# **SIEMENS**

Data sheet 3RT2028-1AM20



Power contactor, AC-3 38 A, 18.5 kW / 400 V 1 NO + 1 NC, 208 V AC, 50/60 Hz 3-pole, size S0 screw terminals

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
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	9.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.2 W
<ul> <li>without load current share typical</li> </ul>	10.5 W
insulation voltage	
• of main circuit with degree of pollution 3 rated value	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching 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	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	50 A
• at AC-1	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
at AC-5b up to 400 V rated value	31.5 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	30.8 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	30.8 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	30.8 A
— up to 690 V for current peak value n=20 rated value  value	21 A
<ul> <li>at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm <sup>2</sup>
cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— 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	0.207
— at 24 V rated value	35 A
	35 A
— at 110 V rated value	
— 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> </ul>	

— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 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> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 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	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	6 kW
• at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	26.6 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	18.5 kVA
• up to 690 V for current peak value n=30 rated value	25 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>	593 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	395 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	260 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	186 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	152 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h

at AC 2 magazines me	750.4/b
• at AC-3 maximum	750 1/h
at AC-3e maximum     at AC-4 maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	A.O.
type of voltage of the control supply voltage	AC
control supply voltage at AC	200.1/
<ul> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul>	208 V 208 V
operating range factor control supply voltage rated	200 V
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	81 VA
• at 60 Hz	79 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	40.5.1/4
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 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
Auviliary circuit	
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NC contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts	
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 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 • at 400 V rated value	1 10 A 10 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	1 10 A 10 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 10 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	1 10 A 10 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 10 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 10 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 10 A 3 A 2 A 1 A 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 • 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 10 A 3 A 2 A 1 A  10 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 60 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 10 A 3 A 2 A 1 A  10 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 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 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 • at 600 V rated value	1 10 A 10 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 10 A 3 A 2 A 1 A  10 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 • at 600 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 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 • at 64 V rated value • at 65 V rated value • at 67 V rated value • at 67 V rated value	1 10 A 10 A 3 A 2 A 1 A  10 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 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 24 V rated value • at 24 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 • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 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 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 410 V rated value • at 410 V rated value	1 10 A 10 A 3 A 2 A 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
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 690 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 600 V rated value • at 125 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 230 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	1 10 A 10 A 3 A 2 A 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
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 24 V rated value • at 600 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 10 A 3 A 2 A 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
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 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 30 V rated value • at 48 V rated value • at 60 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 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
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 24 V rated value • at 600 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 10 A 3 A 2 A 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

* al 600 V rated value   27 A	a at 490 V rotad value	24 A
yielded mechanical performance (hp)  • for single-phase AC motor  — at 110/120 Y rated value — at 200/230 Y rated value — at 200/230 Y rated value — at 200/230 Y rated value — at 400/480 Y rated value — at 400/480 Y rated value — at 400/480 Y rated value — at 575/500 Y rated value — with yee of coordination 1 required — with yee of coordination 1 required — with yee of assignment 2 required  space of short-circuit protection of the auxiliary switch required — with yee of assignment 2 required  space of short-circuit protection of the auxiliary switch required  returning position  1 -/-180* rotation possible on vertical mounting surface; can be titled forward and backward by 9-/-22.5° on vertical mounting surface; can be titled forward and backward by 9-/-22.5° on vertical mounting surface server and snap-on mounting onto 35 mm standard mounting rate according to INE N 60715  Yes  height — at 580 de yes — at 580 de y	at 480 V rated value	34 A
• for single-phase AC motor — at 110/120 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 420/480 V rated value — 25 hp — at 575/800 V rated value — 25 hp — at 575/800 V rated value — 25 hp — at 575/800 V rated value — 25 hp — at 575/800 V rated value — 25 hp — at 575/800 V rated value — 25 hp — at 575/800 V rated value — or short-circuit protection  design of the fuse link — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — or short-circuit protection of the main circuit — with type of assignment 2 required — or short-circuit protection of the auxiliary switch required — for short-circuit protection of the auxiliary switch required — side-by-side mounting — forwards — side-by-side mounting — forwards — upwards — other side — odwnwards — other side — downwards — 10 mm — to required space — for for grounded parts — forwards — to main current circuit — of or		21 A
al 10/120 V rated value		
at 230 V related value  • for 3-phase AC motor  at 200/208 V rated value  at 200/208 V rated value  at 200/208 V rated value  at 420/408 V rated value  at 575/600 V rated value  with type of continuits of the main circuit  with type of coordination 1 required  with type of assignment 2 required  with type of assignment 2 required  at basignment 2 required  at 575/600 V rated value  side-by-side mounting  forwards  upwards  at the side  downwards  upwards  to forgrounded parts  to revards	5 .	2 hm
• for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 480/480 V rated value — at 480/480 V rated value — at 575000 V rated value — 25 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required  mathallation mounting dimensions  mounting position  fastening method — saide-by-side mounting — saide-by-side mounting — with side-by-side mounting — to work and a backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be titled froward and backward by +t > 2.5 for vertical mounting surface: can be t		·
at 200/208 V rated value		5 пр
at 220/230 V rated value	•	40.1
		·
contact rating of auxiliary contacts according to UL  Short-circuit protection design of the fuse link		·
Short-circuit protection   Gosign of the fuse link		·
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch equired — for short-circuit protection of the auxiliary switch  • for short-circuit protection of the auxiliary switch equired  • for short-circuit protection of the auxiliary switch  • for main current circuit  • for wards  • for main current circuit  • for auxiliary and control circuit  • for main current circuit  • for main curren		A600 / P600
• for short-circuit protection of the main circuit     — with type of coordination 1 required     — with type of assignment 2 required     — with type of assignment 2 required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     • for short-circuit protection of the auxiliary switch required     Installation/ mounting/ dimensions  mounting position  #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4/- 22.5" on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • side-by-side mounting     • side-by-side mounting     — forwards     — downwards     — downwards     — at the side     — downwards     — at the side     — downwards     — downwards     — forwards     — the side     — downwards     — for main current circuit     • at contactor for auxiliary contacts     • solid     — solid     — solid     — solid     — solid or stranded     — finely stranded with core end processing     • at AWG cables for main     connectable conductor cross-sections     • for main contacts     connectable conductor cross-section for main	Short-circuit protection	
with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for	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  Installation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • or ownwards  — upwards  — at the side  — downwards  — of or grounded parts  — forwards  — at the side  — downwards  — of or grounded parts  — forwards  — at the side  — downwards  — the parts  — forwards  — the parts  — forwards  — the parts  — forwards — to mm  — at the side  — downwards — downwards — to mm  — at the side — downwards — to mm  — at the side — downwards — to mm  — at the side — for in incorrect circuit  • for ir current circuit • for auxiliary and control circuit • serew-type terminals  • of main current circuit • for rawillary and control circuit • of or auxiliary and control circuit • of or main current circuit • for or auxiliary and control circuit • of main current circuit • for or main current circuit • for for main current circuit • fo	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
• for short-circuit protection of the auxiliary switch required  Instalation/ mounting/ dimensions  mounting position  fastening method  • side-by-side mounting  • height  width  depth  required spacing  • with side-by-side mounting  — forwards — upwards — at the side — downwards — at the side — downwards — to five parts — forwards — upwards — to five parts — forwards — to five parts — forwards — upwards — the side — downwards — to five parts — forwards — upwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to five parts — forwards — the side — downwards — to mm — the side — for main current circuit • for auxillary and control circuit • at contactor for auxillary contacts • of magnet coil  screw-type terminals • for main current circuit • of main current circuit • at contactor for auxillary contacts • of magnet coil — solid — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts  Connectable conductor cross-section for main  • at AWG cables for main contacts  connectable conductor cross-section for main	<ul> <li>— with type of coordination 1 required</li> </ul>	
required mounting position mounting position  #/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface; screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  #/	— with type of assignment 2 required	
mounting position  #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by */- 22.5° on vertical mounting surface screw and and backward by */- 22.5° on vertical mounting surface screw and and pands and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  **Pes**		gG: 10 A (500 V, 1 kA)
mounting position  #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by */- 22.5° on vertical mounting surface screw and and backward by */- 22.5° on vertical mounting surface screw and and pands and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  **Pes**	Installation/ mounting/ dimensions	
screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715   vestide mounting	mounting position	
height 85 mm width 45 mm depth 97 mm required spacing  • with side-by-side mounting  — forwards — upwards — at the side — downwards — upwards — 10 mm — of orwards — upwards — forwards — 10 mm — of orwards — 10 mm — of orwards — 10 mm — of orwards — of or inverting of or inverting of or inverting of or main current circuit — at the side — of ormain current circuit — at the side — of ormain current circuit — at the side — of ormain current circuit — of or magnet coil  type of electrical connectable conductor cross-sections — solid — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts  connectable conductor cross-section for main  at AWG cables for main contacts  — solid — solid or stranded — at AWG cables for main contacts  connectable conductor cross-section for main  at AWG cables for main contacts  — solid — solid cables for main contacts — solid cables for main conta	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Neight width	• side-by-side mounting	
width         45 mm           depth         97 mm           required spacing         97 mm           • with side-by-side mounting         10 mm           — forwards         10 mm           — downwards         10 mm           — at the side         0 mm           • for grounded parts         10 mm           — upwards         10 mm           — at the side         6 mm           — downwards         10 mm           • for live parts         10 mm           — forwards         10 mm           — upwards         10 mm           — downwards         10 mm           — for main current circuit         screw-type terminals           type of electrical connection         screw-type terminals           • for main current circuit         screw-type terminals           • of magnet coil         Screw-type terminals           type of connectable conductor cross-sections         • for main contacts           — solid         2x (1 2.5 mm²), 2x (2.5 10 mm²)           — solid or stranded         2		85 mm
required spacing		45 mm
required spacing  with side-by-side mounting  - forwards  - upwards  - downwards  - at the side  for grounded parts  - forwards  - upwards  - upwards  - at the side  - downwards  - at the side  - downwards  - upwards  - at the side  - downwards  10 mm  - at the side  - downwards  10 mm  for live parts  - for wards  - upwards  - downwards  10 mm  for live parts  - for auther side  - downwards  - at the side  - downwards  - at the side  - for main current circuit  for auxiliary and control circuit  for auxiliary and control circuit  of magnet coil  type of connectable conductor cross-sections  for main contacts  - solid  - solid - solid or stranded  - finely stranded with core end processing  at AWG cables for main contacts  connectable conductor cross-section for main  at Norman Auxiliary and control circuit  2x (1 2.5 mm²), 2x (2.5 10 mm²)		97 mm
with side-by-side mounting — forwards — upwards — downwards — at the side  of or grounded parts — forwards — upwards — 10 mm  of or grounded parts — forwards — upwards — at the side — downwards — 10 mm  of or live parts — forwards — upwards — torwards — 10 mm  of or live parts — forwards — upwards — upwards — 10 mm  of or live parts — forwards — upwards — upwards — 10 mm — upwards — at the side — formain current circuit of main current circuit of or auxiliary and control circuit of or auxiliary and control circuit of or main current circuit of or main contacts — solid — solid or stranded — finely stranded with core end processing of name table conductor cross-section for main  at AWG cables for main contacts connectable conductor cross-section for main  to the main contacts  10 mm  20 mm  10 mm  20 mm  20 mm  20 crew-type terminals  20 crew	•	
- forwards		
- downwards - at the side of or grounded parts - forwards - upwards - at the side 10 mm - at the side - downwards 10 mm - at the side - downwards 10 mm  of or live parts - forwards 10 mm  of or live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection of ramin current circuit of rauxillary and control circuit at contactor for auxillary contacts of magnet coil  type of connectable conductor cross-sections of main contacts - solid - solid or stranded - finely stranded with core end processing other was a strangle of main contacts - at AWG cables for main contacts connectable conductor cross-section for main		10 mm
- downwards - at the side of or grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - downwards - downwards - at the side - downwards - at the side - forwards - upwards - formards - formaric current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for main current circuit - for main contactor for auxiliary contacts - for main contacts - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - the side - formain contacts - at Canada and the core of the core	— upwards	10 mm
<ul> <li>for grounded parts <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>to mm</li> <li>downwards</li> <li>at the side</li> <li>mm</li> </ul> </li> <li>connections/ Terminals</li> <li>type of electrical connection</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>screw-type terminals</li> <li>of main contacts</li> <li>of magnet coil</li> <li>screw-type terminals</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>screw-type terminals</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>connectable for main contacts</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main</li> </ul>	·	10 mm
<ul> <li>for grounded parts <ul> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>for wards</li> <li>upwards</li> <li>upwards</li> <li>upwards</li> <li>downwards</li> <li>to mm</li> <li>downwards</li> <li>at the side</li> <li>mm</li> </ul> </li> <li>connections/ Terminals</li> <li>type of electrical connection</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>screw-type terminals</li> <li>of main contacts</li> <li>of magnet coil</li> <li>screw-type terminals</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>screw-type terminals</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>connectable conductor cross-sections</li> <li>for main contacts</li> <li>a contactor for auxiliary contacts</li> <li>connectable for main contacts</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main</li> </ul>	— at the side	0 mm
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 upwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit 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 solid 2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  • at AWG cables for main contacts 2x (16 12), 2x (14 8)  connectable conductor cross-section for main		
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm  - upwards 10 mm  - upwards 10 mm  - upwards 10 mm  - downwards 10 mm  - at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • 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 • at AWG cables for main contacts  connectable conductor cross-section for main  at the side 6 mm  connectable conductor conductor 6 mm  connectable conductor cross-sections  at contactor for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts  connectable conductor cross-section for main		10 mm
- at the side     - downwards     - downwards     • for live parts     - forwards     - upwards     - upwards     - downwards     - at the side     - downwards     - at the side  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control circuit     • at contactor for auxiliary contacts     • of magnet coil  type of connectable conductor cross-sections     • for main contacts     - solid     - solid     - solid or stranded     - finely stranded with core end processing     • at AWG cables for main contacts     - and the side     10 mm     - domm     -		
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection • for main current circuit • of magnet coil  type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  Connectable conductor cross-section for main  10 mm  10 crew-type terminals  10 crew-type terminals  2crew-type terminals  2c	·	
<ul> <li>for live parts <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals <ul> <li>type of electrical connection</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</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>connectable conductor cross-section for main</li> </ul> </li> <li>10 mm  10 mm  2 crew-type terminals  screw-type terminals  screw-type terminals  Screw-type terminals  2 x (1 2.5 mm²), 2x (2.5 10 mm²)  2 x (1 2.5 mm²), 2x (2.5 10 mm²)  2 x (1 2.5 mm²), 2x (2.5 10 mm²)  2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²  2 x (16 12), 2x (14 8)</li> </ul>		
- forwards - upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  - connectable conductor cross-section for main		1V 11811
- upwards - downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  - downwards - form main contacts - 10 mm - 6 mm - 7 crew-type terminals - Screw-type terminals - Screw	·	10 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-sections • for main contacts solid solid or stranded finely stranded with core end processing • at AWG cables for main contacts  at the side form form for main contacts solid finely stranded with core end processing at AWG cables for main contacts  connectable conductor cross-section for main		
— at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded with core end processing • at AWG cables for main contacts  connectable conductor cross-section for main  6 mm  6 mm  6 mm  Screw-type terminals  Screw-type terminals  Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 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 2.5 mm²), 2x (1	•	
type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • for main contectable conductor cross-sections • for main contacts  - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  type of electrical connectable conductor cross-sections  2x (1 2.5 mm²), 2x (2.5 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 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid  — solid or stranded  — finely stranded with core end processing  • at AWG cables for main contacts  connectable conductor cross-section for main  screw-type terminals  Screw-type terminals  Screw-type terminals  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 10 mm²)  2x (1 2.5 mm²), 2x (2.5 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		O IIIIII
<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>Screw-type terminals</li> <li>for main contacts</li> <li>for main contacts</li> <li>a solid</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main</li> <li>screw-type terminals</li> <li>Screw-type terminals</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (1 2.5 mm²), 2x (1 2.5 mm²)</li> <li>2x (1 2.5 mm²)<td></td><td></td></li></ul>		
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Screw-type terminals</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>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main</li> <li>screw-type terminals</li> <li>Screw-type terminals</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (1 2.5 mm²), 2x (1 2.5 mm²)</li> <li>2x (1 2.5 mm²)</li> <li>2x</li></ul>		
<ul> <li>◆ at contactor for auxiliary contacts</li> <li>♦ of magnet coil</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>Screw-type terminals</li> <li>★ for main contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>♦ at AWG cables for main contacts</li> <li>★ at AWG conductor cross-section for main</li> <li>Screw-type terminals</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (16 12), 2x (14 8)</li> </ul>		•
<ul> <li>◆ of magnet coil</li> <li>Screw-type terminals</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>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (1 2.5 mm²), 2x (14 8)</li> </ul>	-	
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>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (1 2.5 mm²), 2x (1 2.5 mm²)</li> <li>2x (1 2.</li></ul>		Screw-type terminals
— solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         — solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         — finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         • at AWG cables for main contacts       2x (16 12), 2x (14 8)    connectable conductor cross-section for main		
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 10 mm²)</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (16 12), 2x (14 8)</li> </ul> connectable conductor cross-section for main	• for main contacts	
<ul> <li>— finely stranded with core end processing</li> <li>• at AWG cables for main contacts</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²</li> <li>2x (16 12), 2x (14 8)</li> <li>connectable conductor cross-section for main</li> </ul>	— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• at AWG cables for main contacts 2x (16 12), 2x (14 8)  connectable conductor cross-section for main	<ul><li>— solid or stranded</li></ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)
connectable conductor cross-section for main	<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
	<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
Contacto	connectable conductor cross-section for main contacts	
• solid 1 10 mm <sup>2</sup>	• solid	1 10 mm²

<ul><li>stranded</li></ul>	1 10 mm²
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>solid or stranded</li> </ul>	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>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	16 8
<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
B10 value with high demand rate according to SN 31920	450 000
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 y
protection class IP on the front according to IEC 60529	IP20
	IP20 finger-safe, for vertical contact from the front
60529	
60529 touch protection on the front according to IEC 60529	
touch protection on the front according to IEC 60529 suitability for use	finger-safe, for vertical contact from the front

#### Certificates/ approvais

## **General Product Approval**



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Declaration of Conformity Test Certificates

Machinery



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













other



## **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=3RT2028-1AM20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1AM20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AM20

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

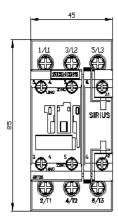
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2028-1AM20&lang=en

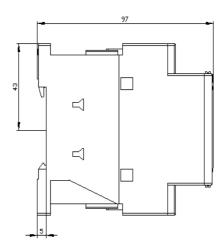
Characteristic: Tripping characteristics, I2t, Let-through current

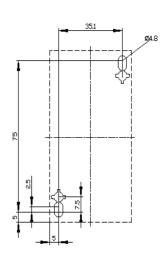
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AM20/char

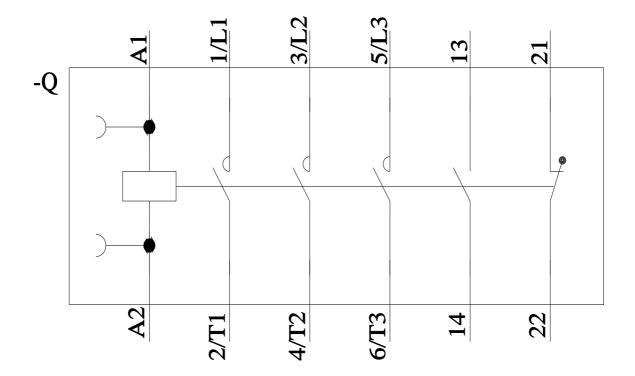
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1AM20&objecttype=14&gridview=view1









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