## **SIEMENS**

**Data sheet** 3RT1065-6AR36



power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 440-480 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT1	
General 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)		
<ul> <li>of contactor typical</li> </ul>	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		
<ul> <li>during operation</li> </ul>	-25 +60 °C	
during storage	-55 +80 °C	

relative humidity at 55 °C according to IEC 60069 2 20	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		
/ain 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	1 000 V		
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 $^{\circ}\text{C}$ rated value	330 A		
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	300 A		
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	150 A		
<ul> <li>up to 1000 V at ambient temperature 60 °C rated value</li> </ul>	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		
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	230 A		
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	290 A		
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	219 A		
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	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		
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated</li> </ul>	265 A 95 A		
value  • at AC-6a	33 A		
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 mm <sup>2</sup>		
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			
— at 24 V rated value	300 A		

with 2 current paths in series at DC-1		
		0.6 A
	·	000.4
with 3 current paths in series at DC-1		
at 24 V rated value 300 A 3		2 A
at 110 V rated value	•	
- at 600 V rated value		
- at 12 V rated value 300 A 30		
		5.2 A
	•	
at 440 V rated value at 600 V rated value at 600 V rated value at 100 V rated value at 110 V rated value at 120 V rated value at 120 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 100 V rated value at 20 V rated value at 20 V rated value at 20 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 2.5 A     — at 220 V rated value 2.5 A     — at 40 V rated value 0.65 A     — at 600 V rated value 0.65 A     — at 600 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 110 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 230 V rated value 1.4 A     — at 600 V rated value 7.5 kW     — at 400 V rated value 1.8 kW     — at 400 V rated value 1.8 kW     — at 699 V rated value 1.9 kW     — at 699 V rated value 1.9 kW     — at 400 V rated value 1.9 kW     — at 690 V rated value 1.9 kW     — at 690 V rated value 1.9 kW     — at 690 V rated value 1.0 kW     — at 690 V rated value 1.0 kW     — at 1000 V rated value 1.0 kW     — at 1000 V rated value 1.0 kW     — at 1000 V rated value 1.0 kW     — at 690 V roccurrent peak value n=20 rated value 1.0 kW     — at 690 V roccurrent peak value n=20 rated value 1.0 kW     — at 1000 V for current peak value n=20 rated value 1.0 kW     — at 690 V for current peak value n=20 rated value 1.0 kW     — at 1000 V for current peak value n=20 rated value 1.0 kW     — at 1000 V for current peak value n=20 rated value 1.0 kW     — at 690 V for current peak value n=20 rated value 1.0 kW     — at 690 V for current peak value n=20 rated value 1.0 kW     — at 690 V for current peak value n=20 rated value 1.0 kW     — at 690 V for current peak value n=20 rated value 1.0 kW     — at 690 V for curr		
• with 2 current paths in series 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 600 V rated value — at 110 V rated value — at 110 V rated value — at 1220 V rated value — at 1220 V rated value — at 220 V rated value — at 600 V rated value — at 75 kW — at 75		
at 24 V rated value 300 A 3		U.125 A
at 110 V rated value	·	000 4
at 220 V rated value		
- at 440 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 220 V rated value     — at 440 V rated value     — at 400 V rated value     — at 600 V rated value     — at 600 V rated value     — at 400 V rated value     — at 600 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 230 V rated value     — at 400 V rated value     — at 400 V rated value     — at 400 V rated value     — at 500 V rated value     — at 500 V rated value     — at 400 V rated value     — at 500 V rated value     — at 600 V rated value     — at 500 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 600 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 500 V		
with 3 current paths in series 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 600 V rated value     — at 600 V rated value     — at 4230 V rated value     — at 400 V rated value     — at 690 V rated value     — at 690 V rated value     — at 1000 V rated value     — at 230 V rated value     — at 320 V rated value     — at 230 V rated value     — at 1000 V rated value     — at 230 V rated value     — at 320 V rated value     — at 230 V rated value     — at 400 V rated value     — at 400 V rated value     — at 400 V rated value     — at 1000 V rated value     — at 1000 V rated value     — at 500 V rated value     — at 660 V rat		
- at 24 V rated value 300 A - at 110 V rated value 300 A - at 220 V rated value 1.4 A - at 2600 V rated value 0.75 A  operating power  • at AC-3 - at 230 V rated value 152 kW - at 400 V rated value 160 kW - at 400 V rated value 150 kW - at 500 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 400 V rated value 152 kW • at AC-3e - at 230 V rated value 152 kW • at AC-4 - at 400 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 160 kW - at 400 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 160 kW - at 400 V rated value 180 kW - a		0.37 A
- at 110 V rated value 300 A - at 220 V rated value 1.4 A - at 600 V rated value 0.75 A  operating power  • at AC-3  - at 230 V rated value 132 kW - at 600 V rated value 160 kW - at 690 V rated value 250 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 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 AC-3e - at 230 V rated value 132 kW - at 400 V rated value 132 kW - at 400 V rated value 132 kW  operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 150 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 180 000 VA • up to 690 V for current peak value n=20 rated value 190 to 500 V for current peak value n=20 rated value 20 000 VA value  operating apparent power at AC-6a • up to 500 V for current peak value n=20 rated value 180 000 VA value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 20 000 VA value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 4160 000 VA value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 4160 000 VA value  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 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	-	200 A
- at 220 V rated value		
- at 440 V rated value		
— at 600 V rated value         0.75 A           operating power              ■ at AC-3             — at 230 V rated value             — at 400 V rated value             — at 690 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 240 V rated value             — at 240 V rated value             — at 500 V rated value             — at 400 V rated value             — at 500 V rated value             — at 1000 V rated value             — at 500 V rated value             — at 500 V rated value             — at 500 V rated value             — at 1000 V rated value             — at 666 kW             — at 1000 V rated value             — at 690 V ror current peak value n=20 rated value             — up to 500 V for current peak value n=20 rated value             — up to 500 V for current peak value n=20 rated value             — up to 690 V for current peak value n=20 rated value             — up to 1000 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 500 V for current peak value n=20 rated value             — up to 500 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 500 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 230 V for current peak value n=20 rated value             — up to 230 V for current peak value n=30 rated v		
• 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 1000 V rated value  • at AC-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 1000 V rated value  • at 400 V rated value  • at 690 V rated value  • up to 230 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 230 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 230 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value  • up to 230 V for current peak value n=30 rated value		0.75 A
- at 230 V rated value 75 kW - at 400 V rated value 132 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 400 V rated value 132 kW - at 500 V rated value 132 kW - at 400 V rated value 132 kW - at 500 V rated value 150 kW - at 1000 V rated value 160 kW - at 1000 V rated value 160 kW - at 400 V rated value 160 kW - at 400 V rated value 102 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 180 000 VA • up to 690 V for current peak value n=20 rated value 180 000 VA • up to 1000 V for current peak value n=20 rated value 180 000 VA  • up to 1000 V for current peak value n=20 rated value 180 000 VA  • up to 1000 V for current peak value n=20 rated value 180 000 VA  • up to 230 V for current peak value n=30 rated value 160 000 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		
- at 400 V rated value 132 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 400 V rated value 150 kW - at 1000 V rated value 150 kW - at 400 V rated value 150 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 690 V for current peak value n=20 rated value 220 000 VA • up to 690 V for current peak value n=20 rated value 100 000 kVA • up to 1000 V for current peak value n=20 rated value 100 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=20 rated value 160 000 VA • up to 230 V for current peak value n=30 rated value 70 000 VA		75 kW
- at 500 V rated value - 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 130 kW - at 1000 V rated value 132 kW - at 1000 V rated value 132 kW  operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 100 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		
- at 690 V rated value - at 1000 V rated value 132 kW  • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 1000 V rated value - at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		
- 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 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value  • up to 400 V for current peak value n=20 rated value  • up to 590 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 230 V for current peak value n=20 rated value  • up to 230 V for current peak value n=20 rated value  • up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  100 000 VA  120 000 VA		
<ul> <li>at AC-3e <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>132 kW</li> <li>at 1500 V rated value</li> <li>160 kW</li> <li>at 1000 V rated value</li> <li>132 kW</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> <li>at 690 V rated value</li> <li>102 kW</li> </ul> </li> <li>operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>aup to 1000 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>100 000 VA</li> </ul> </li> <li>operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>100 000 VA</li> </ul> </li> <li>operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>120 000 VA</li> </ul> </li> </ul>		
- 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  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		102 M
- at 400 V rated value - at 500 V rated value - at 1000 V rated value 132 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		75 kW
- at 500 V rated value - at 1000 V rated value 132 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value		
- at 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  oup to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value  132 kW  66 kW  102 kW  100 000 kVA  180 000 VA  180 000 VA  180 000 VA  160 000 VA  160 000 VA		
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 120 000 VA		
at AC-4  • at 400 V rated value • at 690 V rated value  • at 690 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value  100 000 kVA  220 000 VA  310 000 VA  160 000 VA  70 000 VA		
at 690 V rated value      operating apparent power at AC-6a     up to 230 V for current peak value n=20 rated value     up to 400 V for current peak value n=20 rated value     up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     up to 1000 V for current peak value n=20 rated value     up to 1000 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value     102 kW  100 000 kVA  220 000 VA  160 000 VA  160 000 VA  160 000 VA  160 000 VA  120 000 VA		
operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value  • up to 400 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  • up to 1000 V for current peak value n=20 rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  100 000 kVA  220 000 VA  160 000 VA  160 000 VA  160 000 VA		
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>100 000 kVA</li> <li>160 000 VA</li> <li>160</li></ul>		102 kW
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>180 000 VA</li> <li>160 000 VA</li> <li>70 000 VA</li> <li>120 000 VA</li> <li>120 000 VA</li> </ul>		
<ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>120 000 VA</li> </ul>		
up to 690 V for current peak value n=20 rated value     up to 1000 V for current peak value n=20 rated value      operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value 120 000 VA		
<ul> <li>up to 1000 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>120 000 VA</li> </ul>	·	
value  operating apparent power at AC-6a  ● up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  120 000 VA		
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>120 000 VA</li> </ul>		160 000 VA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>120 000 VA</li> </ul>		
• up to 400 V for current peak value n=30 rated value 120 000 VA		70 000 VA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>150 000 VA</li> </ul>		150 000 VA

<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	220 000 VA
<ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>	160 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	4000 A II
limited to 1 s switching at zero current maximum	4 880 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	4 045 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	2 785 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	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
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
<ul> <li>at AC-3e maximum</li> </ul>	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	440 480 V
at 60 Hz rated value	440 480 V
control supply voltage at DC	
• rated value	440 480 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
instantaneous contact	

number of NO contacts for auxiliary contacts	2	
instantaneous contact		
operational current at AC-12 maximum	10 A	
operational current at AC-15		
• at 230 V rated value	6 A	
<ul> <li>at 400 V rated value</li> </ul>	3 A	
<ul> <li>at 500 V rated value</li> </ul>	2 A	
at 690 V rated value	1 A	
operational current at DC-12		
<ul><li>at 24 V rated value</li></ul>	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]		
<ul> <li>for 3-phase AC motor</li> </ul>		
— 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	O 500 A (000 ) ( 400 LA)	
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 V, 50 kA)	
for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)	
required	30	
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	22	
— forwards	20 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
for grounded parts		
— forwards	20 mm 10 mm	
— upwards		

— at the side	10 mm	
— downwards	10 mm	
for live parts	10 111111	
— forwards	20 mm	
	20 mm	
— upwards — downwards	10 mm 10 mm	
— at the side	10 mm	
Connections/ Terminals	TO THILL	
type of electrical connection	Connection has	
for main current circuit     for qualifier and control 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		
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm²	
finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
<ul> <li>for auxiliary contacts</li> </ul>		
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)	
<ul><li>— solid or stranded</li></ul>	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	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		
<ul> <li>for auxiliary contacts</li> </ul>	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- 5-1</li> </ul>	No	
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		

## General Product Approval





Confirmation



<u>KC</u>



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

CE



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping

other











**Miscellaneous** 

other Railway

<u>Confirmation</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=3RT1065-6AR36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AR36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AR36

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1065-6AR36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AR36/char}$ 

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AR36&objecttype=14&gridview=view1

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