SIEMENS

Data sheet

3RT1065-6LA06



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V without operating mechanism 3-pole, auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	54 W
 at AC in hot operating state per pole 	18 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
● at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
● at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
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 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
● at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 1000 V rated value	95 A
 at AC-4 at 400 V rated value 	230 A
 at AC-5a up to 690 V rated value 	290 A
 at AC-5b up to 400 V rated value 	219 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	265 A
— up to 400 V for current peak value n=20 rated value	265 A
— up to 500 V for current peak value n=20 rated value	265 A
— up to 690 V for current peak value n=20 rated value	265 A
 — up to 1000 V for current peak value n=20 rated value 	95 A
• at AC-6a	104.4
— up to 230 V for current peak value n=30 rated value	184 A
— up to 400 V for current peak value n=30 rated value	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	117 A
• at 690 V rated value	105 A
operational current	
at 1 current path at DC-1	200.4
— at 24 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1 — at 24 V rated value	300 A

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— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	3 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	66 kW
at 690 V rated value	102 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	100 000 kVA
• up to 400 V for current peak value n=20 rated value	180 000 VA
• up to 500 V for current peak value n=20 rated value	220 000 VA
• up to 690 V for current peak value n=20 rated value	310 000 VA
 up to 1000 V for current peak value n=20 rated value value 	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
• up to 400 V for current peak value n=30 rated value	120 000 VA
• up to 500 V for current peak value n=30 rated value	150 000 VA
• up to 690 V for current peak value n=30 rated value	220 000 VA
 up to 1000 V for current peak value n=30 rated value 	160 000 VA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	4 880 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 785 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	1 276 A; Use minimum cross-section acc. to AC-1 rated value

In-back synthesing requency • if AC	and a with him for an and	
• at CC 2000 th • at AC-1 maximum 800 th • at AC-2 maximum 250 th • at AC-3 maximum 500 th • at AC-3 maximum 500 th • at AC-4 maximum 500 th • at AC 30 95 m • at AC 40 80 m • at AC 40 80 m • at AC 40 80 m • at CC 0 95 m • at CC 40 80 m • at CC 10 A • operation of conclus for auxillary contacts 2 • maximaneous contact for auxillary contacts 2 • maximaneous contact for auxillary contacts 2 • ot 800 V rated value 6 A • at 800 V rated value 1 A • ot	no-load switching frequency	2,000,1/h
operating frequency		
• at AC-1 maximum 800 th • at AC-3 maximum 500 th • at AC-3 maximum 500 th • at AC-4 maximum 500 th • at AC 30 . 95 ms • at AC 30 . 95 ms • at AC 40 . 80 ms • at AC 10 . 15 ms control version of the switch operating mechanism Without operating mechanism Auxiliary contexts 2 instanteneous contexts for auxiliary contexts 2 instanteneous context stor auxiliary contexts 2 instanteneous context stor auxiliary contexts 2 • at 300 V rated value 6 A • at 300 V rated value 10 A • at 300 V rated value 2 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value		2 000 1/11
e. A.A.2. maximum 250 th e. A.A.2. maximum 500 th e. A.A.S.a maximum 500 th e. A.A.S.a maximum 130 th Control Circuit/ Control ACIDC Control Circuit/ Control 3095 ms e. at A.C. 3095 ms e. at A.C. 3095 ms e. at D.C. 4080 ms e. at D.C. <td></td> <td>900 1<i>/</i>b</td>		900 1 <i>/</i> b
• at AC-3 maximum 500 th • at AC-4 maximum 130 th Control circuit/ Control supply voltage AC/DC closing delay		
• al AC-3 maximum 500 th • al AC-4 maximum 130 th Control Execut/ Control AC/DC Coising data AC/DC • al AC 3095 ms • at AC 4080 ms • at Co 4080 ms • at Co 4080 ms • at Co Contacts for auxiliary contacts 2 • instantaneous contact 2 • instantaneous contact for auxiliary contacts 2 • at 30 V rated value 5 A • at 30 V rated value 5 A • at 30 V rated value 6 A • at 30 V rated value 10 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 7 A • at 60 V rated value 7 A • at 60		
• at AC-4 maximum 130 1/h Control Cricitly Gostrol Vego 6 Voilage of the control supply voltage AC/DC • at AC 3095 ms • at AC 3095 ms • at AC 4080 ms • at AC 2 Instananeous contact 2 Instananeous contact 2 • at 400 V rated value 3A • at 400 V rated val		
Sontrol Circuit/ Costrol type of voltage of the control supply voltage closing delay • at AC • at DC 30		
type of voltage of the control supply voltage AC/DC closing delay at AC 30 95 ms • at AC 30 95 ms 30 95 ms • at AC 40 80 ms 40 80 ms • at AC 40 80 ms 40 80 ms • at DC 40 80 ms 10 15 ms control version of the switch operating mechanism 10 15 ms Auxiliary circuit 10 A number of NC contacts for auxiliary contacts 2 instantaneous contact 2 operational current at AC-15 6 A • at 300 V rated value 3 A • at 300 V rated value 2 A • at 400 V rated value 2 A • at 400 V rated value 5 A • at 40 V rated value 5 A • at 40 V rated value 5 A • at 40 V rated value 6 A		130 1/1
closing delay a • at AC 3095 ms opening delay - • at AC 4080 ms • at DC 4080 ms control version of the switch operating mechanism Without operating mechanism Auxiliary circuit 080 ms operational current at AC-15 2 instantaneous contact 080 ms • at 300 V rated value 6.A • at 300 V rated value 3.A • at 600 V rated value 2.A • at 600 V rated value 6.A • at 600 V rated value 6.A • at 20 V rated value 6.A • at 20 V rated value 10.A		
i at DC		AC/DC
• at DC 30 95 ms • et AC 40 80 ms • at DC at DC • at SO Vactor shot of the switch operating mechanism Without operating mechanism • at SO Vactor shot of a swillary contacts 2 • instantaneous contact 2 • instantaneous contact 2 • at 300 V rated value 6 A • at 300 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 6 A • at 30 V rated value 7 A • at 30 V rated value 10 A • at 30 V rated value 10 A • at 30 V rated value 10 A •		00 05
opening delay 4080 ms • at AC 4080 ms • at DC 4080 ms arcing time 1015 ms control version of the switch operating mechanism 1015 ms Availary circuit 2 number of NC contacts for auxiliary contacts 2 instantaneous contact 2 operational current at AC-12 maximum 10.A operational current at AC-15 6 • at 200 Vrated value 2A • at 400 Vrated value 2A • at 600 Vrated value 10.A operational current at AC-12		
ai AC 4080 ms arcing time 10 15 ms control version of the switch operating mechanism Without operating mechanism Number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 number of NC contacts for auxiliary contacts 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 0 A operational current at AC-12 maximum 2 A at 400 V rated value 2 A at 230 V rated value 6 A at 400 V rated value 2 A at 600 V rated value 2 A at 600 V rated value 6 A at 400 V rated value 7 A at 600 V rated value		30 95 ms
arcing time 4080 ms arcing time 1015 ms control version of the switch operating mechanism Without operating mechanism Auxiliary clicult 2 instantaneous contad 2 instantaneous contad 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 • at 300 V rated value 6 A • at 300 V rated value 3 A • at 600 V rated value 10 A operational current at AC-15 10 A • at 400 V rated value 6 A • at 600 V rated value 10 A • at 60 V rated value 6 A • at 125 V rated value 6 A • at 125 V rated value 10 A • at 60 V rated value 10 A • at		10 00
accing time 10 15 ms control version of the switch operating mechanism Withou operating mechanism Avxiliary circuit 2 number of NC contacts for auxiliary contacts 2 instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 et 200 V rated value 6 A et 300 V rated value 2 A et 6500 V rated value 2 A et 6500 V rated value 10 A operational current at DC-12 10 A et 300 V rated value 10 A operational current at DC-12 10 A et 300 V rated value 6 A et 300 V rated value 10 A et 300 V rated value 10 A et 300 V rated value 10 A et 3110 V rated value 10 A et 320 V rated value 2 A et 320 V rated value		
control version of the switch operating mechanism Without operating mechanism Auxiliary cricatt Instantaneous contacts 2 instantaneous contacts 2 1 operational current at AC-12 maximum 10 A 0 operational current at AC-15 6 4 • at 200 V rated value 3 A - • at 600 V rated value 2 A - • at 600 V rated value 1 A - operational current at DC-12 - - • at 60 V rated value 6 A - • at 60 V rated value 6 A - • at 60 V rated value 6 A - • at 60 V rated value 6 A - • at 60 V rated value 0 A - • at 20 V rated value 0 A - • at 20 V rated value 0 A - • at 20 V rated value 0 A - • at 20 V rated value 0 A - • at 20 V rated value 0 A - • at 60 V rated value 0 A -		
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number of NC contacts for auxiliary contacts 2 instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-13 6 A • at 230 V rated value 2 A • at 600 V rated value 1 A operational current at DC-12 0 A • at 80 V rated value 6 A • at 80 V rated value 1 A • at 21 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 80 V rated value 2 A • at 80 V rated value 1 A • at 80 V rated value 2 A • at 80 V rated value 2 A • at 80 V rated value 2 A <td></td> <td></td>		
Initialinaneous contact instantaneous contact instantaneous contact coperational current at AC-12 maximum coperational current at AC-12 maximum instantaneous contact i coperational current at AC-12 maximum i to A coperational current at AC-12 maximum i to A coperational current at AC-12 maximum i to A coperational current at AC-16 i at 200 V rated value i to A i at 500 V rated value i to A i at 500 V rated value i to A i at 500 V rated value i to A i at 500 V rated value i to A i at 48 V rated value i to A i at 48 V rated value i to A i at 48 V rated value i to A i at 48 V rated value i to A i at 48 V rated value i to A i at 48 V rated value i to A i at 200208 V rated value i to A i at 200208 V rated value i to A i at 200208 V rated value i to A i at 200208 V rated value i to A i at 200208 V rated value i to A i at 200208 V rated value i to A i		2
Instantaneous contad operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 240 V rated value • at 500 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 250 V rated value • at 350 V rated value • at 575 for • at 350 V rated value • at 575 for • at 450 V rated value • at 575 for • at 450 V rated value • at 575 for • a	instantaneous contact	
operational current at AC-15 6 • it 230 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 80 V rated value 6 A • at 10 V rated value 6 A • at 20 V rated value 7 A • at 20 V rated value 10 A • at 600 V rated value 10 A • at 60 V rated value 2 A • at 60 V rated value 10 A • at 60 V rated value 0.1 A concat reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 240 A • at 600 V rated value 240 A	instantaneous contact	
 at 230 V rated value at 400 V rated value 3 A at 400 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 60 V rated value 6 A at 10 V rated value 6 A at 10 V rated value 6 A at 60 V rated value 7 A at 20 V rated value 10 A at 48 V rated value 20 V rated value 10 A at 48 V rated value 10 A at 30 V rated value 10 A at 40 V rated value 10 A at 20 V rated value 10 A at 10 V rated value 10 A at 20 V rated value 0.9 A at 20 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor at 400 V rated value 240 A 240 A 240 A 242 A yielded mechanical performance [np] of 3-phase AC motor - at 200/200 V rated value 250 hp -		10 A
 ait 400 V rated value 3 A ait 500 V rated value 2 A ait 500 V rated value 1 A operational current at DC-12 ait 44 V rated value 6 A ait 60 V rated value 6 A ait 60 V rated value 6 A ait 10 V rated value 8 A ait 125 V rated value 2 A ait 25 V rated value 0.15 A operational current at DC-13 ait 25 V rated value 2 A ait 20 V rated value 0.15 A operational current at DC-13 ait 20 V rated value 2 A ait 20 V rated value 3 A ait 300 V rated value 0.9 A ait 20 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor ait 400 V rated value 240 A ait 600 V rated value 242 A yielded mechanical performance [np] for 3-phase AC motor ait 400 V rated value 200 hp ait 200/208 V rated value 200 hp ait 400 V rated value 200 hp ait 400 V rated value 200 hp a	-	
 at 500 V rated value 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 10 V rated value 3 A at 110 V rated value 2 A at 200 V rated value 0.15 A operational current at DC-13 at 60 V rated value 2 A at 60 V rated value 0.15 A operational current at DC-13 at 60 V rated value 2 A at 60 V rated value 2 A at 60 V rated value 3 A at 220 V rated value 0.3 A at 220 V rated value 0.4 A at 60 V rated value 0.4 A at 60 V rated value 1 A at 200 V rated value 2 A at 60 V rated value 1 A at 200 V rated value 0.3 A at 60 V rated value 0.1 A concat creliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 240 A 242 A yielded mechanical performance [hp] of or 3-phase AC motor at 200/200 V rated value 250 hp at 200/200 V rated value 260 hp at 200/200 V rated value 250 hp at 200/200 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit with type of coordination 1 required gG: 500 A (690 V, 100 kA) 		
• at 690 V rated value 1 Å operational current at DC-12 • • at 48 V rated value 6 Å • at 48 V rated value 6 Å • at 10 V rated value 3 Å • at 110 V rated value 2 Å • at 220 V rated value 0.15 Å • at 600 V rated value 0.15 Å • at 600 V rated value 2 Å • at 600 V rated value 0.15 Å operational current at DC-13 • • at 60 V rated value 2 Å • at 20 V rated value 0.9 Å • at 110 V rated value 0.3 Å • at 220 V rated value 0.3 Å • at 600 V rated value 240 Å • at 600 V rated value 242 Å • at 600 V rated value 242 Å • at 800 V rated value 240 Å • at 600 V rated value 240 Å • at 60		
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 220 V rated value 0.15 A operational current at DC-13 • • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 0.15 A operational current at DC-13 • • at 24 V rated value 2 A • at 10 V rated value 2 A • at 25 V rated value 0.9 A • at 10 V rated value 0.9 A • at 20 V rated value 0.1 A • at 600 V rated value 0.1 A • at 600 V rated value 240 A • at 600 V rated value 240 A • at 600 V rated value 240 A • at 480 V rated value 240 A • at 480 V rated value 250 b p - at 200/280 V rated value 200 b p - at 200/280 V rated		
• at 24 V rated value 10 Å • at 48 V rated value 6 Å • at 60 V rated value 6 Å • at 110 V rated value 3 Å • at 125 V rated value 2 Å • at 200 V rated value 1 Å • at 200 V rated value 0.15 Å operational current at DC-13		1 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 0.9 A • at 20 V rated value 0.9 A • at 20 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UJCSA ratings full-oad current (FLA) for 3-phase AC motor 440 A • at 600 V rated value 240 A • at 600 V rated value 250 hp - at 200/208 V rated value 260 hp - at 200/208 V rated		40.4
• 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 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 0.9 A • at 220 V rated value 0.3 A • at 220 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 800 V rated value 240 A • at 600 V rated value 260 hp • at 600 V rated value 200 hp • at 600 V rated value 200 hp - at 575/600 V rated valu		
• at 110 V rated value3 A• at 25 V rated value2 A• at 200 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13•• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 10 V rated value0.9 A• at 22 V rated value0.3 A• at 20 V rated value0.1 A• at 20 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 600 V rated value242 Ayielded mechanical performance [tp]• for 3-phase AC motor• at 200/208 V rated value250 hp• at 460480 V rated value250 hp• at 460480 V rated value250 hp• at 6575/600 V rated value250 hp• contact rating of auxiliary contacts according to ULA600 / Q600Stort-circuit protection of the main circuit• with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)		
• 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 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 10 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 0.9 A • at 125 V rated value 0.3 A • at 20 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 240 A • at 600 V rated value 250 hp • at 220/230 V rated value 200 hp • at 220/230 V rated value 200 hp • at 607480 V rated value 250 hp • at 675/600 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600		
• 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 60 V rated value 2 A • at 10 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-oad current (FLA) for 3-phase AC motor - • at 600 V rated value 240 A • at 600 V rated value 242 A yielded mechanical performance [hp] - • for 3-phase AC motor - • at 220/230 V rated value 100 hp - at 220/230 V rated value 200 hp - at 480/480 V rated value 200 hp - at 600/230 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection 4600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required <td></td> <td></td>		
• 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 10 V rated value 1 A • at 125 V rated value 0.9 A • at 200 V rated value 0.1 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 600 V rated value 240 A • at 600 V rated value 242 A yielded mechanical performance [hp] - • for 3-phase AC motor - - at 200/208 V rated value 240 A • at 600 V rated value 240 A • at 600 V rated value 240 A - at 200/208 V rated value 200 hp - at 200/208 V rated value 200 hp - at 60/480 V rated value 200 hp - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection<		
operational current at DC-13• at 24 V rated value10 A• at 48 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 600 V rated value242 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value242 Ayielded mechanical performance [hp]- at 460/480 V rated value200 hp- at 460/480 V rated value200 hp- at 460/480 V rated value250 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiongG: 500 A (690 V, 100 kA)		
• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 480 V rated value240 A• at 600 V rated value242 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 200/208 V rated value75 hp- at 200/208 V rated value100 hp- at 200/208 V rated value200 hp- at 450/480 V rated value200 hp- at 575/600 V rated value250 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse linkgG: 500 A (690 V, 100 kA)• with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)		0.13 A
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings• at 480 V rated value240 A• at 480 V rated value242 A• at 600 V rated value242 A• at 600 V rated value242 A• at 600 V rated value200 hp- at 200/208 V rated value200 hp- at 200/208 V rated value200 hp- at 460/480 V rated value250 hp• at 600 V rated value3600 / Q600• brot-circuit protection4600 / Q600• or short-circuit protection of the main circuitgG: 500 A (690 V, 100 kA)	•	10 Δ
• 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 240 A • at 600 V rated value 242 A yielded mechanical performance [hp] • • for 3-phase AC motor - - at 220/230 V rated value 75 hp - at 220/230 V rated value 200 hp - at 460/480 V rated value 200 hp - at 460/480 V rated value 200 hp - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection Gesign of the fuse link • for short-circuit protection of the main circuit - - with type of coordination 1 required gG: 500 A (690 V, 100 kA)		
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value240 A• at 480 V rated value242 Ayielded mechanical performance [hp]• for 3-phase AC motor- at 220/208 V rated value75 hp- at 220/208 V rated value100 hp- at 460/480 V rated value200 hp- at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)		
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 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 240 A at 600 V rated value 242 A yielded mechanical performance [hp] for 3-phase AC motor at 220/230 V rated value 75 hp at 220/230 V rated value 200 hp at 600480 V rated value 200 hp at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 500 A (690 V, 100 kA) 		
• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor240 A• at 480 V rated value242 A• at 600 V rated value242 Ayielded mechanical performance [hp]-• for 3-phase AC motor at 200/208 V rated value75 hp- at 200/208 V rated value200 hp- at 460/480 V rated value200 hp- at 575/600 V rated value250 hpContact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection-design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 500 A (690 V, 100 kA)		
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• at 600 V rated value242 Ayielded mechanical performance [hp]-• for 3-phase AC motor at 200/208 V rated value75 hp- at 220/230 V rated value100 hp- at 460/480 V rated value200 hp- at 575/600 V rated value250 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection		240 A
 for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value bp at 220/230 V rated value bp at 460/480 V rated value bp at 460/480 V rated value bp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 500 A (690 V, 100 kA) 	• at 600 V rated value	242 A
 for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value bp at 220/230 V rated value bp at 460/480 V rated value bp at 460/480 V rated value bp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required gG: 500 A (690 V, 100 kA) 	yielded mechanical performance [hp]	
	 for 3-phase AC motor 	
	— at 200/208 V rated value	75 hp
	— at 220/230 V rated value	100 hp
contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	— at 460/480 V rated value	200 hp
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA)		250 hp
design of the fuse link gG: 500 A (690 V, 100 kA)		A600 / Q600
for short-circuit protection of the main circuit	Short-circuit protection	
- with type of coordination 1 required gG: 500 A (690 V, 100 kA)	design of the fuse link	
	 for short-circuit protection of the main circuit 	
- with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415		o
	 — with type of assignment 2 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415

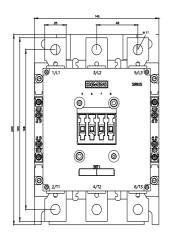
	V, 50 kA)			
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)			
required				
Installation/ mounting/ dimensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
fastening method	screw fixing			
side-by-side mounting	Yes			
height	210 mm			
width	145 mm			
depth	202 mm			
required spacing				
 with side-by-side mounting 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards• for live parts	10 mm			
for live parts — forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	Connection bar			
 for auxiliary and control circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
of magnet coil	Screw-type terminals			
width of connection bar	25 mm			
thickness of connection bar	6 mm			
diameter of holes	11 mm			
number of holes	1			
type of connectable conductor cross-sections				
at AWG cables for main contacts	2/0 500 kcmil			
connectable conductor cross-section for main contacts				
stranded	70 240 mm²			
connectable conductor cross-section for auxiliary	10 240 mm			
contacts				
 solid or stranded 	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)			
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)			
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
 at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross 	2x (20 16), 2x (18 14), 1x 12			
section				
 for auxiliary contacts 	18 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			
T1 value for proof test interval or service life according to IEC 61508	20 у			
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover			

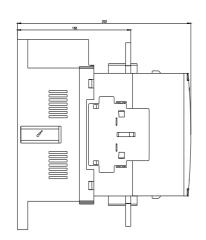
touch protection on the front according to IEC 60529		DIEC 60529	finger-safe, for vertical contact from the front with box terminal/cover			
 suitability for use safety-related switching OFF 			No			
Certificates/ approva	ls					
General Product A	pproval					
SP Car	CCC	<u>Confirmation</u>		<u>KC</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of	Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	Special Test Certific- ate	
Marine / Shipping				other		
ABS	Lloyd's Register uis	PRS	RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>	
other	Railway					
<u>Miscellaneous</u>	Special Test Certific- ate	Vibration and Sh	<u>ock</u>			

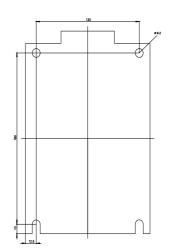
Further information

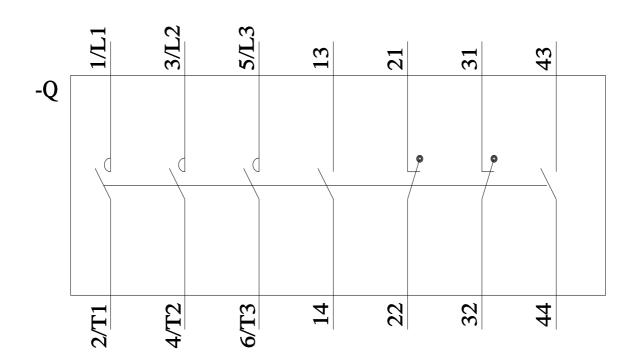
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6LA06&objecttype=14&gridview=view1









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