## **SIEMENS**

Data sheet 3RT2038-3NB30



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
size of contactor	S2	
product extension		
<ul> <li>function module for communication</li> </ul>	No	
<ul> <li>auxiliary switch</li> </ul>	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	17.1 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	5.7 W	
<ul> <li>without load current share typical</li> </ul>	2 W	
insulation voltage		
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V	
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V	
surge voltage resistance		
<ul> <li>of main circuit rated value</li> </ul>	6 kV	
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at AC	7.7g / 5 ms, 4.5g / 10 ms	
• at DC	7.7g / 5 ms, 4.5g / 10 ms	
shock resistance with sine pulse		
• at AC	12g / 5 ms, 7g / 10 ms	
• at DC	12g / 5 ms, 7g / 10 ms	
mechanical service life (operating cycles)		
of contactor typical	10 000 000	
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2014	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<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 %	

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	90 A
• at AC-1	00.4
— up to 690 V at ambient temperature 40 °C rated value	90 A 80 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	00 A
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	55 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	79.2 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	66.4 A
● at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	70 A
— up to 400 V for current peak value n=20 rated value	70 A
— up to 500 V for current peak value n=20 rated value	70 A 58 A
<ul><li>— up to 690 V for current peak value n=20 rated value</li><li>• at AC-6a</li></ul>	30 A
— up to 230 V for current peak value n=30 rated value	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated</li> </ul>	46.7 A 46.7 A
value minimum cross-section in main circuit at maximum AC-1	35 mm²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	30 A
• at 690 V rated value	24 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
with 2 current paths in series at DC-1	55.4
— 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
<ul><li>— at 600 V rated value</li><li>with 3 current paths in series at DC-1</li></ul>	0.8 A
at 24 V rated value	55 A

	— at 60 V rated value	55 A
** at 1 current path a DC-3 at DC-5 — at 260 V rated value — at 400 V rated value — at 600 V rated value — at 700 V rated value — at 700 V rated value — at 110 V rated value — at 600 V rated value — 55 A — at 24 V rated value — 55 A — at 20 V rated value — 55 A — at 10 V rated value — 55 A — at 10 V rated value — 50 A — at 100 V rated value — 55 A — at 20 V rated value — 55 A — at 20 V rated value — 57 KW — at 600 V rated value — 37 KW — at 200 V rated value — at 400 V rated value — at 200 V rated value — at 600 V rated va		
	•	35 A
at 600 Y rated value at 124 V rated value at 100 V rated value at 100 V rated value at 120 V rated value at 240 V rated value at 260 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 240 V rated value at 110 V rated value at 240 V rated value		
with 2 current paths in series at DC-3 at DC-5     = at 24 V rated value     = at 100 V rated value     = at 100 V rated value     = at 100 V rated value     = at 200 V rated value     = at 440 V rated value     = at 440 V rated value     = at 600 V rated value     = at 110 V rated value     = at 220 V rated value     = at 600 V rated val		
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
		55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
■ at 600 V rated value     ■ with 3 current paths in series at DC-3 at DC-5     ■ at 24 V rated value     □ at 100 V rated value     □ at 110 V rated value     □ at 220 V rated value     □ at 220 V rated value     □ at 400 V rated value     □ at 400 V rated value     □ at 400 V rated value     □ at 230 V rated value     □ at 400 V rated value     □ at 600 V rated value     □ pu to 200 V rated value     □ pu to 200 V for current peak value n=20 rated value     □ pu to 500 V for current peak value n=20 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=30 rated value     □ pu to 500 V for current peak value n=40 rate value     □ pu to 500 V for current peak value n=40 rate value     □ pu t	— at 220 V rated value	5 A
- with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.27 A
at 24 V rated value	— at 600 V rated value	0.16 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 400 V rated value at 600 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 500 V rated value at 600 V rated value 20 rated value at 600 V rated value 20 rated value at 600 V roc current peak value n-20 rated value at 600 V roc current peak value n-20 rated value at 600 V roc current peak value n-20 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 rated value at 600 V roc current peak value n-30 ra	— at 24 V rated value	55 A
- at 220 V rated value - at 460 V rated value 0.6 A 0.6 A 0.35 A  operating power  • at AC-2 at 400 V rated value • at AC-3  - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated value - at 500 V rated value - at 600 V rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=30 rated valu	— at 60 V rated value	55 A
- at 440 V rated value	— at 110 V rated value	55 A
operating power  at AC-2 at 400 V rated value  at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value  operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value	— at 220 V rated value	25 A
e at AC-2 at 400 V rated value e at AC-3  — at 230 V rated value — at 500 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value	— at 440 V rated value	0.6 A
at AC-2 at 400 V rated value at AC-3  — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  15.8 kW  21.8 kW  27.8 kVA  48.4 kVA  60.6 kVA  60.5 kVA  60.6 kVA  60.5 kVA  60.6 kVA  60.5 kVA  60.5 kVA  60.6 kVA  60.5 kVA  60.6 kVA  60.5 kVA  60.6 kVA	— at 600 V rated value	0.35 A
at AC-3  at 230 V rated value  at AC 3e  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at AC 3e  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 690 V rated value  at 690 V rated value  57 kW  45 kW  22 kW  37 kW  45 kW  46 kW  47 kW  48 kW  48 kW  49 to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  up to 500 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  sup to 500 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  ilimited to 10 s switching at zero current maximum  ilimited to 50 s switching at zero current maximum  ilimited to 30 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 s switching at zero current maximum  ilimited to 60 switching at zero current maxi	operating power	
- at 230 V rated value - at 400 V rated value - at 690 V rated value - at 330 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 690 V rated value	<ul> <li>at AC-2 at 400 V rated value</li> </ul>	37 kW
- at 400 V rated value - at 590 V rated value 45 kW  • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value • up to 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=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=3	• at AC-3	
- at 500 V rated value - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated value	— at 230 V rated value	22 kW
- at 690 V rated value  • at AC-3e  - at 230 V rated value  - at 400 V rated value  - at 590 V rated value  - at 690 V rated value  • at 400 V rated value  • at 690 V rated value  • at 690 V rated value  • at 690 V rated value  • up to 230 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 500 V for current peak value n=30 rated value  • up to 400 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current	— at 400 V rated value	37 kW
at AC-3e — at 230 V rated value — at 400 V rated value — at 590 V rated value — at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4  at 400 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 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 operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value operating apparent power at AC-6a  up to 500 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 500 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 500 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for current peak value n=30 rated value oup to 600 V for c	— at 500 V rated value	37 kW
- at 230 V rated value - at 400 V rated value - at 690 V rated value  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value sup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current ma	— at 690 V rated value	45 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value sup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 10 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum •	• at AC-3e	
- at 500 V rated value - at 690 V rated value operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 500 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 500 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value oup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 10 s switching at zero current maximum olimited to 10 s switching at zero current maximum olimited to 10 s switching at zero current maximum olimited to 60 s switching at zero cu	— at 230 V rated value	22 kW
	— at 400 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum no-load switching frequency • at AC • at DC  operating frequency • at AC-1 maximum  15.8 kW  21.8 kW  27.8 kVA  48.4 kVA  60.6 kVA  69.3 kVA  18.6 kVA  32.3 kVA  40.4 kVA  55.8 kVA  18.6 kVA	— at 500 V rated value	37 kW
at AC-4  • at 400 V rated value • at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value operating apparent power at AC-6a  • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zer		45 kW
<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>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>700 1/h</li> </ul>	operating power for approx. 200000 operating cycles	
• at 690 V rated value  operating apparent power at AC-6a  • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maxim		45.0 kM
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>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> </ul> <ul> <li>27.8 kVA</li> <li>48.4 kVA</li> <li>60.6 kVA</li> <li>48.4 kVA</li> <li>48.4 kVA</li> <li>60.6 kVA</li> <li>48.5 kVA</li> </ul> <li>18.6 kVA</li> <li>32.3 kVA</li> <li>40.4 kVA</li> <li>55.8 kVA</li> 1 298 A; Use minimum cross-section acc. to AC-1 rated value 640 A; Use minimum cross-section acc. to AC-1 rated value 41 4 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 1 500		21.0 KVV
<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>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> </ul>		27.0 1/1/1
<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>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>l</li></ul>		
• up to 690 V for current peak value n=20 rated value     • up to 230 V for current peak value n=30 rated value     • up to 400 V for current peak value n=30 rated value     • up to 500 V for current peak value n=30 rated value     • up to 690 V for current peak value n=30 rated value     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 1 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 10 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at zero current maximum     • limited to 60 s switching at	·	
<ul> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching</li></ul>	·	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to</li></ul>		00.0 KV/I
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>lim</li></ul>		18 6 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>1 298 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>640 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>414 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3500 1/h</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>1 500 1/h</li> </ul>		
<ul> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state</li> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>1 298 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>444 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>3500 1/h</li> <li>1 500 1/h</li> </ul>	·	
short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum  olimited to 60 s switching at zero current maximum  alimited to 60 s switching at zero current maximum  fooload switching frequency • at AC  at DC  operating frequency • at AC-1 maximum  1 298 A; Use minimum cross-section acc. to AC-1 rated value  444 A; Use minimum cross-section acc. to AC-1 rated value  415 ON 1/h  1 500 1/h  700 1/h		
<ul> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>at AC</li> <li>at DC</li> <li>at DC</li> <li>at AC-1 maximum</li> <li>1 298 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>414 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>350 1/h</li> <li>1 500 1/h</li> <li>700 1/h</li> </ul>	·	
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>898 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>700 1/h</li> </ul>		
<ul> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>700 1/h</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 298 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>414 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>333 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>700 1/h</li> </ul>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	898 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> <li>no-load switching frequency</li> <li>at AC</li> <li>at DC</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>700 1/h</li> </ul>	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	640 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency		
<ul> <li>at AC</li> <li>at DC</li> <li>1 500 1/h</li> <li>1 500 1/h</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>700 1/h</li> </ul>		333 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>at DC</li> <li>operating frequency</li> <li>at AC-1 maximum</li> <li>700 1/h</li> </ul>	no-load switching frequency	
operating frequency  ◆ at AC-1 maximum 700 1/h		
• at AC-1 maximum 700 1/h		1 500 1/h
• at AC-2 maximum 350 1/h		
	• at AC-2 maximum	350 1/h

a at AC 3 maximum	500 1/h
<ul><li>at AC-3 maximum</li><li>at AC-3e maximum</li></ul>	500 1/h
• at AC-3 maximum	150 1/h
Control circuit/ Control	130 1/11
	AC/DC
type of voltage of the control supply voltage	AO/DC
control supply voltage at AC  • at 50 Hz rated value	20 33 V
at 50 Hz rated value     at 60 Hz rated value	20 33 V
	20 33 V
control supply voltage at DC  • rated value	20 33 V
	20 33 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	50 μs
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	40 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
● at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
● at 50 Hz	2 VA
● at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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
<ul> <li>at 690 V rated value</li> </ul>	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
<ul> <li>at 110 V rated value</li> </ul>	3 A
• at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
<ul><li>at 600 V rated value</li></ul>	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
• at 60 V rated value	2 A

* at 110 V rated value * at 1220 V rated value * at 220 V rated value * at 250 V rated value * at 360 V rated value * at 1012 V rated value * at 200 V rated value * with type of assignment 2 required * (at 50 V 80 V A) * (at 50 V 80 V		
• at 220 V rated value	<ul> <li>at 110 V rated value</li> </ul>	1 A
• at 800 V rated value		
1 faulty switching per 100 million (17 V, 1 mA)		
### full-load current (FLA) for 3-phase AC motor  * all 480 V rated value  * at 600 V rated value  * at 600 V rated value  * at 600 V rated value  * at 101/20 V rated value  - at 230 V rated value  - at 230 V rated value  - at 200/208 V rated value  - at 480/480 V rated value  - at 575000 V rated value  - with type of coordination of the main circuit  - with type of coordination of the main circuit  - with type of coordination of the main circuit  - with type of coordination of the auxiliary switch  - with type of coordination of the auxiliary switch  - for short-circuit protection of the auxiliary switch  - side-by-side mounting of the standard short of short switch  - side-by-side mounting  - with side-by-side mounting  - with side-by-side mounting  - for wards  - upwards  - upwards  - for wards  - for		
tull-oad current (FLA) for 3-phase AC motor  • at 80 V rated value  • at 600 V rated value  • at 600 V rated value  • at 600 V rated value  • of single-phase AC motor  • at 110 Y20 V rated value  • of c-phase AC motor  • at 200200 V rated value  • of c-phase AC motor  • at 200200 V rated value  • of c-phase AC motor  • at 200200 V rated value  • at 200200 V rated value  • at 404080 V rated value  • at 404080 V rated value  • of short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of assignment 2 required  • of short-circuit protection of the main circuit  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch  • safet-by-side mounting  • with side by-side mounting  • with side by-side mounting  • for short-circuit sylvane  • for movards  • for		1 faulty switching per 100 million (17 V, 1 mA)
• at 88 V rated value	UL/CSA ratings	
• al 800 V rated value yielded mechanical performance (hp)     • for single-phase AC motor     — al 101/120 V rated value     • for 3-phase AC motor     — al 220/230 V rated value     • al 220/230 V rated value     — al 220/230 V rated value     — at 276/800 V rated value     — at 260/800 V rated value     — at 276/800 V rated value     — at 276/800 V rated value     — at 576/800 V rated value     — at 576/800 V rated value     Osh p     Osh	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [tp]  • for single-phase AC motor  — at 250 V rated value  • or short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — vith type of assignment 2 required — vith type of assignment 2 required — vith side value — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection of the auxiliary switch required — of short-circuit protection — of main current of the switch — of main current circuit — of main current circu	<ul> <li>at 480 V rated value</li> </ul>	65 A
of or single-phase AC motor	<ul> <li>at 600 V rated value</li> </ul>	62 A
	yielded mechanical performance [hp]	
at 230 V rated value • for 3-phase AC motor at 220/230 V rated value at 575/600 V rated value	<ul> <li>for single-phase AC motor</li> </ul>	
• for 3-phase AC motor — at 200/203 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 75/600 V rated value — both protection     Short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — of short-circuit protection of the auxiliary switch required    Fish of short-circuit protection of the auxiliary switch   Fish of short-circuit of the auxiliary switch   Fish of short-circuit of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary and control circuit of main protection of the auxiliary contacts of main protection of the auxiliary contacts of main protection of the auxiliary contacts of main protection of the au	<ul> <li>— at 110/120 V rated value</li> </ul>	5 hp
	— at 230 V rated value	15 hp
- at 220/230 V rated value - at 460/480 V rated value - at 676/600 V rated value - with type of coordination 1 required - with type of coordination 1 required - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch - for for auxiliary contacts - for for auxiliary and cortrol circuit - for for auxiliary and control circuit - for for auxiliary contacts - for for appret coil - for for for auxiliary contacts - for for grounded with core end processing - at the side - for for short-circuit spring-type terminals - for for auxiliary contacts - for for auxiliary contacts - for for auxiliary contacts - for for grounded with core end processing - for for for auxiliary contacts - for	<ul> <li>for 3-phase AC motor</li> </ul>	
at 480/480 V rated value at 575/690 V rated value contact rating of auxillary contacts according to UL Short-circuit protection  design of the fuse link with type of coordination 1 required with type of coordination 1 required with type of assignment 2 required with side of a signment 2 required side by-side mounting without a steen and backward by ++ 22.5° on vertical mounting surface; can be tilled forward and backward by ++ 22.5° on vertical mounting surface and bac		20 hp
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch  • side-by-side mounting of the auxiliary switch  • side-by-side mounting  • with side-by-side mounting  • of mam  • downwards  • for grounded parts  • for grounded parts  • for wards  • for live parts  • for live parts  • for wards  • upwards  • for live parts  • for wards  • for live parts  • for main current circuit  • for auxiliary and control circuit  • for for	<ul> <li>at 220/230 V rated value</li> </ul>	25 hp
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  * #/180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4-/ 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  — forwards — upwards — upwards — of ownwards — of orgrounded parts — forgrounded parts — of ownwards — at the side — downwards — 10 mm — of ownwards — 10 mm  • for live parts — forwards — upwards — at the side — downwards — 10 mm  • for live parts — forwards — upwards — at the side — downwards — 10 mm  • for live parts — for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • of or main current circuit • of or main current circuit • of magnet coil  type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded • finely stranded with core end processing  • x(1 35 mm²), 1x (1 35 mm²)	<ul> <li>— at 460/480 V rated value</li> </ul>	50 hp
Short-circuit protection   design of the fuse link   of or short-circuit protection of the main circuit   - with type of coordination 1 required   - with type of assignment 2 required   (415 V, 80 kA)   (415	<ul> <li>at 575/600 V rated value</li> </ul>	60 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting wirface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward by #- 22.5° on vertical mounting surface; can be titled forward and backward b	Short-circuit protection	
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 - side-by-side mounting - side-by-side mounting - with side-by-side mounting - orwards - downwards - at the side - of orgrounded parts - forwards - at the side - downwards - of live parts - forwards - ownwards - for live parts - forwards - for live parts - forwards - the side - downwards - to mm - the side - downwards - to mm - the side - downwards - forwards - to mm - the side - for grounded parts - forwards - for live parts - forwards - to mm - the side - downwards - to mm - the side - for auxiliary and control circuit - for auxiliary and control circuit - for for auxiliary and control circuit - for for auxiliary and control circuit - of magnet coil - specific perminals - spring-loaded terminals - spring-lyee terminals -	design of the fuse link	
- with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • forwards  - upwards  - at the side  • for grounded parts  - forwards  - at the side  - downwards  - to live parts  - forwards  - to live parts  - forwards  - to many and a control or or or or own and a control own and a	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required   for short-circuit protection of the auxiliary switch respectively.   for short-circuit protection of the auxiliary switch required   for short-circuit protection of the auxiliary switch respectively.   for short-circuit protection of the auxiliary switch required   for short-circuit protection of the auxiliary switch respectively.   for short-circuit spring.   for short-circuit spring-based terminals   for short-circuit protection of the auxiliary switch   for main current circuit   for auxiliary contacts   for main current circuit   for auxiliary and control circuit   fo	<ul> <li>— with type of coordination 1 required</li> </ul>	
• for short-circuit protection of the auxiliary switch required	— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A
Installation/ mounting/ dimensions  mounting position		
mounting position  mounting position  fastening method  side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • forwards  — upwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — 10 mm  • of r live parts — forwards — upwards — to mm  • for live parts — forwards — upwards — upwards — upwards — 10 mm  • for live parts — forwards — upwards — at the side — downwards — at the side — for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • of main current circuit • for auxiliary and control circuit • of main current circuit • of main current circuit • of maxiliary and control circuit • of maxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing  • x(1 25 mm²), 1x (1 50 mm²) • x(1 25 mm²), 1x (1 50 mm²)	· · · · · · · · · · · · · · · · · · ·	gG: 10 A (500 V, 1 kA)
mounting position  fastening method  e side-by-side mounting height width depth required spacing  • with side-by-side mounting — forwards — upwards — downwards — the side — downwards — the side — downwards — the side — downwards — upwards — the side — downwards — the side — downwards — upwards — the side — downwards — to for live parts — forwards — upwards — the side — downwards — the side — forwards — the side — downwards — the side — forwards — forwards — the side — forwards — f		
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting height width formulated spacing • with side-by-side mounting • owners and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  * side-by-side mounting  • with side-by-side mounting  • forwards  — upwards — upwards — downwards — of org grounded parts — for grounded parts — of rowards — upwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm  • for live parts  — forwards — upwards — upwards — upwards — of more side — downwards — 10 mm  • for mive parts  — forwards — upwards — upwards — upwards — ownwards — 10 mm  • for mive parts  — forwards — ownwards — 10 mm  • for mive parts  — formards — of more side — forwards — of man current circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing  for man current circuit sories - 2x(1 35 mm²), 1x (1 50 mm²)  • finely stranded with core end processing		+/-180° rotation possible on vertical mounting surface; can be tilted
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting	mounting position	
height width	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
width depth 130 mm  required spacing  • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — of ownwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — of mm — the side — downwards — to mm • for live parts — forwards — upwards — upwards — to mm • for live parts — forwards — upwards — at the side — downwards — to mm  • for at the side — forwards — upwards — to mm  — upwards — to mm  — downwards — to mm  • for auther side — 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 or stranded • finely stranded with core end processing  2x (1 25 mm²), 1x (1 50 mm²) • finely stranded with core end processing	<ul> <li>side-by-side mounting</li> </ul>	Yes
depth required spacing	height	114 mm
required spacing  with side-by-side mounting  forwards  upwards  upwards  of or grounded parts  forwards  upwards  10 mm  of or grounded parts  forwards  upwards  10 mm  of or live parts  forwards  upwards  of or live parts  of ownwards  of or mm  odownwards  of mm  odownwards  of mm  contactor for auxiliary and control circuit  of magnet coil  type of connectable conductor cross-sections for main contacts  of finely stranded with core end processing  10 mm  of mm  of mm  core main current circuit  of auxiliary and control circuit  of magnet coil  for auxiliary and control circuit  of magnet coil  for eight at mm  of mm  of mm  contacts  of magnet coil  for eight at mm  of mm  contacts  of magnet coil  for eight at mm  of mm  contacts  of magnet coil  for eight at mm  of mm	width	55 mm
<ul> <li>with side-by-side mounting — forwards — upwards — downwards — at the side 0 mm</li></ul>	•	130 mm
forwards	required spacing	
- upwards	<ul><li>with side-by-side mounting</li></ul>	
- downwards	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  • for live parts  - forwards  - upwards  - upwards  - upwards  - to mm  - upwards  - upwards  - downwards  - at the side  - downwards  - at the side  - at the side   Connections/ Terminals  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 or stranded  • finely stranded with core end processing  0 mm  10 m	— upwards	10 mm
for grounded parts         — forwards         — upwards         — at the side         — downwards         — for live parts         — forwards         — orwards         — orwards         — upwards         — ownwards         — upwards         — upwards         — downwards         — at the side         — at the side         — ormands         — at the side         — ownwards         — at the side         — own         — at the side  Connections/ Terminals  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 or stranded         • solid or stranded         • finely stranded with core end processing	— downwards	10 mm
- forwards 10 mm - upwards 6 mm - at the side 6 mm - downwards 10 mm  • for live parts - forwards 10 mm  • for wards 10 mm  - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • 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)	— at the side	0 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm  • for wards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm   Connections/ Terminals  type of electrical connection • 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 or stranded • finely stranded with core end processing  10 mm  5 mm  6 mm  7 mm  9 screw-type terminals  9 screw-type terminals  9 spring-loaded terminals  9 Spring-type terminals	<ul> <li>for grounded parts</li> </ul>	
- at the side - downwards 10 mm  • for live parts - forwards - upwards 10 mm - downwards 10 mm - downwards - at the side 6 mm  Connections/ Terminals   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 or stranded • finely stranded with core end processing  6 mm  10 mm  10 mm  6 mm  Connections/ Terminals  10 mm  5 crew-type terminals  5 screw-type terminals  5 spring-loaded terminals  5 spring-type terminals  5 spring-type terminals  4 connectable conductor cross-sections for main contacts  6 solid or stranded 2 x (1 35 mm²), 1x (1 50 mm²)  6 finely stranded with core end processing		
- downwards  • for live parts  - forwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections for main contacts  • solid or stranded  • finely stranded with core end processing  10 mm  2 srew-type terminals  Spring-loaded terminals  Spring-loaded terminals  Spring-type terminals  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 35 mm²), 1x (1 35 mm²)	•	
<ul> <li>for live parts         <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals         <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>10 mm         <ul> <li>of mm</li> </ul> </li> <li>Screw-type terminals</li> </ul> <li>Spring-type terminals</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>finely stranded with core end processing</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li>		
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 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 or stranded 2x (1 35 mm²), 1x (1 50 mm²) • finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)		10 mm
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection      for main current circuit         screw-type terminals      for auxiliary and control circuit         at contactor for auxiliary contacts         of magnet coil  type of connectable conductor cross-sections for main contacts         solid or stranded         finely stranded with core end processing  10 mm  10 principle terminals  10 mm  10	•	
- downwards - at the side  Connections/ Terminals  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 or stranded • finely stranded with core end processing  10 mm 6 mm  6 mm  Screw-type terminals  screw-type terminals  spring-loaded terminals  Spring-type terminals  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 35 mm²), 1x (1 35 mm²)		
- at the side  Connections/ Terminals  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 or stranded • finely stranded with core end processing  6 mm  6 mm  6 mm  6 mm  6 conmections  6 mm  6 mm  6 mm  6 mm  6 crew-type terminals  8 spring-loaded terminals  8 Spring-type terminals  9 Spring-type terminals  6 xy (1 35 mm²), 1x (1 50 mm²)  2x (1 25 mm²), 1x (1 35 mm²)	•	
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 or stranded • finely stranded with core end processing  screw-type terminals  screw-type terminals  spring-loaded terminals  Spring-type terminals  Spring-type terminals  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 25 mm²), 1x (1 35 mm²)		
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 or stranded • finely stranded with core end processing  screw-type terminals  spring-loaded terminals  Spring-type terminals  Spring-type terminals  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 25 mm²), 1x (1 35 mm²)		o mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>screw-type terminals</li> <li>Spring-type terminals</li> <li>Spring-type terminals</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> </ul>		
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>spring-loaded terminals</li> <li>Spring-type terminals</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> </ul>		
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>Spring-type terminals</li> <li>Spring-type terminals</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> </ul>		
<ul> <li>of magnet coil         type of connectable conductor cross-sections for main contacts         • solid or stranded         • finely stranded with core end processing         Spring-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)     </li> </ul>		
type of connectable conductor cross-sections for main contacts  • solid or stranded  • finely stranded with core end processing  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 35 mm²), 1x (1 35 mm²)		
ontacts		Spring-type terminals
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> </ul>	· · · · · · · · · · · · · · · · · · ·	
• finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)		2x (1 35 mm²), 1x (1 50 mm²)

contacts

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

solid or stranded

• finely stranded with core end processing

• 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

• at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

· for main contacts

· for auxiliary contacts

1 ... 35 mm²

0.5 ... 2.5 mm²

0.5 ... 1.5 mm<sup>2</sup>

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

2x (0.5 ... 2.5 mm<sup>2</sup>)

2x (0.5 ... 1.5 mm²)

2x (0.5 ... 2.5 mm²)

2x (20 ... 14)

18 ... 1

20 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

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

• with low demand rate according to SN 31920

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

31920
T1 value for proof test interval or service life according to

IEC 61508
protection class IP on the front according to IEC

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

safety-related switching OFF

Yes

No

1 000 000

40 %

73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

60529

**General Product Approval** 





Confirmation



**Miscellaneous** 

<u>KC</u>

**General Product Approval** 

**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

EHC



Type Examination Certificate

CE EG-Konf.



Special Test Certificate

**Test Certificates** 

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Railway

**Dangerous Good** 





## Further information

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=3RT2038-3NB30

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2038-3NB30}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3NB30

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

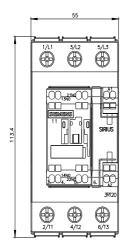
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2038-3NB30&lang=en

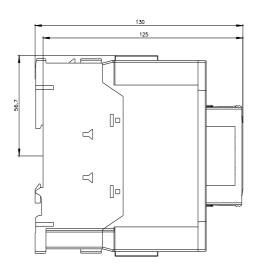
Characteristic: Tripping characteristics, I2t, Let-through current

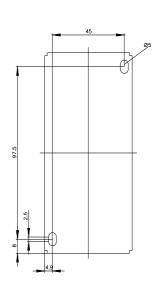
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3NB30/char

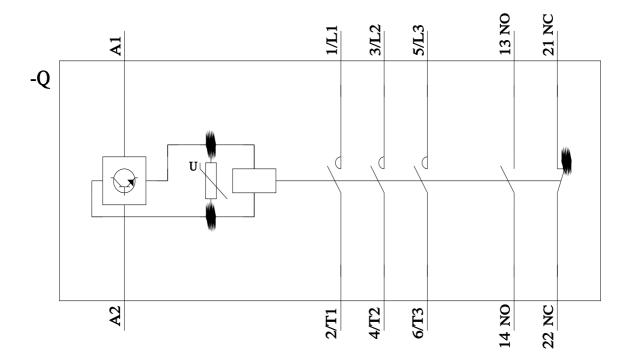
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-3NB30&objecttype=14&gridview=view1









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