SIEMENS

Data sheet



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal auxiliary switch block 2 NO + 2 NC lateral, left + right captive auxiliary switch block DIN 50012

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
Seneral 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
 without load current share typical 	7.4 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 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	3
at AC-3 rated value maximum	1 000 V
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V
operational current	1 000 V
• at AC-1 at 400 V at ambient temperature 40 °C	330 A
rated value	000 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	330 A
rated value	
— up to 690 V at ambient temperature 60 °C	300 A
rated value	
— up to 1000 V at ambient temperature 40 °C	150 A
rated value — up to 1000 V at ambient temperature 60 °C	150 A
rated value	100 Λ
• 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	210 A
— up to 230 V for current peak value n=20 rated	265 A
value	200 A
— up to 400 V for current peak value n=20 rated	265 A
value	
— up to 500 V for current peak value n=20 rated	265 A
value	200.4
 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	95 A
value	00 N
• at AC-6a	
— up to 230 V for current peak value n=30 rated	184 A
value	
— up to 400 V for current peak value n=30 rated	184 A
value	
— up to 500 V for current peak value n=30 rated	184 A
value	19.4 Λ
 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	95 A
value	
minimum cross-section in main circuit at maximum AC-1	185 mm²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	117 A
at 690 V rated value at 690 V rated value	105 A
	100 Λ
operational current	
at 1 current path at DC-1 at 241/ rated value.	200 A
— at 24 V rated value	300 A

	,	
	— at 110 V rated value	
	— at 220 V rated value	3.8 A
• with 2 current paths in series at DC-1 — at 24 V rated value — at 140 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 25 V rated value — at 26 V rated value — at 27 V rated value — at 28 V rated value — at 20 V rated value — at 20 V rated value — at 600 V rated value — at 170 V rated value — at 170 V rated value — at 170 V rated value — at 1600 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 25 A — at 24 V rated value — at 25 A — at 24 V rated value — at 25 A — at 24 V rated value — at 25 A — at 24 V rated value — at 25 A — at 24 V rated value — at 25 A — at 24 V rated value — at 600 V rated value — at 170 V rated value — at 170 V rated value — at 600 V rated value — at 60	— 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
at 440 V rated value 2 A	— at 110 V rated value	300 A
■ with 3 current paths in series at DC-1 300 A — at 110 V rated value 300 A — at 110 V rated value 300 A — at 220 V rated value 11 A — at 440 V rated value 11 A — at 6000 V rated value 5.2 A • at 1 current path at DC-3 at DC-5 300 A — at 110 V rated value 3 A — at 22 V rated value 0.6 A — at 24 V rated value 0.18 A — at 400 V rated value 0.125 A — at 440 V rated value 0.125 A — at 22 V rated value 0.125 A — at 22 V rated value 300 A — at 110 V rated value 300 A — at 22 V rated value 2.5 A — at 440 V rated value 0.85 A — at 440 V rated value 0.85 A — at 440 V rated value 0.85 A — at 440 V rated value 300 A — at 110 V rated value 300 A — at 110 V rated value 300 A — at 22 V rated value 2.5 A — at 440 V rated value 1.4 A — at 230 V rated value	— at 220 V rated value	300 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 111 A — at 600 V rated value 52 A • at 1 current path at DC-3 at DC-5 — at 24 V rated value 300 A — at 110 V rated value 3A — at 220 V rated value 0.6 A — at 240 V rated value 0.6 A — at 440 V rated value 0.18 A — at 600 V rated value 0.18 A — at 600 V rated value 300 A — at 110 V rated value 300 A — at 110 V rated value 300 A — at 110 V rated value 300 A — at 120 V rated value 300 A — at 220 V rated value 0.65 A — at 440 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 440 V rated value 300 A — at 220 V rated value 300 A — at 220 V rated value 300 A — at 110 V rated value 300 A — at 24 O V rated value 300 A — at 260 V rated value 300 A — at 400 V rated value 300 A — at 320 V rated value 300 A — at 3600 V rated value 32 kW — at 400 V rated value 132 kW — at 400 V rated value 152 kW — at 320 V rated value 160 kW — at 600 V rated value 160 kW — at 500 V rated value 160 kW	— at 440 V rated value	4 A
at 24 V rated value 300 A 3	— at 600 V rated value	2 A
at 110 V rated value 300 A at 220 V rated value 300 A at 440 V rated value 111 A at 600 V rated value 5.2 A at 44 OV rated value 5.2 A at 124 V rated value 300 A at 110 V rated value 3A at 220 V rated value 3A at 220 V rated value 0.6 A at 440 V rated value 0.18 A at 600 V rated value 0.18 A at 600 V rated value 0.18 A at 600 V rated value 300 A at 110 V rated value 300 A at 220 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 300 A at 600 V rated value 300 A at 110 V rated value 300 A at 110 V rated value 300 A at 210 V rated value 300 A at 220 V rated value 300 A at 230 V rated value 1.4 A at 600 V rated value 1.4 A at 600 V rated value 1.5 KW at 600 V rated value 1.32 kW at 600 V rated value 132 kW at 500 V rated value 132 kW at 600 V rated value 132 kW at 500 V rated value 132 kW at 600 V rated value 132 kW at 600 V rated value 150 kW at 500 V rated value 150 kW at 600 V rated value 150 kW	 with 3 current paths in series at DC-1 	
at 220 V rated value	— at 24 V rated value	300 A
at 440 V rated value 5.2 A at 600 V rated value 5.2 A at 600 V rated value 5.2 A at 100 V rated value 300 A at 24 V rated value 300 A at 110 V rated value 0.6 A at 220 V rated value 0.18 A at 600 V rated value 0.18 A at 600 V rated value 0.18 A at 600 V rated value 300 A at 110 V rated value 2.5 A at 440 V rated value 300 A at 124 V rated value 300 A at 600 V rated value 300 A at 600 V rated value 300 A at 600 V rated value 300 A at 110 V rated value 300 A at 124 V rated value 300 A at 120 V rated value 300 A at 24 V rated value 300 A at 24 V rated value 300 A at 440 V rated value 300 A at 4500 V rated value 300 A at 4500 V rated value 300 A at 600 V rated value 300 A at 600 V rated value 300 A at 600 V rated value 300 A at 250 V rated value 300 A at 250 V rated value 300 A at 400 V rated value 300 A at 500 V rated value 300 A at 400 V rated value 300 A at 660 V rated value 300 A at 660 V rated value 300	— at 110 V rated value	300 A
■ at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 400 V rated value — at 600 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 650 V rated value — at 220 V rated value — at 230 V rated value — at 650 V rated value — at 250 V rated value — at 650	— at 220 V rated value	300 A
■ at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 460 V rated value — at 600 V rated value — at 600 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — 300 A — at 440 V rated value — 300 A — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 250 V rated value — at 400 V rated value — 300 A — at 440 V rated value — 300 A — at 4500 V rated value — 312 W — at 500 V rated value — 132 kW — at 500 V rated value — 160 kW — at 500 V rated value — 175 kW — at 500 V rated value — 180 V ra	— at 440 V rated value	11 A
- at 24 V rated value 300 A 3 A - at 110 V rated value 0.6 A - at 220 V rated value 0.18 A - at 220 V rated value 0.18 A - at 440 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 2.5 A - at 220 V rated value 2.5 A - at 440 V rated value 2.5 A - at 600 V rated value 300 A - at 110 V rated value 300 A - at 140 V rated value 300 A - at 220 V rated value 300 A - at 24 V rated value 300 A - at 440 V rated value 300 A - at 1600 V rated value 300 A - at 110 V rated value 300 A - at 110 V rated value 300 A - at 140 V rated value 300 A - at 140 V rated value 300 A - at 220 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.2 A - at 400 V rated value 1.2 A - at 400 V rated value 1.2 A - at 230 V rated value 1.2 A - at 400 V rated value 1.2 A - at 500 V rated value 1.2 A - at 500 V rated value 1.2 A - at 500 V rated value 1.3 A - at 600 V rated value 1.3 A - at 400 V rated value 1.3 A - at 600 V rated value 1.3 A - at	— at 600 V rated value	5.2 A
- at 110 V rated value	• at 1 current path at DC-3 at DC-5	
at 220 V rated value 0.6 A 0.18 A 0.125 A at 440 V rated value 0.125 A at 440 V rated value 0.125 A at 24 V rated value 300 A at 220 V rated value 300 A at 220 V rated value 300 A at 240 V rated value 306 A at 440 V rated value 0.65 A at 600 V rated value 30.37 A at 220 V rated value 30.37 A at 240 V rated value 300 A at 440 V rated value 300 A at 240 V rated value 300 A at 440 V rated value 300 A at 440 V rated value 300 A at 4600 V rated value 300 A at 600 V rated value 300 A at 230 V rated value 300 A at 600 V rated value 300 A at 200 V rated value 300 A at 600 V	— at 24 V rated value	300 A
at 440 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 2.5 A at 440 V rated value 0.65 A at 440 V rated value 0.37 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 • 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 120 V rated value 300 A at 220 V rated value 300 A at 440 V rated value 14 A at 600 V rated value 9.75 A operating power • at AC-2 at 400 V rated value 132 kW • at AC-3 at 230 V rated value 152 kW at 400 V rated value 152 kW at 400 V rated value 152 kW at 500 V rated value 250 kW at 1000 V rated value 132 kW • at AC-3e at 230 V rated value 152 kW at 400 V rated value 152 kW at 500 V rated value 152 kW at 500 V rated value 152 kW at 400 V rated value 152 kW	— at 110 V rated value	3 A
at 440 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 2.5 A at 440 V rated value 0.65 A at 440 V rated value 0.37 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 • 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 120 V rated value 300 A at 220 V rated value 300 A at 440 V rated value 14 A at 600 V rated value 9.75 A operating power • at AC-2 at 400 V rated value 132 kW • at AC-3 at 230 V rated value 152 kW at 400 V rated value 152 kW at 400 V rated value 152 kW at 500 V rated value 250 kW at 1000 V rated value 132 kW • at AC-3e at 230 V rated value 152 kW at 400 V rated value 152 kW at 500 V rated value 152 kW at 500 V rated value 152 kW at 400 V rated value 152 kW	— at 220 V rated value	
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 A — at 110 V rated value 0.65 A — at 460 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 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 110 V rated value 300 A — at 220 V rated value 300 A — at 200 V rated value 300 A — at 240 V rated value 9.75 A operating power • at AC-2 at 400 V rated value 132 kW • at AC-3 — at 230 V rated value 132 kW — at 500 V rated value 150 kW — at 690 V rated value 152 kW — at 1000 V rated value 152 kW • at AC-3e — at 230 V rated value 152 kW — at 500 V rated value 152 kW • at 400 V rated value 160 kW — at 1000 V rated value 160 kW • at 400 V rated value 160 kW • at 690 V rated value 160 kW		
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value 2.5 A — at 440 V rated value 0.65 A — at 460 V rated value 0.65 A 0.37 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 300 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 120 V rated value 300 A — at 440 V rated value 300 A — at 460 V rated value 300 A • at 460 V rated value 312 A — at 600 V rated value 132 kW • at AC-3 — at 230 V rated value 313 kW • at AC-3 — at 500 V rated value 325 kW • at 690 V rated value 326 kW • at 690 V rated value 337 kW • at 4C-3e — at 230 V rated value 338 kW • at 650 V rated value 339 kW • at 690 V rated value 330 kW • at 400 V rated value 330 kW • at 400 V rated value 330 kW • at 400 V rated value 330 kW • at 690 V rated value 330 kW • at 400 V rated value		
at 24 V rated value 300 A at 110 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 110 V rated value 300 A at 120 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 150 kW at 600 V rated value 150 kW at 600 V rated value 150 kW at 400 V rated value 150 kW at 500 V rated value 150 kW at 600 V rated value 150 kW at 1000 V rated value 150 kW at 400 V rated value 160 kW		
- at 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value ■ with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value 300 A - at 120 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 ■ at AC-3 - at 230 V rated value - at 400 V rated value 132 kW - at 400 V rated value - at 690 V rated value 132 kW - at 690 V rated value - at 400 V rated value 132 kW - at 690 V rated value - at 1000 V rated value 132 kW - at 1000 V rated value - at 1000 V rated value 132 kW - at 400 V rated value 132 kW	•	300 A
- at 220 V rated value 2.5 A - at 440 V rated value 0.65 A - at 400 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 240 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.5 A • at AC-2 at 400 V rated value 132 kW • at AC-3 - at 230 V rated value 132 kW - at 500 V rated value 150 kW - at 400 V rated value 150 kW - at 400 V rated value 152 kW • at AC-3 - at 230 V rated value 152 kW • at AC-3 - at 230 V rated value 152 kW • at 1000 V rated value 152 kW • at 1000 V rated value 152 kW • at 1000 V rated value 152 kW • at AC-3 - at 230 V rated value 152 kW • at 1000 V rated value 152 kW • at 1000 V rated value 152 kW • at 1000 V rated value 152 kW • at 400 V rated value 160 kW		
at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 210 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 75 kW at 75		
 at 600 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 120 V rated value — at 440 V rated value — at 4600 V rated value — at 660 V rated value 0.75 A Operating power at AC-2 at 400 V rated value 132 kW at AC-3 — at 230 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 230 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 500 V rated value — at 1000 V rated value — at 200 V rated value — at 200 V rated value — at 200 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 1000 V rated value — at 400 V rated value — at 1000 V rated value — at 400 V rated value — at 66 kW 		
 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 operating power at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at AC-3e at 400 V rated value at 8W at 400 V rated value at 8W at AC-3e at 400 V rated value at AC-3e at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 400 V rated value		
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-2 at 400 V rated value 132 kW • at AC-3 at 230 V rated value 132 kW at 400 V rated value 132 kW at 500 V rated value 150 kW at 690 V rated value 250 kW at 1000 V rated value 132 kW at 300 V rated value 132 kW at 500 V rated value 132 kW at 1000 V rated value 132 kW at 1000 V rated value 132 kW at 400 V rated value 132 kW at 700 V rated value 132 kW at 1000 V rated value 132 kW at 1000 V rated value 132 kW at 1000 V rated value 132 kW at 400 V rated value 132 kW		
at 110 V rated value 300 A at 220 V rated value 1.4 A at 440 V rated value 0.75 A operating power	-	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-2 at 400 V rated value 132 kW ■ at AC-3 at 230 V rated value 75 kW at 400 V rated value 180 kW at 500 V rated value 150 kW at 690 V rated value 250 kW at 1000 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at AC-3e at 230 V rated value 132 kW ■ at 400 V rated value 132 kW at 400 V rated value 132 kW at 400 V rated value 132 kW at 500 V rated value 160 kW at 1000 V rated value 160 kW at 400 V rated value 160 kW at 1000 V rated value 160 kW at 1000 V rated value 160 kW at 1000 V rated value 160 kW at 400 V rated value 160 kW		
- at 440 V rated value - at 600 V rated value 0.75 A operating power • 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 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 1000 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 666 kW • at 690 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value		
— at 600 V rated value 0.75 A operating power 132 kW ● at AC-2 at 400 V rated value 132 kW ● at AC-3 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 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 ● at 400 V rated value 66 kW ● at 690 V rated value 102 kW		
operating power		
 at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value — at 400 V rated value — at 1000 V rated value — at 400 V rated value — at 600 V rated value 		0.7074
 at AC-3 — at 230 V rated value		132 kW
at 230 V rated value 75 kW at 400 V rated value 132 kW at 500 V rated value 250 kW at 690 V rated value 132 kW ■ at AC-3e at 230 V rated value 75 kW at 400 V rated value 132 kW at 400 V rated value 132 kW at 1000 V rated value 132 kW at 1000 V rated value 132 kW at 1000 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		102 RVV
- at 400 V rated value 132 kW - at 500 V rated value 250 kW - at 690 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 132 kW orat 500 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		75 kW
- at 500 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 ■ at 1000 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		
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		
 — at 1000 V rated value ■ at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value 132 kW — at 1000 V rated value 160 kW — at 400 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 690 V rated value 102 kW 		
 at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 66 kW at 690 V rated value 102 kW 		
— 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		IOL IIII
— 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		75 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 66 kW • at 400 V rated value 66 kW • at 690 V rated value 102 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 power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 102 kW		
at AC-4		IJA NVV
 at 400 V rated value at 690 V rated value 102 kW 		
• at 690 V rated value 102 kW		66 kW
• up to 230 V for current peak value n=20 rated value 100 000 kVA		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 160 000 VA		
value		
operating apparent power at AC-6a	operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 70 000 VA	• 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 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 	160 000 VA	
value		
short-time withstand current in cold operating state up to 40 °C		
Iimited to 1 s switching at zero current maximum	4 880 A; Use minimum cross-section acc. to AC-1 rated value	
	4 045 A; Use minimum cross-section acc. to AC-1 rated value	
Ilimited to 5 s switching at zero current maximum		
Iimited 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	
Iimited to 60 s switching at zero current maximum	1 276 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency		
• at AC	2 000 1/h	
• at DC	2 000 1/h	
operating frequency		
at AC-1 maximum	800 1/h	
 at AC-2 maximum 	300 1/h	
 at AC-3 maximum 	700 1/h	
• at AC-3e maximum	700 1/h	
• at AC-4 maximum	130 1/h	
Control circuit/ Control		
type of voltage of the control supply voltage	AC/DC	
control supply voltage at AC		
at 50 Hz rated value	23 26 V	
at 60 Hz rated value	23 26 V	
control supply voltage at DC		
rated value	23 26 V	
operating range factor control supply voltage rated		
value of magnet coil at DC		
initial value	0.8	
full-scale value	1.1	
operating range factor control supply voltage rated		
value of magnet coil at AC		
● at 50 Hz	0.8 1.1	
● at 60 Hz	0.8 1.1	
design of the surge suppressor	with varistor	
apparent pick-up power of magnet coil at AC		
● at 50 Hz	590 VA	
● at 60 Hz	590 VA	
inductive power factor with closing power of the coil		
● at 50 Hz	0.9	
● at 60 Hz	0.9	
apparent holding power of magnet coil at AC		
● at 50 Hz	6.7 VA	
● at 60 Hz	6.7 VA	
inductive power factor with the holding power of the		
coil		
● at 50 Hz	0.9	
● at 60 Hz	0.9	
closing power of magnet coil at DC	650 W	
holding power of magnet coil at DC	7.4 W	
closing delay		
• at AC	30 95 ms	
• at DC	30 95 ms	
opening delay		
• at AC	40 80 ms	
• at DC	40 80 ms	
arcing time	10 15 ms	
control version of the switch operating mechanism	Standard A1 - A2	
Auxiliary circuit		
number of NC contacts for auxiliary contacts	2	
,		

inetantaneous contact		
instantaneous contact	2	
number of NO contacts for auxiliary contacts instantaneous contact	2	
operational current at AC-12 maximum	10 A	
operational current at AC-15	10 A	
at 230 V rated value	6 A	
at 400 V rated value	3 A	
at 500 V rated value at 500 V rated value	2 A	
at 690 V rated value	1 A	
operational current at DC-12	10 A	
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	240 A	
 at 600 V rated value 	242 A	
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	
 — 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		
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)	
with type of assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415	
7F - 2. 820.G = 12441124	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	

	40	
— upwards	10 mm	
— at the side	10 mm	
— downwards	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	Otion has	
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 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 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12	
AWG number as coded connectable conductor cross 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- 	No	
5-1		
B10 value with high demand rate according to SN 31920	1 000 000	
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	finger-safe, for vertical contact from the front with box terminal/cover	
suitability for use		
 safety-related switching OFF 	Yes	
Certificates/ approvals		

General Product Approval



Confirmation





<u>KC</u>



EMC Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Miscellaneous











other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Miscellaneous</u> <u>Confirmation</u> <u>Special Test Certificate</u>

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1065-6AB36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AB36-3PA0

 ${\bf Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AB36-3PA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6AB36-3PA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AB36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AB36-3PA0&objecttype=14&gridview=view1

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