## **SIEMENS**

Data sheet 3RT2018-2AP61



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 220 V AC, 50 Hz / 240 V, 60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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>	3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1 W
<ul> <li>without load current share typical</li> </ul>	1.7 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
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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
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	
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	00.4
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	20 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
• at AC-3e	0.571
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
at AC-4 at 400 V rated value     at AC-5 aug to 600 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	9.6 A
— up to 400 V for current peak value n=20 rated value	9.6 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.6 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	8.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	6.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	6.4 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6.4 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 110 v rated value  — at 220 V rated value	1.6 A
	0.8 A
— at 440 V rated value	
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1  at 24 V sets d valve.	20.4
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

at 24 V rated value	
■ with 2 current paths in series at DC-3 at DC-5      □ at 24 V rated value     □ at 60 V rated value     □ at 10 V rated value     □ at 110 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 110 V rated value     □ at 110 V rated value     □ at 220 V rated value     □ at 220 V rated value     □ at 220 V rated value     □ at 440 V rated value     □ at 600 V rated value     □ at AC-2 at 400 V rated value     □ at AC-2 at 400 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 400 V rated value     □ at 500 V rated value     □ at 400 V rated value     □ at 500 V rated value     □ at 5	
• with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 5 A — at 10 V rated value 0,35 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value 20 A — at 60 V rated value 20 A — at 60 V rated value 20 A — at 60 V rated value 20 A — at 220 V rated value 20 A — at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 400 V rated value 0.2 A  operating power  • at AC-2 at 400 V rated value 7.5 kW • at AC-3 — at 230 V rated value 7.5 kW — at 500 V rated value 7.5 kW • at AC-3  — at 230 V rated value 7.5 kW • at AC-3e — at 230 V rated value 7.5 kW • at AC-3e — at 230 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at AC-3e — at 250 V rated value 7.5 kW • at 690 V rated value 7.5 kW • at 690 V rated value 7.5 kW • at 690 V rated value 7.5 kW • at 500 V rated value 7.5 kW • at 500 V rated value 7.5 kW • at 690 V rated value 8.5 kW • at 690 V rated value 8.5 kW • at 690 V rated value 8.8 kVA • up to 230 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
at 24 V rated value 5 A at 60 V rated value 5 A at 110 V rated value 0.35 A at 110 V rated value 0.35 A at 110 V rated value 0.35 A at 24 V rated value 20 A at 24 V rated value 20 A at 24 V rated value 20 A at 110 V rated value 20 A at 110 V rated value 1.5 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A at 230 V rated value 7.5 kW at 300 V rated value 7.5 kW at 500 V rated value 7.5 kW at 600 V rated value 7.5	
<ul> <li>at 110 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>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>— at AC-2 at 400 V rated value</li> <li>— at 230 V rated value</li> <li>— at 230 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 7.5 kW</li> <li>— at 690 V rated value</li> <li>— at 7.5 kW</li> <li>— at 690 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	
- at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A - at 1110 V rated value 1.5 A - at 220 V rated value 0.2 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A  operating power  • at AC-2 at 400 V rated value 7.5 kW • at AC-3 - at 230 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at 690 V rated value 7.5 kW  - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 3.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
- at 24 V rated value 20 A - at 60 V rated value 20 A - at 110 V rated value 20 A - at 1220 V rated value 1.5 A - at 220 V rated value 0.2 A - at 440 V rated value 0.2 A  operating power  • at AC-2 at 400 V rated value 7.5 kW • at AC-3 - at 230 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW - at 690 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 7.5 kW  • at 690 V rated value 7.5 kW  - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
at 60 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 1.5 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A at 600 V rated value 0.2 A  operating power  • at AC-2 at 400 V rated value 7.5 kW • at AC-3 at 230 V rated value 7.5 kW at 400 V rated value 7.5 kW at 600 V rated value 7.5 kW  • at AC-3e at 230 V rated value 7.5 kW at 400 V rated value 7.5 kW at 600 V rated value 7.5 kW at 230 V roted value 7.5 kW at 230 V roted value 7.5 kW at 600 V rated value 7.5 kW	
- at 110 V rated value 20 A - at 220 V rated value 1.5 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A  operating power  • at AC-2 at 400 V rated value 7.5 kW • at AC-3 - at 230 V rated value 7.5 kW - at 400 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW • at AC-3e - at 230 V rated value 7.5 kW - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value 0.2 A  operating power  ■ at AC-2 at 400 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 400 V rated value at 230 V rated value at 230 V rated value at 400 V rated value at 890 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 690 V rated value	
at 440 V rated value at 600 V rated value 0.2 A  operating power  ■ at AC-2 at 400 V rated value 3.5 kW  ■ at AC-3  at 230 V rated value at 400 V rated value at 400 V rated value at 690 V rated value at 400 V rated value at 400 V rated value at 230 V rated value at 230 V rated value at 690 V rated value at 400 V rated value at 690 V rated value	
— at 600 V rated value       0.2 A         operating power       7.5 kW         • at AC-2 at 400 V rated value       7.5 kW         • at AC-3       4 kW         — at 400 V rated value       7.5 kW         — at 500 V rated value       7.5 kW         — at 690 V rated value       7.5 kW         • at AC-3e       4 kW         — at 230 V rated value       7.5 kW         — at 500 V rated value       7.5 kW         — at 690 V rated value       7.5 kW         operating power for approx. 200000 operating cycles at AC-4       4         • at 400 V rated value       2.5 kW         • at 690 V rated value       3.5 kW         operating apparent power at AC-6a       2.5 kW         • up to 230 V for current peak value n=20 rated value       3.8 kVA         • up to 500 V for current peak value n=20 rated value       6.6 kVA         • up to 500 V for current peak value n=20 rated value       8.3 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 230 V rated value — at AC-3e — 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  • at 400 V rated value • at 690 V rated value  3.5 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 500 V for current peak value n=20 rated value 8.3 kVA	
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 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 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  2.5 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 8.3 kVA  up to 500 V for current peak value n=20 rated value 8.3 kVA	
- at 230 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 4 kW - at 400 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 3.8 kVA • up to 400 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
at 400 V rated value 7.5 kW at 500 V rated value 7.5 kW at 690 V rated value 7.5 kW  • at AC-3e at 230 V rated value 4 kW at 400 V rated value 7.5 kW at 500 V rated value 7.5 kW at 690 V rated value 7.5 kW at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 3.8 kVA • up to 400 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
- at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW  • at AC-3e - at 230 V rated value 4 kW - at 400 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value 2.5 kW • at 690 V rated value 3.5 kW  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 3.8 kVA • up to 400 V for current peak value n=20 rated value 6.6 kVA • up to 500 V for current peak value n=20 rated value 8.3 kVA	
- 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  7.5 kW  - at 690 V rated value  7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  • at 690 V rated value  2.5 kW  • at 690 V rated value  3.5 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  8.3 kVA	
at AC-3e  — at 230 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  at 690 V rated value  at 690 V rated value  2.5 kW  at 690 V rated value  3.5 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  8.3 kVA	
- at 230 V rated value - at 400 V rated value 7.5 kW - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value 3.5 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 8.3 kVA	
- at 400 V rated value - at 500 V rated value 7.5 kW - at 690 V rated value 7.5 kW  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value 3.5 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 8.3 kVA	
- at 500 V rated value 7.5 kW 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 3.5 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 8.3 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  at 690 V rated value  3.5 kW  operating apparent power at AC-6a  aup to 230 V for current peak value n=20 rated value  aup to 400 V for current peak value n=20 rated value  aup to 500 V for current peak value n=20 rated value  aup to 500 V for current peak value n=20 rated value  8.3 kVA	
operating power for approx. 200000 operating cycles at AC-  • at 400 V rated value  • at 690 V rated value  3.5 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  8.3 kVA	
at 400 V rated value at 690 V rated value 3.5 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 8.3 kVA	
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>3.5 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>8.3 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>8.3 kVA</li> </ul>	
<ul> <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>8.3 kVA</li> </ul>	
<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>8.3 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>8.3 kVA</li> </ul>	
• up to 500 V for current peak value n=20 rated value 8.3 kVA	
• up to 690 V for current peak value n=20 rated value 10.6 kVA	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 2.5 kVA	
• up to 400 V for current peak value n=30 rated value 4.4 kVA	
• up to 500 V for current peak value n=30 rated value 5.5 kVA	
• up to 690 V for current peak value n=30 rated value 7.6 kVA	
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum 300 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 5 s switching at zero current maximum  169 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum  128 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum  74 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at AC 10 000 1/h	
operating frequency	
• at AC-1 maximum 1 000 1/h	
• at AC-2 maximum 750 1/h	
• at AC-3 maximum 750 1/h	
• at AC-3e maximum 750 1/h	
• at AC-4 maximum 250 1/h	
Control circuit/ Control	
type of voltage of the control supply voltage AC	
control supply voltage at AC	
• at 50 Hz rated value 220 V	
• at 60 Hz rated value 240 V	
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
apparent pick-up power of magnet coil at AC	
● at 50 Hz	36 VA
• at 60 Hz	36 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power of magnet coil at AC	
● at 50 Hz	5.9 VA
• at 60 Hz	5.9 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.24
• at 60 Hz	0.24
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	3 A
<ul> <li>at 500 V rated value</li> </ul>	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	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	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	14 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
onort-circuit protection	

<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li> 2.5 mm²</li> </ul>		
with type of assignment 2 capacited with type of assignment 2 capacited for short-circuit protection of the auxiliary switch required statification accounting femanicism for short-circuit protection of the auxiliary switch required statification accounting femanicism forwards downwards downwards downwards downwards downwards downwards downwards downwards forwards downwards forwards downwards forwards downwards forwards downwards downwards forwards downwards downwards downwards downwards formanicism femanicism fe	_	
with type of assignment 2 required gg: 28A (RBOW, 100KA), abl. 20A (RBOW, 100KA), BSB8: 25A (415V,ROKA) gg: 20 A (RBOW, 100KA), BSB8: 25A (RBOW, 100KA), BSB8:		aC: 50A (600)/ 100kA) aM: 25A (600)/ 100kA) PS99: 50A (415)/ 90kA)
Statistical mounting position  Asserting method Side by-side mounting Side by-side side Side Side Side Side Side Side Side S		
International position    Action   Acti		
## 1500* rotation possible on vertical mounting surface; not no telled forward and backward by # 2.25 for metical mounting surface; not not littled forward and backward by # 2.25 for metical mounting surface; not not littled forward and backward by # 2.25 for metical mounting surface; not not littled forward and backward by # 2.25 for metical mounting surface; not not littled forward and backward by # 2.25 for metical mounting onto 35 mm DIN rail according to DIN EN 60*15 for mm depth of mounting for metical		go. 10 A (300 V, 1 KA)
backward by + 7.2 25" on vertical mounting surface   side by-side mounting		+/-180° rotation possible on vertical mounting surface: can be tilted forward and
Ves	mounting position	
height         70 mm           width         45 mm           doph         73 mm           required spacing         73 mm           e with side-by-side mounting         10 mm           — forwards         10 mm           — downwards         10 mm           — downwards         10 mm           — for grounded parts         10 mm           — forwards         10 mm           — downwards         10 mm           — for live parts         10 mm           — forwards         10 mm           — forwards         10 mm           — forwards         10 mm           — downwards         10 mm           — forwards         10 mm           — downwards         10 mm           — forwards         10 mm           — downwards         10 mm           — forwards         10 m	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width doph         45 mm           doph         73 mm           required spacing         * with side-by-side mounting           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - at the side         0 mm           - for grounded parts         10 mm           - convards         10 mm           - upwards         10 mm           - downwards         10 mm           - for live parts         10 mm           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - ownections/ Terminals         10 mm           type of electrical connection         6 mm           • for maxillary and control circuit         spring-loaded terminals           spoing-loaded terminals         10 mm           spoing-loaded terminals         10 mm           spoing-loaded terminals         10 mm           spring-loaded terminals         10 mm           spring-loaded terminals         10 mm           spring-loaded terminals         10 mm           spring-loaded terminals         10 mm	side-by-side mounting	Yes
Table   Tabl	height	70 mm
Percentage   Per	width	45 mm
with side-by-side mounting	depth	73 mm
forwards	required spacing	
- upwards	<ul><li>with side-by-side mounting</li></ul>	
- downwards - at the side	— forwards	
at the side	·	
• for grounded parts		
forwards		0 mm
- upwards		40
at the side  - downwards  • for live parts  - forwards  - upwards  - downwards  - downwards  - downwards  - downwards  - at the side  - downwards  - at the side  - for ma  - an incurrent circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-section for main contacts  • solid  solid or stranded  • for ley stranded without core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  • solid or stranded  • finely stranded without core end processing  • for AWG cables for auxiliary contacts  • for auxiliary contacts		
- downwards • for live parts - forwards - upwards - upwards - downwards - downwards - at the side - at the side - at the side - at the side - for main current circuit • for main current circuit • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • finely stranded without core end processing • for auxiliary contacts  • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	•	
• for live parts  — forwards — upwards — downwards — at the side  onnections/ Terminals  type of electrical connection  • for main current circuit • at contactor for auxiliary and control circuit • of auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid • solid or stranded • solid or stranded • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  • solid or stranded • finely stranded without core end processing • for auxiliary contacts  • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts		
forwards 10 mm		10 min
- upwards	·	10 mm
- downwards — at the side 6 mm  connections/ Terminals  **Type of electrical connection  • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts spring-loaded terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • solid solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  • solid or stranded • finely stranded without core end processing • for AWG cables for auxiliary contacts • for auxiliary contacts		
The side 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals  type of connectable conductor cross-sections for main contacts • solid 2x (0.5 4 mm²) • solid or stranded • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded with core end processing 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts  • solid or stranded 2x (0.5 2.5 mm² • for auxiliary contacts 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) • for for main contacts 2x (0.5 2.5 mm²) • for for main contacts 2x (0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 2.5 mm²) • for auxiliary contacts 2x (0.5 2.5 mm²) • for main contacts 2x (0.5 2.5 mm²) • for main contacts 2x (0.5 2.5 mm²)	•	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at confactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • for auxiliary contacts  • solid or stranded  - finely stranded with core end processing  • for AWC cables for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for main contacts  • for main contacts  • for auxiliary contacts		
Type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid  • solid or stranded  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  — solid or stranded  • finely stranded without core end processing  • for auxiliary contacts  — solid or stranded  • finely stranded without core end processing  • for auxiliary contacts  AWG number as coded connectable conductor cross-section  • for faWG cables for auxiliary contacts  • for faWG cables for auxiliary contacts  • for faws contacts  • for faws contacts  • for faws cables for auxiliary contacts  • for faws cables for auxiliary contacts  • for faws cables for auxiliary contacts  • for faws contacts  • for faws cables for auxiliary contacts  • for faws cables for auxiliary contacts  • for faws contacts  • for faws cables for auxiliary contacts  • for faws cables for auxiliary contacts  • for faws contacts  • for faws cables for auxiliary contacts  • for faws contacts  • for faws ca		· IIIII
• for main current circuit     • for auxiliary and control circuit     • for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil  type of connectable conductor cross-sections for main contacts     • solid     • solid or stranded     • finely stranded with core end processing     • finely stranded with core end processing     • solid     • stranded     • finely stranded with core end processing     • solid     • stranded     • finely stranded with core end processing     • finely stranded with core end processing     • solid     • stranded     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • for auxiliary contacts     • solid or stranded     • finely stranded with core end processing     • for auxiliary contacts     • solid or stranded     • finely stranded with core end processing     • for auxiliary contacts     • for AWG cables for auxiliary contacts     • for AWG cables for auxiliary contacts     • for farward auxiliary contacts		
for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil Spring-type terminals  of magnet coil Spring-type terminals  spring-type terminals  spring-type terminals  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     solid or stranded with core end processing     inely stranded without core end processing     inely stranded without core end processing     solid     solid     solid     solid     stranded     stranded     stranded     stranded     stranded     sinely stranded with core end processing     solid or stranded without core end processing     solid or stranded     stranded     stranded     stranded     stranded     solid or stranded without core end processing     solid or stranded without core end processing     solid or stranded without core end processing     solid or stranded     ifinely stranded with core end processing     solid or stranded     ifinely stranded with core end processing     ifinely stranded without core end processing     ifinely stranded without core end processing     ifinely stranded without core end processing     if finely stranded without		spring-loaded terminals
• at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts  • for main contacts • for auxiliary contacts  • for main contacts • for auxiliary contacts • for auxiliary contacts		
of magnet coil      type of connectable conductor cross-sections for main contacts         • solid             • solid ostranded             • finely stranded with core end processing             • finely stranded without core end processing             • solid             • stranded             • solid             • stranded             • solid             • stranded             • stranded             • stranded             • finely stranded with core end processing             • solid             • stranded             • finely stranded with core end processing             • finely stranded without core end processing             • finely stranded without core end processing             • solid or stranded             • finely stranded with core end processing             • finely stranded with core end processing             • finely stranded with core end processing             • finely stranded without core end processing             • finely stranded without core end processing             • for auxiliary contacts              • for auxiliary contacts              • finely stranded with core end processing             • for auxiliary contacts              • finely stranded with core end processing             • for AWG cables for auxiliary contacts              • for AWG cables for auxiliary contacts              • for for auxiliary contacts              • for for main contacts             • for auxiliary contacts             • for auxiliary contacts	•	
type of connectable conductor cross-sections for main contacts  • solid • solid or stranded • finely stranded with core end processing • solid • stranded without core end processing • solid • solid • solid • solid • solid • finely stranded without core end processing • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded • finely stranded • finely stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  — solid or stranded — finely stranded — finely stranded with core end processing • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • for auxiliary contacts  • for auxiliary contacts  • for fawG cables for auxiliary contacts  • for auxiliary contacts • for auxiliary contacts  • for main contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts	•	
<ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>2x (0.5 2.5 mm²)</li> <li>finely stranded without core end processing</li> <li>2x (0.5 2.5 mm²)</li> </ul> Connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>o.5 2.5 mm²</li> </ul> Connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>o.5 2.5 mm²</li> </ul> Connectable conductor cross-sections of inely stranded with core end processing <ul> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul>		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>x (0.5 2.5 mm²)</li> </ul> connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul>		2x (0.5 4 mm²)
<ul> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>2x (0.5 2.5 mm²)</li> </ul> connectable conductor cross-section for main contacts <ul> <li>• solid</li> <li>• stranded</li> <li>• stranded with core end processing</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• finely stranded without core end processing</li> <li>• finely stranded without core end processing</li> <li>• for auxiliary contacts</li> <li>- solid or stranded</li> <li>- finely stranded with core end processing</li> <li>• for auxiliary contacts</li> <li>- finely stranded without core end processing</li> <li>- for auxiliary contacts</li> </ul> 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)<	solid or stranded	
e finely stranded without core end processing  connectable conductor cross-section for main contacts  e solid  stranded  of inely stranded with core end processing  finely stranded without core end processing  of inely stranded with core end processing  of inely stranded with core end processing  of inely stranded with core end processing  of inely stranded without core end processing  of inely stranded without core end processing  of rauxiliary contacts  of or auxiliary contacts  of or auxiliary contacts  of or AWG cables for auxiliary contacts  of or AWG cables for auxiliary contacts  of or AWG cables for auxiliary contacts  of or AWG number as coded connectable conductor crosssection  of or main contacts  of or auxiliary contacts  of or auxiliary contacts  20 12  20 12	<ul> <li>finely stranded with core end processing</li> </ul>	
solid     stranded     stranded     finely stranded with core end processing     finely stranded without core end processing     finely stranded without core end processing     solid or stranded     solid or stranded     finely stranded with core end processing     solid or stranded     finely stranded with core end processing     solid or stranded     solid or stranded without core end processing     solid or stranded     solid or str		
<ul> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>o.5 2.5 mm²</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>o.5 4 mm²</li> <li>finely stranded with core end processing</li> <li>o.5 2.5 mm²</li> <li>finely stranded without core end processing</li> <li>o.5 2.5 mm²</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>- solid or stranded</li> <li>- solid or stranded with core end processing</li> <li>- finely stranded with core end processing</li> <li>- finely stranded without core end processing</li> <li>2x (0.5 4 mm²)</li> <li>- finely stranded without core end processing</li> <li>2x (0.5 2.5 mm²)</li> <li>• for AWG cables for auxiliary contacts</li> <li>2x (20 12)</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul>		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>0.5 2.5 mm²</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul>	• solid	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>0.5 2.5 mm²</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul>	• stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing  2x (0,5 4 mm²)  — finely stranded with core end processing  2x (0,5 4 mm²)  — finely stranded with core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²)  • for AWG cables for auxiliary contacts  2x (20 12)  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts  20 12	<ul> <li>finely stranded with core end processing</li> </ul>	
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>for AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul>		0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— finely stranded without core end processing</li> <li>— for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> </ul>	connectable conductor cross-section for auxiliary contacts	
• finely stranded without core end processing  type of connectable conductor cross-sections     • for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     — finely stranded without core end processing     2x (0.5 2.5 mm²)     — for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts  20 12  • for auxiliary contacts  20 12	solid or stranded	0.5 4 mm²
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts  20 12	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>2x (20 12)</li> <li>4 (20 12)</li> <li>5 (20 12)</li> <li>6 (20 12)</li> <li>1 (20 12)</li> <li>1 (20 12)</li> <li>1 (20 12)</li> </ul>	<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (20 12)	type of connectable conductor cross-sections	
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>20 12</li> <li>• for auxiliary contacts</li> </ul>	for auxiliary contacts	
— finely stranded without core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  20 12	— solid or stranded	2x (0,5 4 mm²)
for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section      for main contacts     for auxiliary contacts  20 12  20 12	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 12	<ul> <li>finely stranded without core end processing</li> </ul>	
section  • for main contacts • for auxiliary contacts 20 12 20 12		2x (20 12)
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul>		
• for auxiliary contacts 20 12		20 12
•		
	<u> </u>	
product function		

<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29
suitability for use safety-related switching OFF	Yes
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 %
with high demand rate according to SN 31920	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

Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



Functional
Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping





Confirmation









Marine / Shipping

other

 $\wedge$ 

Confirmation

Vibration and Shock

Railway

Environmental Confirmations

**Environment** 

## Courth ou 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=3RT2018-2AP61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-2AP61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AP61

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

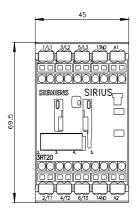
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2018-2AP61&lang=en

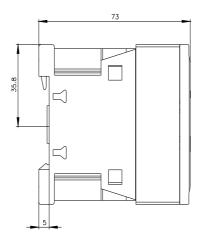
Characteristic: Tripping characteristics, I2t, Let-through current

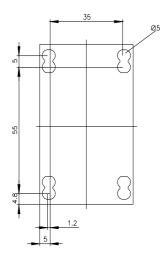
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AP61/char

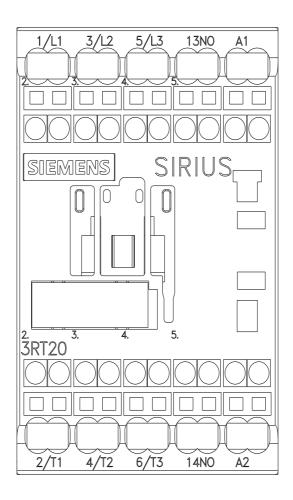
Further characteristics (e.g. electrical endurance, switching frequency)

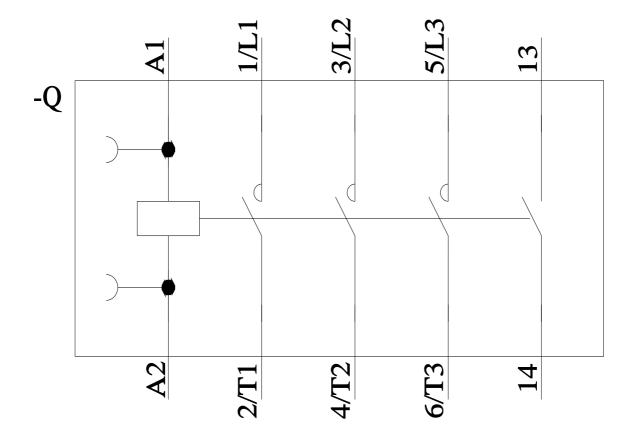
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-2AP61&objecttype=14&gridview=view1











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