# **SIEMENS**

Data sheet 3RT2037-3SP30



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, F-PLC-IN

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
without load current share typical	2 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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	7.7g / 5 ms, 4.5g / 10 ms
• at DC	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at AC	12g / 5 ms, 7g / 10 ms
• at DC	12g / 5 ms, 7g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/29/2021
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

lain circuit	2
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	80 A
value	00 A
— up to 690 V at ambient temperature 60 °C rated	70 A
value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	53.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	38 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	38 A
minimum cross-section in main circuit at maximum AC-1 rated	25 mm²
value operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
at 690 V rated value	22 A
	ZZ A
operational current	
at 1 current path at DC-1  at 24 V rated value	55 A
at 24 V rated value      at 60 V rated value	23 A
— at 110 V rated value  — at 110 V rated value	4.5 A
— at 110 V rated value  — at 220 V rated value	4.5 A
	0.4 A
— at 440 V rated value	0.4 A 0.25 A
<ul><li>— at 600 V rated value</li><li>with 2 current paths in series at DC-1</li></ul>	0.20 A
— at 24 V rated value	55 A
— at 24 V rated value  — at 60 V rated value	55 A 45 A
— at 60 V rated value  — at 110 V rated value	45 A
— at 110 v rated value  — at 220 V rated value	5 A
— at 220 V rated value  — at 440 V rated value	1 A
— at 440 V rated value  — at 600 V rated value	0.8 A
	0.0 A
with 3 current paths in series at DC-1     at 24 V roted value.	SE A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A

		1.4 A		
	• at 1 current path at DC-3 at DC-5			
	— at 24 V rated value	35 A		
	— at 60 V rated value	6 A		
	— at 220 V rated value	1 A		
- with 2 current paths in series at DC-3 at DC-5  - at 24 V rated value - at 50 V rated value - at 25 V rated value - at 20 V rated value - at 20 V rated value - at 20 V rated value - at 24 V rated value - at 600 V rated value - at 25 A - at 110 V rated value - at 25 A - at 110 V rated value - at 25 A - at 100 V rated value - at 25 A - at 100 V rated value - at 25 A - at 40 V rated value - at 25 A - at 40 V rated value - at 25 A - at 40 V rated value - at 500 V rated value at 500 V rated value - at 500 V rated value at 500 V rated value - at 500 V rated value at 500 V rated value - at 500 V rated value at 500 V rated value - at 500 V r	— at 440 V rated value	0.1 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	55 A		
	— at 60 V rated value	45 A		
	— at 110 V rated value	25 A		
■ 1800 V rated value	— at 220 V rated value	5 A		
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.27 A		
with 3 current paths in series at DC-3 at DC-5	— at 600 V rated value	0.16 A		
at 24 V rated value				
	-	55 A		
operating power				
operating power				
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  4 at 400 V rated value  operating apparent power at AC-6a • 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for cur		0.00 A		
		30 kW		
		OO NVV		
- at 400 V rated value		40 E MM		
- at 500 V rated value				
- at 690 V rated value  • at AC-3e  - at 230 V rated value  - at 400 V rated value  - at 500 V rated value  - at 690 V 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 500 V for current peak value n=20 rated value  • up to 230 V for current peak value n=20 rated value  • up to 500 V for current peak value n=30 rated value  • up to 500 V for current peak value n=30 rated value  • up to 500 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  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited				
■ at AC-3e     — at 230 V rated value     — at 400 V rated value     — at 690 V rated value     — at 690 V 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 500 V for current peak value n=20 rated value     ■ up to 500 V for current peak value n=20 rated value     ■ up to 500 V for current peak value n=20 rated value     ■ up to 500 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				
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 590 V rated value - at 690 V rated value  • at 400 V rated value • at 690 V 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 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maxim		37 kW		
- at 400 V rated value - at 500 V rated value - at 690 V 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 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 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 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 690				
- at 500 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC- 4  • at 400 V rated value • at 690 V 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 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching a				
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 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 • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value  **Sonot-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum  **Ilmited to 1 s switching at zero current maximum  **Ilmited to 1 s switching at zero current maximum  **Ilmited to 60 s switching at zero current maximum  **Polytoperating frequency • at AC • at DC • at AC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum	— at 400 V rated value			
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 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 • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum	— at 500 V rated value	37 kW		
* at 400 V rated value     * at 690 V rated value     * operating apparent power at AC-6a     * 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 690 V for current peak value n=20 rated value     * 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 500 V for current peak value n=30 rated value     * up to 690 V for current peak value n=30 rated value     * up to 690 V for current peak value n=30 rated value     * up to 690 V for current peak value n=30 rated value     * up to 690 V for current peak value n=30 rated value     * inited to 1 s switching at zero current maximum     * limited to 5 s switching at zero current maximum     * limited to 5 s switching at zero current maximum     * limited to 10 s switching at zero current maximum     * limited to 30 s switching at zero current maximum     * limited to 60 s switching at zero current maximum     * limited to 60 s switching at zero current maximum     * limited to 60 s switching at zero current maximum     * limited to 60 s switching at zero current maximum     * limited to 60 s switching at zero current maximum     * at AC-4 rated value  ** operating frequency ** at AC-1 maximum     * at AC-1 maximum     * at AC-1 maximum     * at AC-1 maximum     * at AC-2 maximum     * at AC-3 maximum     * at AC-4 maximum     * at AC-3 maximum     * at AC-4 maximum     * at AC-4 maximum     * at AC-4 maximum     * at AC-3 maximum     * at AC-4	— at 690 V rated value	37 kW		
at 400 V rated value at 690 V rated value  operating apparent power at AC-6a  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 500 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 up to 500 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 up to 690 V for current peak value n=30 rated value sup to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  ilimited to 1 s switching at zero current maximum limited to 50 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC at AC 1 000 1/h  at AC-1 maximum at AC-2 maximum  800 1/h at AC-3 maximum 700 1/h				
a t 690 V rated value  operating apparent power at AC-6a  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 500 V for current peak value n=20 rated value up to 690 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 up to 500 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		14.7 kW		
operating apparent power at AC-6a  • 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 230 V for current peak value n=30 rated value • up to 400 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 500 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 • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  **O-load switching frequency • at AC  1 000 1/h • at DC  **O-load switching frequency • at AC-1 maximum • at AC-2 maximum  **O-load switching frequency • at AC-1 maximum • at AC-2 maximum  **O-load switching frequency • at AC-1 maximum • at AC-2 maximum  **O-load switching frequency • at AC-3 maximum  **O				
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=30 rated value up to 400 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 500 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 c				
up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value to perating 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 up to 500 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 up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current		39 400 VA		
up to 690 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         up to 500 V for current peak value n=30 rated value         up to 690 V for current peak value n=30 rated value         up to 690 V for current peak value n=30 rated value         short-time withstand current in cold operating state up to 40 °C          Ilmited to 1 s switching at zero current maximum         olimited to 1 s switching at zero current maximum         olimited to 10 s switching at zero current maximum         olimited to 30 s switching at zero current maximum         olimited to 60 s switching at zero cu	·			
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  • up to 500 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • up to 690 V for current peak value n=30 rated value  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero curr	·			
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 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>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to</li></ul>		00 100 171		
<ul> <li>up to 400 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>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 6</li></ul>		15 100 VA		
<ul> <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>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>272 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>272 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>at DC</li> <li>1 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>700 1/h</li> </ul>				
• up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 6				
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching frequency  • at AC  • at DC  • at AC-1 maximum  • at AC-2 maximum  • at AC-3 maximum  • at AC-4 maximum  • at AC-5 maximum				
Ilimited to 1 s switching at zero current maximum     Ilimited to 5 s switching at zero current maximum     Ilimited to 10 s switching at zero current maximum     Ilimited to 10 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum     Ilimited to 30 s switching at zero current maximum     Ilimited to 60 s switching at zero current maximum     Ilimited		45 300 VA		
<ul> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero</li></ul>				
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>at DC</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-5 maximum</li> <li>at AC-5 maximum</li> <li>at AC-6 maximum</li> <li>at AC-7 maximum</li> <li>at AC-8 maximum</li> <li>at AC-8 maximum</li> <li>at AC-9 maximum</li> <li>at AC-9 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-1 maximum</li></ul>		1 055 A: Use minimum cross-section acc. to AC-1 rated value		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>at DC</li> <li>1 000 1/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>1000 1/h</li> <li>1000 1/h</li></ul>	-			
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>1 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>336 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 000 1/h</li> <li>1 000 1/h</li> <li>4 000 1/h</li> <li>400 1/h</li> <li>700 1/h</li> </ul>	-			
<ul> <li>Ilmited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>1 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>272 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 000 1/h</li> <li>800 1/h</li> <li>400 1/h</li> <li>700 1/h</li> </ul>				
no-load switching frequency          • at AC        1 000 1/h          • at DC       1 000 1/h          operating frequency          • at AC-1 maximum        800 1/h          • at AC-2 maximum       400 1/h          • at AC-3 maximum       700 1/h				
<ul> <li>at AC</li> <li>at DC</li> <li>1 000 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3 maximum</li> </ul>		212 A, USC IIIIIIIIIIIII GIUSS-SCCIIUII duc. IU AC-1 Idleu Value		
● at DC  operating frequency  ● at AC-1 maximum  ● at AC-2 maximum  ● at AC-3 maximum  out AC-3 maximum  1 000 1/h  400 1/h  700 1/h		1,000,1/b		
operating frequency          • at AC-1 maximum        800 1/h          • at AC-2 maximum         • at AC-3 maximum        400 1/h				
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>700 1/h</li> </ul>		1 000 1/11		
<ul> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>400 1/h</li> <li>700 1/h</li> </ul>		000 4/1		
• at AC-3 maximum 700 1/h				
• at AC-3e maximum 700 1/h				
	• at AC-3e maximum	700 1/h		

• at AC-4 maximum	200 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	175 280 V
	175 280 V 175 280 V
at 60 Hz rated value	175 280 V
control supply voltage at DC	475 000 1/
rated value	175 280 V
operating range factor control supply voltage rated value of	
magnet coil at DC  • initial value	0.8
	1.1
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
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to IEC	11 mA
60947-1 maximum	
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	43 A
duration of inrush current peak	10 µs
locked-rotor current mean value	0.18 A
locked-rotor current peak	0.42 A
duration of locked-rotor current	230 ms
holding current mean value	0.01 A
apparent pick-up power of magnet coil at AC	0.0171
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	0.1/4
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	40 W
holding power of magnet coil at DC	1.6 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
recovery time after power failure typical	2.1 s
arcing time	10 20 ms
control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	0
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	1A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
at 46 V rated value     at 60 V rated value	6 A
at 100 V rated value     at 110 V rated value	3 A
■ at 110 v lateu value	V A
at 125 V rated value	2 A

• at 220 V rated value	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13			
at 24 V rated value	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	readity switching per 100 million (17 V, 1 ma)		
full-load current (FLA) for 3-phase AC motor			
at 480 V rated value	65 A		
at 600 V rated value	52 A		
yielded mechanical performance [hp]			
<ul> <li>for single-phase AC motor</li> </ul>			
— at 110/120 V rated value	5 hp		
— at 230 V rated value	10 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	20 hp		
— at 220/230 V rated value	20 hp		
— at 460/480 V rated value	50 hp		
— at 575/600 V rated value	50 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80		
with type of assignment 2 required	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)		
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 10 A (500 V, 1 kA)		
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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		
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method     side-by-side mounting	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 Yes		
● for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  ● side-by-side mounting  height	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 Yes 114 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 0 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height width depth  required spacing         • with side-by-side mounting	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm 10 mm		
for short-circuit protection of the auxiliary switch required 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             — at the side             — at the side             — downwards             — for live parts             — forwards	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 Yes 114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm  55 mm  130 mm  10 mm		
for short-circuit protection of the auxiliary switch required 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             — at the side             — at the side             — downwards             — for live parts             — forwards	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 Yes 114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method         • side-by-side mounting height width depth  required spacing         • with side-by-side mounting             — forwards             — upwards             — at the side             • for grounded parts             — at the side             — downwards             — at the side             — forwards             — upwards             — at the side             — forwards             — at the side             — downwards             — at the side             — downwards             — at the side             — downwards             • for live parts             — forwards             — upwards	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 Yes  114 mm  55 mm  130 mm  10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method	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 Yes  114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method	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 Yes 114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions     mounting position  fastening method         • side-by-side mounting         height width depth required spacing         • with side-by-side mounting             — forwards             — upwards             — at the side             • for grounded parts             — at the side             — downwards             — at the side Connections/ Terminals  type of electrical connection             • for main current circuit	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 Yes 114 mm 55 mm 130 mm  10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm		

of magnet coil	Spring-type terminals		
type of connectable conductor cross-sections for main contacts	Opinig-type terminals		
solid or stranded	2v (1 35 mm²) 1v (1 50 mm²)		
	2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)		
• finely stranded with core end processing	2X (1 25 IIIIII <sup>-</sup> ), 1X (1 35 IIIIII <sup>-</sup> )		
connectable conductor cross-section for main contacts	4 052		
finely stranded with core end processing	1 35 mm²		
connectable conductor cross-section for auxiliary contacts	0.5 0.5		
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	0.40 - 0.5		
— 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 1		
for auxiliary contacts	20 14		
Safety related data			
product function			
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes		
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No		
safety device type according to IEC 61508-2	Type B		
B10 value with high demand rate according to SN 31920	1 000 000		
Safety Integrity Level (SIL) according to IEC 61508	2		
SIL Claim Limit (subsystem) according to EN 62061	2		
performance level (PL) according to EN ISO 13849-1	С		
category according to EN ISO 13849-1	2		
stop category according to EN 60204-1	0		
Safe failure fraction (SFF)	96 %		
diagnostics test interval by internal test function maximum	28 800 s		
proportion of dangerous failures			
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %		
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %		
failure rate [FIT] with low demand rate according to SN 31920	100 FIT		
PFHD with high demand rate according to EN 62061	7.7E-8 1/h		
PFDavg with low demand rate according to IEC 61508	0.0067		
MTBF	52 a		
hardware fault tolerance according to IEC 61508	0		
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		

### Certificates/ approvals

suitability for use

#### **General Product Approval**

• safety-related switching on

• safety-related switching OFF



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates	Marine / Shipping
-----	---	---------------------------	-------------------	-------------------

No

Yes



## Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping other Railway









Confirmation Vibration and Shock

#### **Further information**

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-3SP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3SP30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3SP30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

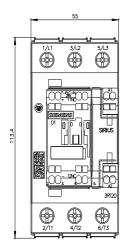
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-3SP30&lang=en

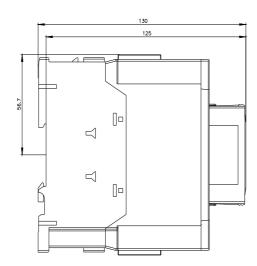
Characteristic: Tripping characteristics, I2t, Let-through current

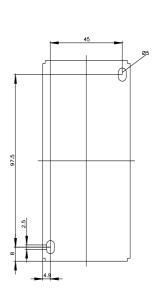
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3SP30/char

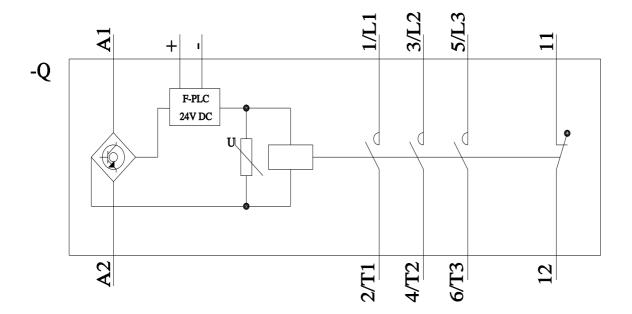
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3SP30&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸