## SIEMENS

## Data sheet

## 3RT1075-6AP36



power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	105 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	35 W
<ul> <li>without load current share typical</li> </ul>	10 W
type of calculation of power loss depending on pole	quadratic
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
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation 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 (operating 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
SVHC substance name	Lead - 7439-92-1
mbient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	

during operation	-25 +60 °C	
during operation     during storage	-25 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30	95 %	
maximum		
Main circuit		
number of poles for main current circuit	3	
number of NO contacts for main contacts	3	
operating voltage	4 000 1/	
• at AC-3 rated value maximum	1 000 V	
at AC-3e rated value maximum	1 000 V	
<ul> <li>operational current</li> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	430 A	
● at AC-1		
— up to 690 V at ambient temperature 40 °C rated value	430 A	
— up to 690 V at ambient temperature 60 °C rated value	400 A	
— up to 1000 V at ambient temperature 40 °C rated value	200 A	
<ul> <li>— up to 1000 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	200 A	
— at 400 V rated value	400 A	
— at 500 V rated value	400 A	
— at 690 V rated value	400 A	
— at 1000 V rated value	180 A	
• at AC-3e		
— at 400 V rated value	400 A	
— at 500 V rated value	400 A	
— at 690 V rated value	400 A	
— at 1000 V rated value	180 A	
• at AC-4 at 400 V rated value	350 A	
• at AC-5a up to 690 V rated value	378 A	
• at AC-5b up to 400 V rated value	332 A	
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	205.4	
<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> </ul>	395 A 395 A	
<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> </ul>	395 A	
— up to 690 V for current peak value n=20 rated value	395 A	
— up to 1000 V for current peak value n=20 rated value value	180 A	
• at AC-6a		
— up to 230 V for current peak value n=30 rated value	264 A	
— up to 400 V for current peak value n=30 rated value	264 A	
— up to 500 V for current peak value n=30 rated value	264 A	
— up to 690 V for current peak value n=30 rated value	264 A	
<ul> <li>— up to 1000 V for current peak value n=30 rated value</li> </ul>	180 A	
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm <sup>2</sup>	
operational current for approx. 200000 operating cycles at AC-4		
• at 400 V rated value	150 A	
at 690 V rated value	135 A	
operational current		
• at 1 current path at DC-1		
- at 24 V rated value	400 A	
- at 60 V rated value	330 A	
- at 110 V rated value	33 A	
— at 220 V rated value — at 440 V rated value	3.8 A 0.9 A	
	0.9 A 0.6 A	
— at 600 V rated value	U.0 A	

• and V radio value400 A- at 60 V radio value400 A- at 60 V radio value400 A- at 700 V radio value400 A- at 700 V radio value400 A- at 700 V radio value2 A- at 700 V radio value400 A- at 700 V radio value10 A- at 700 V radio value10 A- at 700 V radio value10 A- at 700 V radio value0.15 A- at 700 V radio value0.15 A- at 700 V radio value0.16 A- at 700 V radio value </th <th><ul> <li>with 2 current paths in series at DC-1</li> </ul></th> <th></th>	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
	-	400 A
- all 20 Vried value400 Å- all 40 Vried value2 Å- all 60 Vried value400 Å- all 60 Vried value400 Å- all 70 Vried value52 Å- all 70 Vried value52 Å- all 70 Vried value60 Å- all 70 Vried value70 Å </td <td></td> <td></td>		
- al: 440 V railer value4.4- al: 424 V railer value2.A- al: 244 V railer value400 A- al: 244 V railer value400 A- al: 245 V railer value52.A- al: 245 V railer value52.A- al: 245 V railer value0.6 A- al: 245 V railer value0.18 A- al: 245 V railer value0.18 A- al: 245 V railer value400 A- al: 245 V railer		
• with 3 current paths in series al DC-1- af 24 V rede value400 A- af 420 V rede value400 A- af 420 V rede value400 A- af 420 V rede value11 A- af 420 V rede value13 A- af 420 V rede value00 A- af 420 V rede value20 A- af 420 V rede value400 A- af 420 V rede value20 AV- af 420 V rede value20 AV <trr>- af 420 V rede value</trr>		
	-	400 A
-400 Å-at 200 V rated value400 Å-at 400 V rated value52 Å-at 600 V rated value52 Å-at 600 V rated value400 Å-at 600 V rated value400 Å-at 600 V rated value0.05 Å-at 600 V rated value0.05 Å-at 600 V rated value0.18 Å-at 600 V rated value0.18 Å-at 600 V rated value0.18 Å-at 600 V rated value0.04 Å-at 600 V rated value0.04 Å-at 600 V rated value400 Å-at 600 V rated value400 Å-at 600 V rated value600 Å- <t< td=""><td></td><td></td></t<>		
- at 40 V rated value11 A- at 600 V rated value52 A- at 24 V rated value400 A- at 24 V rated value400 A- at 25 V rated value06 A- at 20 V rated value06 A- at 20 V rated value06 A- at 400 V rated value078 A- at 400 V rated value08 A- at 400 V rated value018 A- at 400 V rated value018 A- at 400 V rated value00 A- at 500 V rated value400 A- at 600 V rated value25 A- at 400 V rated value065 A- at 400 V rated value065 A- at 400 V rated value006 A- at 400 V rated value006 A- at 400 V rated value006 A- at 600 V rated value400 A- at 400 V rated value400 A- at 600 V rated value12 EW- at 600 V rated value20 kW- at 600 V rated value20 kW <trr>- at 600 V rated value20 kW<td></td><td></td></trr>		
- al 800 V rated value52 Å al 24 V rated value400 Å al 60 V rated value11 Å al 20 V rated value0.6 Å al 440 V rated value0.18 Å al 440 V rated value400 Å al 24 V rated value0.55 Å al 20 V rated value0.55 Å al 20 V rated value0.56 Å al 24 V rated value0.57 Å al 24 V rated value0.57 Å al 24 V rated value0.57 Å al 24 V rated value400 Å al 24 V rated value400 Å al 24 V rated value400 Å al 25 V rated value400 Å al 24 V rated value400 Å al 25 V rated value400 Å al 24 V rated value400 Å al 25 V rated value400 Å		
• at 1 current path at DC-3 at DC-5• 00 A- at 24 V rated value00 A- at 250 V rated value0.6 A- at 250 V rated value0.18 A- at 800 V rated value0.125 A• at 800 V rated value400 A- at 800 V rated value400 A- at 800 V rated value20 A- at 800 V rated value800 A- at 800 V rated value400 A- at 800 V rated value800 A- at 800 V rated value200 A- at 800 V rated value <td></td> <td></td>		
	-	400 A
- at 220 Vrated value0.6 A- at 440 Vrated value0.18 A- at 440 Vrated value0.12 A- at 24 Vrated value400 A- at 24 Vrated value400 A- at 100 Vrated value400 A- at 100 Vrated value400 A- at 24 Vrated value665 A- at 24 Vrated value0.65 A- at 24 Vrated value0.65 A- at 600 Vrated value0.66 A- at 600 Vrated value0.67 A- at 600 Vrated value0.60 A- at 600 Vrated value0.60 A- at 600 Vrated value0.60 A- at 600 Vrated value400 A- at 600 Vrated value0.75 A- at 600 Vrated value0.75 A- at 600 Vrated value0.75 A- at 600 Vrated value250 KW- at 600 Vrated value250 KW <td></td> <td></td>		
- at 440 V rated value0.18 A- at 600 V rated value0.12 A- at 24 V rated value400 A- at 24 V rated value400 A- at 60 V rated value400 A- at 70 V rated value400 A- at 70 V rated value606 A- at 720 V rated value0.55 A- at 440 V rated value0.57 A- at 740 V rated value0.57 A- at 740 V rated value0.07 A- at 740 V rated value400 A- at 720 V rated value400 A- at 720 V rated value400 A- at 720 V rated value75 A- at 720 V rated value75 A- at 720 V rated value200 KW- at 720 V rated value30 KW- at 720 V rated value30 KW- at 720 V rated value200 KW- at 720 V rated va		
• with 2 current paths in series at DC-3 at DC-5         400 A           - at 24 V rated value         400 A           - at 100 V rated value         400 A           - at 100 V rated value         25 A           - at 200 V rated value         0.55 A           - at 200 V rated value         0.57 A           - at 200 V rated value         0.07 A           • with 3 current paths in series at DC-3 at DC-5         -           - at 200 V rated value         400 A           - at 100 V rated value         400 A           - at 100 V rated value         400 A           - at 100 V rated value         400 A           - at 20 V rated value         200 A           - at 20 V rated value         200 A           - at 20 V rated value         128 W           - at 400 V rated value         200 kW           - at 600 V rated value         200 kW           - at 230 V rated value         200 kW           - at 230 V rated value         200 kW           - at 300 V rated value         200 kW           - at 400 V rated value         200 kW           - at 4		
	-	400 A
	— at 60 V rated value	
at 600 V rated value       0.37 Å         • with 3 current paths in series at DC-3 at DC-5          at 24 V rated value       400 Å         at 600 V rated value       400 Å         at 110 V rated value       400 Å         at 220 V rated value       400 Å         at 400 V rated value       400 Å         at 400 V rated value       0.75 Å         operating power	— at 220 V rated value	2.5 A
• with 3 current paths in series at DC-3 at DC-6- at 24 V rated value400 A- at 60 V rated value400 A- at 10 V rated value400 A- at 220 V rated value400 A- at 220 V rated value400 A- at 440 V rated value1.4 A- at 600 V rated value0.75 Aoperating power at 400 V rated value200 kW- at 600 V rated value200 kW- at 230 V rated value200 kW- at 230 V rated value250 kW- at 600 V rated value250 kW- at 400 V rated value250 kW- at 600 V rated value35 kW- at 600 V rated value35 kW- at 600 V rated value30 kW- at 600 V rated value150 000 kVA- up to 230 V for current peak value n=20 rated value400 00 VA- up to 530 V for current peak value n=20 rated value400 00 VA- up to 530 V for current peak value n=20 rated value400 00 VA- up to 530 V for current peak value n=20 rated value400 00 VA- up to 530 V for curre	— at 440 V rated value	0.65 A
	— at 600 V rated value	0.37 A
− at 60 V rated value400 A− at 110 V rated value400 A− at 220 V rated value400 A− at 220 V rated value400 A− at 440 V rated value14 A− at 600 V rated value0.75 Aoperating power132 kW− at 230 V rated value200 kW− at 400 V rated value200 kW− at 600 V rated value200 kW− at 230 V rated value200 kW− at 630 V rated value313 kWoperating power for approx. 200000 operating cycles at AC-3• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 230 V for current peak value n=20 rated value270 000 VA• up to 530 V for current peak value n=20 rated value100 000 VA• up to 530 V for current peak value n=20 rated value100 000 VA• up to 53	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	400 A
	— at 60 V rated value	400 A
at 440 V rated value1.4 A at 600 V rated value0.75 Aoperating power1 at 600 V rated value132 kW at 230 V rated value132 kW at 400 V rated value200 kW at 600 V rated value250 kW at 600 V rated value250 kW at 600 V rated value250 kW at 600 V rated value200 kW at 230 V rated value200 kW at 230 V rated value200 kW at 230 V rated value200 kW at 400 V rated value200 kW at 690 V rated value200 kW at 690 V rated value200 kW at 690 V rated value250 kW at 690 V rated value	— at 110 V rated value	400 A
at 800 V rated value0.75 Åoperating power-• at AC-3 at 230 V rated value132 kW at 400 V rated value200 kW at 500 V rated value200 kW at 500 V rated value250 kW at 600 V rated value250 kW at 500 V rated value200 kW at 200 V rated value200 kW at 200 V rated value200 kW at 200 V rated value200 kW at 400 V rated value200 kW at 400 V rated value200 kW at 500 V rated value200 kW at 500 V rated value250 kW at 600 V rated value n=20 rated value270 000 VA at 600 V rated value n=20 rated value270 000 VA at 600 V for current peak value n=20 rated value270 000 VA at 600 V for current peak value n=20 rated value340 000 VA at 600 V for current peak value n=20 rated value340 000 VA at 600 V for current peak value n=30 rated value100 000 VA at 600 V for current peak value n=30 rate	— at 220 V rated value	400 A
operating power         i at AC-3           - at 230 V rated value         132 kW           - at 400 V rated value         200 kW           - at 400 V rated value         200 kW           - at 690 V rated value         250 kW           - at 690 V rated value         250 kW           - at 690 V rated value         250 kW           - at 1000 V rated value         250 kW           - at 230 V rated value         200 kW           - at 400 V rated value         200 kW           - at 400 V rated value         200 kW           - at 400 V rated value         200 kW           - at 600 V rated value         200 kW           - at 600 V rated value         250 kW           - at 1000 V rated value         250 kW           • at 400 V rated value         85 kW           • at 400 V rated value         150 000 kVA           • up to 230 V for current peak value n=20 rated value         150 000 kVA           • up to 500 V for current peak value n=20 rated value         270 000 VA           • up to 500 V for current peak value n=20	— at 440 V rated value	1.4 A
• at AC-3       Image: Constraint of the second of the secon	— at 600 V rated value	0.75 A
- at 230 V rated value132 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 230 V rated value250 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 400 V rated value200 kW- at 690 V rated value250 kW- at 690 V rated value313 kW- at 690 V rated value150 000 kVA- at 690 V rated value n=20 rated value150 000 kVA- up to 230 V for current peak value n=20 rated value270 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 400 V for current peak value n=30 rated value100 000 VA	operating power	
- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 320 V rated value250 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 500 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value350 kW- at 690 V rated value250 kW- at 000 V rated value350 kW- at 690 V rated value350 kW- at 690 V rated value85 kW- at 690 V rated value = 20 rated value150 000 kVA- up to 230 V for current peak value = 20 rated value270 000 VA- up to 500 V for current peak value = 20 rated value270 000 VA- up to 500 V for current peak value = 20 rated value310 000 VA- up to 500 V for current peak value = 20 rated value310 000 VA- up to 500 V for current peak value = 20 rated value310 000 VA- up to 500 V for current peak value = 20 rated value310 000 VA- up to 500 V for current peak value = 20 rated value310 000 VA- up to 500 V for current peak value = 30 rated value310 000 VA- up to 500 V for current peak value = 30 rated value310 000 VA- up to 230 V for current peak value = 30 rated value310 000 VA- up to	• at AC-3	
- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 230 V rated value132 kW- at 230 V rated value200 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value250 kW- at 1000 V rated value250 kW- at 1000 V rated value133 kWoperating power for approx. 200000 operating cycles at AC-4133 kWoperating apparent power at AC-6a5000 kVA- up to 230 V for current peak value n=20 rated value150 000 kVA. up to 600 V for current peak value n=20 rated value270 000 VA. up to 500 V for current peak value n=20 rated value340 000 VA. up to 500 V for current peak value n=20 rated value340 000 VA. up to 500 V for current peak value n=20 rated value340 000 VA. up to 500 V for current peak value n=20 rated value340 000 VA. up to 500 V for current peak value n=20 rated value340 000 VA. up to 1000 V for current peak value n=20 rated value340 000 VA. up to 230 V for current peak value n=30 rated value100 000 VA. up to 230 V for current peak value n=30 rated value100 000 VA. up to 400 V for current peak value n=30 rated value100 000 VA. up to 400 V for current peak value n=30 rated value180 000 VA <tr <td=""></tr>	— at 230 V rated value	132 kW
- at 690 V rated value400 kW- at 1000 V rated value250 kW• at AC-3e at 230 V rated value132 kW- at 400 V rated value200 kW- at 690 V rated value200 kW- at 690 V rated value250 kW- at 690 V rated value250 kW- at 1000 V rated value85 kW- at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value100 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=30 rated value100 000 VA• up to 500 V for current peak value n=30 rated value180 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	— at 400 V rated value	200 kW
- at 1000 V rated value       250 kW         • at AC-3e       -         - at 230 V rated value       132 kW         - at 400 V rated value       200 kW         - at 500 V rated value       200 kW         - at 690 V rated value       400 kW         - at 1000 V rated value       400 kW         - at 1000 V rated value       250 kW         - at 1000 V rated value       50 kW         - at 1000 V rated value       85 kW         - at 400 V rated value       133 kW         operating apparent power at AC-6a       50 kVA         - up to 230 V for current peak value n=20 rated value       150 000 kVA         - up to 500 V for current peak value n=20 rated value       270 000 VA         - up to 690 V for current peak value n=20 rated value       340 000 VA         - up to 1000 V for current peak value n=20 rated value       130 000 VA         - up to 500 V for current peak value n=20 rated value       470 000 VA         - up to 1000 V for current peak value n=20 rated value       130 000 VA         - up to 1000 V for current peak value n=20 rated value       100 000 VA         - up to 1000 V for current peak value n=30 rated value       100 000 VA         - up to 400 V for current peak value n=30 rated value       180 000 VA	— at 500 V rated value	250 kW
• at AC-3e•- at 230 V rated value132 kW- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kW- at 1000 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value250 kW- at 400 V rated value85 kW- at 400 V rated value133 kW- at 400 V rated value150 000 kVA- up to 230 V for current peak value n=20 rated value150 000 kVA- up to 500 V for current peak value n=20 rated value340 000 VA- up to 690 V for current peak value n=20 rated value310 000 VA- up to 1000 V for current peak value n=20 rated value310 000 VA- up to 230 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=30 rated value310 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 400 V for current peak value n=30 rated value100 000 VA- up to 400 V for current peak value n=30 rated value100 000 VA- up to 400 V for current pea	— at 690 V rated value	400 kW
at 230 V rated value132 kW at 400 V rated value200 kW at 500 V rated value250 kW at 690 V rated value400 kW at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-50 kW at 400 V rated value85 kW- at 400 V rated value85 kW- at 690 V rated value133 kWoperating apparent power at AC-6a50 kVA up to 230 V for current peak value n=20 rated value150 000 kVA up to 500 V for current peak value n=20 rated value340 000 VA up to 500 V for current peak value n=20 rated value340 000 VA up to 500 V for current peak value n=20 rated value310 000 VA up to 500 V for current peak value n=20 rated value310 000 VA up to 230 V for current peak value n=20 rated value310 000 VA up to 500 V for current peak value n=20 rated value310 000 VA up to 230 V for current peak value n=20 rated value310 000 VA up to 230 V for current peak value n=20 rated value310 000 VA up to 230 V for current peak value n=30 rated value100 000 VA up to 230 V for current peak value n=30 rated value100 000 VA up to 230 V for current peak value n=30 rated value180 000 VA up to 400 V for current peak value n=30 rated value180 000 VA up to 400 V for current peak value n=30 rated value180 000 VA up to 400 V for current peak value n=30 rated value180 000 VA up to 400 V for current peak value n=30 rated value	— at 1000 V rated value	250 kW
- at 400 V rated value200 kW- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC- 485 kW- at 400 V rated value85 kW- at 400 V rated value133 kWoperating apparent power at AC-6a900 kVA- up to 230 V for current peak value n=20 rated value150 000 kVA- up to 500 V for current peak value n=20 rated value340 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value310 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=20 rated value100 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value100 000 VA- up to 500 V for current peak value n=30 rated value180 000 VA- up to 400 V for current peak value n=30 rated value180 000 VA- up to 400 V for current peak value n=30 rated value180 000 VA- up to 400 V for current peak value n=30 rated value180 000 VA- up to 400 V for current peak value n=30 rated value180 000 VA- up to 400 V for current peak value n=30 rated value180 000 VA	• at AC-3e	
- at 500 V rated value250 kW- at 690 V rated value400 kW- at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-64250 kW• at 400 V rated value85 kW• at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=30 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	— at 230 V rated value	132 kW
at 690 V rated value400 kW at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-250 kW• at 400 V rated value85 kW• at 690 V rated value133 kWoperating apparent power at AC-6a-• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 500 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 500 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 230 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	— at 400 V rated value	200 kW
at 1000 V rated value250 kWoperating power for approx. 200000 operating cycles at AC-45000000000000000000000000000000000000	— at 500 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC- 4S5 kW• at 400 V rated value85 kW• at 690 V rated value133 kWoperating apparent power at AC-6aImage: comparison of the cycles at and the cycles at an	— at 690 V rated value	400 kW
4• at 400 V rated value85 kW• at 690 V rated value133 kWoperating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 1000 V for current peak value n=30 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value100 000 VA		250 kW
• at 690 V rated value       133 kW         operating apparent power at AC-6a       -         • up to 230 V for current peak value n=20 rated value       150 000 kVA         • up to 400 V for current peak value n=20 rated value       270 000 VA         • up to 500 V for current peak value n=20 rated value       340 000 VA         • up to 690 V for current peak value n=20 rated value       340 000 VA         • up to 1000 V for current peak value n=20 rated value       310 000 VA         • up to 1000 V for current peak value n=20 rated value       310 000 VA         • up to 230 V for current peak value n=30 rated value       100 000 VA         • up to 230 V for current peak value n=30 rated value       100 000 VA		
operating apparent power at AC-6a150 000 kVA• up to 230 V for current peak value n=20 rated value150 000 kVA• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 V for current peak value n=20 rated value470 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	• at 400 V rated value	85 kW
<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>up to 230 V for current peak value n=30 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>100 000 VA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>100 000 VA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>100 000 VA</li> </ul>	• at 690 V rated value	133 kW
• up to 400 V for current peak value n=20 rated value270 000 VA• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 V for current peak value n=20 rated value470 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA• up to 1000 V for current peak value n=20 rated value100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA		
• up to 500 V for current peak value n=20 rated value340 000 VA• up to 690 V for current peak value n=20 rated value470 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VA <b>operating apparent power at AC-6a</b> 100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	150 000 kVA
• up to 690 V for current peak value n=20 rated value470 000 VA• up to 1000 V for current peak value n=20 rated value310 000 VAoperating apparent power at AC-6a100 000 VA• up to 230 V for current peak value n=30 rated value100 000 VA• up to 400 V for current peak value n=30 rated value180 000 VA	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	270 000 VA
• 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     180 000 VA	• up to 500 V for current peak value n=20 rated value	340 000 VA
operating apparent power at AC-6a       100 000 VA         • up to 230 V for current peak value n=30 rated value       100 000 VA         • up to 400 V for current peak value n=30 rated value       180 000 VA	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	470 000 VA
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     180 000 VA	<ul> <li>up to 1000 V for current peak value n=20 rated value</li> </ul>	310 000 VA
• up to 400 V for current peak value n=30 rated value 180 000 VA	operating apparent power at AC-6a	
		100 000 VA
up to 500 V for current peak value n=30 rated value     220 000 VA		
	<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	220 000 VA

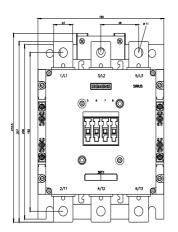
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	310 000 VA			
• up to 1000 V for current peak value n=30 rated value	310 000 VA			
short-time withstand current in cold operating state up to 40 °C				
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	6 600 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	5 761 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	4 143 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	2 635 A; Use minimum cross-section acc. to AC-1 rated value			
<ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul>	2 088 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency	2 000 A, USE MINIMUM CIUSS-SECTION ACC. TO AC- I TATED VALUE			
• at AC	2 000 1/h			
• at DC	2 000 1/h			
operating frequency	700.4%			
• at AC-1 maximum	700 1/h			
• at AC-2 maximum	200 1/h			
• at AC-3 maximum	500 1/h			
• at AC-3e maximum	500 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	220 240 V			
• at 60 Hz rated value	220 240 V			
control supply voltage at DC rated value				
•	220 240 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				
at minimum rated control supply voltage at AC				
— at 50 Hz	700 VA			
— at 60 Hz	700 VA			
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>				
	820.1/A			
— at 60 Hz	830 VA			
— at 50 Hz	830 VA			
apparent pick-up power of magnet coil at AC	020.1/4			
• at 50 Hz	830 VA			
• at 60 Hz	830 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.9			
• at 60 Hz	0.9			
apparent holding power				
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	8.5 VA			
<ul> <li>at maximum rated control supply voltage at DC</li> </ul>	10 VA			
apparent holding power				
<ul> <li>at minimum rated control supply voltage at AC</li> </ul>				
— at 50 Hz	7.6 VA			
— at 60 Hz	7.6 VA			
<ul> <li>at maximum rated control supply voltage at AC</li> </ul>				
— at 50 Hz	9.2 VA			
— at 60 Hz	9.2 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	920 W			
holding power of magnet coil at DC	10 W			

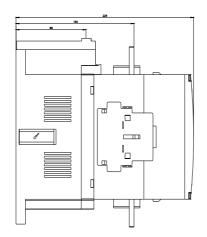
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 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	1A
at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
at 24 V rated value     at 48 V rated value	2 A
	2 A 2 A
• at 60 V rated value	
at 110 V rated value	1A
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 UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	
	264 A
at 480 V rated value	361 A
at 600 V rated value	382 A
yielded mechanical performance [hp]	
for 3-phase AC motor     at 200/208 V rated value	105 hr
- at 200/208 V rated value	125 hp
- at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 630 A (690 V, 100 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
<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	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
-	
height	214 mm
height width	214 mm 160 mm

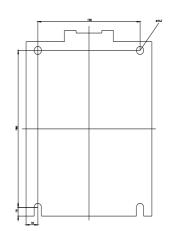
finger-safe, for vertical contact from the front with box terminal/cover				
IP00; IP20 with box terminal/cover				
20 a				
1 000 000				
Yes; applies only to contactor operating mechanism				
No				
Yes				
18 14				
2x (0.5 1.5 mm), 2x (0.7 5 2.5 mm) 2x (20 16), 2x (18 14), 1x 12				
2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), max. 2x (0,75 4 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )				
2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x (0.75 4 mm <sup>2</sup> )				
$2x (0.5, 1.5 \text{ mm}^2) 2x (0.75, 2.5 \text{ mm}^2) \text{ max} 2x (0.75, 4 \text{ mm}^2)$				
0.0 2.0 [[[]]				
0.5 4 mm <sup>2</sup>				
0.5 4 mm²				
10 240 IIIII				
70 240 mm²				
2/0 500 kcmil				
1				
11 mm 1				
6 mm 11 mm				
25 mm 6 mm				
25 mm				
Screw-type terminals				
screw-type terminals Screw-type terminals				
Connection bar				
10 mm				
10 mm				
10 mm				
20 mm				
10 mm				
10 mm				
10 mm				
20 mm				
0 mm				
10 mm				
10 mm				
20 mm				

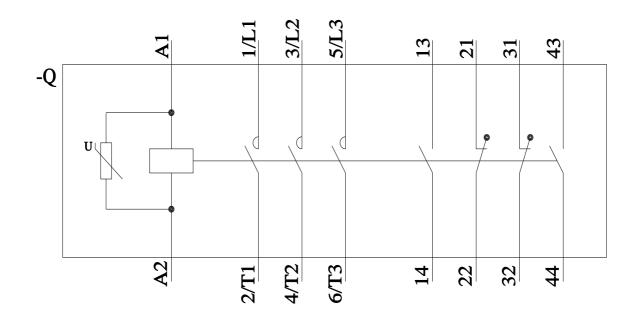
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General Product Approval	EMV	Functional Saftey	Test Certificates		
EHC	RCM	Type Examination Cer- tificate	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
Marine / Shipping					other
ABS		Llovd's Register us	PRS	RARS RARS	<u>Confirmation</u>
other			Railway	Environment	
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Miscellaneous</u>	Special Test Certific- ate	EPD	Siemens EcoTech
Environment					
Environmental Con- firmations					
Further information					
Information on the partition https://support.industry.		v/view/109813875			
Information- and Dow	nloadcenter (Catalogs				
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1075-6AP36					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AP36					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) <u>https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AP36</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6AP36⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current					
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AP36/char Further characteristics (e.g. electrical endurance, switching frequency)					
	http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AP36&objecttype=14&gridview=view1				









3/15/2024 🖸

4/19/2024