SIEMENS

Data sheet 3RT2035-3AL20



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 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	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 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 cup 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 	

	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
* with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 100 V rated value — at 600 V rated value — at 600 V rated value — at 500 V rated value — at 600	— 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
■ 1800 V rated value ■ 1800 V rated value 55 A ■ 12 V rated value 55 A ■ 14 40 V rated value 0.8 A ■ 15 K W	— 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 110 V rated value at 220 V rated value at 800 V rated value 800 r	— at 24 V rated value	55 A
at 220 V rated value	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
- at 600 V rated value	— at 220 V rated value	25 A
- at 600 V rated value	— at 440 V rated value	0.6 A
at AC-2 at 400 V rated value		
* at AC-2 at 400 V rated value * at AC-3 - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value * at AC-3e - at 230 V rated value * at AC-3e - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value * at 400 V rated value - at 690 V rated value * at 400 V rated value * at 400 V rated value * operating power for approx. 200000 operating cycles at AC-4 * at 400 V rated value * at 690 V rated value * op to 230 V for current peak value n=20 rated value * up to 400 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=30 rated value * up to 500 V for current pea		
		18.5 kW
at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 680 V rated value at 400 V rated value at 400 V rated value at 690 V roc current peak value n-20 rated value at 690 V for current peak value n-20 rated value at 690 V for current peak value n-20 rated value at 690 V for current peak value n-20 rated value at 690 V for current peak value n-30 rated value at 690 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current peak value n-30 rated value at 680 V for current for at 680 V for cur		
- at 400 V rated value		11 kW
- at 500 V rated value		
■ at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated value — at 690 V for current peak value n=30 rated valu		
- at 230 V rated value - at 500 V rated value - at 690 V rated value • at 400 V rated value • at 690 V rated value • pu to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum		ZZ KVV
- at 400 V rated value - at 500 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for current peak value n=30 rated value • to 600 V for		44 140
at 500 V rated value at 690 V rated value at 690 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • operating apparent power at AC-8a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 6		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • li		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 200 V for current peak value n=30 rated value • up to 200 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current maximum • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at		
* at 400 V rated value * at 690 V rated value * operating apparent power at AC-8a * up to 230 V for current peak value n=20 rated value * up to 400 V for current peak value n=20 rated value * up to 690 V for current peak value n=20 rated value * up to 690 V for current peak value n=20 rated value * up to 690 V for current peak value n=20 rated value * up to 690 V for current peak value n=30 rated value * up to 230 V for current peak value n=30 rated value * up to 400 V for current peak value n=30 rated value * up to 590 V for current peak value n=30 rated value * up to 690 V for current peak value n=30 rated value * 40 V C * limited to 1 s switching at zero current maximum * limited to 10 s swit		22 KW
at 400 V rated value 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 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 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 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum elimited to 80 s switching at zero current maximum elimited to 80 s switching at zero current maximum elimited to 80 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum 100-ad switching frequency e at AC operating frequency at AC-2 maximum 1 200 1/h at AC-3 maximum 1 200 1/h at AC-3 maximum 1 200 1/h at AC-3 maximum 1 200 1/h at AC-4 maximum 300 1/h		
e at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero cu		11 6 kW
operating apparent power at AC-8a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 550 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 330 V for current peak value n=30 rated value • up to 300 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 550 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 106 A; Use minimum cross-section acc. to AC-1 rated value 116.8 kVA 21 kVA 28.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 843 A; Use minimum cross-section acc. to AC-1 rated value 107 A; Use minimum cross-section acc. to AC-1 rated value 108 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC-1 rated value 109 A; Use minimum cross-section acc. to AC		
up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current neximum up to 690 V for current neximum up to		
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 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 up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum at AC- operating frequency at AC at AC- operating frequency at AC-1 maximum 1 200 1/h at AC-2 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-3 maximum 1 000 1/h at AC-4 maximum 300 1/h		14.5 kVA
• up to 500 V for current peak value n=20 rated value • 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 • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 3 s switching at zero current maximum • limited to 60 s switchi		
• up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to		
operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 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 1 000 1/h • at AC-3 maximum 1 000 1/h • at AC-4 maximum 300 1/h		
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum sharp to 400 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum sharp to 400 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum sharp to 400 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum sharp to 400 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum sharp to 400 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching frequency at AC-1 maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero cu		20.0 10/7
up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching		0.6 kV/A
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum fo A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum fo A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching frequency at AC fo 000 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 300 1/h 		
up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum inoload switching frequency at AC sound I/h at AC-2 maximum at AC-3 maximum at AC-4 maximum sound I/h at AC-4 maximum sound I/h at AC-4 maximum sound I/h sound I/h at AC-4 maximum sound I/h sound I/m sound I/m sound I/m sound I/m sound I/m		
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 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-3 maximum 1 000 1/h • at AC-3 maximum • at AC-4 maximum 1 000 1/h • at AC-4 maximum 300 1/h		
• limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 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-2 maximum • at AC-3 maximum 1 000 1/h • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum 300 1/h		20.0 KVA
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum 		
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum 300 1/h 		843 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 300 1/h 	- miniog to 1 9 switching at ACIO cultant maximum	,
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum 300 1/h 	-	596 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum 300 1/h 	• limited to 5 s switching at zero current maximum	
no-load switching frequency	 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value
 at AC 5 000 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 300 1/h at AC-4 maximum at AC-4 maximum 	 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value
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	 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum 	Iimited to 5 s switching at zero current maximum Iimited to 10 s switching at zero current maximum Iimited to 30 s switching at zero current maximum Iimited to 60 s switching at zero current maximum no-load switching frequency	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum 300 1/h 	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Ino-load switching frequency at AC	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 300 1/h 	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Ino-load switching frequency at AC Operating frequency	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h
 at AC-3e maximum at AC-4 maximum 300 1/h 	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Ino-load switching frequency at AC Operating frequency at AC-1 maximum	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h
• at AC-4 maximum 300 1/h	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h
	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency Implication at AC Imaximum Implication at AC-1 maximum Implication at AC-2 maximum Implication at AC-3 maximum Imp	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h
Control circuit/ Control	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency at AC Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h 1 000 1/h
	Imited to 5 s switching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 30 s switching at zero current maximum Imited to 60 s switching at zero current maximum Imoload switching frequency at AC Operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum	400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 200 1/h 750 1/h 1 000 1/h 1 000 1/h

type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	230 V
at 60 Hz rated value	230 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 contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
for single-phase AC motor	
 at 110/120 V rated value 	3 hp

	I and
- 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,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	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
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 #/-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 forwar backward by +/- 22.5° 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 forwar backward by +/- 22.5° 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 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 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 b	I and
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 • 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 such auxiliary switch required • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • of orwards — at the side • of or grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts	I and
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required	I and
- 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 - 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 welfast - forwards - downwards - downwards - at the side - downwards - for live parts - forwards - for live parts - forwards - forwar	I and
with type of assignment 2 required of or short-circuit protection of the auxiliary switch required social for short-circuit protection of the auxiliary switch required social for mounting dimensions H-180° rotation possible 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 +/- 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	I and
- with type of assignment 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position ##-/-180° rotation possible 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 +/- 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	
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	
Installation/ mounting/ dimensions mounting position +/-180° rotation possible 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 +/- 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 til	
mounting position +/-180° rotation possible 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 +/- 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	
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
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Certificates/ approvals	

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

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. $\label{eq:continuous}$

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=3RT2035-3AL20

Cax online generator

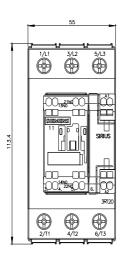
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AL20

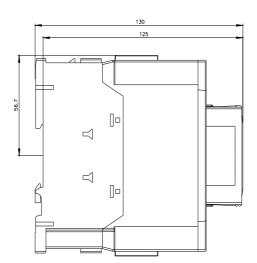
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AL20

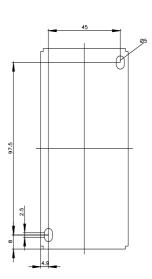
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

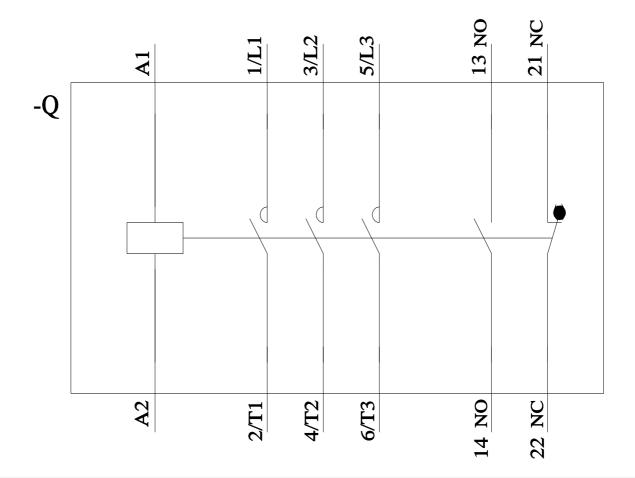
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT20

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AL20&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸