## SIEMENS

## Data sheet

## 3RT2026-1NF30



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 95-130 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
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>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	1.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

number of Doise for main contacts         3           operating voltage         3           ave AC3 rated value maximum         600 V           • a do0 V ated value         35 A           - a rated value         15 A           - a rated V rated value         15 A           - a rated V rated value         15 A           - at 600 V rated value         15 A           - at 60 V rated value         20 2 A           • at AC-5 a up to 600 V for current pask value n=20 rated         20 2 A           • at AC-6 a up to 600 V for current pask value n=20 rated         20 2 A           • at AC-6 a up to 600 V for current pask value n=20 rated         13 A <t< th=""><th>Main circuit</th><th></th></t<>	Main circuit	
operating voltage         000 V           • # AC-3 related value maximum         600 V           • # AC-1 related value maximum         600 V           • # AC-1 related value maximum         600 V           • # AC-2 related value maximum         600 V           • # AC-0 V rated value         25 A           • # AC-3 V rated value         13 A           • # AC-3 V rated value         13 A           • # AC-3 V rated value         13 A           • # AC-3 value V rated value         13 A           • # AC-3 value P 600 V rated value         25 A           • # AC-4 at 00 V rated value         13 A           • # AC-4 at 00 V rated value         20 A           • walue D for current peak value n=20 rated         20.2 A           • walue V for current peak value n=20 rated         13.5 A           • walue V for current peak valu	number of poles for main current circuit	3
••••••••••••••••••••••••••••••••••••		3
• #1 AC-3e rated value maximum600 Voperational current40 A• #1 AC-1 #1 400 V at ambient temperature 40 °C40 A• at AC-1-• up to 500 V at ambient temperature 60 °C35 A• rated value25 A• at AC0 V rated value18 A• at AC0 V rated value18 A• at 600 V rated value13 A• at 600 V rated value20 7 A• at 600 V for current peak value n=20 rated20 2 Avalue- up to 500 V for current peak value n=20 rated20 2 Avalue- up to 500 V for current peak value n=20 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current pe	operating voltage	
operational current         all AC-1 400 Vi at mbient temperature 40 °C         ADA           • all AC-1	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-1 at 400 V at ambient temperature 40 °C       40 A         • at AC-1	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
• af AC-1         - up to 680 V at ambient temperature 40 °C       40 A         - up to 680 V at ambient temperature 60 °C       35 A         - af 400 V rated value       18 A         - af 600 V rated value       25 A         - af 600 V rated value       13 A         • af AC-3 up to 690 V rated value       20.7 A         • af AC-4 4100 V rated value       20.2 A         - up to 230 V for current peak value n=20 rated       20.2 A         - up to 690 V for current peak value n=20 rated       13.5 A         - up to 690 V for current peak value n=20 rated       13.5 A         - up to 690 V for current peak value n=20 rated       13.5 A         - up to 690 V for current peak value n=30 rated       13.5 A         - up to 690 V for current peak value n=30 rated       13.5 A         value       9 A       - <th>operational current</th> <th></th>	operational current	
Ar AC-1     AC-1     AC-1     AC-1     AC-2     AD A     AC-2     AC-2     AD A     AC-2     AC-2     AD A     AC-2     AC-2     AD A     AC-2     AD     AC-2     AD A     AC-2     AD A     AC-2     AD A     AC-2     AC-2     AD A     AC-2     AD     AC-2     AD A     AC-2	<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	40 A
up to 690 V at aniholit temperature 60 °C         35 A          at 400 V rated value         25 A          at 400 V rated value         18 A          at 600 V rated value         13 A          at 400 V rated value         13 A          at 400 V rated value         13 A          at 600 V rated value         25 A          at 600 V rated value         25 A          at 600 V rated value         25 A          at 600 V rated value         20.2 A          at 600 V for current peak value n=20 rated         20.2 A          au to 600 V for current peak value n=20 rated         20.2 A          au to 600 V for current peak value n=20 rated         20.2 A          au to 600 V for current peak value n=20 rated         20.2 A          au to 600 V for current peak value n=30 rated         13.5 A          au to 600 V for current peak value n=30 rated         13.5 A          au to 600 V for current peak value n=30 rated         13.5 A          au to 90 V rated value		
		40 A
rate value         25 A           - at 400 V rated value         25 A           - at 500 V rated value         13 A           • at AC-3         3           - at 500 V rated value         25 A           - at 600 V rated value         20.7 A           - at A C-5 a         20.2 A           - up to 500 V for current peak value n=20 rated         20.2 A           - up to 500 V for current peak value n=20 rated         20.2 A           - up to 500 V for current peak value n=20 rated         13.5 A           - up to 500 V for current peak value n=30 rated         13.5 A           - up to 500 V for current peak value n=30 rated         13.5 A           - up to 500 V for current peak value n=30 rated         13.5 A           - up to 500 V for current peak value n=30 rated         13.5 A           - ub 600 V for current peak value n=30 rated         13.5 A		35 Δ
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	— at 400 V rated value	25 A
• at AC-3a $25 A$ - at 600 V rated value18 A- at 600 V rated value13 A• at AC-4 400 V rated value13 A• at AC-5a up to 690 V rated value35 2 A• at AC-5a up to 100 V rated value20.2 A• at AC-5a- up to 2.30 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated20.2 Avalue- up to 500 V for current peak value n=20 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.5 Avalue- up to 500 V for current peak value n=30 rated13.6 Avalue- at 600 V rated value9 A- at 40 V rated value9 A- at 40 V rated value9 A- at 60 V rated value20 A- at 40 V rated value20 A- at 100 V rated value20 A- at 100 V rated value20 A- at 100 V rated value20 A- at 600 V rated value <t< th=""><th>— at 500 V rated value</th><th>18 A</th></t<>	— at 500 V rated value	18 A
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>13 A</li> <li>at AC-4 at 400 V rated value</li> <li>15 A</li> <li>at AC-4 at 400 V rated value</li> <li>20.7 A</li> <li>at AC-5 au pt 690 V rated value</li> <li>20.7 A</li> <li>at AC-6 au</li> <li>at AC-6 au</li> <li>au pt 0 230 V for current peak value n=20 rated</li> <li>value</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=20 rated</li> <li>au pt 0 500 V for current peak value n=30 rated</li> <li>au pt 0 500 V for current peak value n=30 rated</li> <li>au pt 0 500 V for current peak value n=30 rated</li> <li>au t 400 V rated value</li> <li>9 A</li> <li>at 400 V rated value</li> <li>10 mm<sup>2</sup></li> <li>at 400 V rated value</li> <li>9 A</li> <li>at 400 V rated value</li> <li>9 A</li> <li>at 400 V rated value</li> <li>10 A</li> <li>at 400</li></ul>	— at 690 V rated value	13 A
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	— at 400 V rated value	25 A
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<ul> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5b up to 400 V rated value</li> <li>at AC-5b up to 400 V rated value</li> <li>at AC-5a</li> <li></li></ul>		
<ul> <li>at AC-5b up to 400 V rated value</li> <li>at AC-6a</li> <li>at AC-6a</li> <li>b to 230 V for current peak value n=20 rated value</li> <li>a up to 500 V for current peak value n=20 rated value</li> <li>a up to 500 V for current peak value n=20 rated value</li> <li>a up to 500 V for current peak value n=20 rated value</li> <li>a up to 500 V for current peak value n=20 rated value</li> <li>a t AC-6a</li> <li>a up to 500 V for current peak value n=20 rated value</li> <li>at AC-6a</li> <li>a t AC-6a</li> <li>b t 500 V for current peak value n=30 rated value</li> <li>a t AC-6a</li> <li>b t 500 V for current peak value n=30 rated value</li> <li>a t 600 V for current peak value n=30 rated value</li> <li>a t 600 V for current peak value n=30 rated value</li> <li>a t 600 V rated value</li></ul>		
<ul> <li>at AC-6a         <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 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 690 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 690 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>tat 600 V rated value</li> <li>0 mm<sup>3</sup></li> </ul> </li> <li>et at 60 V rated value</li> <li>9 A</li> <li>at 600 V rated value</li> <li>0 A</li> <li>at 400 V rated value</li> <li>0 A</li> <li>at 60 V rated value</li></ul>		
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rated valueImage: state		10 mm <sup>2</sup>
cycles at AC-4• at 400 V rated value9 A• at 690 V rated value9 Aoperational current• at 1 current path at DC-1- at 24 V rated value35 A- at 60 V rated value20 A- at 10 V rated value4.5 A- at 220 V rated value1 A- at 40 V rated value0.25 A• with 2 current paths in series at DC-135 A- at 24 V rated value35 A- at 40 V rated value0.25 A- at 40 V rated value35 A- at 220 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 40 V rated value1 A- at 40 V rated value1 A- at 40 V rated value35 A- at 40 V rated value35 A- at 440 V rated value5 A- at 440 V rated value5 A- at 440 V rated value1 A- at 440 V rated value1 A- at 600 V rated value1 A- at 600 V rated value1 A- at 600 V rated value1 A		
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>9 A</li> <li>operational current</li> <li>at 1 current path at DC-1</li> <li>at 24 V rated value</li> <li>35 A</li> <li>at 60 V rated value</li> <li>20 A</li> <li>at 110 V rated value</li> <li>4.5 A</li> <li>at 220 V rated value</li> <li>1 A</li> <li>at 440 V rated value</li> <li>0.4 A</li> <li>at 600 V rated value</li> <li>0.25 A</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>35 A</li> <li>at 60 V rated value</li> <li>35 A</li> <li>at 24 V rated value</li> <li>0.25 A</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>35 A</li> <li>at 60 V rated value</li> <li>35 A</li> <li>at 10 V rated value</li> <li>35 A</li> <li>at 40 V rated value</li> <li>35 A</li> <li>at 400 V rate</li></ul>	operational current for approx. 200000 operating	
• at 690 V rated value9 Aoperational current9 A• at 1 current path at DC-1 at 24 V rated value35 A- at 60 V rated value20 A- at 110 V rated value4.5 A- at 220 V rated value1 A- at 440 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A- at 220 V rated value35 A- at 220 V rated value35 A- at 400 V rated value5 A- at 440 V rated value6 A	cycles at AC-4	
operational currentImage: constraint of the second sec		
• at 1 current path at DC-135 A- at 24 V rated value35 A- at 60 V rated value20 A- at 110 V rated value4.5 A- at 220 V rated value1 A- at 440 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-135 A- at 24 V rated value35 A- at 60 V rated value35 A- at 60 V rated value35 A- at 220 V rated value35 A- at 220 V rated value35 A- at 220 V rated value5 A- at 240 V rated value5 A- at 440 V rated value5 A- at 600 V rated value5 A- at 440 V rated value5 A- at 600 V rated value5 A- at 600 V rated value6.8 A		9 A
at 24 V rated value35 A at 60 V rated value20 A at 110 V rated value4.5 A at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A• with 2 current paths in series at DC-1	-	
at 60 V rated value20 A at 110 V rated value4.5 A at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A• with 2 current paths in series at DC-1		
<ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.4 A</li> <li>at 600 V rated value</li> <li>0.25 A</li> </ul> • with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>35 A</li> <li>at 60 V rated value</li> <li>35 A</li> <li>at 110 V rated value</li> <li>35 A</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>5 A</li> <li>at 600 V rated value</li> <li>5 A</li> <li>at 600 V rated value</li> <li>5 A</li> <li>5</li></ul>		
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>0.4 A</li> <li>at 600 V rated value</li> <li>0.25 A</li> </ul> • with 2 current paths in series at DC-1 <ul> <li>at 24 V rated value</li> <li>35 A</li> <li>at 60 V rated value</li> <li>35 A</li> <li>at 110 V rated value</li> <li>35 A</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.8 A</li> </ul>		
at 440 V rated value0.4 A at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A at 60 V rated value35 A at 60 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>5 A</li> <li>at 440 V rated value</li> <li>1 A</li> <li>at 600 V rated value</li> <li>0.8 A</li> </ul>		
• with 2 current paths in series at DC-135 A- at 24 V rated value35 A- at 60 V rated value35 A- at 110 V rated value35 A- at 220 V rated value5 A- at 440 V rated value1 A- at 600 V rated value0.8 A		
at 24 V rated value35 A at 60 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		
at 60 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		35 A
at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		
at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		
— at 600 V rated value 0.8 A		5 A
	— at 440 V rated value	1 A
with 3 current paths in series at DC-1		0.8 A
	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
- at 24 V rated value 35 A	— at 24 V rated value	35 A

Ν

— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	0.0 A
• at AC-3	5 5 W
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	7.7 KVV
• up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
• up to 500 V for current peak value n=20 rated value	17.4 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	15.4 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	5.3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	11.6 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	15.5 kVA
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>	375 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	118 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
<ul> <li>at AC-2 maximum</li> </ul>	750 1/h

• at AC-3 maximum	750 1/h
<ul> <li>at AC-3e maximum</li> </ul>	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
<ul> <li>at 50 Hz rated value</li> </ul>	95 130 V
<ul> <li>at 60 Hz rated value</li> </ul>	95 130 V
control supply voltage at DC	
<ul> <li>rated value</li> </ul>	95 130 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.7
• full-scale value	1.3
operating range factor control supply voltage rated	
value of magnet coil at AC	07 40
• at 50 Hz	0.7 1.3 0.7 1.3
• at 60 Hz	
design of the surge suppressor	with varistor
inrush current peak	15 A 20 up
duration of inrush current peak	30 µs
locked-rotor current mean value	0.13 A
locked-rotor current peak duration of locked-rotor current	0.19 A 180 ms
holding current mean value	19 mA
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> </ul>	11.9 VA
• at 60 Hz	12 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.98
• at 60 Hz	0.98
apparent holding power of magnet coil at AC	0.50
apparent noticing power of magnet con at Ao     at 50 Hz	1.6 VA
• at 60 Hz	1.8 VA
inductive power factor with the holding power of the	1.0 VA
coil	
● at 50 Hz	0.79
• at 60 Hz	0.74
closing power of magnet coil at DC	10.2 W
holding power of magnet coil at DC	1.3 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	1
instantaneous contact	
number of NO contacts for auxiliary contacts	1
instantaneous contact	40.4
operational current at AC-12 maximum	10 A
operational current at AC-15	10.4
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	10.4
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A

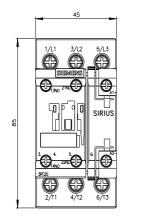
a at 10E V rated value	2 A
at 125 V rated value	
at 220 V rated value	1 A 0.15 A
<ul> <li>at 600 V rated value</li> <li>operational current at DC-13</li> </ul>	0.15 A
at 24 V rated value	10 A
at 48 V rated value	2 A
• at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	21 A
at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
— at 575/600 V rated value	20 hp
contact rating of auxiliary contacts according to UL	A600 / P600
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: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415
	V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
required Installation/ mounting/ dimensions	
·	+/-180° rotation possible on vertical mounting surface; can be tilted
Installation/ mounting/ dimensions	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
Installation/ mounting/ dimensions mounting position fastening method	forward and backward by +/- 22.5° on vertical mounting surface
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	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
Installation/ mounting/ dimensions mounting position fastening method	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 Yes
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	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 Yes 85 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	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 Yes 85 mm 45 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	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 Yes 85 mm 45 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	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 Yes 85 mm 45 mm 107 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	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 Yes 85 mm 45 mm 107 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	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 Yes 85 mm 45 mm 107 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 0 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • at the side	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 6 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards — at the side — downwards	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — oforwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — ownwards — at the side — ownwards — at the side — ownwards — for live parts	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — upwards — forwards — forwards — for live parts — forwards	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — oforwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — oforwards — at the side — oforwards — at the side — oforwards — ofor live parts — forwards — forwards — upwards • for live parts — forwards — upwards • for live parts — forwards — upwards	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 Yes 85 mm 45 mm 107 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • downwards — at the side — downwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — downwards • for live parts — forwards — downwards • for wards — downwards	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 Yes 85 mm 45 mm 107 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — upwards — downwards — at the side — downwards — at the side	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 Yes 85 mm 45 mm 107 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — at the side • for wards — at the side — downwards — at the side — downwards — at the side	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 Yes 85 mm 45 mm 107 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side • for live parts — forwards • for live parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side • for live parts — forwards — upwards — at the side • downwards — at the side	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 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 6 mm 10 mm 10 mm 10 mm
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — at the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — at the side • for wards — at the side — downwards — at the side — downwards — at the side	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 Yes 85 mm 45 mm 107 mm 10 mm

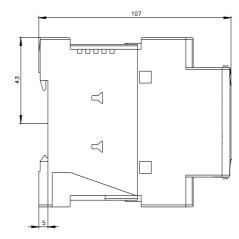
at contactor for au					
	uxiliary contacts		Screw-type terminals		
<ul> <li>of magnet coil</li> </ul>			Screw-type terminals		
type of connectable con	ductor cross-sections	for main			
contacts					
<ul> <li>solid</li> </ul>			2x (1 2.5 mm²), 2x (2.5 .	10 mm²)	
<ul> <li>solid or stranded</li> </ul>			2x (1 2.5 mm²), 2x (2.5 .	10 mm²)	
<ul> <li>finely stranded wit</li> </ul>	th core end processin	g	2x (1 2.5 mm²), 2x (2.5 .	6 mm²), 1x 10 mm²	
connectable conducto	r cross-section for r	main			
contacts					
<ul> <li>solid</li> </ul>			1 10 mm²		
<ul> <li>stranded</li> </ul>			1 10 mm²		
<ul> <li>finely stranded wit</li> </ul>	th core end processin	a	1 10 mm²		
connectable conducto		-			
contacts		,			
<ul> <li>solid or stranded</li> </ul>			0.5 2.5 mm²		
<ul> <li>finely stranded wit</li> </ul>	th core end processin	a	0.5 2.5 mm²		
type of connectable co		-			
<ul> <li>for auxiliary contact</li> </ul>					
- solid or stran			$2x(0.5 + 1.5 mm^2) 2x(0.5$	$75 - 2.5 \text{ mm}^2$	
			2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.7	· · ·	
	ed with core end proc	essing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.7	,	
<ul> <li>at AWG cables for</li> </ul>			2x (20 16), 2x (18 14)		
AWG number as coded	d connectable cond	uctor cross			
section			10 0		
<ul> <li>for main contacts</li> </ul>			16 8		
<ul> <li>for auxiliary contact</li> </ul>	cts		20 14		
Safety related data					
product function					
<ul> <li>mirror contact acc</li> </ul>	ording to IEC 60947-	4-1	Yes		
B10 value with high dem	-		450 000		
proportion of dangerou	-	0 011 0 1020	100 000		
	rate according to SN	31020	40 %		
	-				
<ul> <li>with high demand</li> </ul>	rate according to SN	31920	73 %		
-	1 I I I I				
failure rate [FIT] with low	v demand rate accord	ling to SN	100 FIT		
failure rate [FIT] with low 31920		-			
failure rate [FIT] with low 31920 T1 value for proof test in		-	100 FIT 20 a		
failure rate [FIT] with low 31920 T1 value for proof test in IEC 61508	nterval or service life a	according to	20 a		
failure rate [FIT] with low 31920 T1 value for proof test in IEC 61508 protection class IP on	nterval or service life a	according to			
failure rate [FIT] with low 31920 T1 value for proof test in IEC 61508 protection class IP on 60529	nterval or service life a	according to	20 a IP20	tact from the front	
failure rate [FIT] with low 31920 T1 value for proof test in IEC 61508 protection class IP on 60529 touch protection on the	nterval or service life a	according to	20 a	tact from the front	
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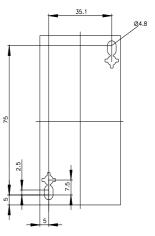


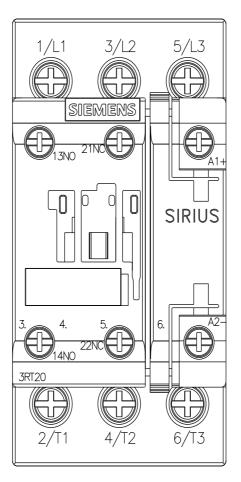
## Further information

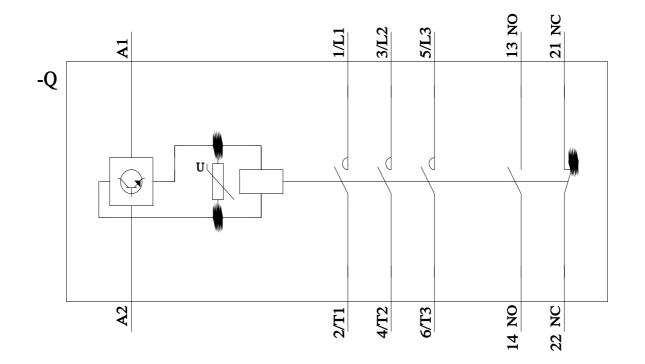
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