## **SIEMENS**

Data sheet 3RT2037-1NP30



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 NO + 1 NC, screw terminal

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	
<ul> <li>without load current share typical</li> </ul>	2 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	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>	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)	10/01/2014	
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 %	

Main circuit	
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
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	80 A
rated value	
<ul> <li>at AC-1</li> <li>up to 690 V at ambient temperature 40 °C</li> </ul>	80 A
rated value	00 A
— up to 690 V at ambient temperature 60 °C	70 A
rated 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     at AC-5 aug to 600 V rated value	55 A
at AC-5a up to 690 V rated value     at AC-5b up to 400 V rated value	70.4 A
<ul><li>at AC-5b up to 400 V rated value</li><li>at AC-6a</li></ul>	53.9 A
— up to 230 V for current peak value n=20 rated	56.9 A
value	30.9 A
— up to 400 V for current peak value n=20 rated	56.9 A
value	
<ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>	56.9 A
value	
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated	38 A
value	
— up to 400 V for current peak value n=30 rated	38 A
value	
— up to 500 V for current peak value n=30 rated	38 A
value — up to 690 V for current peak value n=30 rated	38 A
— up to 690 v for current peak value n=30 rated value	36 A
minimum cross-section in main circuit at maximum AC-1	25 mm <sup>2</sup>
rated 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
operational current	
at 24 V roted value  at 24 V roted value	55 A
— at 24 V rated value  — at 60 V rated value	55 A 23 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1.A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
— at 000 v rated value	****
with 3 current paths in series at DC-1	

	— at 60 V rated value	55 A
** at 1 current path at DC-3 at DC-5 — at 260 V rated value — at 240 V rated value — at 600 V rated value — at 700 V rated value — at 100 V rated value — at 800 V rated value — at 600 V rated value — at 440 V rated value — at 440 V rated value — at 400 V rated value — at 600		
	•	35 A
at 600 Y rated value at 124 V rated value at 100 V rated value at 100 V rated value at 100 V rated value at 240 V rated value at 600 V rated value at 240 V rated value at 110 V rated value at 110 V rated value at 120 V rated value at 240 V rated value		
- with 2 current paths in series at DC-3 at DC-5  - at 24 V rated value - at 100 V rated value - at 1100 V rated value - at 25 A - at 240 V rated value - at 440 V rated value - at 400 V rated value - at 400 V rated value - at 600 V rated value - at 220 V rated value - at 400 V rated value - at 400 V rated value - at 600 V rated value - at 60		
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
		55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
■ at 600 V rated value     ■ with 3 current paths in series at DC-3 at DC-5     ■ at 24 V rated value     ■ at 60 V rated value     ■ at 100 V rated value     ■ at 220 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at 400 V rated value     ■ at AC-3     ■ at 230 V rated value     ■ at AC-3 V rated value     ■ at 400 V rated value     ■ at 500 V rated value     ■ at 600 V rated value     □ by to 230 V rated value     □ by to 230 V for current peak value n=20 rated value     □ up to 600 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     □ to 500 V for current peak value n=30 rated value     □ to 500 V for current peak va	— 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
at 24 V rated value	— 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 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 400 V rated value at 600 V rated value at 500 V rated value at 600 V rated value 20 rated value at 600 V rated value 20 rated value	— at 24 V rated value	55 A
at 220 V rated value at 460 V rated value at 600 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 500 V rated value at 600 V rated value 20 rated value at 600 V rated value 20 rated value at 600 V rocurrent peak value n=20 rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current for 600 V for current for 600 V for current for 600 V for current fo	— at 60 V rated value	55 A
- at 440 V rated value	— at 110 V rated value	55 A
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 500 V rated value — at 500 V rated value — at 600 V rated value — at 400 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  • at 400 V rated value  operating apparent power at AC-6a • up to 230 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 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 600 V for current peak value n=30 rated value • up to 600 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up t	— at 220 V rated value	25 A
e at AC-2 at 400 V rated value e at AC-3  — at 230 V rated value — at 600 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 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 400 V for current peak value n=30 rated value • up to 500 V for current pe	— at 440 V rated value	0.6 A
at AC-2 at 400 V rated value at AC-3  — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — 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  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  14.7 kW  20 kW  22.6 kVA  39.4 kVA  49.2 kVA  56.1 kVA  56.1 kVA  56.1 kVA  56.2 kVA  32.8 kVA  45.3 kVA  45.3 kVA  10.55 A; Use minimum cross-section acc. to AC-1 rated value  purp to 40 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 V c  limited to 10 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited	— at 600 V rated value	0.35 A
at AC-3  at 230 V rated value  at 400 V rated value  at AC-3e  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 400 V rated value  at 690 V rated value  30 kW  37 kW  37 kW  37 kW  37 kW  41 kW  41 kW  42 kW  43 kW  44 kW  45 kW  46 kW  47 kW  48 kW  49 kW  40 kW	operating power	
- at 230 V rated value - at 400 V rated value - at 690 V rated value - at 330 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 690 V for current peak value n=20 rated value - at 690 V rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak	<ul> <li>at AC-2 at 400 V rated value</li> </ul>	30 kW
- at 400 V rated value - at 590 V rated value 37 kW  • at AC-3e  - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 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 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 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to	• at AC-3	
- at 500 V rated value - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 400 V rated value - at 690 V rated value	— at 230 V rated value	18.5 kW
- at 690 V rated value  • at AC-3e  - at 230 V rated value  - at 400 V rated value  - at 690 V rated value  - at 690 V rated value  - at 400 V rated value  - at 690 V rated value  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  • up to 230 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 500 V for current peak value n=30 rated value  • up to 400 °C  • limited to 1 s switching at zero current maximum  • limited to 5 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 current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current ma	— at 400 V rated value	30 kW
at AC-3e — at 230 V rated value — at 400 V rated value — at 590 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating apparent power at AC-6a  up to 230 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=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 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 ilmited to 5 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 60 s switching at zero curre	— at 500 V rated value	37 kW
- at 230 V rated value - at 400 V rated value - at 690 V rated value - at 690 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 • at 690 V rated value • up to 230 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 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 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 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum	— at 690 V rated value	37 kW
- at 400 V rated value - 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 • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 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 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 • limited to 10 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 switc	• at AC-3e	
- 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 operating apparent power at AC-6a • up to 230 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 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 operating apparent power at AC-6a • up to 500 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup 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 10 s switching at zero current maximum olimited to 10 s switching at zero current maximum olimited to 10 s switching at zero current maximum olimited to 60 s switching at zero cu	— at 230 V rated value	18.5 kW
	<ul><li>— at 400 V rated value</li></ul>	30 kW
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 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=20 rated value • up to 230 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 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 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum olimited to 50 s switching at zero current maximum olimited to 60 s switching at zero current maximum no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum  14.7 kW 20 kW 22.6 kVA 39.4 kVA 49.2 kVA 46.2 kVA 46.2 kVA 45.3 kV	— at 500 V rated value	37 kW
at AC-4  • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 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 500 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 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60		37 kW
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 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 230 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>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>up to 690 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 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 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>at AC</li> <li>at DC</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> </ul>	operating power for approx. 200000 operating cycles	
• at 690 V rated value  operating apparent power at AC-6a  • up to 230 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 • 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 • 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 • 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 r		44.7100
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<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 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 30 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 30 s switching at zero current maximum</li> <li>limited to 30 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 30 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 30 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 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 zer</li></ul>		
<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>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>800 1/h</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
<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>1 500 1/h</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>2 500 1/h</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>2 500 1/h</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>2 72 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>2 72 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>2 72 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3 6 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>4 500 1/h</li> </ul>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <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>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>800 1/h</li> </ul>	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency		
<ul> <li>at AC</li> <li>at DC</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>800 1/h</li> </ul>		272 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>800 1/h</li> </ul>	no-load switching frequency	
operating frequency  ● at AC-1 maximum 800 1/h		
• at AC-1 maximum 800 1/h		1 500 1/h
• at AC-2 maximum 400 1/h		
	• at AC-2 maximum	400 1/h

at AC-3 maximum	700 1/h
at AC-3 maximum     at AC-3e maximum	700 1/h
• at AC-3 maximum	200 1/h
Control circuit/ Control	200 1/11
	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC  • at 50 Hz rated value	175 280 V
at 50 Hz rated value      at 60 Hz rated value	175 280 V 175 280 V
	175 200 V
control supply voltage at DC  • rated value	175 280 V
	175 200 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	5 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.2 A
locked-rotor current peak	0.42 A
duration of locked-rotor current	230 ms
holding current mean value	6 mA
apparent pick-up power of magnet coil at AC	
● at 50 Hz	40 VA
● at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
● at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 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
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts	1
instantaneous contact operational current at AC-12 maximum	10 A
•	10 A
operational current at AC-15	10.4
<ul><li>at 230 V rated value</li><li>at 400 V rated value</li></ul>	10 A 3 A
at 500 V rated value     at 500 V rated value	2 A
at 690 V rated value     at 690 V rated value	1 A
operational current at DC-12	171
• at 24 V rated value	10 A
at 48 V rated value	6 A
at 40 V rated value     at 60 V rated value	6 A
at 10 V rated value     at 110 V rated value	3 A
at 176 V rated value     at 125 V rated value	2 A
at 123 V rated value     at 220 V rated value	1A
- at LEO V ration Value	
<ul> <li>at 600 V rated value</li> </ul>	0 15 A
at 600 V rated value     operational current at DC-13	0.15 A
operational current at DC-13	
<ul><li>operational current at DC-13</li><li>at 24 V rated value</li></ul>	10 A
operational current at DC-13	

at 440 V retail welve	4.0
• at 110 V rated value	1 A
at 125 V rated value     at 220 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	
<ul> <li>at 480 V rated value</li> </ul>	65 A
<ul> <li>at 600 V rated value</li> </ul>	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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A
with time of the state of the s	(415 V, 80 kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)
required	90. 10 A (300 V, 1 KA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
mounting position	forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
-	60715
<ul><li>side-by-side mounting</li></ul>	Yes
height	114 mm
width	55 mm
depth	130 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
<ul><li>for main current circuit</li><li>for auxiliary and control circuit</li></ul>	screw-type terminals
<ul><li>for main current circuit</li><li>for auxiliary and control circuit</li><li>at contactor for auxiliary contacts</li></ul>	screw-type terminals Screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>	screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main</li> </ul>	screw-type terminals Screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> </ul>	screw-type terminals Screw-type terminals Screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> </ul>	screw-type terminals Screw-type terminals Screw-type terminals  2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> </ul>	screw-type terminals Screw-type terminals Screw-type terminals

contacts

 finely stranded with core end processing connectable conductor cross-section for auxiliary contacts

solid or stranded

• finely stranded with core end processing

type of connectable conductor cross-sections

· for auxiliary contacts

- solid or stranded

— finely stranded with core end processing

• at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for main contacts

• for auxiliary contacts

1 ... 35 mm<sup>2</sup>

0.5 ... 2.5 mm<sup>2</sup>

 $0.5\,...\,2.5\;mm^2$ 

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14)

18 ... 1

20 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

5-1

B10 value with high demand rate according to SN 31920 proportion of dangerous failures

• with low demand rate according to SN 31920

• with high demand rate according to SN 31920

failure rate [FIT] with low demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes No

1 000 000

40 %

73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

**General Product Approval** 



Confirmation





**Miscellaneous** 

<u>KC</u>

**General Product Approval** 

EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

EAC



Type Examination Certificate





Type Test Certificates/Test Report

**Test Certificates** 

Marine / Shipping

Special Test Certificate











Marine / Shipping

other

Railway

**Dangerous Good** 





## 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=3RT2037-1NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NP30

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

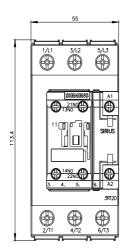
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NP30&lang=en

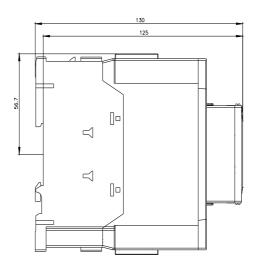
Characteristic: Tripping characteristics, I²t, Let-through current

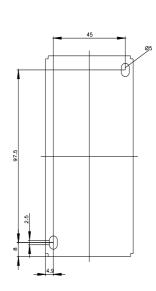
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NP30/char

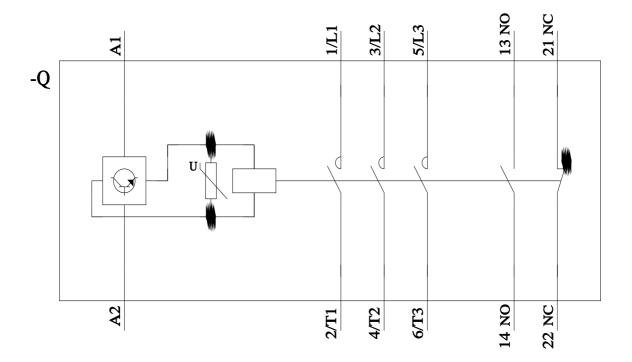
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NP30&objecttype=14&gridview=view1









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