SIEMENS

Data sheet 3RT2035-1AC20



power contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC, 24 V AC 50 / 60 Hz, 3-pole, Size S2, screw terminal

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 	17.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	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 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 value	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	60 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	
— 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	35 A
 at AC-5a up to 690 V rated value 	52.8 A
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 at AC-6a 	24 A
— 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 operational current for approx. 200000 operating	16 mm ²
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 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
	1A
— at 440 V rated value — at 600 V rated value	0.8 A
	0.0 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
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	2.5 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 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	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	
 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 200 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	
	4
number of NC contacts for auxiliary contacts	
number of NC contacts for auxiliary contacts instantaneous contact	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 10 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 2 A 1 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 220 V rated value • at 600 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value	1 10 A 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
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 240 V rated value • at 240 V rated value • at 600 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 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 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 148 V rated value • at 150 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 600 V rated value • at 148 V rated value • at 148 V rated value • at 149 V rated value • at 140 V rated value • at 150 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 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
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 600 V rated value • at 600 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 155 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 110 V rated value • at 125 V rated value • at 120 V rated value	1 10 A 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 2 A 1 A 0.9 A 0.3 A 0.1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 600 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 110 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 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
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 30 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 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 2 A 1 A 0.9 A 0.3 A 0.1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous 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 600 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 110 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 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 2 A 1 A 0.9 A 0.3 A 0.1 A

design of the fuse link		
yelded machanical performance (hy) • for single-phase AC motor — at 1010/120 V rated value — at 2000/200 V rated value — at 30 hp — at 360/480 V rated value — at 578/500 V rated value — at 588/500 V rated value — at 688/500 V rated value — at 688/500 V rated value — at 688/500 V rate	 at 480 V rated value 	40 A
• for single-phase AC motor — at 101/20 V rated value — at 220/230 V rated value — at 875/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — side-by-side mounting dimensions — with type of coordination 1 required — side-by-side mounting — with side-by-side mounting — for wards — upwards — downwards — to mm — at the side — downwards — for wards — to mm — of overads — to mm — of the side — downwards — to mm — of the side — of or grounded parts — for wards — to make the side — of or wards — to make the side — of or wards —	at 600 V rated value	41 A
at 1101/20 V reled value	yielded mechanical performance [hp]	
- at 230 V rated value	 for single-phase AC motor 	
• for 3-phase AC motor — at 200/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 257/600 V rated value — 40 bp A600 / F600 A6	 at 110/120 V rated value 	3 hp
at 200/280 V rated value	— at 230 V rated value	7.5 hp
- at 220/230 V rated value	 for 3-phase AC motor 	
at 480/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to U. Short-circuit protection with type of coordination 1 required with type of assignment 2 required with side-by-side mounting with side-by-	 at 200/208 V rated value 	10 hp
— at 575/600 V rated value	 at 220/230 V rated value 	15 hp
A600 / P600	 at 460/480 V rated value 	30 hp
Short-circuit protection design of the fusal link with type of coordination 1 required with type of coordination 2 required 2 required with type of coordination 2 required 2 required 2 required 2 required 2 required 3 r	— at 575/600 V rated value	40 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600
• 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 • 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 • 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 • 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 • 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 • for short-circuit protection of the auxiliary switch required • for wards and backward by 1+ 22.5 on vertical mounting surface can be titled forward by 4-122.5 on vertical mounting surface; can be titled forward by 4-122.5 on vertical mounting surface; can be titled forward by 14-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forward and backward by 1-122.5 on vertical mounting surface; can be titled forwa	Short-circuit protection	
- with type of coordination 1 required - with type of assignment 2 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 - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - fastening method - screw and snap-on mounting outling surface: can be tilted forward and backward by ++ 22.5° on vertical mounting surface screw and snap-on mounting outling surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 - side-by-side mounting - forwards - with side-by-side mounting - forwards - downwards - at the side - downwards - at the side - downwards - at the side - downwards - of or grounded parts - forwards - forwards - of or wards - of o	design of the fuse link	
V. 80 kA) - with type of assignment 2 required • for short-circuit protection of the auxiliary switch • 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 * for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch required spacing * side-by-side mounting * side-by-side mounting * side-by-side mounting * with side-by-side mounting * with side-by-side mounting - with side-by-side mounting - forwards - upwards - upwards - downwards - of orwards - at the side - downwards - of rive parts - forwards - for wards - for wards - of rive parts - forwards - forwards - for ive parts - forwards - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for main current circuit -	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxillary switch required 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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • side-by-side mounting vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 vertical mounting mounting mounting mounting mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 vertical mounting m	— with type of coordination 1 required	
required Installation/ mounting/ dimensions mounting position	— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
### ### ##############################	·	gG: 10 A (500 V, 1 kA)
forward and backward by +f- 22.5° on vertical mounting surface screw and sany-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting height ves 1114 mm 1141 mm 1140 mm 1155 mm 120 mm required spacing * with side-by-side mounting - forwards - quywards - downwards - at the side * for grounded parts - forwards - upwards - upwards - the side * of or grounded parts - forwards - at the side * of or grounded parts - forwards - upwards - at the side * of or main current circuit * of or live parts - at the side * of or main current circuit * of or auxiliary and control circuit * of or auxiliary and control circuit * of or main current circuit * of auxiliary and control circuit * of main current cir	Installation/ mounting/ dimensions	
e side-by-side mounting height width depth vidth depth 114 mm 55 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — townwards — upwards — townwards — town	mounting position	
Meight width	fastening method	
width 55 mm depth 130 mm required spacing Image: spacing of converting of convectable conductor cross-section of maling contacts or space of a convectable conductor cross-section of maling contacts or space of convectable conductor cross-section for auxiliarry or converting of convectable conductor cross-section for auxiliarry or converting or converting converting converting conductor cross-section for auxiliarry or conducting of finely stranded with core end processing of finely stranded with core end processing of connectable conductor cross-section for auxiliarry or conducting conflicting contacts of finely stranded with core end processing of finely stranded with core end processing of finely stranded with core end processing of the converting conductor cross-section for auxiliarry or conductor cross-section for auxiliary 55 mm²	 side-by-side mounting 	Yes
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — 10 mm — of or grounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — upwards — 10 mm — at the side — downwards — 10 mm — of ror live parts — for live parts — forwards — upwards — 10 mm — of words — upwards — 10 mm — of main current circuit — for main current circuit — of or auxiliary and control circuit — of or auxiliary and control circuit — of magnet coil type of connectable conductor cross-sections — for main contacts — solid or stranded — at WG cables for main contacts — solid or stranded with core end processing — of finely stranded with core end processing — finely stranded with c	height	114 mm
e with side-by-side mounting forwards upwards downwards downwards for grounded parts forwards upwards forwards forwards forwards forwards upwards upwards upwards forwards upwards upwards for live parts forwards for live parts forwards upwards for live parts forwards for main current circuit for main current circuit of main contacts for main contacts finely stranded with core end processing finely stranded with core e	width	55 mm
with side-by-side mounting — forwards	depth	130 mm
forwards upwards downwards downwards at the side for grounded parts forwards upwards upwards at the side downwards at the side downwards at the side downwards at the side downwards for live parts forwards upwards downwards upwards downwards at the side downwards at the side downwards at the side for main current circuit for main current circuit for auxiliary and control circuit of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely st		
- upwards		
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— finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² 1 35 mm² 1 35 mm²		2x (1 35 mm²), 1x (1 50 mm²)
 at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary 		
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary		
connectable conductor cross-section for auxiliary		
connectable conductor cross-section for auxiliary	 finely stranded with core end processing 	1 35 mm²

 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
 solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 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
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 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	

Certificates/ approvals

General Product Approval

• safety-related switching OFF





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	
A	Type Examination		Special Test Certific-	Type Test Certific-

Yes



Certificate



<u>ate</u>

ates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good	
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Confirmation

Confirmation

Vibration and Shock

Transport Information

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=3RT2035-1AC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1AC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AC20

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1AC20&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1AC20/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1AC20&objecttype=14&gridview=view1