# **SIEMENS**

Data sheet 3RT2045-1AQ20



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 500 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3  $\,$ 

product designation Power contactor product type designation 3RT2  General technical data  size of contactor S3  product extension • function module for communication No • auxiliary switch Yes  power loss [W] for rated value of the current • at AC in hot operating state 15.9 W • at AC in hot operating state per pole 5.3 W • without load current share typical 25 W  insulation voltage • of main circuit with degree of pollution 3 rated value 690 V  surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value  maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	
product type designation  General technical data  size of contactor  product extension  • function module for communication  • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state  • at AC in hot operating state per pole  • at AC in hot operating state per pole  • without load current share typical 25 W  insulation voltage  • of main circuit with degree of pollution 3 rated value for auxiliary circuit with degree of pollution 3 rated value for main circuit with degree of pollution 3 rated value for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation between for main circuit rated value for protective separation for main circuit rated value for protective for protective for main circuit rated value for protectiv	
size of contactor  product extension  • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical  insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value	
size of contactor  product extension  • function module for communication • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole • without load current share typical  insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value  • of main circuit rated value • of main circuit rated value • of auxiliary circuit rated value	
• function module for communication     • auxiliary switch  Power loss [W] for rated value of the current      • at AC in hot operating state     • at AC in hot operating state per pole     • without load current share typical      • without load current share typical      • of main circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value      • of main circuit rated value     • of main circuit rated value     • of auxiliary circuit rated value      • of auxiliary circuit rated value     • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value      • of auxiliary circuit rated value	
<ul> <li>function module for communication</li> <li>auxiliary switch</li> <li>Yes</li> </ul> power loss [W] for rated value of the current <ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>without load current share typical</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of working</li> </ul>	
power loss [W] for rated value of the current  • at AC in hot operating state 15.9 W  • at AC in hot operating state per pole 5.3 W  • without load current share typical 25 W  insulation voltage  • of main circuit with degree of pollution 3 rated value 1 000 V  • of auxiliary circuit with degree of pollution 3 rated value 690 V  surge voltage resistance  • of main circuit rated value 8 kV  • of auxiliary circuit rated value 6 kV  maximum permissible voltage for protective separation between 690 V	
power loss [W] for rated value of the current  • at AC in hot operating state 15.9 W  • at AC in hot operating state per pole 5.3 W  • without load current share typical 25 W  insulation voltage  • of main circuit with degree of pollution 3 rated value 1 000 V  • of auxiliary circuit with degree of pollution 3 rated value 690 V  surge voltage resistance  • of main circuit rated value 8 kV  • of auxiliary circuit rated value 66 kV  maximum permissible voltage for protective separation between 690 V	
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>25 W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of main circuit rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of w</li> </ul>	
<ul> <li>without load current share typical</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of kV</li> <li>maximum permissible voltage for protective separation between</li> <li>690 V</li> </ul>	
insulation voltage  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit rated value  • of main circuit rated value  • of auxiliary circuit rated value  maximum permissible voltage for protective separation between  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 rated value  • of with the service of pollution 3 ra	
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value  maximum permissible voltage for protective separation between 690 V	
of auxiliary circuit with degree of pollution 3 rated value      surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of auxiliary circuit rated value      maximum permissible voltage for protective separation between  690 V  8 kV  6 kV	
surge voltage resistance	
<ul> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>maximum permissible voltage for protective separation between</li> <li>690 V</li> </ul>	
• of auxiliary circuit rated value 6 kV maximum permissible voltage for protective separation between 690 V	
maximum permissible voltage for protective separation between 690 V	
the state of the s	
shock resistance at rectangular impulse	
• at AC 10.3g / 5 ms, 6,.g / 10 ms	
shock resistance with sine pulse	
• at AC 16.3g / 5 ms, 10.g / 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> <li>5 000 000</li> </ul>	
• of the contactor with added auxiliary switch block typical 10 000 000	
reference code according to IEC 81346-2 Q	
Substance Prohibitance (Date) 03/01/2017	
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 95 % maximum	
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>	1 000 V
• at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	125 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	125 A
value	
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> </ul>	105 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-3e	30 A
	90 A
— at 400 V rated value	80 A 80 A
— at 500 V rated value	
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	66 A
• at AC-5a up to 690 V rated value	110 A
at AC-5b up to 400 V rated value	80 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	80 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	58 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	54 A
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	54 A
minimum cross-section in main circuit at maximum AC-1 rated	50 mm <sup>2</sup>
value operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	34 A
• at 690 V rated value	24 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
	10 A
— at 220 V rated value	
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
with 3 current paths in series at DC-1	400 A
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

	— at 600 V rated value	2.6 A
= 8.6 V rated value	• at 1 current path at DC-3 at DC-5	
= 11 10 V Intels value	— at 24 V rated value	40 A
	— at 60 V rated value	6 A
### ### ### ### ### ### ### ### ### ##	— at 110 V rated value	2.5 A
With 2 current paths in series at DC-3 at DC-5	— at 220 V rated value	1 A
### with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value — at 10 V rated value — at 20 V rated value — at 20 V rated value — at 40 V rated value — at 40 V rated value — at 40 V rated value — at 60 V rated value — at 70 V rated value — at 10 V rated value — at 10 V rated value — at 10 V rated value — at 20 V rated value — 37 kW  operating power  • at AC-2 at 400 V rated value — at 200 V rated value — at 800 V rated value — at 400 V rated value — at 600 V rated value — at 100 V rated value — at 100 V rated value — at 800 V rated value — at 100 V rated value — a	— at 440 V rated value	0.15 A
	— at 600 V rated value	0.06 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	100 A
- at 220 V rated value - at 600 V rated value 0.42 A 0.16 A  **with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 100 A - at 110 V rated value 100 A - at 110 V rated value 100 A - at 110 V rated value 100 A - at 120 V rated value 20 V rated value 35 A - at 440 V rated value 35 A - at 440 V rated value 37 kW  **at AC-3 - at 230 V rated value 22 kW - at 230 V rated value 37 kW - at 560 V rated value 37 kW - at 660 V rated value 37 kW - at 660 V rated value 37 kW - at 660 V rated value 37 kW - at 400 V rated value 37 kW - at 560 V rated value 37 kW - at 690 V rated value 38 kW - at 1000 V rated value 38 kW - at 900 V rated value 39 kW - at 900 V rated value 30 V rated value 40 V rocurrent peak value n=20 rated value 40 V rocurrent peak value n=30 rated value 40 V rocur	— at 60 V rated value	100 A
	— at 110 V rated value	100 A
and the second section of the secti	— at 220 V rated value	7 A
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.42 A
		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 24 V rated value	100 A
at 220 V rated value	— at 60 V rated value	100 A
	— at 110 V rated value	
operating power  at AC-3  — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 230 V rated value — at 300 V rated value — at 400 V rated value — at 500 V rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — 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	— at 220 V rated value	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 690 V rated value  — at 690 V rated value  — at 1000 V rated value  — at 1000 V rated value  — at 230 V rated value  — at 230 V rated value  — at 1000 V rated value  — at 400 V rated value  — at 690 V rated value  — at 690 V rated value  — at 400 V rated value  — at 690 V rated value  — at 690 V rated value  — at 690 V rated value  — at 1000 V rated value  — at 690 V rated value  9 to 200 V for current peak value n=20 rated value  • up to 230 V for current peak value n=20 rated value  • up to 500 V for current peak value n=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 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 f	— at 440 V rated value	0.8 A
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 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — 25 kW  operating power for approx. 200000 operating cycles at AC-4  4 at 400 V rated value  operating apparent power at AC-8a  up to 230 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 400 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  40 F kVA  51 kVA  52 kW  53 kVA  54 kW  55 kVA  56 kVA  57 kVA  58 kVA  58 kVA  59 kVA  69 kVA  69 kVA  69 kVA  69 kVA  60 kVA  60 kVA  61 kVA  63 kVA  64 f kVA  65 kVA  66 f kVA  67 kVA  68 kVA  68 kVA  69 kVA  6	— at 600 V rated value	0.35 A
at AC-3  at 230 V rated value  at 400 V rated value  at 500 V rated value  at 690 V rated value  at 1000 V rated value  at 1000 V rated value  at AC-3e  at 230 V rated value  at AC-3e  at 230 V rated value  at 400 V rated value  at 500 V rated value  55 kW  at 1000 V rated value  21.8 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 800 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  up to 690 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 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  46.5 kVA  short-time withstand current in cold operating state up to  40 °C  ilimited to 1 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 S switching at zero current maximum  ilimited to 60 S switching at zero current maximum	operating power	
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 590 V rated value - at 1000 V rated value - at 230 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 590 V rated value - at 590 V rated value - at 590 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated	<ul> <li>at AC-2 at 400 V rated value</li> </ul>	37 kW
- at 400 V rated value - at 690 V rated value - at 1000 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 1000 V rated value - at 690 V ra	• at AC-3	
- at 500 V rated value	— at 230 V rated value	22 kW
- at 690 V rated value - at 1000 V rated value  at AC-3e - 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 690 V rated value - at 400 V rated value - at 690 V	— at 400 V rated value	37 kW
- at 1000 V rated value  • at AC-3e  - at 230 V rated value  - at 400 V rated value  - at 500 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 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 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up to 600 V for current peak value n=30 rated value  • up t	— at 500 V rated value	45 kW
at AC-3e  — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — at 690 V rated value  • at 400 V rated value • at 690 V rated value • at 690 V rated value — at 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=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 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 • 1500 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum • limited to 50 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 690 V rated value	55 kW
- at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value - at 400 V rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=20 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current peak value n=30 rated value - at 690 V for current p	— at 1000 V rated value	37 kW
- at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 1000 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 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 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 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=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	• at AC-3e	
- at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value  operating power for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 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 • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 50 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 230 V rated value	
- at 690 V rated value - at 1000 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 • 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 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • 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 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 400 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 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for surrent peak value n=30 rated value • up to 500 V for surrent 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 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 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		
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at 400 V rated value at 690 V rated value 21.8 kW  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 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 in cold operating state up to 40 °C  ilmited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current 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		37 kW
<ul> <li>at 400 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 230 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 500 V for current peak value n=30 rated value</li> <li>46.7 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>46.5 kVA</li> </ul> Short-time withstand current in cold operating state up to 400 °C <ul> <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 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> </ul>		
at 690 V rated value  operating apparent power at AC-6a  up to 230 V for current peak value n=20 rated value  up to 400 V for current peak value n=20 rated value  up to 500 V for current peak value n=20 rated value  up to 690 V for current peak value n=20 rated value  up to 230 V for current peak value n=30 rated value  up to 230 V for current peak value n=30 rated value  up to 400 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 500 V for current peak value n=30 rated value  up to 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  ilmited to 1 s switching at zero current maximum  ilmited to 10 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 30 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum  ilmited to 60 s switching at zero current maximum		17 9 kW
operating apparent power at AC-6a     oup to 230 V for current peak value n=20 rated value     oup to 400 V for current peak value n=20 rated value     oup to 500 V for current peak value n=20 rated value     oup to 690 V for current peak value n=20 rated value     oup to 690 V for current peak value n=20 rated value     oup to 230 V for current peak value n=30 rated value     oup to 400 V for current peak value n=30 rated value     oup to 500 V for current peak value n=30 rated value     oup 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 690 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 690 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 690 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 690 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 690 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 690 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 690 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 690 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 6		
<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>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>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> </ul>		21.0 (1)
• up to 400 V for current peak value n=20 rated value  • up to 500 V for current peak value n=20 rated value  • up to 690 V for current peak value n=20 rated value  • up to 230 V for current peak value n=30 rated value  • up to 400 V for current peak value n=30 rated value  • up to 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 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 30 s switching at zero current maximum  • limited to 60 s switching at zero 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 frequency		31 kVA
up to 500 V for current peak value n=20 rated value     up to 690 V for current peak value n=20 rated value     operating apparent power at AC-6a     up to 230 V for current peak value n=30 rated value     up to 400 V for current peak value n=30 rated value     up to 500 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     up to 690 V for current peak value n=30 rated value     inited to 1 s switching at zero current maximum     ilmited to 5 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 10 s switching at zero current maximum     ilmited to 30 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum     ilmited to 60 s switching at zero current maximum	·	
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<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>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> </ul>		
• up to 690 V for current peak value n=30 rated value  short-time withstand current in cold operating state up to 40 °C  • limited to 1 s switching at zero current maximum  • limited to 5 s switching at zero current maximum  • limited to 10 s switching at zero current maximum  • limited to 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		
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  • limited to 60 s switching at zero current maximum  • limited to 60 s switching at zero current maximum  1 500 A; Use minimum cross-section acc. to AC-1 rated value  538 A; Use minimum cross-section acc. to AC-1 rated value  423 A; Use minimum cross-section acc. to AC-1 rated value		
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 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  ■ 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 switchin		
<ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 30 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>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> </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>limited to 60 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> <li>423 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>no-load switching frequency</li> </ul>	<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 500 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>538 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>423 A; Use minimum cross-section acc. to AC-1 rated value</li> </ul>	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 186 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum  10	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	851 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	538 A; Use minimum cross-section acc. to AC-1 rated value
	limited to 60 s switching at zero current maximum	423 A; Use minimum cross-section acc. to AC-1 rated value
a at AC	no-load switching frequency	
♥ at AO	• at AC	5 000 1/h
operating frequency	operating frequency	
• at AC-1 maximum 900 1/h	• at AC-1 maximum	900 1/h

1400	400.4/
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	40
type of voltage of the control supply voltage	AC
control supply voltage at AC	500.4
at 50 Hz rated value	500 V
at 60 Hz rated value     operating range factor control supply voltage rated value of	500 V
magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	348 VA
● at 60 Hz	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	OF WA
• at 50 Hz	25 VA
• at 60 Hz	18 VA
inductive power factor with the holding power of the coil  • at 50 Hz	0.25
	0.35
• at 60 Hz	0.41
closing delay  • at AC	13 50 ms
opening delay	13 30 IIIS
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value	1 10 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value	1 10 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value	1 10 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 10 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12	1 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value	1 10 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 6 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 100 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 10 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 600 V rated value • at 100 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value	1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 10 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A

* at 800 Y rated value		
yelded mechanical performance [hg]  • for anging-phase AC motor  — at 1701/25V stack value — at 2200/25V stack value — at 2200/25V stack value — at 200/25V stack value — at 200/25V stack value — at 400/45V value value — at 5700/50V value value — at 5700/50V value value — at 5700/50V value value — on 5700V value value — on 5700V value value — with type of auxiliary contacts according to UL  Short circuit protection of the main crouit — with type of a signment 2 required — with type of coordination 1 required — with type of a signment 2 required — side by-side mounting (dimensions  fastering method — side by-side mounting — with side-y-side mounting — with side-y-side mounting — with side-y-side mounting — with side-y-side mounting — one owners — ownwards — ownward	at 480 V rated value	77 A
* of single-phase AC motor — at 1200 V rated value		62 A
	<ul> <li>for single-phase AC motor</li> </ul>	
• for 3-phase AC motor — at 200208 V rated value — at 200208 V rated value — at 200208 V rated value — at 257600 V rated value — at 257600 V rated value — at 257600 V rated value — on the foreign contects according to UL  ASOU / P800  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required  fasterning method • created protection of the auxiliary switch required  fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required  fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required  fasterning method • clade-by-side mounting • for writing and the state of the switch auxiliary switch required  fasterning method • clade-by-side mounting • for many state of the switch auxiliary switch required  fasterning method • clade-by-side mounting • for many state of the switch auxiliary switch required  fasterning method • for prounded parts	— at 110/120 V rated value	7.5 hp
at 220/2280 V rated value	— at 230 V rated value	15 hp
at 220/230 V risted value	<ul> <li>for 3-phase AC motor</li> </ul>	
at 480/480 V rated value	<ul> <li>at 200/208 V rated value</li> </ul>	25 hp
at 575/000 V raled value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  with type of coordination 1 required  with type of coordination 2 required  or short oricuit 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  forwards  upwards  downwards  at the side  downwards  at the side  downwards  downwards  downwards  forwards  upwards  forwards  upwards  forwards  downwards  downwards  downwards  forwards  downwards  downwards  forwards  forwards  downwards  forwards  forwards  forwards  downwards  forwards  forwards  downwards  forwards	<ul> <li>at 220/230 V rated value</li> </ul>	30 hp
Short-circuit protection   Short-circuit protection   Short-circuit protection   Short-circuit protection of the main circuit	— at 460/480 V rated value	60 hp
Short-circuit protection  design of the fuse link  - with type of condination 1 required  - with type of assignment 2 required  - with type of assignment 2 required  - of enfort-circuit protection of the auxiliary switch required  Installation mounting/dimensions  mounting position  fastening method  - side-by-side mounting  Yes  sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  - side-by-side mounting  Yes  sorew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  - side-by-side mounting  Yes  - with side-by-side mounting  - forwards  - upwards  - downwards  - or main current circuit  - of orwards  - ownwards  - or main current circuit  - downwards  - or main current circuit  - or main current circuit  - or man current circuit  - or magnet coil  type of connectable conductor cross-section for main contacts  - finely stranded with core and processing  - finely stranded with core and processing	— at 575/600 V rated value	60 hp
design of the fuse link  • for short-circuit protection of the main circuit  — with type of assignment 2 required  — of reshort-circuit protection of the auxiliary switch required  Installation/ munoriting/ dimensions  mounting position  — #./180* rotation possible on vertical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for overtical mounting surface; can be tilted forward and backward by #-2.5 for mounting surface; can be tilted forward and backward by #-2.5 for mo	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 coordination 1 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  • 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  • 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  • for short-circuit protection of the auxiliary switch required  • for stephen switch	Short-circuit protection	
- with type of assignment 2 required	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  mounting position  ##-180* rotation possible on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on vertical mounting surface; can be tilted forward and backward by 4: 22.5* on million to surface and surf	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
- with type of assignment 2 required	<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80
Installation mounting dimensions    Marchaelian   Marchael		kA)
instaliation/ mounting dimensions  mounting position  ##.180" rotation possible 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 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 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 ##. 20 mm  ##.100 mm  ##.100 mm  ##.100 mm  #.100 mm  ##.100 mm	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
Mounting position		gG: 10 A (500 V, 1 kA)
backward by +- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 vidth	Installation/ mounting/ dimensions	
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  width  yes  140 mm  width  70 mm  depth  152 mm  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — upwards — upwards — 10 mm — at the side • for grounded parts — upwards — 10 mm  • at the side • for ilve parts — downwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for live parts — upwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for live parts — of manufactor for incident of the side — downwards — of manufactor for auxiliary contacts • of magnet coil  ype of connectable conductor cross-sections for main contacts • finely stranded with core end processing  connectable conductor cross-section for mailiary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • finely stranded • finely stranded • finely stranded • finely stranded •	mounting position	
e side-by-side mounting  height  width  70 mm  depth  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • of grounded parts — for grounded parts — the side — downwards — 10 mm — at the side — downwards — 10 mm — of rive parts — forwards — upwards — forwards — upwards — 10 mm — of main current circuit — downwards — 10 mm — at the side — 10 mm — of main current circuit — at the side — the side — the side — of main current circuit — of a vaxiliary and contol circuit — of a vaxiliary and contol circuit — at contactor for auxiliary contacts — finely stranded with core end processing  connectable conductor cross-section for main contacts — solid — stranded — finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts — solid or stranded — finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts — solid or stranded — finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts — solid or stranded — finely stranded with core end processing — for auxiliary contacts — for auxiliary cont		, ·
Neight   140 mm   70 mm   6	_	
width     70 mm       depth     152 mm       required spacing     • with side-by-side mounting       - forwards     20 mm       - upwards     10 mm       - downwards     10 mm       - at the side     0 mm       - upwards     10 mm       - upwards     10 mm       - at the side     10 mm       - downwards     10 mm       • for live parts     20 mm       - upwards     10 mm       - downwards     10 mm       - at the side     10 mm       Connections/ Terminals       type of electrical connection     screw-type terminals       • for auxiliary accontrol circuit     screw-type terminals       • for auxiliary contacts     screw-type terminals       • of magnet coil     Screw-type terminals       type of connectable conductor cross-section for main contacts     soild       • finely stranded with core end processing     2.5 36 mm²), 1x (2.5 50 mm²)       connectable conductor cross-section for auxiliary contacts     soild or stranded       • finely stranded with core end processing     0.5 2.5 mm²       connectable conductor cross-sections<		
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — 10 mm  • for grounded parts — upwards — upwards — 10 mm — at the side — upwards — 10 mm — at the side — upwards — 10 mm — downwards — 10 mm — odwnwards — of live parts — forwards — upwards — upwards — 10 mm — at the side — upwards — 10 mm — to main unit of live parts — forwards — upwards — upwards — 10 mm — at the side — to main unit of live parts — for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil  type of connectable conductor cross-section for main contacts • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-sections • for auxiliary contacts	height	140 mm
required spacing      with side-by-side mounting     — forwards     — upwards     — downwards     — downwards     — at the side     • for grounded parts     — forwards     — upwards     — upwards     — upwards     — upwards     — upwards     — upwards     — downwards     — downwards     — at the side     — downwards     — at the side     — downwards     — for live parts     — forwards     — upwards     — to mm     — at the side     — downwards     — upwards     — solde     — solde thire limits     — to mm     — at the side      — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     — to mm     — at the side     —	width	70 mm
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>10 mm</li> <li>downwards</li> <li>at the side</li> <li>0 mm</li> <li>for grounded parts</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>10 mm</li> <li>at the side</li> <li>10 mm</li> <li>downwards</li> <li>10 mm</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>downwards</li> <li>10 mm</li> <li>downwards</li> <li>10 mm</li> <li>downwards</li> <li>10 mm</li> <li>for a upwards</li> <li>at the side</li> <li>10 mm</li> <li>for main current circuit</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>if nelly stranded with core end processing</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</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</li> <li>finely stranded with core end processing</li> <li>finely stranded</li> <li>finely stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> </ul>	depth	152 mm
forwards 20 mm upwards 10 mm downwards 0 mm at the side 0 mm forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm forwards 20 mm upwards 10 mm forwards 10 mm forwards 10 mm downwards 10 mm at the side 50 mm upwards 10 mm at the side 50 mm	required spacing	
- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - upwards - at the side - downwards - at the side - downwards • for live parts - forwards - upwards - forwards - upwards - forwards - upwards - downwards - upwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - downwards - at the side - to 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 • shiely stranded with core end processing - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - solid or stranded - finely stranded with 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	<ul><li>with side-by-side mounting</li></ul>	
- downwards - at the side  • for grounded parts  - forwards - upwards - upwards - at the side - downwards - downwards - for live parts - forwards - upwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - forwards - upwards - upwards - upwards - downwards - upwards - downwards - downwards - downwards - at the side - to mm	— forwards	20 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  - upwards  - upwards  - forwards  - upwards  - downwards  10 mm  - downwards  10 mm  - downwards  - upwards  - downwards  - at the side  10 mm  - downwards  - at the side  10 mm  - downwards  - or at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • of magnet coil  type of connectable conductor cross-sections for main contacts  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-sections  • for auxiliary contacts	— upwards	10 mm
• for grounded parts  — forwards — upwards — at the side — downwards  • for live parts — forwards — upwards — upwards — to many and selections  * for auxiliary and control circuit — for auxiliary and control circuit — to many and control circuit — to for auxiliary and control circuit — to for auxiliary and control circuit — to for auxiliary contacts — of magnet coil  type of connectable conductor cross-sections for main contacts — solid — stranded — finely stranded with core end processing — to many and selections —	— downwards	10 mm
forwards 20 mm upwards 10 mm at the side 10 mm downwards 10 mm  • for live parts forwards 20 mm upwards 10 mm downwards 50 mm at the side 50 mm	— at the side	0 mm
- upwards 10 mm - at the side 10 mm - downwards 10 mm  • for live parts - forwards 20 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 10 mm - at the side 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²)  connectable conductor cross-section for main contacts • finely stranded with core end processing 2.5 50 mm²  connectable conductor cross-section for auxiliary contacts • solid 5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections • for auxiliary contacts	<ul> <li>for grounded parts</li> </ul>	
- at the side	— forwards	20 mm
- downwards • for live parts - forwards - upwards - upwards - 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-section for main contacts • finely stranded with core end processing • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts	— upwards	10 mm
• for live parts  — forwards — upwards — downwards — at the side  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit • at contactor for auxiliary contacts • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing  for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	— at the side	10 mm
- forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals  • of magnet coil Screw-type terminals  type of connectable conductor cross-sections for main contacts • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²)  connectable conductor cross-section for main contacts • solid 2.5 16 mm² • stranded 6 70 mm² • finely stranded with core end processing 2.5 50 mm²  connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections • finely stranded with core end processing 0.5 2.5 mm²	— downwards	10 mm
- upwards - downwards - at the side  10 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-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid of inely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid of stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	• for live parts	
- downwards 10 mm  - at the side 10 mm  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals  type of connectable conductor cross-sections for main contacts • finely stranded with core end processing 2x (2.5 35 mm²), 1x (2.5 50 mm²)  connectable conductor cross-section for main contacts • solid 2.5 16 mm² • stranded 6 70 mm² • finely stranded with core end processing 2.5 50 mm²  connectable conductor cross-section for auxiliary contacts • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm²  type of connectable conductor cross-sections • for auxiliary contacts	— forwards	20 mm
- 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-section for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts	— upwards	10 mm
	·	10 mm
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  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts		
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  • solid  • stranded  • stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts		
• 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     • finely stranded with core end processing     • solid     • stranded     • finely stranded with core end processing     • finely stranded     • finely stranded     • finely stranded     • finely stranded     • for auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts		
• for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil  type of connectable conductor cross-sections for main contacts     • finely stranded with core end processing  connectable conductor cross-section for main contacts     • solid     • stranded     • finely stranded with core end processing     • finely stranded     • finely stranded     • finely stranded     • finely stranded with core end processing     • for auxiliary contacts	•	screw-type terminals
<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>finely stranded with core end processing</li> <li>solid</li> <li>stranded</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>2.5 16 mm²</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</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 with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> </ul>		
<ul> <li>of magnet coil</li> <li>Screw-type terminals</li> <li>type of connectable conductor cross-sections for main contacts <ul> <li>finely stranded with core end processing</li> <li>2x (2.5 35 mm²), 1x (2.5 50 mm²)</li> </ul> </li> <li>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>connectable conductor cross-section 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 with core end processing</li> <li>for auxiliary contacts</li> </ul> </li> <li>for auxiliary contacts</li> </ul>	•	•
type of connectable conductor cross-sections for main contacts  • finely stranded with core end processing  connectable conductor cross-section for main contacts  • solid  • stranded  • stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts	•	
<ul> <li>finely stranded with core end processing</li> <li>2x (2.5 35 mm²), 1x (2.5 50 mm²)</li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</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 with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> </ul>		on type terrimais
connectable conductor cross-section for main contacts  • solid  • stranded  • finely stranded with core end processing  connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  0.5 2.5 mm²  type of connectable conductor cross-sections  • for auxiliary contacts	•	2v /2 5 35 mm²\ 1v /2 5 50 mm²\
solid     stranded     stranded     finely stranded with core end processing      connectable conductor cross-section for auxiliary contacts     solid or stranded     finely stranded with core end processing      finely stranded with core end processing      type of connectable conductor cross-sections     for auxiliary contacts		ZA (Z.J JJ HIIII ), TA (Z.J JU HIIII <sup>-</sup> )
<ul> <li>stranded</li> <li>finely stranded with core end processing</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 with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> </ul>		2.5 16 mm²
<ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> </ul>		
connectable conductor cross-section for auxiliary contacts  • solid or stranded  • finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts		
<ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> </ul> 0.5 2.5 mm² 0.5 2.5 mm²		2.5 50 mm²
<ul> <li>• finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>• for auxiliary contacts</li> </ul>	-	
type of connectable conductor cross-sections  • for auxiliary contacts	<ul><li>solid or stranded</li></ul>	
• for auxiliary contacts		0.5 2.5 mm <sup>2</sup>
	type of connectable conductor cross-sections	
— solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	• for auxiliary contacts	
	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
• for main contacts	10 2
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
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 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	

### **General Product Approval**



Confirmation





<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Cer**tificate** 





Special Test Certificate

Type Test Certificates/Test Report

### Marine / Shipping









**firmations** 





other	Railway	Dangerous Good	Environment
Confirmation	Vibration and Shock	Transport Information	Environmental Con-

#### Further information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

om/mall/en/en/Catalog/product?mlfb=3RT2045-1AQ20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-1AQ20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1A

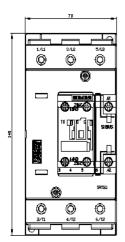
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> de.aspx?mlfb=3RT2045-1AQ20&lang=en

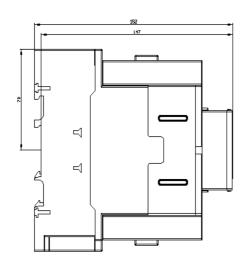
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-1AQ20/char

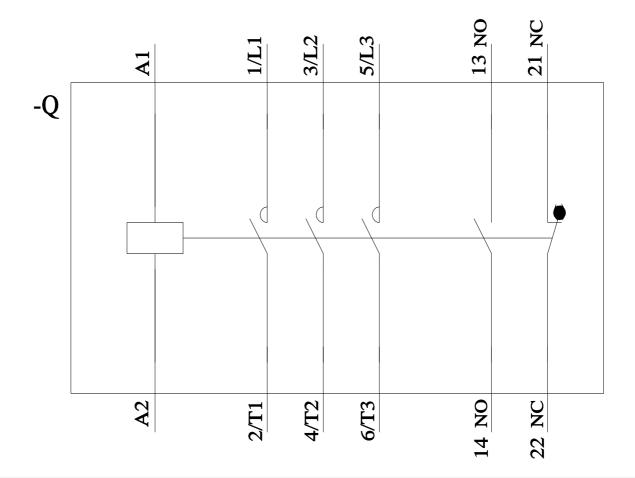
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-1AQ20&objecttype=14&gridview=view1









last modified: 8/15/2023 🖸

## **Mouser Electronics**

**Authorized Distributor** 

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3RT20451AQ20