3RT2036-1NB30-1AA0

# **Data sheet**



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

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>	12 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	4 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
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	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>	10 000 000
<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	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	
<ul> <li>during operation</li> </ul>	-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	
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 rated value</li> </ul>	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	70 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	43.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	24 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	28.8 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
● at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— 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

■ at 1 current path at DC-3 at DC-5  ■ at 24 V rated value	
at 24 V rated value	
at 60 V rated value 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	
at 220 V rated value	
at 440 V rated value	
→ with 2 current paths in series at DC-3 at DC-5	
• with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 45 A — at 110 V rated value 25 A — at 220 V rated value 5 A — at 440 V rated value 0.27 A — at 4600 V rated value 0.16 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value 55 A — at 220 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 20 V rated value 55 A — at 110 V rated value 55 A — at 20 V rated value 55 A — at 20 V rated value 0.8 A — at 440 V rated value 0.8 A — at 440 V rated value 0.8 A — at 460 V rated value 0.8 A — at 460 V rated value 0.8 A — at 600 V rated value 0.8 A — at 600 V rated value 0.8 A — at 600 V rated value 22 kW  • at AC-3 — at 230 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at AC-3e — at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW — at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 18 50 kW • at 690 V rated value 19 50 kW • at 690 V rated value 19 50 kW • at 690 V rated value 19 50 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 500 V for current peak value n=20 rated value 28.6 kVA	
- at 24 V rated value	
at 60 V rated value	
at 110 V rated value	
at 220 V rated value	
at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 25 A at 110 V rated value at 25 A at 120 V rated value at 600 V rated value at 700 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 600 V	
<ul> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>55 A</li> <li>— at 60 V rated value</li> <li>55 A</li> <li>— at 110 V rated value</li> <li>55 A</li> <li>— at 1220 V rated value</li> <li>— 55 A</li> <li>— at 220 V rated value</li> <li>— 55 A</li> <li>— at 440 V rated value</li> <li>— 0.6 A</li> <li>— at 600 V rated value</li> <li>— 0.35 A</li> </ul> Operating power <ul> <li>• at AC-2 at 400 V rated value</li> <li>• at AC-3</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 400 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— 22 kW</li> </ul> Operating power for approx. 200000 operating cycles at AC-4 <ul> <li>• at 400 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— 20 kW</li> </ul> Operating apparent power at AC-6a <ul> <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 690 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> <li>• up to 690 V for current peak value n=20 rated value</li> <li>• 28 kVA</li> </ul>	
<ul> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>55 A</li> <li>— at 60 V rated value</li> <li>55 A</li> <li>— at 110 V rated value</li> <li>55 A</li> <li>— at 220 V rated value</li> <li>— 55 A</li> <li>— at 220 V rated value</li> <li>— 0.6 A</li> <li>— at 600 V rated value</li> <li>— 0.5 A</li> <li>— at 440 V rated value</li> <li>0.5 A</li> <li>— at 600 V rated value</li> <li>22 kW</li> <li>• at AC-2 at 400 V rated value</li> <li>• at AC-3</li> <li>— at 230 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V rated value</li> <li>— at 400 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V</li></ul>	
• with 3 current paths in series at DC-3 at DC-5  — 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 25 A — at 440 V rated value 0.6 A — at 460 V rated value 0.55 A  operating power • at AC-2 at 400 V rated value 22 kW • at AC-3 — at 230 V rated value 15 kW — at 400 V rated value 22 kW • at AC-3 — at 230 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 400 V rated value 22 kW • at 400 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 30 kW — at 690 V ra	
- at 24 V rated value 55 A - at 60 V rated value 55 A - at 110 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 220 V rated value 0.6 A - at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW • at AC-3  - at 2400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 30 kW - at 690 V rated value 30 kW - at 690 V rated value 12 kW  operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 17.2 kVA • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW - at 600 V rated value 30 kW - at 690 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 690 V rated value 30 kW - at 690 V rated value 30 kW - at 690 V rated value 12.6 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 22 kW • at AC-3 - at 230 V rated value 15 kW - at 400 V rated value 22 kW - at 500 V rated value 22 kW • at AC-3  - at 230 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3  - at 400 V rated value 22 kW • at AC-3  - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at AC-3e - at 400 V rated value 22 kW • at 690 V rated value 30 kW - at 690 V rated value 12 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 12.6 kW • at 690 V rated value 12.6 kW • at 690 V rated value 17.2 kVA • up to 300 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 37.4 kVA	
- at 220 V rated value 25 A - at 440 V rated value 0.35 A  operating power  • at AC-2 at 400 V rated value 22 kW  • at AC-3  - at 230 V rated value 15 kW  - at 400 V rated value 22 kW  • at 500 V rated value 22 kW  • at AC-3e 30 kW  - at 690 V rated value 22 kW  • at AC-3e 22 kW  • at AC-3e 22 kW  • at 400 V rated value 22 kW  • at 500 V rated value 22 kW  • at 400 V rated value 22 kW  • at 690 V rated value 22 kW  - at 500 V rated value 22 kW  • at 500 V rated value 12 kW  - at 690 V rated value 12 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 12.6 kW  • at 690 V rated value 12.6 kW  • at 690 V rated value 17.2 kVA  • up to 230 V for current peak value n=20 rated value 29.9 kVA  • up to 500 V for current peak value n=20 rated value 37.4 kVA  • up to 690 V for current peak value n=20 rated value 37.4 kVA  • up to 690 V for current peak value n=20 rated value 37.4 kVA  • up to 690 V for current peak value n=20 rated value 28.6 kVA	
at 440 V rated value at 600 V rated value 0.35 A  operating power  ■ at AC-2 at 400 V rated value 22 kW ■ at AC-3 at 230 V rated value at 400 V rated value 22 kW at 400 V rated value at 500 V rated value at 690 V rated value 22 kW ■ at AC-3e at 400 V rated value at 400 V rated value 22 kW ■ at AC-3e at 400 V rated value at 500 V rated value at 500 V rated value at 690 V r	
— at 600 V rated value       0.35 A         operating power       22 kW         • at AC-2 at 400 V rated value       22 kW         • at AC-3       15 kW         — at 400 V rated value       22 kW         — at 690 V rated value       22 kW         • at AC-3e       22 kW         — at 400 V rated value       22 kW         — at 500 V rated value       30 kW         — at 690 V rated value       22 kW         operating power for approx. 200000 operating cycles at AC-4       4         • at 400 V rated value       12.6 kW         • at 690 V rated value       18.2 kW         operating apparent power at AC-6a       17.2 kVA         • up to 230 V for current peak value n=20 rated value       29.9 kVA         • up to 500 V for current peak value n=20 rated value       37.4 kVA         • up to 690 V for current peak value n=20 rated value       28.6 kVA	
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 400 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  • at 400 V rated value • at 690 V rated value  12.6 kW • at 690 V rated value  18.2 kW  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 690 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 690 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 690 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 690 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	
at AC-3  — 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 400 V rated value 22 kW  at AC-3e — at 400 V rated value — at 500 V rated value — at 500 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 12.6 kW at 690 V rated value 12.6 kW 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 29.9 kVA up to 500 V for current peak value n=20 rated value 37.4 kVA up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 230 V rated value	
- at 400 V rated value - at 500 V rated value 30 kW - at 690 V rated value 22 kW  • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 22 kW - at 500 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW  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 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 500 V rated value - at 690 V rated value 22 kW  • at AC-3e - at 400 V rated value 22 kW - at 500 V rated value 30 kW - at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW  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 28.6 kVA	
- at 690 V rated value  • at AC-3e  — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value  22 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  12.6 kW • at 690 V rated value 18.2 kW  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  22 kW  12.6 kW  17.2 kVA  29.9 kVA  37.4 kVA  29.9 kVA  29.9 kVA  20.0 vorcurrent peak value n=20 rated value	
at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value 12.6 kW at 690 V rated value 18.2 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value 17.2 kVA  up to 400 V for current peak value n=20 rated value 29.9 kVA  up to 500 V for current peak value n=20 rated value 37.4 kVA  up to 690 V for current peak value n=20 rated value 28.6 kVA	
- at 400 V rated value - at 500 V rated value 30 kW - at 690 V rated value 22 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value 12.6 kW • at 690 V rated value 18.2 kW  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 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
— 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  12.6 kW  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  28.6 kVA	
- at 690 V rated value  operating power for approx. 200000 operating cycles at AC-  at 400 V rated value at 690 V rated value at 690 V rated value 12.6 kW  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 29.9 kVA  up to 500 V for current peak value n=20 rated value 37.4 kVA  up to 690 V for current peak value n=20 rated value 28.6 kVA	
operating power for approx. 200000 operating cycles at AC-  • at 400 V rated value • at 690 V rated value 18.2 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 17.2 kVA • up to 400 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 37.4 kVA • up to 690 V for current peak value n=20 rated value 28.6 kVA	
at 400 V rated value at 690 V rated value  at 690 V rated value  18.2 kW  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  28.6 kVA	
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>18.2 kW</li> </ul> Operating apparent power at AC-6a <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>37.4 kVA</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>28.6 kVA</li> </ul>	
<ul> <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 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 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>28.6 kVA</li> </ul>	
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  28.6 kVA	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>28.6 kVA</li> </ul>	
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>29.9 kVA</li> <li>37.4 kVA</li> <li>28.6 kVA</li> </ul>	
<ul> <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>28.6 kVA</li> </ul>	
up to 690 V for current peak value n=20 rated value     28.6 kVA	
operating apparent power at AC-6a	
44 4 1 V A	
• up to 230 V for current peak value n=30 rated value 11.4 kVA	
• up to 400 V for current peak value n=30 rated value 19.9 kVA	
• up to 500 V for current peak value n=30 rated value 24.9 kVA	
• up to 690 V for current peak value n=30 rated value 28.6 kVA	
short-time withstand current in cold operating state up to 40 °C	
• limited to 1 s switching at zero current maximum  937 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 5 s switching at zero current maximum 697 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum  468 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum  282 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum  229 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at AC 1 500 1/h	
• at DC 1 500 1/h	
operating frequency	
• at AC-1 maximum 1 000 1/h	
• at AC-2 maximum 600 1/h	
• at AC-3 maximum 800 1/h	
• at AC-3e maximum 800 1/h	

type of voltage of the control supply voltage control supply voltage at AC  • at 50 Hz rated value • at 60 Hz rated value  • rated value • operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz duration of inrush current peak duration of inrush current peak locked-rotor current mean value  locked-rotor current mean value  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz  apparent holding current magnet coil at AC • at 50 Hz • at 60 Hz • at	
type of voltage of the control supply voltage control supply voltage at AC  at 50 Hz rated value 20 33 V  control supply voltage at DC  arated value 20 33 V  control supply voltage at DC  arated value 0 control supply voltage at DC  initial value 0 8  full-scale value 0 0.8  full-scale value 0 0.8  at 50 Hz  at 60 Hz  at 60 Hz  duration of inrush current peak 0 coked-rotor current mean value 1 coked-rotor current mean value 1 coked-rotor current mean value 1 coked-rotor current peak 0 coked-rot	
control supply voltage at AC  at 50 Hz rated value  20 33 V  control supply voltage at DC  arrated value  20 33 V  control supply voltage at DC  arrated value  20 33 V  coparating range factor control supply voltage rated value of magnet coil at DC  initial value  6 initial value  1.1  operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  by at 60 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  by at 60 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  coparating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  colosing power of magnet coil at DC  tolosing power of magnet coil at DC  tolosing delay  at AC  at AC  35 110 ms	
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e at 60 Hz rated value  control supply voltage at DC  e rated value  operating range factor control supply voltage rated value of magnet coil at DC  e initial value  of uill-scale value  operating range factor control supply voltage rated value of magnet coil at AC  e at 50 Hz  e at 50 Hz  obsign of the surge suppressor  inrush current peak  duration of inrush current peak  locked-rotor current mean value  toked-rotor current peak  duration of locked-rotor current teak  40 MmA  apparent pick-up power of magnet coil at AC  e at 50 Hz  at 60 Hz  apparent holding power of magnet coil at AC  e at 50 Hz  e at 60 Hz  apparent holding power of magnet coil at DC  holding power of magnet coil at DC  closing power of magnet coil at DC  toking delay  e at AC  at AC  35 110 ms	
control supply voltage at DC  • rated value  operating range factor control supply voltage rated value of magnet coil at DC  • initial value  • full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz  • at 60 Hz  design of the surge suppressor  inrush current peak  duration of inrush current peak  locked-rotor current mean value  locked-rotor current mean value  1 A  locked-rotor current peak  2.6 A  duration of locked-rotor current  230 ms  holding current mean value  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  40 VA  apparent holding power of magnet coil at AC  • at 60 Hz  2 VA  • at 60 Hz  • at 60 Hz  2 VA  • at 60 Hz  • at 60 Hz	
operating range factor control supply voltage rated value of magnet coil at DC  initial value  operating range factor control supply voltage rated value of magnet coil at AC  initial value  operating range factor control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  in at 50 Hz  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil supply voltage rated value of magnet coil at AC  other control supply voltage rated value of magnet coil supply voltage rated valu	
operating range factor control supply voltage rated value of magnet coil at DC  initial value  full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  into the surge suppressor  inrush current peak  duration of inrush current peak  locked-rotor current peak  duration of locked-rotor current  bolding current mean value  locked-rotor current peak  duration of locked-rotor current  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  locked-rotor at AC  at Colosing power of magnet coil at DC  holding power of magnet coil at DC  locked-rotor at AC  at	
magnet coil at DC  initial value  full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  design of the surge suppressor  inrush current peak  duration of inrush current peak  locked-rotor current mean value  locked-rotor current peak  duration of locked-rotor current  apparent pick-up power of magnet coil at AC  at 50 Hz  at 50 Hz  at 50 Hz  40 VA  apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  2 VA  closing power of magnet coil at DC  holding power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at AC  at AC  35 110 ms	
initial value full-scale value  full-scale value  operating range factor control supply voltage rated value of magnet coil at AC  at 50 Hz  at 60 Hz  testing of the surge suppressor  with varistor  inrush current peak  3 A  duration of inrush current peak  50 µs  locked-rotor current mean value  1 A  locked-rotor current mean value  2.6 A  duration of locked-rotor current  230 ms  holding current mean value  40 mA  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  at 60 Hz  2 VA  at 60 Hz  2 VA  at 60 Hz  2 VA  closing power of magnet coil at DC  1 W  closing delay  at AC  35 110 ms	
operating range factor control supply voltage rated value of magnet coil at AC  • at 50 Hz • at 60 Hz • at 60 Hz  design of the surge suppressor inrush current peak  duration of inrush current peak  locked-rotor current mean value  locked-rotor current peak  duration of locked-rotor current  230 ms  holding current mean value  apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  to sur an	
magnet coil at AC  • at 50 Hz • at 60 Hz 0.8 1.1  design of the surge suppressor with varistor inrush current peak 3 A duration of inrush current peak locked-rotor current mean value 1 A locked-rotor current peak 2.6 A duration of locked-rotor current holding current mean value 40 mA apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz closing power of magnet coil at DC 1 W closing delay • at AC	
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design of the surge suppressor inrush current peak  duration of inrush current peak  locked-rotor current mean value  locked-rotor current peak  duration of locked-rotor current  230 ms  holding current mean value  apparent pick-up power of magnet coil at AC  at 50 Hz  at 60 Hz  at 50 Hz  at 60 Hz  but 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  turent mean value  20 VA  20 VA  20 VA  closing power of magnet coil at DC  10 W  closing delay  at AC  35 110 ms	
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duration of inrush current peak  locked-rotor current mean value  locked-rotor current peak  2.6 A  duration of locked-rotor current  230 ms  holding current mean value  40 mA  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz  • at 60 Hz  2 VA  • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  1 W  closing delay  • at AC  35 110 ms	
locked-rotor current mean value  locked-rotor current peak  2.6 A  duration of locked-rotor current  230 ms  holding current mean value  40 mA  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz  • at 60 Hz  2 VA  • at 60 Hz  2 VA  closing power of magnet coil at DC  holding power of magnet coil at DC  1 W  closing delay  • at AC  35 110 ms	
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holding current mean value  apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  apparent holding power of magnet coil at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  2 VA  • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  tologing delay  • at AC  • at AC  40 VA  40 VA  2 VA  2 VA  2 VA  2 VA  3 W  holding power of magnet coil at DC  1 W  closing delay  • at AC	
apparent pick-up power of magnet coil at AC  • at 50 Hz  • at 60 Hz  40 VA  apparent holding power of magnet coil at AC  • at 50 Hz  • at 50 Hz  • at 60 Hz  2 VA  • at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  tologing delay  • at AC  at 50 Hz  2 VA  2 VA  2 VA  35 110 ms	
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>40 VA</li> <li>apparent holding power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>2 VA</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>1 W</li> <li>closing delay</li> <li>at AC</li> <li>35 110 ms</li> </ul>	
apparent holding power of magnet coil at AC  at 50 Hz  at 60 Hz  2 VA  at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  closing delay  at AC  40 VA  2 VA  2 VA  1 W  35 110 ms	
apparent holding power of magnet coil at AC  • at 50 Hz • 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	
<ul> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>2 VA</li> <li>closing power of magnet coil at DC</li> <li>holding power of magnet coil at DC</li> <li>1 W</li> <li>closing delay</li> <li>at AC</li> <li>35 110 ms</li> </ul>	
at 60 Hz  closing power of magnet coil at DC  holding power of magnet coil at DC  1 W  closing delay  at AC  35 110 ms	
closing power of magnet coil at DC  holding power of magnet coil at DC  1 W  closing delay  • at AC  35 110 ms	
holding power of magnet coil at DC  closing delay  • at AC  35 110 ms	
closing delay  ● at AC 35 110 ms	
• 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	
number of NO contacts for auxiliary contacts instantaneous contact	
operational current at AC-12 maximum 10 A	
operational current at AC-15	
• at 230 V rated value 10 A	
• at 400 V rated value 3 A	
• at 500 V rated value 2 A	
at 690 V rated value     1 A	
operational current at DC-12	
• at 24 V rated value 10 A	
• at 48 V rated value 6 A	
• at 60 V rated value 6 A	
• at 110 V rated value 3 A	
• at 125 V rated value 2 A	
• at 220 V rated value 1 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	
<ul> <li>at 220 V rated value</li> </ul>	0.3 A	
<ul> <li>at 600 V rated value</li> </ul>	0.1 A	
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)	
UL/CSA ratings		
full-load current (FLA) for 3-phase AC motor		
at 480 V rated value	52 A	
at 600 V rated value	52 A	
yielded mechanical performance [hp]		
• for single-phase AC motor		
— at 110/120 V rated value	3 hp	
— at 230 V rated value	10 hp	
for 3-phase AC motor		
— at 200/208 V rated value	15 hp	
— at 220/230 V rated value	15 hp	
— at 460/480 V rated value	40 hp	
— at 575/600 V rated value	50 hp	
contact rating of auxiliary contacts according to UL	A600 / P600	
	A00071 000	
Short-circuit protection		
design of the fuse link		
for short-circuit protection of the main circuit	0.400 4.000 1/.400 14)	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)	
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions		
mounting position	standing, on horizontal mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
side-by-side mounting	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	
<ul> <li>for grounded parts</li> </ul>		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	screw-type terminals	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts	Screw-type terminals	
of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections for main contacts	JP	
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)	
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 1x (1 35 mm²)	
connectable conductor cross-section for main contacts	2. ( 20 mm ), 1. ( 1 00 mm )	
finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary contacts		

<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²		
finely stranded with core end processing	0.5 2.5 mm²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 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		
B10 value with high demand rate according to SN 31920	1 000 000		
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		
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		
suitability for use			
<ul> <li>safety-related switching OFF</li> </ul>	Yes		

## Certificates/ approvals

### **General Product Approval**



Confirmation





<u>KC</u>



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



Type Examination Cer**tificate** 





Special Test Certific-

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping other Railway **Dangerous Good** Environment



Confirmation

Confirmation

Vibration and Shock

**Transport Information** 

Environmental Con-firmations

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

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=3RT2036-1NB30-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1NB30-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30-1AA0

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

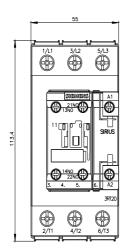
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2036-1NB30-1AA0&lang=en

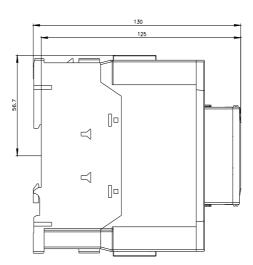
Characteristic: Tripping characteristics, I2t, Let-through current

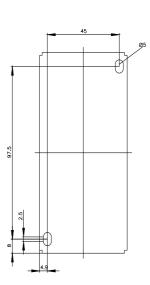
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1NB30-1AA0/char

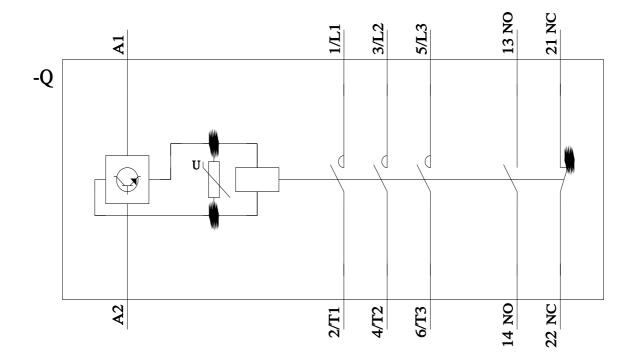
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1NB30-1AA0&objecttype=14&gridview=view1









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