## SIEMENS

## Data sheet

## 3RT2036-1CP04



power contactor, AC-3 51 A, 22 kW / 400 V 2 NO + 2 NC, 230 V AC, 50 Hz 3-pole, size S2, screw terminal varistor integrated

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	S2		
product extension			
<ul> <li>function module for communication</li> </ul>	No		
auxiliary switch	No		
power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	12 W		
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 W		
<ul> <li>without load current share typical</li> </ul>	16 W		
insulation voltage			
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V		
surge voltage resistance			
<ul> <li>of main circuit rated value</li> </ul>	6 kV		
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at AC	9.8g / 5 ms, 6.5g / 10 ms		
shock resistance with sine pulse			
• at AC	15.3g / 5 ms, 10.1g / 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)	10/01/2014		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	70 A
• at AC-1	
<ul> <li>— up to 690 V at ambient temperature 40 °C rated value</li> </ul>	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	41 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	24 A
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> </li> </ul>	28.8 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	25 mm <sup>2</sup>
cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	24 A
• at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
	0.07
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	

- at 24 V rated value         55 Å           - at 220 V rated value         45 Å           - at 420 V rated value         29 Å           - at 600 V rated value         1.4 Å           • at 1 current path at DC-3 at DC-3         -           - at 220 V rated value         1.4 Å           - at 220 V rated value         25 Å           - at 220 V rated value         1.4 Å           - at 410 V rated value         2.5 Å           - at 220 V rated value         0.1 Å           - at 440 V rated value         0.06 Å           • with 2 current path is nestes at DC-3 at DC-5         -           - at 220 V rated value         25 Å           - at 220 V rated value         26 Å           - at 400 V rated value         0.6 Å           - at 400 V rated value         26 Å           - at 400 V rated value         28 kW           - at 400 V rated value         28 kW           - at 400 V rated value         28 kW           - at 600 V rated value         <	<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 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> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 420 V rated value</li> <li>at 420 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> </ul>	55 A 45 A 2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
	<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 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> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 420 V rated value</li> <li>at 420 V rated value</li> <li>at 600 V rated value</li> </ul>	45 A 2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
- at 400 V rated value 2.9 A - at 600 V rated value 35 A - at 220 V rated value 2.5 A - at 220 V rated value 2.5 A - at 220 V rated value 0.1 A - at 600 V rated value 0.1 A - at 600 V rated value 0.06 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 55 A - at 420 V rated value 0.10 A - at 600 V rated value 55 A - at 220 V rated value 55 A - at 110 V rated value 0.10 A - at 600 V rated value 0.10 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.06 A - at 220 V rated value 0.07 A - at 240 V rated value 0.07 A - at 240 V rated value 0.06 A - at 200 V rated value 0.06 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.06 A - at 600 V rated value 0.06 A - at 600 V rated value 0.06 A - at 600 V rated value 0.07 A - at 600 V fract value 0.07 A	<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 420 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 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> </ul>	2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
	<ul> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 3 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 210 V rated value</li> <li>at 210 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
	<ul> <li>at 1 current path at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
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<ul> <li>- at 110 V rated value</li> <li>- at 220 V rated value</li> <li>- at 200 V rated value</li> <li>- at 600 V rated value</li> <li>- at 600 V rated value</li> <li>- at 24 V rated value</li> <li>- at 240 V rated value</li> <li>- at 240 V rated value</li> <li>- at 240 V rated value</li> <li>- at 400 V rated value</li> <li>- at 200 V rated value</li> <li>- at 400 V rated value<td><ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul></td><td>2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A</td></li></ul>	<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
- al 220 V rated value1 A- at 440 V rated value0.1 A- at 240 V rated value0.06 Awith 2 current paths in series at DC-3 at DC-5- at 24 V rated value25 A- at 220 V rated value25 A- at 240 V rated value0.16 Awith 3 current paths in series at DC-3 at DC-5- at 440 V rated value0.16 A- at 440 V rated value55 A- at 24 V rated value56 A- at 25 V rated value25 A- at 25 V rated value25 A- at 25 V rated value25 A- at 25 V rated value0.6 A- at 300 V rated value0.35 A- at 800 V rated value22 kW- at 400 V rated value22	<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 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 220 V rated value</li> <li>at 440 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> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
	<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 210 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 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> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	0.1 A 0.06 A 55 A 25 A 5 A 0.27 A				
<ul> <li></li></ul>	<ul> <li>at 600 V rated value</li> <li>with 2 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 220 V rated value</li> <li>at 440 V rated value</li> <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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	0.06 A 55 A 25 A 5 A 0.27 A				
with 2 current paths in series at DC-3 at DC-5	<ul> <li>with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>with 3 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> </li> </ul>	55 A 25 A 5 A 0.27 A				
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	<ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <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 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	25 A 5 A 0.27 A				
	<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating power</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	5 A 0.27 A				
	<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating power</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	5 A 0.27 A				
	<ul> <li>at 440 V rated value</li> <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 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operating power</li> <li>at AC-2 at 400 V rated value</li> <li>at AC-3</li> <li>at 230 V rated value</li> </ul>	0.27 A				
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<ul> <li>with 3 current paths in series at DC-3 at DC-5         <ul> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>55 A</li> <li>at 220 V rated value</li> <li>25 A</li> <li>at 440 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.5 A</li> </ul> </li> <li>at 440 V rated value</li> <li>0.5 A</li> <li>at 440 V rated value</li> <li>0.5 A</li> </ul> <li>at 440 V rated value</li> <li>0.5 A</li> <li>at AC-3</li> <li>at AC-3</li> <li>at 300 V rated value</li> <li>22 kW</li> <li>at 300 V rated value</li> <ul> <li>22 kW</li> </ul> <li>at 400 V rated value</li> <li>22 kW</li> <li>at 600 V rated value</li> <li>22 kW</li> <li>at 600 V rated value</li> <li>22 kW</li> <li>at 400 V rated value</li> <li>22 kW</li> <li>at 400 V rated value</li> <li>22 kW</li> <li>at 600 V rated value</li> <li>24 kW</li> <li>at 600 V rated value</li> <li>24 kW</li> <li>at 600 V rated value</li> <li>24 kW</li> <li>at 600 V rated value</li> <li>25 kW</li> <li>at 600 V for current peak value n=20 rated value</li> <li>24 kW</li> <li>at 600 V for current peak value n=20 rated value</li> <li>29 kVA</li> <li>at 600 V for current peak value n=20 rated value</li> <li>29 kVA</li> <li>at 600 V for current peak value n=30 rated value</li> <li>20 kVA</li> <li>at 600 V for current peak value n=30 rated value</li> <li>24 kVA</li> <li>26 kVA</li> <li>by to 500 V for current peak value n=30 rated value</li> <li>28 kVA</li>	<ul> <li>with 3 current paths in series at DC-3 at DC-5         <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</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> </ul> </li> </ul>	0.16.4				
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operating power       at AC-2 at 400 V rated value       22 kW         at AC-3       15 kW         - at 230 V rated value       22 kW         - at 400 V rated value       22 kW         - at 500 V rated value       22 kW         - at 600 V rated value       22 kW         - at 400 V rated value       22 kW         - at 400 V rated value       22 kW         - at 400 V rated value       22 kW         - at 690 V rated value       22 kW         operating power for approx. 200000 operating cycles at AC-4       12.6 kW         • at 400 V rated value       12.6 kW         • at 690 V rated value       12.8 kW         operating aparent power at AC-6a       12.6 kW         • up to 500 V for current peak value n=20 rated value       17.2 kVA         • up to 500 V for current peak value n=20 rated value       17.2 kVA         • up to 500 V for current peak value n=30 rated value       11.4 kVA         • up to 500 V for current peak value n=30 rated value       19.9 kVA         • up to 500 V for current peak value n=30 rated value       19.9 kVA         • up to 500 V for current peak value n=30 rated valu	operating power • at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value					
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<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>282 A; Use minimum cross-section acc. to AC-1 rated value</li> </ul>	_					
• limited to 30 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value	_					
	_					
Imited to 60 s switching at zero current maximum     229 A: Use minimum cross-section acc. to AC-1 rated value	_	282 A; Use minimum cross-section acc. to AC-1 rated value				
	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	229 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency						
• at AC 5 000 1/h		5 000 1/h				
operating frequency						
• at AC-1 maximum 1 000 1/h	● at AC-1 maximum					
• at AC-2 maximum 600 1/h	• at AC-2 maximum	1 000 1/h				
at AC-3 maximum     800 1/h	• at AC-3 maximum	1 000 1/h 600 1/h				

• at AC 30 maximum	800 1/h
at AC-3e maximum	
at AC-4 maximum	250 1/h
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	222.14
at 50 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	190 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	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
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	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	6 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	52 A
at 600 V rated value	52 A 52 A
vielded mechanical performance [hp]	
for single-phase AC motor	
tor single-phase AC motor         — at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp

• for 3-phase AC motor					
- at 200/208 V rated value	15 hp				
— at 220/200 V rated value	15 np 15 hp				
— at 460/480 V rated value	15 np 40 hp				
— at 575/600 V rated value					
contact rating of auxiliary contacts according to UL	50 hp 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: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415				
	V, 80 kA)				
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)				
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)				
Installation/ mounting/ dimensions					
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface				
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
side-by-side mounting	Yes				
height	114 mm				
width	55 mm				
depth	174 mm				
required spacing					
<ul> <li>with side-by-side mounting</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	0 mm				
<ul> <li>for grounded parts</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— at the side	6 mm				
— downwards	10 mm				
<ul> <li>for live parts</li> </ul>					
— forwards	10 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	6 mm				
Connections/ Terminals					
type of electrical connection					
<ul> <li>for main current circuit</li> </ul>	screw-type terminals				
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals				
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals				
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals				
type of connectable conductor cross-sections					
<ul> <li>for main contacts</li> </ul>					
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )				
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (18 2), 1x (18 1)				
connectable conductor cross-section for main contacts					
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²				
connectable conductor cross-section for auxiliary contacts					
solid or stranded	0.5 2.5 mm²				
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>				
type of connectable conductor cross-sections					
for auxiliary contacts					
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				

	for auxiliary contacts		2x (20	. 16), 2x (18 14)		
AWG number as coo section	led connectable cond	uctor cross				
<ul> <li>for main contact</li> </ul>	ts	18 1				
<ul> <li>for auxiliary con</li> </ul>	20 14					
Safety related data						
product function						
• mirror contact according to IEC 60947-4-1		Yes No				
<ul> <li>positively driver</li> <li>5-1</li> </ul>	<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>					
	B10 value with high demand rate according to SN 31920			00		
proportion of dangerous failures		40.0/				
	d rate according to SN nd rate according to SN		40 % 73 %			
	ow demand rate accord		100 FIT			
	t interval or service life	according to	20 y			
protection class IP o 60529	on the front according	to IEC	IP20			
	the front according to	IEC 60529	finger-sa	afe, for vertical conta	act from the front	
suitability for use						
safety-related s	-		Yes			
Certificates/ approval		_	_	_	_	
General Product Ap	proval					
	<u>Confirmation</u>			UL UL	<u>KC</u>	EHC
EMC	Functional Safety/Safety of Machinery	Declaration o	Declaration of Conformity		Test Certificates	
	<u>Type Examination</u> <u>Certificate</u>	UK CA	Ì	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report
Marine / Shipping						
ABS	BUREAU VERITAS			Lloyds Register us	PRS	RINA
Marine / Shipping	other		F	Railway	Dangerous Good	
KMRS	<u>Confirmation</u>	<u>Confirmatio</u>	on Vi	ibration and Shock	Transport Informa- tion	
Further information Information- and Downloadcenter (Catalogs, Brochures,)						

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