SIEMENS

Data sheet 3RT2023-1BN40



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 250 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0 $\,$

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	0.6 W
at AC in hot operating state per pole	0.2 W
without load current share typical	5.9 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating 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 	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	25.4
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	8.5 A 35.2 A
at AC-5a up to 690 V rated value	
at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	11.4 A
 up to 400 V for current peak value n=20 rated value 	11.4 A
 up to 500 V for current peak value n=20 rated value 	9.1 A
 up to 690 V for current peak value n=20 rated value 	9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	7.6 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
— up to 500 V for current peak value n=30 rated value	6.1 A
 up to 690 V for current peak value n=30 rated value 	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 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	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	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
with 3 current paths in series at DC-1	05.4
— at 24 V rated value	35 A
— at 60 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 60 V rated value	5 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 60 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 60 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	4 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
• at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
• up to 500 V for current peak value n=20 rated value	7.8 kVA
• up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	3 kVA
 up to 400 V for current peak value n=30 rated value 	5.2 kVA
 up to 500 V for current peak value n=30 rated value 	5.2 kVA
• up to 690 V for current peak value n=30 rated value	7.2 kVA
short-time withstand current in cold operating state up to	
40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	140 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	104 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	88 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h

ype of voltage of the control supply voltage control supply voltage at DC	Control circuit/ Control	
		DC
Action Country Count		
### Coll at DC Finitial value Finit	rated value	250 V
* full scale value 1.1 1	magnet coil at DC	
Coloring power of magnet coll at DC	• initial value	0.8
Deciding power of magnet coil at DC 5.9 W	full-scale value	1.1
Coloring delay	closing power of magnet coil at DC	5.9 W
● at DC opening delay ● at DC arcing time Control version of the switch operating mechanism Slandard A1 - A2 Auxillary circuit Furnisher of NC contacts for auxillary contacts instantaneous contact Control version at AC-12 maximum Operational current at AC-15 ● at 230 V rated value ● at 800 V rated value ● at 800 V rated value ● at 120 V rat	holding power of magnet coil at DC	5.9 W
opening delay	closing delay	
## at DC 15 18 ms 10 10 10 ms 10	• at DC	50 170 ms
Serving time	opening delay	
Control version of the switch operating mechanism Auraliany circuit	• at DC	15 18 ms
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-18 at 230 V rated value 10 A at 400 V rated value 2 A at 800 V rated value 11 A operational current at DC-12 at 24 V rated value 12 A at 800 V rated value 6 A at 800 V rated value 6 A at 800 V rated value 10 A at 800 V rated value 2 A at 800 V rated value 10 A at 800 V rated	arcing time	10 10 ms
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 • at 200 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 44 V rated value • at 44 V rated value • at 48 V rated value • at 40 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 300 V rated value • at 40 V rated value • at 50 V rated value • at 10 V rated value • at 100 V rated value • at 200 V rated value • at 200 V rated value • at 300 V rated value • at 400 V rated value • at 400 V rated value yielded mechanical performance [hp] • for single-phase AC motor • at 480 V rated value • at 300 V rated value • at 500	control version of the switch operating mechanism	Standard A1 - A2
Contact Contacts for auxiliary contacts instantaneous Contact Coperational current at AC-12 maximum Coperational current at AC-15 at 230 V rated value	Auxiliary circuit	
Contact		1
Operational current at AC-15		1.
• at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 100 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 260 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 100 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value • at 40 V rated value • at 50 V rated value • at 5	operational current at AC-12 maximum	10 A
	operational current at AC-15	
• at 500 V rated value 1 A • at 690 V rated value 1 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 100 V rated value 6 A • at 110 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 126 V rated value 1 A • at 127 V rated value 1 A • at 128 V rated value 1 A • at 128 V rated value 1 A • at 129 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 200 V rated value 1 A • at 600 V rated V r	• at 230 V rated value	10 A
• at 690 V rated value 1 DC-12 • at 24 V rated value 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	• at 400 V rated value	3 A
Operational current at DC-12	• at 500 V rated value	2 A
	at 690 V rated value	1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 150 V rated value • at 150 V rated value • at 150 V rated value • at 125 V rated value • at 20 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 150 V rated value • at 150 V rated value • at 150 V rated value • at 1000 V rated value • at 220 V rated value • at 30 V rated value • at 220 V rated value • at 30 V rated value • at 30 V rated value • at 30 V rated value • at 220 V rated value • at 30 V rated value • at 220 V rated value • at 30 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 260/80 V rated value • for 3-phase AC motor • at 260/80 V rated value • for 3-phase AC motor • at 260/80 V rated value • for 3-phase AC motor • at 260/80 V rated value • for 3-phase AC motor • at 260/80 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • at 460/480 V rated value • for 3-phase AC motor • for	operational current at DC-12	
* at 60 V rated value	• at 24 V rated value	10 A
	• at 48 V rated value	6 A
	• at 60 V rated value	6 A
• at 220 V rated value • at 600 V rated value • at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 260 V rated value • at 480 V rated value • at 230 V rated value • at 230 V rated value • at 230 V rated value • at 360 V rated value • at 360 V rated value • at 360 V rated value • 50 3-phase AC motor • at 200/208 V rated value • 1 hp • at 220/230 V rated value • 3 hp • at 460/480 V rated value • 3 hp • at 450/680 V rated value • 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection	• at 110 V rated value	3 A
• at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 11 A • at 125 V rated value 0.9 A • at 220 V rated value 0.9 A • at 220 V rated value 0.1 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) LL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 1 hp • at 220/230 V rated value 2 hp — at 250/230 V rated value 5 hp — at 575/600 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 125 V rated value	2 A
operational current at DC-13	at 220 V rated value	1 A
• at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 112 V rated value • at 220 V rated value • at 220 V rated value • at 8600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 460/480 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	at 600 V rated value	0.15 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 4 80 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 7.6 A at 600 V rated value at 7.6 A at 600 V rated value at 7.6 A at 7.6	operational current at DC-13	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 6000 V rated value at 6000 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 230 V rated value thp at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value 5 hp at 460/480 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 24 V rated value	10 A
at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor - at 110/120 V rated value for 3-phase AC motor - at 230 V rated value for 3-phase AC motor - at 200/208 V rated value 1 hp for 3-phase AC motor - at 200/208 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value 0.3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value 1 hp for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value 5 hp at 460/480 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link 	 at 60 V rated value 	2 A
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value by hp at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value by hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 110 V rated value	1 A
at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 5 A at 600 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 1 hp - at 230 V rated value 1 hp for 3-phase AC motor - at 200/208 V rated value 1 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp • at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 4575/600 V rated value 5 hp — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 220 V rated value	0.3 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value 1 hp for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 220/230 V rated value 3 hp at 460/480 V rated value 5 hp at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	UL/CSA ratings	
at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 2 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	• at 480 V rated value	7.6 A
for single-phase AC motor — at 110/120 V rated value	at 600 V rated value	9 A
- at 110/120 V rated value 1 hp - at 230 V rated value 1 hp ● for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	yielded mechanical performance [hp]	
— at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	• for single-phase AC motor	
● for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	— at 110/120 V rated value	1 hp
- at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	— at 230 V rated value	1 hp
- at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	• for 3-phase AC motor	
- at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	— at 200/208 V rated value	2 hp
— at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link	— at 220/230 V rated value	3 hp
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	— at 460/480 V rated value	5 hp
Short-circuit protection design of the fuse link	— at 575/600 V rated value	7.5 hp
design of the fuse link	contact rating of auxiliary contacts according to UL	A600 / P600
	Short-circuit protection	
for short-circuit protection of the main circuit	design of the fuse link	
	• for short-circuit protection of the main circuit	

 — with type of coordination 1 required 	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	107 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	and the second s
for main current circuit for auxiliary and control circuit	screw-type terminals
for auxiliary and control circuit at contactor for auxiliary contactor	screw-type terminals
at contactor for auxiliary contacts of magnet coil	Screw-type terminals
of magnet coil type of connectable conductor cross-sections for main contacts	Screw-type terminals
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid 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 10 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	2X (1 2.0 Hilli), 2X (2.0 0 Hilli), 1X 10 Hilli
solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 10 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
• for main contacts	16 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	10.04
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 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching on 	Yes
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate Type Test Certificates/Test Report

Marine / Shipping













other

Railway

Dangerous Good

Environment

Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further information

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

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

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

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

Information on the packaging

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

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2023-1BN40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1BN40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BN40

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

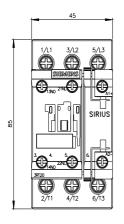
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1BN40&lang=en

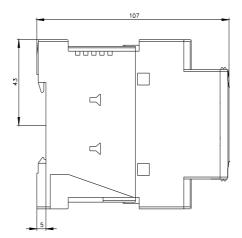
Characteristic: Tripping characteristics, I2t, Let-through current

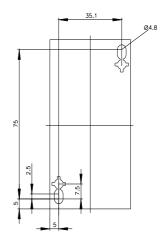
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1BN40/char

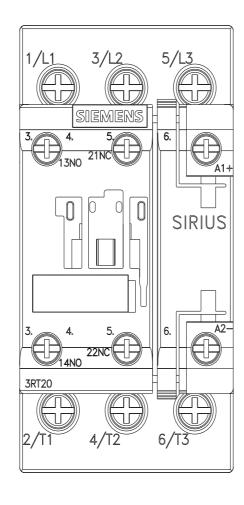
Further characteristics (e.g. electrical endurance, switching frequency)

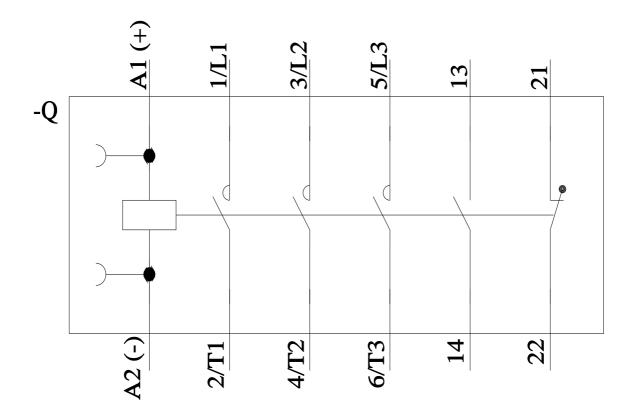
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2023-1BN40\&objecttype=14\&gridview=view1}$











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