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	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	105 W
 at AC in hot operating state per pole 	35 W
 without load current share typical 	10 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for 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)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
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	
 operational current at AC-1 at 400 V at ambient temperature 40 °C rated value 	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	
 — up to 1000 V at ambient temperature 60 °C rated value at AC-3 	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	
 at AC-6a up to 230 V for current peak value n=20 rated value 	205.4	
 — up to 230 V for current peak value n=20 rated value — up to 400 V for current peak value n=20 rated value 	395 A 395 A	
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	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	
 — up to 1000 V for current peak value n=30 rated value 	180 A	
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm ²	
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> with 2 current paths in series at DC-1 </th> <th></th>	 with 2 current paths in series at DC-1 	
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- 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	 with 3 current paths in series at DC-3 at DC-5 	
	— 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		
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 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 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 100 000 VA up to 400 V for current peak value n=30 rated value 100 000 VA 	• 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 operating apparent power at AC-6a 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	 up to 230 V for current peak value n=20 rated value 	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	 up to 400 V for current peak value n=20 rated value 	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	 up to 690 V for current peak value n=20 rated value 	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	 up to 1000 V for current peak value n=20 rated value 	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		
	 up to 500 V for current peak value n=30 rated value 	220 000 VA

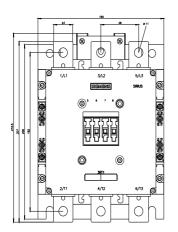
 up to 690 V for current peak value n=30 rated value 	310 000 VA			
• up to 1000 V for current peak value n=30 rated value	310 000 VA			
short-time withstand current in cold operating state up to 40 °C				
 limited to 1 s switching at zero current maximum 	6 600 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 5 s switching at zero current maximum 	5 761 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 10 s switching at zero current maximum 	4 143 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	2 635 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 50 s switching at zero current maximum limited to 60 s switching at zero current maximum 	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			
 at maximum rated control supply voltage at AC 				
	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				
 at minimum rated control supply voltage at DC 	8.5 VA			
 at maximum rated control supply voltage at DC 	10 VA			
apparent holding power				
 at minimum rated control supply voltage at AC 				
— at 50 Hz	7.6 VA			
— at 60 Hz	7.6 VA			
 at maximum rated control supply voltage at AC 				
— 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			

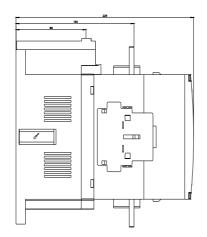
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for 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	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 630 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	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

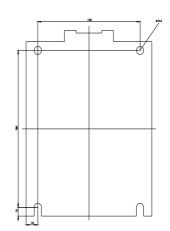
finger-safe, for vertical contact from the front with box terminal/cover				
IP00; IP20 with box terminal/cover				
20 a				
1 000 000				
Yes; applies only to contactor operating mechanism				
No				
Yes				
18 14				
2x (0.5 1.5 mm), 2x (0.7 5 2.5 mm) 2x (20 16), 2x (18 14), 1x 12				
2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x (0.75 4 mm ²)				
$2x (0.5, 1.5 \text{ mm}^2) 2x (0.75, 2.5 \text{ mm}^2) \text{ max} 2x (0.75, 4 \text{ mm}^2)$				
0.0 2.0 [[[]]				
0.5 4 mm ²				
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				

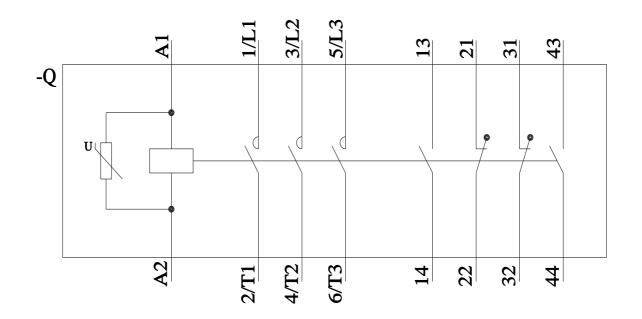
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General Product Approval	EMV	Functional Saftey	Test Certificates		
EHC	RCM	Type Examination Cer- tificate	Special Test Certific- ate	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>
Marine / Shipping					other
ABS		Llovd's Register us	PRS	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 ² 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