 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 155 V rated value • at 150 V rated value • at 110 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 100 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 60 V rated value • at 725 V rated value • at 600 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 110 V rated value • at 125 V rated value	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 8 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 60 V rated value • at 125 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 600 V rated value • at 25 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 100 V rated value • at 600 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 8 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 60 V rated value • at 125 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	10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

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- at 220/230 V rated value - at 220/230 V rated value - at 480/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415V,80kA) gG: 10 A (500 V, 1 kA) fastenling method scide-by-side mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +/- 22.5° on vertical mounting surface; can be tilted forward backward by +	I and
- at 220/230 V rated value - at 460/480 V rated value - at 675/600 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method - side-by-side mounting - forwards - with side-by-side mounting - forwards - downwards - downwards - at the side - for grounded parts - forwards - upwards - at the side - downwards - for live parts - forwards - for live parts - forwards - f	I and
- at 460/480 V rated value	I and
- at 575/600 V rated value 40 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 80A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, KA) • for short-circuit protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V, 100kA), BS88: 63A (415V,80kA) • for short-circuit protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) • for short-circuit protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) • for short-circuit protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) • for short-circuit protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) • for state in protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V, 100kA), BS88: 63A (415V,80kA) • for state in protection of the auxiliary switch required gG: 80A (690V, 100kA), aM: 50A (690V, 100	I and
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position #/-180* rotation possible on vertical mounting surface; can be tilted forwar backward by +/- 22.5* on vertical mounting surface; can be tilted forwar backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward backward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forward sackward by +/- 22.5* on vertical mounting surface; can be tilted forwards 10 mm	I and
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for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	I and
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fastening method side-by-side mounting height width forwards - downwards - for grounded parts - forwards - upwards - downwards - for grounded parts - forwards - downwards - downwards - downwards - downwards - forwards - downwards - for live parts - forwards - forwards - forwards - forwards - forwards - formards - forwards - formards - forwards -	
◆ side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing 10 mm ◆ with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — at the side 0 mm ● for grounded parts 10 mm — at the side 6 mm — downwards 10 mm ● for live parts 10 mm ● for live parts 10 mm	715
height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting ● with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm ● for grounded parts 10 mm — forwards 10 mm — at the side 6 mm — downwards 10 mm ● for live parts 10 mm ● for live parts 10 mm	
width 55 mm depth 130 mm required spacing	
depth 130 mm required spacing	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — of mm — at the side — for mm — of mm	
 with side-by-side mounting forwards upwards downwards downwards at the side for grounded parts forwards upwards upwards at the side mm upwards at the side downwards for mm downwards for live parts forwards for live parts forwards 10 mm 	
— forwards 10 mm — upwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — forwards 10 mm	
 upwards downwards downwards at the side o mm o for grounded parts forwards upwards at the side downwards for live parts forwards 10 mm 6 mm downwards for live parts forwards 10 mm 	
— downwards 10 mm — at the side 0 mm ● for grounded parts 10 mm — forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm ● for live parts 10 mm — forwards 10 mm	
— at the side 0 mm ● for grounded parts 10 mm — forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm ● for live parts 10 mm	
 for grounded parts forwards upwards at the side downwards for live parts forwards 10 mm for live parts forwards 10 mm 	
— forwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm ● for live parts 10 mm	
 — upwards — at the side — downwards • for live parts — forwards 10 mm 10 mm 	
 — at the side — downwards • for live parts — forwards 10 mm 10 mm 	
 — downwards • for live parts — forwards 10 mm 	
• for live parts — forwards 10 mm	
— forwards 10 mm	
unwards 40 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 6 mm	
Connections/ Terminals	
type of electrical connection	
• for main current circuit screw-type terminals	
• for auxiliary and control circuit spring-loaded terminals	
• at contactor for auxiliary contacts Spring-type terminals	
• of magnet coil Spring-type terminals	
type of connectable conductor cross-sections for main contacts	
• solid or stranded 2x (1 35 mm²), 1x (1 50 mm²)	
• finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)	
connectable conductor cross-section for main contacts	
• finely stranded with core end processing 1 35 mm²	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 2.5 mm²	
• finely stranded with core end processing 0.5 1.5 mm²	
• finely stranded without core end processing 0.5 2.5 mm²	
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid or stranded 2x (0.5 2.5 mm²)	
— finely stranded with core end processing 2x (0.5 1.5 mm²)	
— finely stranded without core end processing 2x (0.5 2.5 mm²)	
• for AWG cables for auxiliary contacts 2x (20 14)	
AWG number as coded connectable conductor cross	
section	

• for main contacts	18 1
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	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
Certificates/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>





Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-3AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AC20

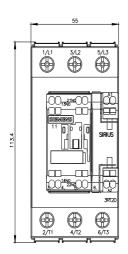
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

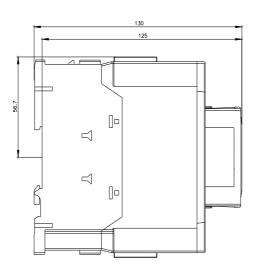
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AC20

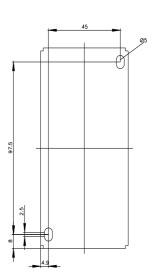
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

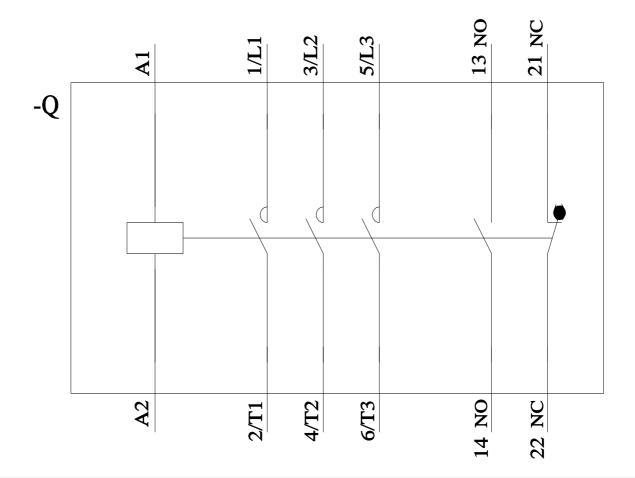
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3AC20&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AC20&objecttype=14&gridview=view1









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