3RT2026-2AL20-1AA0

Data sheet



power contactor, AC-3 25 A, 11 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 / 60 Hz, 3-pole, Size S0, Spring-type terminal upright mounting position

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.7 W
 at AC in hot operating state per pole 	1.9 W
without load current share typical	10.5 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	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)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
of the contactor with added auxiliary switch block typical	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	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	25 A
— at 500 V rated value	18 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	25 A
— at 500 V rated value	18 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	20.7 A
• at AC-6a	20.7 A
— up to 230 V for current peak value n=20 rated value	20.2 A
— up to 400 V for current peak value n=20 rated value	20.2 A
 up to 500 V for current peak value n=20 rated value 	20.2 A
— up to 690 V for current peak value n=20 rated value	12.9 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	13.5 A
— up to 400 V for current peak value n=30 rated value	13.5 A
 up to 500 V for current peak value n=30 rated value 	13.5 A
— up to 690 V for current peak value n=30 rated value	13 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm ²
cycles at AC-4	
at 400 V rated value	9 A
• at 690 V rated value	9 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	1A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
	0.20 A
with 2 current paths in series at DC-1 at 24 V rated value.	25 A
— 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
 with 3 current paths in series at DC-1 	

— 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
at 1 current path at DC-3 at DC-5	
— 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
 with 2 current paths in series at DC-3 at DC-5 	
— 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
with 3 current paths in series at DC-3 at DC-5	
— 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	11 kW
• at AC-3	11 80
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 400 V rated value — at 500 V rated value	11 kW
— at 690 V rated value	11 kW
at AC-3e	1 1 KVV
■ at AC-3e — at 230 V rated value	5.5 kW
— at 230 V rated value — at 400 V rated value	5.5 KW 11 kW
— at 400 V rated value — at 500 V rated value	11 kW
— at 500 V rated value — at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-4	TTKW
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	8 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA
• up to 500 V for current peak value n=20 rated value	17.4 kVA
• up to 690 V for current peak value n=20 rated value	15.4 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	5.3 kVA
• up to 400 V for current peak value n=30 rated value	9.3 kVA
• up to 500 V for current peak value n=30 rated value	11.6 kVA
• up to 690 V for current peak value n=30 rated value	15.5 kVA
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	299 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	106 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
ACTIO E INGAINMIN	. 00

at AC 2 magazines una	750 4 /b
• at AC-3 maximum	750 1/h
 at AC-3e maximum at AC-4 maximum 	750 1/h 250 1/h
	250 1/11
Control circuit/ Control	A.O.
type of voltage of the control supply voltage	AC
control supply voltage at AC	220.1/
 at 50 Hz rated value at 60 Hz rated value 	230 V 230 V
operating range factor control supply voltage rated	230 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	40.51/4
• 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
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 instantaneous contact operational current at AC-12 maximum	
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 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 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 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 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 • 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 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 24 V rated value • at 48 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 100 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 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

* at 800 V rated value	at 480 V rated value	21 A
yleided mechanical performance (hg) • for single phase AC motor — at 110/120 V rated value — at 22020 V rated value — at 22020 V rated value — at 220220 V rated value — at 400/490 V rated value — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 400/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 57.5 hp — at 600/490 V rated value — at 600/490		
• for single-phase AC motor — at 120 V rated value — at 200 V rated value • for 3-phase AC motor — at 2002/30 V rated value — at 4004/30 V rated value — at 4004/30 V rated value — at 675/5000 V rated value — or 575/5000 V rated value — or 575/5000 V rated value — with type of conditional of the main circuit — with type of conditional of the main circuit — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — with ope of assignment 2 required — side by-side mounting of dimensions — with ope of assignment 2 required — side by-side mounting — side by-side mounting — with side-by-side mounting — of wards — upwards — upwards — of main contacts — of ownwards — of main contacts — of ownwards — of main contacts — of ownwards — of main contacts — of ownwards — of main contacts — of main contacts — of ownwards — of main contacts — of ownwards — of main contacts — of ownwards — of main contacts — of own		22 11
— at 230 V rated value	5 1	2 hn
* for 3-phase AC motor * at 2020208 V rated value * at 2020200 V rated value * at 2020200 V rated value * at 460480 V rated value * at 575000 V rated value * of 675000 V rated value *		·
		3 Hp
at 220/230 Y rated value	·	5 hn
— at 575/600 V rated value 20 hp A600 / P600 Short-circuit protection design of the fuse link ◆ for short-circuit protection of the main circuit — with type of assignment 2 required (96.100 Å, 680 V, 100 ÅA), aM: 50 Å (690 V, 100 ÅA), BS88: 100 Å (415 V, 80 ÅÅ) • for short-circuit protection of the auxiliary switch required (97.100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 35Å (415 V, 80 ÅÅ) • for short-circuit protection of the auxiliary switch required (97.100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 35Å (415 V, 80 ÅÅA) • for short-circuit protection of the auxiliary switch required (97.100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 35Å (415 V, 80 ÅÅA) • for short-circuit protection of the auxiliary switch required (97.100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 35Å (415 V, 80 ÅÅA) • for short-circuit protection of the auxiliary switch required (97.100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 100 Å (415 V, 80 ÅÅA) • for short-circuit protection of the auxiliary switch required (98.100 ÅA), aM: 20Å (690 V, 100 ÅA), aM: 20Å (690 V, 100 ÅA), BS88: 100 Å (415 V, 80 ÅÅA) • for short-circuit protection of the auxiliary switch required (98.00 ÅAA) • for short-circuit protection of the auxiliary switch required (98.00 ÅAA) • for short-circuit protection of the auxiliary switch required (98.00 ÅAA) • for short-circuit protection of the auxiliary switch required (98.00 ÅAA) • for short-circuit protection of the auxiliary switch required (98.00 ÅAA) • for short-circuit specifical connection of the auxiliary switch required (98.00 ÅAAA) • for switch		·
contact rating of auxiliary contacts according to U. Shore-circuit protection design of the fue link In or short-circuit protection of the main circuit With type of coordination 1 required Installation mounting protection of the auxiliary switch required Installation mounting dimensions Mounting position Installation mounting dimensions Mounting position Isstening method Issten		
Short-circuit protection Design 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 coordination 1 required with type of coordination 1 required with type of assignment 2 required size 3.5A (690V, 100kA), aM: 50 A (690 V, 100kA), BS88: 35A (415V, 80kA) with type of assignment 2 required size 3.5A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) with type of assignment 2 required size 3.5A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA) with type of assignment 2 required with side by-side mounting with side with s		A000 7 F000
• 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 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards • upwards • downwards • of orgounded parts • for forwards • at the side • forwards • for live parts • forwards • forlive parts • forwards • forwards • for live parts • forwards • for main current circuit • solid or stranded • solid or stranded • finely stranded without core end processing • at AWG cables for main contacts • connectable conductor cross-section for main contacts • connectable conductor cross-section for main contacts • at AWG cables for main contacts • at AWG cables for main contacts • at AWG cables for main contacts • connectable conductor cross-section for main contacts • at AWG cables for main contacts • for mai		
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 fastening method	_	
- 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	•	TO: 400 A (CCC) / 400 I:A) -NA: FO A (CCC) / 400 I:A) DCCC: 400 A (445
		V, 80 kA)
required mounting position state in position fastening method side-by-side mounting side-score and sold side-s		80kA)
mounting position standing, on horizontal mounting surface fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 e side-by-side mounting Yes height 102 mm depth 97 mm required spacing 97 mm e with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - for grounded parts 10 mm - for grounded parts 10 mm - for forwards 10 mm - at the side 6 mm - downwards 10 mm - for five parts 10 mm - for five parts 10 mm - for five parts 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - for parts 10 mm - for main current circuit spring-loaded terminals • for main current circuit spring-loaded terminals <th< td=""><td>required</td><td>gG: 10 A (500 V, 1 kA)</td></th<>	required	gG: 10 A (500 V, 1 kA)
fastening method side-by-side mounting side-by-side mounting width depth required spacing with side-by-side mounting forwards upwards the side for grounded parts forwards upwards the side for grounded parts forwards the side for main current circuit for auxiliary and control circuit at contacts of main contacts for main contacts finely stranded without core end processing finely stranded without core end processing att Wed Affer and Affer		
e side-by-side mounting height width depth 97 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — of or grounded parts — forwards — upwards — the side • for grounded parts — forwards — upwards — to mm — at the side • for grounded parts — forwards — upwards — upwards — upwards — the side • for man upwards — the side — downwards — the side — downwards — to mm • for live parts — forwards — to mm — to mm — to mm • for live parts — forwards — upwards — upwards — to mm — to mm • for live parts — forwards — to mm — to mm — to mm — to mm • for live parts — of man current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with out core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-sec		<u> </u>
Neight Width 45 mm Method 45 mm Method Meth	•	
width 45 mm depth 97 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts — forwards 10 mm — upwards 10 mm • for grounded parts — forwards 10 mm — upwards 10 mm — upwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm — upwards 10 mm — upwards 10 mm — the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxillary contacts Spring-lype terminals • of magnet coil spring-lype terminals type of connectable conductor cross-sections • for main contacts — solid Spring-type terminals • for main contacts — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts • connectable conductor cross-section for main contacts • at AWG cables for main contacts • connectable conductor cross-section for main contacts • at AWG cables for main contacts • connectable conductor cross-section for main contacts • connectable conductor cross-section for main contacts	side-by-side mounting	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — 10 mm • for grounded parts — forwards — upwards — 10 mm — at the side — downwards — 10 mm — at the side — downwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for main current sircuit — for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main currend • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts		102 mm
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side o mm for grounded parts - forwards - upwards - upwards - forwards - upwards - forwards - upwards - upwards - upwards - at the side - downwards - upwards - of for live parts - forwards - upwards - for wards - upwards - for main current circuit of or main current circuit of or main contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at WWG cables for main contacts - connectable conductor cross-section for main contacts - connect	width	45 mm
with side-by-side mounting - forwards - upwards 10 mm - downwards 10 mm - at the side 0 mm for grounded parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - for live parts - forwards 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 auxiliary and control 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 or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts - at AWG cables for main contacts - connectable conductor cross-section for main contacts - connectable conductor cross-section for main contacts - connectable conductor cross-section for main contacts - solid - solid or stranded without core end processing - at AWG cables for main contacts - connectable conductor cross-section for main contacts - cont	depth	97 mm
forwards		
- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - upwards - at the side - downwards • for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts	with side-by-side mounting	
- downwards - at the side of or grounded parts - forwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - upwards - downwards - at the side - formands - at the side Connections/ Terminals type of electrical connection of or auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of or main contacts - solid - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts - at AWG cables for main contacts connectable conductor cross-section for main contacts	— forwards	10 mm
- at the side 0 mm • for grounded parts - forwards 10 mm - ut the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 10 mm²) - solid or stranded 2x (1 10 mm²) - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts connectable conductor cross-section for main contacts	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — for live parts — forwards — upwards — upwards — upwards — upwards — downwards — the side — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts		10 mm
- forwards 10 mm - upwards 6 mm - at the side 6 mm - 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 - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid 2x (1 10 mm²) - solid or stranded 2x (1 10 mm²) - finely stranded with core end processing 2x (1 6 mm²) - at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts		0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm - at the side - downwards 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 • 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 contacts		
- at the side - downwards - downwards - for live parts - forwards - upwards - upwards - downwards - 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 or stranded - solid or stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts	— forwards	
- downwards • for live parts - 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 contacts • at AWG cables for main contacts connectable conductor cross-section for main contacts	•	
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- 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 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 contacts connectable conductor cross-section for main contacts - solid - finely stranded without core end processing - at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts	·	
- 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 cuntacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²)		
- at the side Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts	•	
type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid — solid or stranded — solid or stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts		6 mm
 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 without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts 		
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Spring-type terminals for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8) Connectable conductor cross-section for main contacts Contacts		
 at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for main contacts connectable conductor cross-section for main contacts Spring-type terminals 2x (1 10 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 		spring-loaded terminals
 ◆ of magnet coil Spring-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for main contacts Connectable conductor cross-section for main contacts Spring-type terminals 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8)	-	
type of connectable conductor cross-sections		
 for main contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts — at AWG cables for main contacts — solid or stranded — solid or		Spring-type terminals
 — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8) 		
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 mm²) 2x (1 6 mm²) 2x (18 8) 		
 — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 8 mm²) 2x (1 8) 		
 — finely stranded without core end processing • at AWG cables for main contacts 2x (1 6 mm²) 2x (18 8) connectable conductor cross-section for main contacts 		
• at AWG cables for main contacts 2x (18 8) connectable conductor cross-section for main contacts		
connectable conductor cross-section for main contacts		
contacts		2x (18 8)
• solid 1 10 mm ²	contacts	
	• solid	1 10 mm²

stranded	1 10 mm²
 finely stranded with core end processing 	1 6 mm²
finely stranded without core end processing	1 6 mm²
connectable conductor cross-section for auxiliary	
contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 at AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross	
section	
for main contacts	18 8
for auxiliary contacts	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Cartificates/ approvals	

Certificates/ approvals

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













Marine / Shipping other





Confirmation

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=3RT2026-2AL20-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2AL20-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AL20-1AA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-2AL20-1AA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AL20-1AA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AL20-1AA0&objecttype=14&gridview=view1

last modified: 6/2/2022 🖸