3RT1065-6AF36-3PA0

## **Data sheet**



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 110-127 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	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	54 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	18 W
<ul> <li>without load current share typical</li> </ul>	7.4 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	500 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	207.4
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	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
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	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

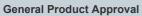
	,	
	— at 110 V rated value	
	— at 220 V rated value	3.8 A
• with 2 current paths in series at DC-1  — at 24 V rated value — at 140 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — 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
	<ul><li>with 2 current paths in series at DC-1</li></ul>	
	— 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 6000 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 4600 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 24 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 va	— 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	<ul><li>with 3 current paths in series at DC-1</li></ul>	
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 500 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 — 300 A — at 440 V rated value — 300 A — at 110 V rated value — 300 A — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 400 V rated value — 120 V rated value — 300 A — at 440 V rated value — 300 A — at 4500 V rated value — 312 W — at 600 V rated value — 312 W — at 500 V rated value — 312 W — at 400 V rated value — at 600 V rated value	— 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 132 kW ■ at AC-3  - at 230 V rated value 132 kW - at 690 V rated value 132 kW ■ at AC-3  - at 230 V rated value 132 kW - at 400 V rated value 132 kW - at 400 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 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	•	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 AC-3 - at 230 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 AC-3 - at 230 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 AC-3 - at 230 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 AC-3 - at 230 V rated value 152 kW • at 400 V rated value 152 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		
<ul> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 120 V rated value</li> <li>— at 440 V rated value</li> <li>— at 4600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 75 A</li> </ul> Operating power <ul> <li>at AC-2 at 400 V rated value</li> <li>— at 230 V rated value</li> <li>— at 320 V rated value</li> <li>— at 230 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 230 V rated value</li> <li>— at 230 V rated value</li> <li>— at 230 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 250 V rated value</li> <li>— at 250 V rated value</li> <li>— at 250 V rated value</li> <li>— at 500 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 400 V rated value</li> <li>— at 75 kW</li> </ul> Operating power for approx. 200000 operating cycles at AC-4 <ul> <li>• at 400 V rated value</li> <li>• at 400 V rated value</li> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> <li>• at 690 V rated value</li> <li>• at 690 V rated value</li> </ul>		
<ul> <li>with 3 current paths in series at DC-3 at DC-5         <ul> <li>at 24 V rated value</li> <li>300 A</li> <li>at 110 V rated value</li> <li>300 A</li> <li>at 220 V rated value</li> <li>300 A</li> <li>at 440 V rated value</li> <li>1.4 A</li> <li>at 600 V rated value</li> </ul> </li> <li>operating power         <ul> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul> </li> <li>at 400 V rated value</li> <li>at 8W</li> <li>at 400 V rated value</li> <li>at 8W</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul> <li>at AC-3e         <ul> <li>at 200 V rated value</li> <li>at 200 V rated value</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>operating power for approx. 200000 operating cycles at AC-4         <ul> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> </ul> </li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li>		
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 400 V rated value 150 kW at 690 V rated value 150 kW at 1000 V rated value 250 kW at 1000 V rated value 132 kW • at AC-3e at 230 V rated value 132 kW at 500 V rated value 150 kW at 1000 V rated value 150 kW at 1000 V rated value 152 kW at 400 V rated value 152 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 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		
<ul> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 230 V rated value</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 400 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 400 V rated value</li> <li>— at 690 V rated value</li> </ul>		0.7074
<ul> <li>at AC-3         — at 230 V rated value</li></ul>		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		
<ul> <li>— at 1000 V rated value</li> <li>■ at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 1000 V rated value</li> <li>— at 1000 V rated value</li> <li>132 kW</li> <li>— at 1000 V rated value</li> <li>160 kW</li> <li>— at 400 V rated value</li> <li>■ at 400 V rated value</li> <li>■ at 400 V rated value</li> <li>■ at 690 V rated value</li> <li>102 kW</li> </ul>		
<ul> <li>at AC-3e         <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 1000 V rated value</li> </ul> </li> <li>operating power for approx. 200000 operating cycles at AC-4         <ul> <li>at 400 V rated value</li> <li>at 66 kW</li> </ul> </li> <li>at 690 V rated value</li> <li>102 kW</li> </ul>		
— 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       66 kW         • 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
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>102 kW</li> </ul>		
• 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

<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	150 000 VA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	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
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
Ilmited 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	1 270 A, OSC Hillimidili Gloss-Section acc. to AO-1 lated value
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	2 000 1/11
at AC-1 maximum	800 1/h
at AC-1 maximum     at AC-2 maximum	300 1/h
<del></del>	
• at AC 30 maximum	700 1/h 700 1/h
<ul><li>at AC-3e maximum</li><li>at AC-4 maximum</li></ul>	
	130 1/h
Control circuit/ Control	10/00
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	440 40714
<ul> <li>at 50 Hz rated value</li> </ul>	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
rated value	110 127 V
operating range factor control supply voltage rated	
value of magnet coil at DC	0.0
• 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	0.0
• at 50 Hz	6.7 VA
• at 60 Hz	6.7 VA
inductive power factor with the holding power of the	0.1 1/1
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
number of NO contacts for auxiliary contacts	_

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
<ul> <li>at 220 V rated value</li> </ul>	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
<ul> <li>at 600 V rated value</li> </ul>	242 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
<ul> <li>at 200/208 V rated value</li> </ul>	75 hp
<ul> <li>at 220/230 V rated value</li> </ul>	100 hp
<ul> <li>— at 460/480 V rated value</li> </ul>	200 hp
<ul> <li>at 575/600 V rated value</li> </ul>	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. 820.3 = 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	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	20 mm

unuanda	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	
for main current circuit	Connection bar
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	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 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	0 (0 5 4 5 2) 0 (0 75 0 5 2) 0 (0 75 4 2)
— 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	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-</li> </ul>	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	
<ul> <li>safety-related switching OFF</li> </ul>	Yes

## Certificates/ approvals







Confirmation



<u>KC</u>



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





Type Test Certificates/Test Report

Special Test Certificate

**Test Certificates** 

Marine / Shipping

**Miscellaneous** 











other Railway

<u>Confirmation Miscellaneous Confirmation Miscellaneous 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=3RT1065-6AF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AF36-3PA0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-6AF36-3PA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AF36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AF36-3PA0&objecttype=14&gridview=view1

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