# **SIEMENS**

Data sheet 3RT2025-1AM20



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 208 V AC, 50 / 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>auxiliary switch</li> </ul>	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.8 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W
<ul> <li>without load current share typical</li> </ul>	7.9 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul> <li>during storage</li> </ul>	-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	0
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	•••
at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
<ul> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> </ul>	35 A
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
at AC-4 at 400 V rated value	15.5 A
at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	14.1 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	11.3 A
up to 230 V for current peak value n=30 rated value	7.6 A
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1	7.6 A 10 mm²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
at 400 V rated value	7.7 A
at 690 V rated value	7.7 A
operational current	
• at 1 current path at DC-1	05.4
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	25.4
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	35 A
— at 24 v rated value  — at 110 V rated value	35 A
— at 110 V rated value  — at 220 V rated value	35 A
— at 440 V rated value	2.9 A
at TTO V Tatou Value	L.V / .

at 600 V rated value	1.4.0
— at 600 V rated value	1.4 A
at 1 current path at DC-3 at DC-5     at 24 V rated value.	20. A
— at 24 V rated value	20 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	35 A
— at 24 V rated value  — at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 440 V rated value  — at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	0.10 A
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
at AC-2 at 400 V rated value	7.5 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	4.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles	
at AC-4	2 5 1/1/1
at 400 V rated value     at 600 V rated value	3.5 kW
• at 690 V rated value	6 kW
<ul><li>operating apparent power at AC-6a</li><li>up to 230 V for current peak value n=20 rated value</li></ul>	4.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.9 kVA
• up to 690 V for current peak value n=20 rated value	13.6 kVA
operating apparent power at AC-6a	10.0 KV/K
up to 230 V for current peak value n=30 rated value	3 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
• up to 500 V for current peak value n=30 rated value	6.6 kVA
up to 690 V for current peak value n=30 rated value	9.1 kVA
short-time withstand current in cold operating state	
up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	225 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum	225 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	189 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	140 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	115 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	F 000 4/b
• at AC	5 000 1/h
operating frequency	1,000,1/b
<ul><li>at AC-1 maximum</li><li>at AC-2 maximum</li></ul>	1 000 1/h 1 000 1/h
<ul><li>at AC-3 maximum</li><li>at AC-3e maximum</li></ul>	1 000 1/h 1 000 1/h
at AC-3e maximum     at AC-4 maximum	300 1/h
	000 1/11
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	200 1/
at 50 Hz rated value     at 60 Hz rated value	208 V
at 60 Hz rated value	208 V

operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	68 VA
• at 60 Hz	67 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.72
● at 60 Hz	0.74
apparent holding power of magnet coil at AC	
● at 50 Hz	7.9 VA
● at 60 Hz	6.5 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
● at 60 Hz	0.28
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	0.00.00.00.00.00.00.00.00.00.00.00.00.0
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts	1
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
	2 A
AT BUILTY PATENT VALUE	
at 500 V rated value	
• at 690 V rated value	1 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> </ul>	1 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> </ul>	1 A 10 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	1 A 10 A 6 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> </ul>	1 A  10 A 6 A 6 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 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> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 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> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 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> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> </ul>	1 A  10 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
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 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>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>operational current at DC-13</li> <li>at 24 V rated value</li> <li>at 48 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 110 V rated value</li> <li>at 125 V rated value</li> </ul>	1 A  10 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
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 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> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> </ul>	1 A  10 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
<ul> <li>at 690 V rated value</li> <li>operational current at DC-12</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 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> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 125 V rated value</li> <li>at 200 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> </ul>	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
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 600 V rated value  operational current at DC-13  at 24 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  at 120 V rated value  at 120 V rated value  at 120 V rated value  at 125 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts	1 A  10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
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 600 V rated value operational current at DC-13 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 125 V rated value at 220 V rated value at 600 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 600 V rated value operational current at DC-13 at 24 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 at 125 V rated value at 160 V rated value at 160 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 600 V rated value operational current at DC-13 at 24 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 at 125 V rated value at 125 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 129 V rated value at 220 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 600 V rated value operational current at DC-13 at 24 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 at 220 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 operational current at DC-13 at 24 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 at 125 V rated value at 600 V rated value fortated value at 480 V rated value at 600 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 600 V rated value operational current at DC-13 at 24 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 at 125 V rated value at 125 V rated value at 600 V rated value for at 600 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value for single-phase AC motor at 110/120 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 600 V rated value operational current at DC-13 at 24 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 at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value at 230 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
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 operational current at DC-13 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 125 V rated value at 125 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp]  for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value  for 3-phase AC motor	1 A  10 A 6 A 6 A 8 A 3 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 1 faulty switching per 100 million (17 V, 1 mA)  1 4 A 17 A  1 hp 3 hp
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 operational current at DC-13 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 125 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value for 3-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)  1 hp 3 hp 3 hp
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 600 V rated value  operational current at DC-13  at 24 V rated value  at 8 V rated value  at 60 V rated value  at 110 V rated value  at 125 V rated value  at 220 V rated value  at 220 V rated value  at 600 V rated value  tontact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  for 3-phase AC motor  at 110/120 V rated value  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor  at 200/208 V rated value  at 220/230 V rated value  at 220/230 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)  14 A 17 A  1 hp 3 hp 5 hp
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 operational current at DC-13 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 125 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value for 3-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value	1 A  10 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 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)  1 hp 3 hp 3 hp

decisjon of the five link  • for short-circult protection of the main circuit  — with type of assignment 2 required  • for short-circult protection of the auxiliary switch required  — with type of assignment 2 required  • for short-circult protection of the auxiliary switch required  — with type of assignment 2 required  • for short-circult protection of the auxiliary switch required specified of the auxiliary switch required specified specif	contact rating of auxiliary contacts according to UL	A600 / P600
• for short-direction of the main circuit  with type of assignment 2 required  with type of assignment 2 required  with type of assignment 2 required  for short-direction protection of the auxiliary switch required  with type of assignment 2 required  for short-direction protection of the auxiliary switch required and according to the formation of the auxiliary switch required and according to the formation of the auxiliary switch required assignment of the auxiliary switch assignmen	Short-circuit protection	
with type of assignment 12 required	design of the fuse link	
with type of assignment 2 required for short-directival protection of the auxiliary switch required staliation mounting/ dimensions  mounting position fastening method sole-by-side mounting full side-by-side mounting with depth side-by-side mounting with side-by-side mo		
• for short-circuit protection of the auxiliary switch required mounting dimensions  ***stallation** mounting dimensions**  **mounting position**  **side-by-side mounting**  **side-by-side mounting surface screw-by-side screw-by-side mounting surface screw-by-side screw-by-side screw-by-side screw-by-side screw-by-side screw-by-side screw-by-side screw-by-side screw-by-side		
required sizellation mounting idmensions  mounting position	<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
mounting position fastening method side-by-side mounting height side-by-side mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; can be titled forward and backward by +/-22.5' or vertical mounting surface; sore with sore and processing height size many surface, sand manuface; and backward by +/-22.5' or vertical mounting surface; sand with sore end processing height size manufaces  sore where the side sorew-type terminals so		gG: 10 A (500 V, 1 kA)
	·	
forward and backward by ***.2.5° on vertical mounting surface side-by-side mounting helght width depth 97 mm required spacing - with side-by-side mounting - forwards - quowards - quowards - at the side - for grounded parts - forwards - quowards - at the side - for grounded parts - forwards - quowards - the side - for grounded parts - forwards - quowards - the side - for grounded parts - forwards - the side - for grounded parts - for words - the side - for grounded parts - for words - the side - downwards - the side - for man current circuit sorew-type terminals sorew-type terminals - for auxiliary and control circuit - a tontactor for auxiliary contacts - for side or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - for auxiliary contacts -		
Solid-by-side mounting   Yes	mounting position	forward and backward by +/- 22.5° on vertical mounting surface
Meditable	fastening method	
width depth         45 mm           depth         97 mm           required spacing         * with side-by-side mounting           - forwards         10 mm           - upwards         10 mm           - downwards         10 mm           - for grounded parts         * or grounded parts           - for verards         10 mm           - at the side         6 mm           - downwards         10 mm           • for live parts         * or man upwards           - forwards         10 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - for wards         10 mm           - downwards         10 mm           - downwards         10 mm           - for man current circuit         screw-type terminals           * for manilary and control circuit         screw-type terminals           * of magnet coil         screw-type terminals           * to magnet coil         screw-type terminals           * of main contacts <td><ul> <li>side-by-side mounting</li> </ul></td> <td>Yes</td>	<ul> <li>side-by-side mounting</li> </ul>	Yes
depth   vertical pacing   ve	height	85 mm
with side-by-side mounting	width	45 mm
with side-by-side mounting	depth	97 mm
forwards upwards upwards downwards 10 mm 10 mm	required spacing	
- upwards     - downwards     - at the side     • for grounded parts     - forwards     - upwards     - upwards     - at the side     - downwards     - downwards     - downwards     - downwards     - downwards     - forive parts     - forwards     - forwards     - downwards     - downwards     - downwards     - downwards     - downwards     - downwards     - at the side     - downwards     - downwards     - downwards     - at the side     - downwards     - downwards     - downwards     - at the side     - downwards	with side-by-side mounting	
- downwards - at the side		10 mm
downwards at the side or mm  • for grounded parts (prowards or wards or		10 mm
● for grounded parts  - forwards  - upwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - upwards  - forwards  - upwards  - forwards  - upwards  - upwards  - downwards  - upwards  - at the side  - downwards  - upwards  - downwards  - upwards  - at the side  - formain correct icrouit  • for auxiliary and control circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  • for main contacts  - solid  - solid - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for for auxiliary contacts  - solid or stranded  • finely stranded with core end processing  • at AWG cables for auxiliary contacts  - solid or st	•	10 mm
• for grounded parts  - forwards - upwards - at the side - downwards - forwards - upwards - downwards - downwards - downwards - at the side - formain current circuit - for main current circuit - for auxillary and control circuit - solid - solid or stranded - finely stranded with core end processing - solid - stranded - finely stranded with core end processing - solid - solid - stranded - finely stranded with core end processing - solid - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded		
forwards		
- upwards - at the side - downwards • for live parts - forwards - upwards - downwards - upwards - downwards - downwards - at the side - for main current circuit • for main current circuit • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • for main contacts - solid - solid or stranded - finely stranded with core end processing • solid • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • forlow stranded • finely stranded with core end processing • solid 1 10 mm² • solid or stranded • finely stranded with core end processing • for usxiliary 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  - 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  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts  - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxiliary contacts - for auxilia		10 mm
- at the side		
• for live parts  - forwards - upwards - upwards - downwards - at the side  - for main current circuit • for main contacts • for main contacts - solid - solid or stranded - finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • 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  - 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 main contacts - for main contacts  - for main contacts - for main contacts - for main contacts - for main contacts - for main contacts - for main contacts - for main contacts - for main contacts - for main contacts - for auxiliary contacts - for main contacts - for auxiliary contacts -	•	
• for live parts  - forwards - upwards - downwards - downwards - at the side  Connections/ Torminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • for famin contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • 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  • solid or stranded • 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  • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts		
forwards upwards upwards downwards at the side downwards		10 111111
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • of majnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • 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  - 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 for auxiliary contacts - solid or stranded - finely stranded with core end processing • for multiple conductor cross-sections • for multiple conductor cross-sections • for multiple conductor cross-sections • for multiple conductor conductor cross-sections • for mu	•	10 mm
- downwards — at the side 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals  • for nawiliary and control circuit screw-type terminals  • at contactor for auxiliary contacts of magnet coil screw-type terminals  • for main contacts  • solid 2x (1 2.5 mm²), 2x (2.5 10 mm²)  - at AWG cables for main contacts  • solid 1 10 mm²  • stranded 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2x (1 10 mm²  1 10 mm²  1 10 mm²  1 10 mm²  • 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  - solid or stranded — finely stranded with core end processing connectable conductor cross-sections  • for maxiliary contacts  - solid or stranded — finely stranded with core end processing connectable conductor cross-sections  • for maxiliary contacts  - solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  - solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  - for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts • for maxiliary contacts  • for maxiliary contacts • for maxiliary contacts  • for maxiliary contacts • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts  • for maxiliary contacts  • for maxiliary		
Type of electrical connection  of or main current circuit of rauxiliary and control circuit screw-type terminals of main contacts of main contacts - solid - solid or stranded of inely stranded with core end processing of inely stranded with core end processing of inely stranded with core end processing of onnectable conductor cross-sections of or auxiliary contacts  AWG cables for auxiliary contacts  osolid of stranded of inely stranded with core end processing other of connectable conductor cross-sections  of or auxiliary contacts  AWG cables for auxiliary contacts  osolid or stranded of inely stranded with core end processing other of connectable conductor cross-sections  of or auxiliary contacts  AWG cables for auxiliary contacts  AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section  of or main contacts of or main contacts of or main contacts of or auxiliary contacts  16 8  of or auxiliary contacts  16 8  of or auxiliary contacts  16 8  of or auxiliary contacts	•	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of majnet coil  type of connectable conductor cross-sections  • for main contacts  — solid  — solid or stranded — finely stranded with core end processing  • solid  • stranded • finely stranded with core end processing  • solid or stranded  • finely stranded with core end processing  • solid  • stranded • finely stranded with core end processing  • solid  • stranded • finely stranded with core end processing  • solid • stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • finely stranded with core end processing  • solid or stranded • 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 • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross  section • for main contacts • for auxiliary contacts  • for main contacts • for main contacts • for auxiliary contacts  • for main contacts • for main contacts • for auxiliary contacts  • for main contacts • for auxiliary contacts  • for main contacts • for main contacts • for auxiliary contacts  • for main contacts • for main contacts • for		
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • for stranded • finely stranded with core end processing • for stranded • finely stranded with core end processing • solid • solid • for main contacts  - solid • solid • solid • solid • finely stranded with core end processing • for main contacts • solid • finely stranded with core end processing • for main contacts • solid • solid • 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 • solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for main contacts		6 mm
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>stranded of finely stranded with core end processing</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul>		
of ra uxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections     of or main contacts         — solid         — solid or stranded         — finely stranded with core end processing     ost and solid or stranded     ostranded		
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>— solid</li> <li>— stranded</li> <li>at a stranded</li> <li>— finely stranded with core end processing</li> <li>at a stranded</li> <li>— solid</li> <li>— stranded</li> <li>— finely stranded with core end processing</li> <li>— solid</li> <li>— stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— solid or stranded</li> <li>— sol</li></ul>		
of magnet coil      type of connectable conductor cross-sections	,	· · · · · · · · · · · · · · · · · · ·
type of connectable conductor cross-sections	•	
<ul> <li>• for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>• solid</li> <li>• at AWG cables for main contacts</li> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> <li>• solid</li> <li>• stranded</li> <li>• finely stranded with core end processing</li> <li>• solid or stranded with core end processing</li> <li>• solid or stranded with core end processing</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> <li>• for auxiliary contacts</li> <li>• solid or stranded</li> <li>• for auxiliary contacts</li> <li>• solid or stranded</li> <li>• for auxiliary contacts</li> <li>• solid or stranded with core end processing</li> <li>• for auxiliary contacts</li> <li>• solid or stranded with core end processing</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts</li> <li>• at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>• for main contacts</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts</li> </ul>	_	Screw-type terminals
- solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • 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 - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor crosssection • for main contacts • for auxiliary contacts - for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - for auxiliary contacts		
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  connectable conductor cross-section for main contacts  • solid • 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 type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  16 8 • for auxiliary contacts		
<ul> <li>— finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>Connectable conductor cross-section for main contacts</li> <li>● solid</li> <li>● stranded</li> <li>● stranded with core end processing</li> <li>Connectable conductor cross-section for auxiliary contacts</li> <li>● solid or stranded with core end processing</li> <li>● finely stranded with core end processing</li> <li>Use finely stranded with core end processing</li> <li>● for auxiliary contacts</li> <li>● at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for main contacts</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for main contacts</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for main contacts</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor crosssection</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>● for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>AWG number as coded connectable conductor cross section</li></ul>	— solid	
<ul> <li>at AWG cables for main contacts</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>solid or stranded of inely stranded with core end processing</li> <li>solid or stranded of inely stranded with core end processing</li> <li>solid or stranded of inely stranded with core end processing</li> <li>for auxiliary contacts or solid or stranded of inely stranded with core end processing</li> <li>a for auxiliary contacts or auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>for main contacts of for main contacts</li> <li>for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts of for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts of for auxiliary contacts</li> <li>for auxiliary contacts</li> </ul>	<ul><li>— solid or stranded</li></ul>	
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 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  - solid or stranded - solid or stranded - finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  16 8 • for auxiliary contacts  20 14		
ostranded of inely stranded with core end processing of inely stranded with core end processing connectable conductor cross-section for auxiliary contacts of solid or stranded of inely stranded with core end processing type of connectable conductor cross-sections of or auxiliary contacts - solid or stranded - finely stranded with core end processing of inely stranded with core end processing - solid or stranded - finely stranded with core end processing of at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section of or main contacts of or auxiliary contacts  16 8 of or auxiliary contacts 20 14	<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
<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>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>		
<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>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>1 10 mm²</li> <li>0.5 2.5 mm²</li> <li>0.5 2.5 mm²</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>	• solid	1 10 mm²
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 — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  16 8 • for auxiliary contacts 20 14	<ul><li>stranded</li></ul>	1 10 mm²
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 — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  16 8 • for auxiliary contacts 20 14	<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm²
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>for auxiliary contacts</li> <li>20 14</li> </ul>	connectable conductor cross-section for auxiliary	
<ul> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>20 14</li> </ul>	solid or stranded	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts  16 8 • for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)		
<ul> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>16 8</li> <li>for auxiliary contacts</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>		
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for auxiliary contacts</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> <li>• for auxiliary contacts</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>		
<ul> <li>— finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> </ul>	•	2x (0.5
<ul> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>2x (20 16), 2x (18 14)</li> <li>16 8</li> <li>20 14</li> </ul>		
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 14		
<ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>16 8</li> <li>20 14</li> </ul>	AWG number as coded connectable conductor cross	2A (20 10), 2A (10 14)
• for auxiliary contacts 20 14	0000011	
·	for main contacts	16 8

#### product function

mirror contact according to IEC 60947-4-1

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

## with low demand rate according to SN 31920

• with high demand rate according to SN 31920

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

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

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

· safety-related switching OFF

Yes

450 000

40 %

73 % 100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

### Certificates/ approvals

#### **General Product Approval**





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

### Marine / Shipping













other

Railway

Confirmation



Vibration and Shock

#### Further information

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=3RT2025-1AM20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-1AM20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AM20

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

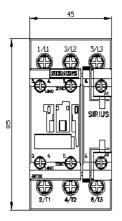
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1AM20&lang=en

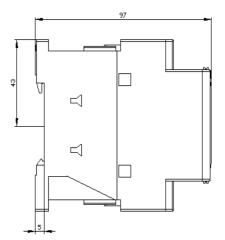
Characteristic: Tripping characteristics,  $I^2t$ , Let-through current

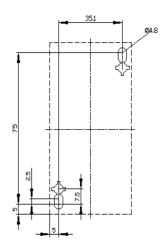
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AM20/char

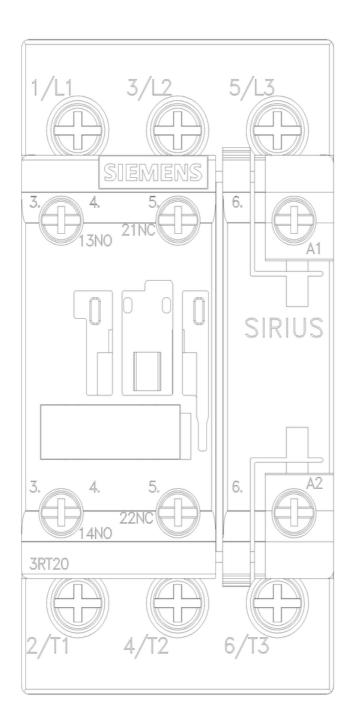
Further characteristics (e.g. electrical endurance, switching frequency)

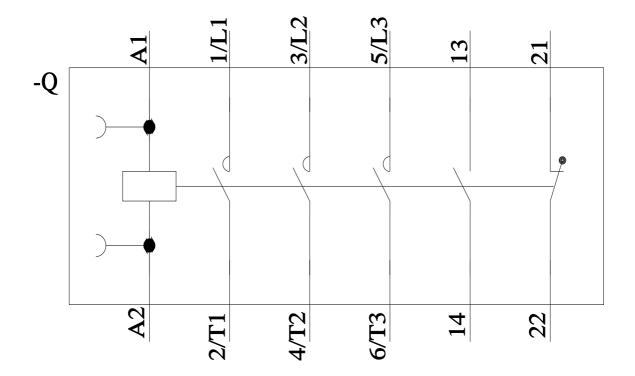
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AM20&objecttype=14&gridview=view1











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