## Data sheet

3RT2016-2MB42-0KT0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC,  $0.85-1.85^*$  Us, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
<ul> <li>without load current share typical</li> </ul>	1.6 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V

<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	5.3 A
— up to 400 V for current peak value n=20 rated value	5.3 A
— up to 500 V for current peak value n=20 rated value	5.3 A
— up to 690 V for current peak value n=20 rated value	5 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3.5 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	3.5 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm²
value operational current for approx. 200000 operating cycles at	
AC-4	
<ul> <li>at 400 V rated value</li> </ul>	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	
	0.6 A
— at 600 V rated value	0.6 A 0.6 A
<ul><li>— at 600 V rated value</li><li>with 2 current paths in series at DC-1</li></ul>	0.6 A
<ul> <li>— at 600 V rated value</li> <li>• with 2 current paths in series at DC-1</li> <li>— at 24 V rated value</li> </ul>	0.6 A 20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	0.6 A 20 A 20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	0.6 A 20 A 20 A 12 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	0.6 A 20 A 20 A 12 A 1.6 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul>	0.6 A 20 A 20 A 12 A 1.6 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A  20 A  20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A  20 A  1.3 A  1.4
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 120 V rated value</li> <li>at 140 V rated value</li> <li>at 240 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A
<ul> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 1 current path at DC-3 at DC-5</li> </ul>	0.6 A  20 A  20 A  12 A  1.6 A  0.8 A  0.7 A  20 A  20 A  20 A  20 A  20 A  1.3 A  1.4

• with 2 current paths in series at DC-3 at DC-5  — at 24 V rated value 5 A — at 110 V rated value 0.35 A  • with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value 20 A — at 60 V rated value 20 A — at 110 V rated value 20 A — at 110 V rated value 20 A — at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A  operating power  • at AC-3  — at 230 V rated value 4 kW — at 500 V rated value 5.5 kW  • at AC-3e — at 230 V rated value 5.5 kW  • at AC-3e — at 230 V rated value 2.2 kW — at 400 V rated value 4 kW — at 500 V rated value 2.2 kW — at 400 V rated value 4 kW — at 500 V rated value 4 kW	
- at 60 V rated value	
<ul> <li>— at 110 V rated value</li> <li>● with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 60 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>0.2 A</li> <li>— at 600 V rated value</li> <li>0.2 A</li> <li>Operating power</li> <li>• at AC-3</li> <li>— at 230 V rated value</li> <li>— at 500 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>— at 600 V rated value</li> <li>— at 230 V rated value</li> <li>— at 2400 V rated value</li> <li>— at 400 V rated value</li> </ul>	
• with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value 20 A — at 60 V rated value 20 A — at 110 V rated value 20 A — at 220 V rated value 1.5 A — at 440 V rated value 0.2 A — at 600 V rated value 0.2 A  operating power  • at AC-3  — at 230 V rated value 2.2 kW — at 400 V rated value 4 kW — at 500 V rated value 5.5 kW  • at AC-3e — at 230 V rated value 2.2 kW — at 400 V rated value 4 kW — at 500 V rated value 5.5 kW  • at AC-3e — at 230 V rated value 2.2 kW — at 400 V rated value 4 kW — at 400 V rated value 5.5 kW	
at 24 V rated value 20 A at 60 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 1.5 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A  operating power  ■ at AC-3 at 230 V rated value 2.2 kW at 400 V rated value 4 kW at 500 V rated value 4 kW at 690 V rated value 5.5 kW  ■ at AC-3e at 230 V rated value 2.2 kW at 400 V rated value 4 kW at 690 V rated value 5.5 kW  ■ at AC-3e at 230 V rated value 2.2 kW at 400 V rated value 4 kW at 400 V rated value 4 kW at 400 V rated value 4 kW	
at 60 V rated value 20 A at 110 V rated value 1.5 A at 220 V rated value 0.2 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A  operating power  ■ at AC-3 at 230 V rated value 2.2 kW at 400 V rated value 4 kW at 500 V rated value 4 kW at 690 V rated value 5.5 kW  ■ at AC-3e at 230 V rated value 2.2 kW at 400 V rated value 4 kW at 690 V rated value 5.5 kW	
- at 110 V rated value - at 220 V rated value 1.5 A - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A  operating power  ■ at AC-3  - at 230 V rated value 2.2 kW - at 400 V rated value 4 kW - at 500 V rated value - at 690 V rated value - at 690 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 220 V rated value - at 440 V rated value 0.2 A - at 600 V rated value 0.2 A  operating power	
— at 440 V rated value       0.2 A         — at 600 V rated value       0.2 A         operating power       • at AC-3         — at 230 V rated value       2.2 kW         — at 400 V rated value       4 kW         — at 500 V rated value       4 kW         — at 690 V rated value       5.5 kW         • at AC-3e       — at 230 V rated value         — at 400 V rated value       4 kW	
— at 600 V rated value       0.2 A         operating power       • at AC-3         — at 230 V rated value       2.2 kW         — at 400 V rated value       4 kW         — at 500 V rated value       4 kW         — at 690 V rated value       5.5 kW         • at AC-3e       — at 230 V rated value         — at 400 V rated value       4 kW	
operating power	
<ul> <li>at AC-3         <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>at AC-3e         <ul> <li>at 230 V rated value</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul> </li> <li>4 kW</li> </ul>	
<ul> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>• at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>4 kW</li> <li>5.5 kW</li> <li>• at AC-3e</li> <li>— at 230 V rated value</li> <li>2.2 kW</li> <li>— at 400 V rated value</li> </ul>	
<ul> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>5.5 kW</li> <li>• at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>4 kW</li> <li>5.5 kW</li> <li>• at 400 V rated value</li> <li>4 kW</li> </ul>	
<ul> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> <li>5.5 kW</li> <li>■ at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>4 kW</li> <li>4 kW</li> </ul>	
<ul> <li>— at 690 V rated value</li> <li>■ at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>4 kW</li> </ul>	
<ul> <li>at AC-3e</li> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>4 kW</li> </ul>	
<ul><li>— at 230 V rated value</li><li>— at 400 V rated value</li><li>2.2 kW</li><li>4 kW</li></ul>	
— at 400 V rated value 4 kW	
— at 500 V rated value 4 kW	
— at 690 V rated value 5 kW	
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value 2 kW	
• at 690 V rated value 2.5 kW	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value 2 kVA	
• up to 400 V for current peak value n=20 rated value 3.6 kVA	
• up to 500 V for current peak value n=20 rated value 4.6 kVA	
• up to 690 V for current peak value n=20 rated value 5.9 kVA	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 1.3 kVA	
• up to 400 V for current peak value n=30 rated value 2.4 kVA	
• up to 500 V for current peak value n=30 rated value 3.1 kVA	
• up to 690 V for current peak value n=30 rated value 4 kVA	
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum  155 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 5 s switching at zero current maximum  111 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum  86 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at DC 10 000 1/h	
operating frequency	
• at AC-1 maximum 1 000 1/h	
• at AC-2 maximum 750 1/h	
• at AC-3 maximum 750 1/h	
• at AC-3e maximum 750 1/h	
• at AC-4 maximum 250 1/h	
Control circuit/ Control	
type of voltage of the control supply voltage DC	
control supply voltage at DC	
• rated value 24 V	
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value 0.85	
• full-scale value 1.85	
closing power of magnet coil at DC 1.6 W	
holding power of magnet coil at DC 1.6 W	
closing delay	

-4 DO	05 400
• at DC	25 120 ms
opening delay	5 00
• at DC	5 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	1
number of NC contacts for auxiliary contacts instantaneous contact	· ·
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
<ul> <li>at 110/120 V rated value</li> </ul>	0.33 hp
— at 230 V rated value	1 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	

— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	, 0 )/
• solid	2x (0.5 4 mm²)
solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
finely stranded with core end processing	2x (0.5 2.5 mm²)
finely stranded without core end processing	2x (0.5 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
safety-related switching OFF	Yes
Certificates/ approvals	
General Product Approval	



Confirmation





<u>KC</u>



Functional
Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 

**Environment** 



Confirmation



Vibration and Shock

**Transport Information** 

Environmental Confirmations

## **Further information**

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2016-2MB42-0KT0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2MB42-0KT0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2MB42-0KT0

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

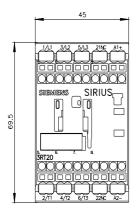
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2016-2MB42-0KT0\&lang=en}}$ 

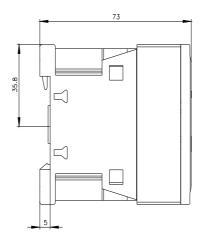
Characteristic: Tripping characteristics, I2t, Let-through current

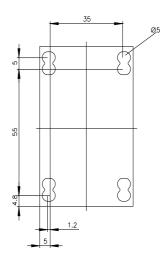
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2MB42-0KT0/char

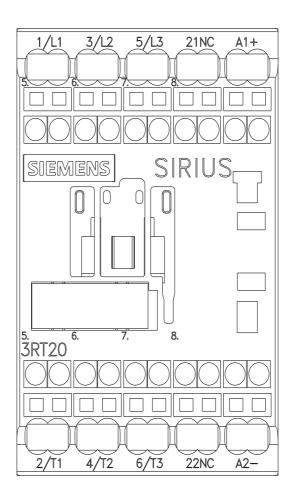
Further characteristics (e.g. electrical endurance, switching frequency)

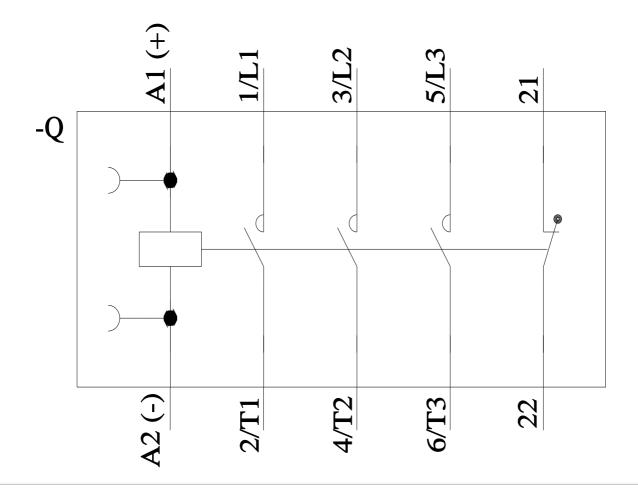
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2MB42-0KT0&objecttype=14&gridview=view1











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