SIEMENS

Data sheet

3RT2027-2NB30



power contactor, AC-3e/AC-3, 32 A, 15 kW / 400 V, 3-pole, 21-28 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
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 	6.3 W
 at AC in hot operating state per pole 	2.3 W
 without load current share typical 	1.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 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)	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.626 kg
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	95 %
maximum	
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	59.7 kg
Global Warming Potential [CO2 eq] during manufacturing	3.7 kg
Global Warming Potential [CO2 eq] during operation	56.6 kg
Global Warming Potential [CO2 eq] after end of life	-0.626 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	20.4
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
 at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value 	44 A 26.5 A
• at AC-5a	20.5 A
 up to 230 V for current peak value n=20 rated value 	30.8 A
— up to 200 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	27 A
— up to 690 V for current peak value n=20 rated value	21 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A

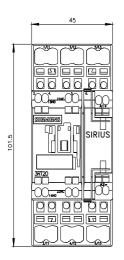
	at 110 V/ rated value	25.4
	- at 110 V rated value	35 A
- af 80 V rated value08 A• with 3 corrent paths in solves at DC-155 A- af 80 V rated value55 A- af 80 V rated value20 A- af 80 V rated value50 A- af 80 V rated value50 A- af 80 V rated value50 A- af 81 V rated value51 A- af 81 V rated value51 A<		
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		0.8 A
	-	
- at 400 Y rade value2.9 A- at 600 Y rade value1.4 A- at 600 Y rade value20.A- at 600 Y rade value20.A- at 74 Y rates value25.A- at 100 Y rade value25.A- at 100 Y rade value0.09 A- at 440 V rade value0.09 A- at 440 V rade value0.09 A- at 600 V rade value35.A- at 600 V rade value35.A- at 600 V rade value35.A- at 740 V rade value15.W- at 740 V rade value15.W <trr>- at 740 V rade value15.W<</trr>		
• at 1 current path at DC-3 at DC-520 A- at 24 V rated value20 A- at 10 V rated value25 A- at 20 V rated value0.09 A- at 20 V rated value0.006 A- at 400 V rated value0.006 A- at 400 V rated value0.06 A- at 400 V rated value0.06 A- at 20 V rated value0.07 A- at 20 V rated value0.16 A- at 20 V rated value0.16 A- at 20 V rated value0.16 A- at 20 V rated value0.57 A- at 20 V rated value15 KW- at 400 V rated value15 KW <trr>- at 400 V rated value<!--</td--><td></td><td></td></trr>		
- all 24 Vrade Vaule20 A- all 50 Vrade Vaule5 A- all 20 Vrade Vaule25 A- all 20 Vrade Vaule00 A- all 20 Vrade Vaule00 A- all 20 Vrade Vaule00 A- all 24 Vrade Vaule00 A- all 24 Vrade Vaule35 A- all 20 Vrade Vaule35 A- all 20 Vrade Vaule0.05 A- all 20 Vrade Vaule0.06 A- all 20 Vrade Vaule0.07 A- all 20 Vrade Vaule15 KW- all 20 Vrade Vaule15 KW<		1.4 A
	-	
	— at 60 V rated value	
	— at 110 V rated value	2.5 A
	— at 220 V rated value	1 A
• with 2 current paths in series at DC-3 at DC-5 35 A - at 24 V rated value 35 A - at 100 V rated value 55 A - at 1220 V rated value 36 A - at 220 V rated value 37 A - at 240 V rated value 0.27 A - at 600 V rated value 0.16 A • with 3 current paths in series at DC-3 at DC-5 - - at 60 V rated value 35 A - at 100 V rated value 35 A - at 100 V rated value 35 A - at 60 V rated value 0.6 A - at 600 V rated value 0.6 A - at 600 V rated value 15 KW - at 600 V rate	— at 440 V rated value	0.09 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	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	15 A
at 600 V rated value0.16 Å• at 24 V rated value35 Å at 26 V rated value35 Å at 100 V rated value35 Å at 220 V rated value35 Å at 220 V rated value0.6 Å at 220 V rated value0.6 Å at 600 V rated value0.6 Å at 220 V rated value0.6 Å at 600 V rated value15 Å at 220 V rated value15 Å at 230 V rated value15 Å at 230 V rated value15 Å at 230 V rated value15 Å at 690 V rated value10 Å at 690 V rated value<	— at 220 V rated value	3 A
• with 3 current paths in series at DC-3 at DC-59- at 24 V rated value35 Å- at 60 V rated value35 Å- at 110 V rated value35 Å- at 220 V rated value0.6 Å- at 220 V rated value0.6 Å- at 230 V rated value0.6 Åoperating power at 230 V rated value15 KW- at 690 V rated value12 KVA• at 600 V rated value12 KVA• up to 230 V for current peak value n=20 rated value23 KVA• up to 230 V for current peak value n=20 rated value25 KV• up to 230 V for current peak value n=20 rated value25 KVA• up to 500 V for current peak value n=30 rated value21 KVA• up to 500 V for current peak value n=30 rated value31 KVA• up to 500 V for current peak value n=30 rated value31 KVA <tr< td=""><td>— at 440 V rated value</td><td>0.27 A</td></tr<>	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
at 220 V rated value10 A at 440 V rated value0.6 A at 630 V rated value0.6 Aoperating power	— at 60 V rated value	35 A
	— at 110 V rated value	35 A
at 800 V rated value0.6 Aoperating power-• at AC-3 at 230 V rated value7.5 kW at 400 V rated value15 kW at 600 V rated value15 kW at 600 V rated value18.5 kW at 630 V rated value18.5 kW at 230 V rated value15 kW at 230 V rated value15 kW at 400 V rated value15 kW at 300 V rated value15 kW at 300 V rated value15 kW at 400 V rated value15 kW at 600 V rated value15 kW at 600 V rated value18 kW at 600 V rated value18 kW at 600 V rated value18 kW at 300 V rated value18 kW at 600 V rated value2 kW at 400 V rated value2 kW at 400 V rated value n=20 rated value2.3 kW at 600 V for current peak value n=20 rated value2.3 kVA up to 500 V for current peak value n=20 rated value2.3 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 600 V for current peak value n=30 rated va	— at 220 V rated value	10 A
operating power• at AC-37.5 kW- at 230 V rated value7.5 kW- at 400 V rated value15 kW- at 690 V rated value18.5 kW- at 690 V rated value18.5 kW• at AC-3e7.5 kW- at 230 V rated value15 kW- at 400 V rated value15 kW- at 400 V rated value15 kW- at 400 V rated value15 kW- at 690 V rated value18.5 kW- at 690 V rated value18.5 kW- at 690 V rated value10.3 kWoperating power for approx. 200000 operating cycles at AC-4• at 400 V rated value12.2 kVA• up to 200 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value21.5 kVA• up to 600 V for current peak value n=30 rated value	— at 440 V rated value	0.6 A
• at AC-3- at 230 V rated value7.5 kW- at 400 V rated value15 kW- at 500 V rated value15 kW- at 500 V rated value15 kW- at 690 V rated value15 kW- at 230 V rated value15 kW- at 230 V rated value15 kW- at 400 V rated value15 kW- at 400 V rated value15 kW- at 690 V rated value15 kW- at 690 V rated value16 kW- at 690 V rated value10 k W- at 690 V rated value12 kVA- at 690 V rated value20 s kW- at 690 V rated value12 kVA- at 690 V rated value n=20 rated value23 kVA- up to 230 V for current peak value n=20 rated value23 kVA- up to 630 V for current peak value n=20 rated value23 kVA- up to 630 V for current peak value n=30 rated value8.1 kVA- up to 630 V for current peak value n=30 rated value14.2 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5 kVA- up to 630 V for current peak value n=30 rated value15.5	— at 600 V rated value	0.6 A
at 230 V rated value7.5 kW at 400 V rated value15 kW at 500 V rated value15 kW at 690 V rated value15 kW at 690 V rated value7.5 kW at 230 V rated value7.5 kW at 230 V rated value15 kW at 400 V rated value15 kW at 690 V rated value18 kW at 690 V rated value10 kW at 690 V rated value12.2 kVA at 690 V rated value n=20 rated value21.3 kVA up to 230 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=20 rated value23.3 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value8.1 kVA up to 500 V for current peak value n=30 rated value15.5 kVA up to 690 V for current peak value n=30 rated value15.5 kVA up to 690 V for current peak value n=30 rated value15.5 kVA up to 690 V for current peak value n=30 rated value15.5 kVA up to 690 V for current peak value	operating power	
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• at AC-3e- at 230 V rated value7.5 kW- at 400 V rated value15 kW- at 500 V rated value15 kW- at 690 V rated value18.5 kWoperating power for approx. 200000 operating cycles at AC-46 kW• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a12.2 kVA• up to 230 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 500 V for current peak value n=20 rated value25. kVA• up to 500 V for current peak value n=30 rated value8.1 kVA• up to 230 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value31.5 kVA• up to 690 V	— at 500 V rated value	15 kW
- at 230 V rated value7.5 kW- at 400 V rated value15 kW- at 500 V rated value15 kW- at 690 V rated value18.5 kWoperating power for approx. 200000 operating cycles at AC-46 kW- at 690 V rated value6 kW- at 400 V rated value10.3 kWoperating apparent power at AC-6a2- up to 230 V for current peak value n=20 rated value21.3 kVA- up to 500 V for current peak value n=20 rated value23.3 kVA- up to 500 V for current peak value n=20 rated value25 kVA- up to 500 V for current peak value n=30 rated value8.1 kVA- up to 500 V for current peak value n=30 rated value14.2 kVA- up to 500 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value	— at 690 V rated value	18.5 kW
- at 400 V rated value15 kW- at 500 V rated value15 kW- at 690 V rated value18.5 kWoperating power for approx. 200000 operating cycles at AC-4V- at 400 V rated value6 kW- at 400 V rated value10.3 kWoperating apparent power at AC-6a21.2 kVA- up to 230 V for current peak value n=20 rated value21.3 kVA- up to 500 V for current peak value n=20 rated value23.3 kVA- up to 500 V for current peak value n=20 rated value5k VA- up to 500 V for current peak value n=30 rated value8.1 kVA- up to 500 V for current peak value n=30 rated value5.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for curre	• at AC-3e	
at 500 V rated value15 kW- at 690 V rated value18.5 kWoperating power for approx. 200000 operating cycles at AC-4	— at 230 V rated value	7.5 kW
at 690 V rated value18.5 kWoperating power for approx. 20000 operating cycles at AC- 4I- at 400 V rated value6 kW- at 400 V rated value10.3 kWoperating apparent power at AC-6aI- up to 230 V for current peak value n=20 rated value21.3 kVA- up to 500 V for current peak value n=20 rated value23.3 kVA- up to 500 V for current peak value n=20 rated value25 kVAOperating apparent power at AC-6aI- up to 500 V for current peak value n=20 rated value25 kVAOperating apparent power at AC-6aI- up to 500 V for current peak value n=30 rated value8.1 kVA- up to 500 V for current peak value n=30 rated value14.2 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 500 V for current peak value n=30 rated value21.5 kVA- up to 500 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value15.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690 V for current peak value n=30 rated value21.5 kVA- up to 690	— at 400 V rated value	15 kW
operating power for approx. 200000 operating cycles at AC- 4• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a25 kVA• up to 690 V for current peak value n=30 rated value8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA	— at 500 V rated value	15 kW
4• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a• up to 230 V for current peak value n=30 rated value• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA	— at 690 V rated value	18.5 kW
• at 400 V rated value6 kW• at 690 V rated value10.3 kWoperating apparent power at AC-6a-• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a-• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 230 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30		
• at 690 V rated value10.3 kWoperating apparent power at AC-6aI• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6aI• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 500 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to		
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• up to 230 V for current peak value n=20 rated value12.2 kVA• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 600 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value15.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA	at 690 V rated value	10.3 kW
• up to 400 V for current peak value n=20 rated value21.3 kVA• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a		
• up to 500 V for current peak value n=20 rated value23.3 kVA• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a		
• up to 690 V for current peak value n=20 rated value25 kVAoperating apparent power at AC-6a8.1 kVA• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 400 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA• up to 690 V for current peak value n=30 rated value21.5 kVA	 up to 400 V for current peak value n=20 rated value 	21.3 kVA
operating apparent power at AC-6a 8.1 kVA • up to 230 V for current peak value n=30 rated value 8.1 kVA • up to 400 V for current peak value n=30 rated value 14.2 kVA • up to 500 V for current peak value n=30 rated value 15.5 kVA • up to 690 V for current peak value n=30 rated value 21.5 kVA short-time withstand current in cold operating state up to 40 °C 40 °C	 up to 500 V for current peak value n=20 rated value 	23.3 kVA
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 21.5 kVA short-time withstand current in cold operating state up to 40 °C	 up to 690 V for current peak value n=20 rated value 	25 kVA
• up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value 21.5 kVA 21.5 kVA 3chort-time withstand current in cold operating state up to		
• up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value 21.5 kVA 21.5 kVA 40 °C	 up to 230 V for current peak value n=30 rated value 	8.1 kVA
• up to 690 V for current peak value n=30 rated value 21.5 kVA short-time withstand current in cold operating state up to 40 °C	 up to 400 V for current peak value n=30 rated value 	14.2 kVA
short-time withstand current in cold operating state up to 40 °C	 up to 500 V for current peak value n=30 rated value 	15.5 kVA
40 °C	 up to 690 V for current peak value n=30 rated value 	21.5 kVA
light date de publicar et energian en anter a contrat de publicar en anter a contrat de la Calendar de publica		
• limited to 1's switching at zero current maximum 499 A; Use minimum cross-section acc. to AC-1 rated value	 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum 341 A; Use minimum cross-section acc. to AC-1 rated value	 limited to 5 s switching at zero current maximum 	341 A; Use minimum cross-section acc. to AC-1 rated value

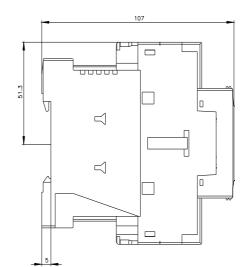
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	162 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h
• at DC	1 500 1/h
operating frequency	
 at AC-1 maximum 	1 000 1/h
• at AC-2 maximum	750 1/h
 at AC-3 maximum 	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
	AC/DC
type of voltage of the control supply voltage	ACIDC
control supply voltage at AC	24 22.14
• at 50 Hz rated value	21 28 V
at 60 Hz rated value	21 28 V
control supply voltage at DC rated value	21 28 V
operating range factor control supply voltage rated value of	
magnet coil at DC	0.7
initial value	0.7
• full-scale value	1.3
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.7 1.3
	0.7 1.3
• at 60 Hz	
design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.3 A
locked-rotor current peak	0.52 A
duration of locked-rotor current	180 ms
holding current mean value	45 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	6.6 VA
• at 60 Hz	6.7 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.98
● at 60 Hz	0.98
apparent holding power	
at minimum rated control supply voltage at DC	1.4 VA
 at maximum rated control supply voltage at DC 	1.4 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	1.9 VA
— at 60 Hz	2 VA
at maximum rated control supply voltage at AC	
• at maximum rated control supply voltage at AC — at 50 Hz	1.9 VA
- at 50 Hz 	2 VA
	2 1/1
apparent holding power of magnet coil at AC	101/4
• at 50 Hz	1.9 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.86
• at 60 Hz	0.82
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	1.4 W
closing delay	
• at AC	50 80 ms
• at DC	50 80 ms
opening delay	

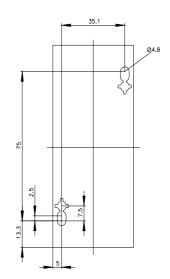
at AC	30 50 ms
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 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 125 V rated value	1A
at 220 V rated value	0.15 A
operational current at DC-13	0.10 A
at 24 V rated value	10 A
at 48 V rated value	2 A
at 40 V rated value	2 A
at 100 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	0.0 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	27 A
at 400 V rated value	27 A
yielded mechanical performance [hp]	21 N
for single-phase AC motor	
	2 hp
— at 110/120 V rated value	2 hp
— at 110/120 V rated value — at 230 V rated value	2 hp 5 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	5 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	5 hp 10 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	5 hp 10 hp 10 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	5 hp 10 hp 10 hp 20 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value 	5 hp 10 hp 10 hp 20 hp 25 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL 	5 hp 10 hp 10 hp 20 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL 	5 hp 10 hp 10 hp 20 hp 25 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link 	5 hp 10 hp 10 hp 20 hp 25 hp
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA)
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	5 hp 10 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height 	5 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width 	5 hp 10 hp 10 hp 10 hp 20 hp 25 hp A600 / P600 gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 102 mm 45 mm

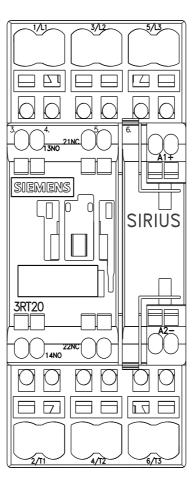
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
 finely stranded without core end processing 	2x (1 6 mm²)
 for AWG cables for main contacts 	2x (18 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm ²
• stranded	1 10 mm ²
 finely stranded with core end processing 	1 6 mm²
 finely stranded without core end processing 	1 6 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm²
 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross	
 section for main contacts 	18 8
for auxiliary contacts	20 14
Safety related data	20 14
product function	Vac
mirror contact according to IEC 60947-4-1 positively driven exercise according to IEC 60947.5.1	Yes
 positively driven operation according to IEC 60947-5-1 quitable for safety function 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	40.9/
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	

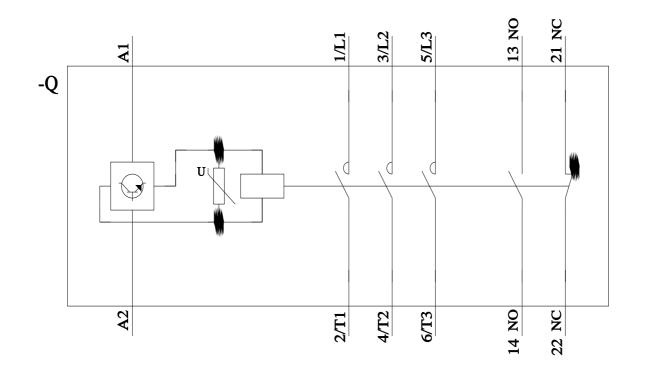
device type according	1 100 100 10					
		3				
overdimensioning according to ISO 13849-2 necessary		necessary Ye	es			
IEC 61508	ording to IEC 64509.2	т	/po /			
safety device type acc Electrical Safety		Ty	vpe A			
•	the front according to	IEC 60529	20			
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529			IP20 finger-safe, for vertical contact from the front			
pprovals Certificates						
General Product Appr	oval					
CE	UK))	Confirmation	(h)	KC	
EG-Konf.	CH	ccc		UL		
General Product Approval	EMV	Functional Saftey	Test Certificates			
EAC		<u>Type Examination Ce</u> <u>tificate</u>	er- <u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Miscellaneous</u>	
Marine / Shipping						
ABS	B U R E A U V E R I TAS		PRS	RINA	RMRS	
other			Railway	Dangerous goods	Environment	
<u>Miscellaneous</u>	Confirmation	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	Transport Information	EPD	
Environment						
Environmental Con- firmations						
	kealaa					
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