SIEMENS

Data sheet

3RT2023-1FB44-3MA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, with plugged-in diode combination, auxiliary contacts: 2 NO + 2 NC, screw terminal, captive auxiliary switch

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	No	
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 safe isolation 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		

0
3
000.1/
690 V
690 V
40. A
40 A
40 A
35 A
9 A
9 A
9 A
9 A
9 A
9 A
8.5 A
35.2 A
7.4 A
11.4 A
11.4 A
9.1 A
9 A
7.6 A
7.6 A
6.1 A
6.1 A 10 mm ²
TO THE
4.1 A
3.3 A
35 A
20 A
4.5 A
1 A
0.4 A
0.25 A
35 A
35 A
35 A
5 A
1 A
0.8 A
0.0 A
35 A

-1.440.1/ 1 1	05 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	1A
— 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	0.1071
— 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
_	104 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum	
Imited to 60 s switching at zero current maximum In a least switching for sweepers.	88 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	4.500.44
• 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 ACb maximum at ACb maximum control circuid Gentral type of votage at DC control supply votage at DC control version of the switch operations control at DC-C1 control version of the switch operations control at DC-C2 control version of the switch operations control version of the Switch operations control at DC-C2 control version of the switch operations control version of the Switch operation of the Switch operation of the Switch op	a at AC 30 maximum	1 000 1/h
Control clinetif Control	at AC-3e maximum at AC-4 maximum	1 000 1/h 300 1/h
type of voltage of the control supply voltage control supply voltage at DC - rated value porating range factor control supply voltage rated voltage factor voltage f		000 1/11
control supply voltage at DC		DC
e reted value of magnet color tool supply voltage rated value of magnet coll at DC • Initial value • Iuli-scale value • Iuli-		
Special or angular factor control supply voltage rated value of magnet coil at DC initial value 1.1 initial value 1.2 initial value 1.3 in		24 V
value of magnet coll at DC 6.181. Hacate value 1.1 design of the surge suppressor with dicide assemblies closing power of magnet coll at DC 5.9 W holding power of magnet coll at DC 5.9 W closing delay 50 170 ms a ti DC 55 18 ms a cring time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Availiary circuit 51 18 ms number of NC contracts for auxiliary contacts instantaneous contact 2 number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 2 operational current at AC-12 maximum 10 A at 600 V rated value 1 A		
* full-scale value 1.1 1	value of magnet coil at DC	
dosign of the surge suppressor closing power of magnet coll at DC 5.9 W closing dolay • at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-13 maximum at 4500 V rated value at 4500 V rated value at 48 V rated value at 40	initial value	0.8
Closing power of magnet coil at DC		
holding power of magnet coil at DC		
closing delay	- · · · · · · · · · · · · · · · · · · ·	
• at DC opening delay • at DC arcing time control version of the switch operating mechanism Control version of the switch operating mechanism Causilary circuit rumber of NC contacts for auxiliary contacts instantaneous contact rumber of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 4500 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 100 V rated value • at 110 V rated value • at 100 V rate		5.9 W
a trib		50 170 mg
ear DC 15 18 ms 10 10 ms Standard A1 - A2		30 170 IIIS
accing time		15 18 ms
Auxiliary circuit		
Auxillary circuit number of NC contacts for auxiliary contacts 1	_	Standard A1 - A2
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 • at 40 V rated value • at 600 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 800 V rated value • at 100 V rated value • at 100 V rated value • at 110 V rated value • at 220 V rated value • at 120 V rated value • at 1600 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 30 V rated value • at 30 V rated value • at 200 V rated value • at 30 V rated value • at 400 V rated value • at 600 V rated value • at 100 V rated value • at 600 V rated value • at 500 V rated value • at 600 V rated value • at 500 V rated value • at 600 V		
Number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum		2
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 500 V rated value • at 600 V rated value • at 148 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 120 V rated value • at 220 V rated value • at 320 V rated value • at 480 V rated value • at 220 V rated value • at 200 V rated value •		
operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 590 V rated value 2 A at 590 V rated value 1 A operational current at DC-12 at 24 V rated value 3 A at 48 V rated value 6 A at 80 V rated value 7 A at 80 V rated value 8 A at 125 V rated value 9 A at 220 V rated value 1 A at 220 V rated value 1 A 6 A at 120 V rated value 1 A 6 A at 120 V rated value 1 A 6 A at 120 V rated value 1 A 6 A at 120 V rated value 9 A at 80 V rated value 9 A at 80 V rated value 1 A at 110 V rated value 9 A at 110 V rated value 9 A at 110 V rated value 1 A at 125 V rated value 9 A 1 Taulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor 9 at 480 V rated value 9 A yielded mechanical performance [hp] 9 (or single-phase AC motor - at 110/120 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A at 500 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A at 600 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A at 600 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2028 V rated value 9 A yielded mechanical performance [hp] - at 220/2030 V rated value 9 A yielded mechanical performance [hp] - at 2200 V rated value 9 A yielded mechanical performance [hp] - at 230 V rated value 9 A yielded mechanical performance [hp] - at 200/2080 V rated value 9 A yielded mechanical performance [hp] - at 575/600 V rated value 9 A yielded mechanical performance [hp] - at 575/600 V rated value 9 A yielded mec		2
operational current at AC-15 • at 230 V rated value		10 A
	·	
	at 230 V rated value	6 A
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 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 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • 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 • at 600 V rated value • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • at 200 V rated value • for 3-phase AC motor • rated value • for 3-phase AC motor	 at 400 V rated value 	3 A
operational current at DC-12	 at 500 V rated value 	2 A
		1 A
 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 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 7.6 A at 600 V rated value at 200 V rated value at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection 		
 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 1 A at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 200 V rated value at 200 V rated value at 600 V rated value at 7.6 A at 100 V rated value at 600 V rated value at 7.6 A at 200 V rated value at 3 hp at 460/480 V rated value at 575/600 V rated value 5 hp at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection 		
 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 at 24 V rated value at 24 V rated value at 60 V rated value at 10 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 7.6 A at 600 V rated value at 7.6 A at 7.6 A at 200 V rated value at 7.6 A at 200 V rated value at 600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection 		
• at 125 V rated value • at 220 V rated value • at 220 V rated value 0.15 A • at 220 V rated value 0.15 A operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 320 V rated value • at 480 V rated value contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 220 V rated value • at 230 V rated value • at 230 V rated value • at 230 V rated value • at 200/208 V rated value • at 575/600 V rated value • A600 / Q600 Short-circuit protection		
• at 220 V rated value • at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 230 V rated 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 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - A600 / Q600 Short-circuit protection		
• 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 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 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 800 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 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value - at 200/208 V rated value - 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		
• at 24 V rated value		
at 24 V rated value at 48 V rated value 2 A at 60 V rated value 1 A at 125 V rated value 2 A at 60 V rated value 3 A at 600 V rated value 4 A at 125 V rated value 5 A at 600 V rated value 7 A buildings full-load current (FLA) for 3-phase AC motor 4 at 480 V rated value 9 A for single-phase AC motor at 110/120 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 1 hp at 230 V rated value 2 hp at 220/230 V rated value 3 hp at 260/280 V rated value 3 hp at 260/280 V rated value 5 hp at 275/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection		0.1071
 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 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 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 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value 5 hp at 575/600 V rated value A600 / Q600 Short-circuit protection 	•	6 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value o.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 for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value bp at 575/600 V rated value 5 hp 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection 	at 48 V rated value	2 A
 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 9 A yielded mechanical performance [hp] 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 at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 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	 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 for 3-phase AC motor - at 230 V rated value at 230 V rated value - at 220/230 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	 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value af 607 3-phase AC motor at 200/208 V rated value at 220/230 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	● at 125 V rated value	0.9 A
tull-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 9 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 contact rating of auxiliary contacts according to UL Short-circuit protection		
### Contract of the Contract o		
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 — 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		1 taulty switching per 100 million (17 V, 1 mA)
 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 — 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 460/480 V rated value — at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection		
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 — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection		76 ^
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — 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		
for single-phase AC motor — at 110/120 V rated value		
- 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		
— 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		1 hp
◆ for 3-phase AC motor — at 200/208 V rated value	— at 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 A600 / Q600 Short-circuit protection	• 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 / Q600 Short-circuit protection	— 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 / Q600 Short-circuit protection	 — at 220/230 V rated value 	3 hp
contact rating of auxiliary contacts according to UL Short-circuit protection A600 / Q600		
Short-circuit protection		
		A600 / Q600
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 assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA)

Installa	ation/	mouni	tina/	dimen	eione

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	151 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		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	

Connections/ Terminals

type	of	electrical	connection
------	----	------------	------------

- at the side

- 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

connectable conductor cross-section for main contacts

- solid
- stranded
- finely stranded with core end processing

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

- for main contacts
- for auxiliary contacts

screw-type terminals

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 ... 6 mm²), 1x 10 mm²

1 ... 10 mm²

- 1 ... 10 mm²
- 1 ... 10 mm²
- 0.5 ... 2.5 mm²

0.5 ... 2.5 mm²

- 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
- 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
- 2x (20 ... 16), 2x (18 ... 14)
- 16 ... 8

20 ... 14

Safety related data

product function

- mirror contact according to IEC 60947-4-1
- positively driven operation according to IEC 60947-
- 5-1
- B10 value with high demand rate according to SN 31920

Yes No

450 000

proportion of dangerous failures

with low demand rate according to SN 31920

• with high demand rate according to SN 31920

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

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

protection class IP on the front according to IEC 60529

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

safety-related switching OFF

40 %

73 %

100 FIT

20 a

IP20

finger-safe, for vertical contact from the front

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Examination Certificate





Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

other

Railway

Dangerous Good



Vibration and Shock

<u>Transport Information</u>

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=3RT2023-1FB44-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1FB44-3MA0

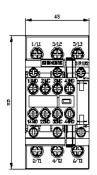
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

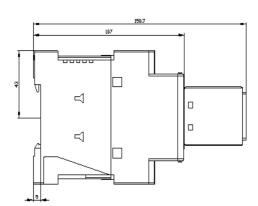
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1FB44-3MA0

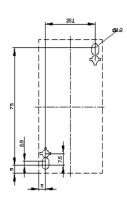
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

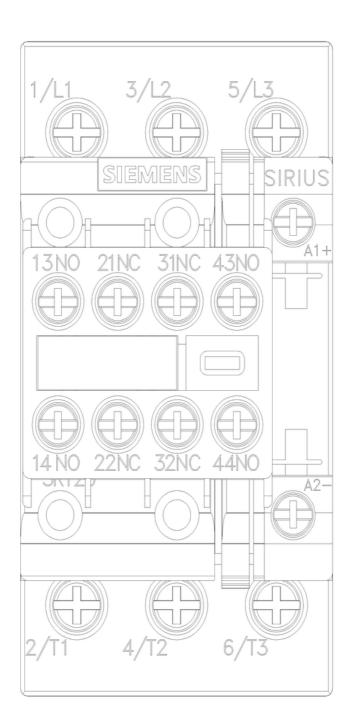
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1FB44-3MA0&lang=en

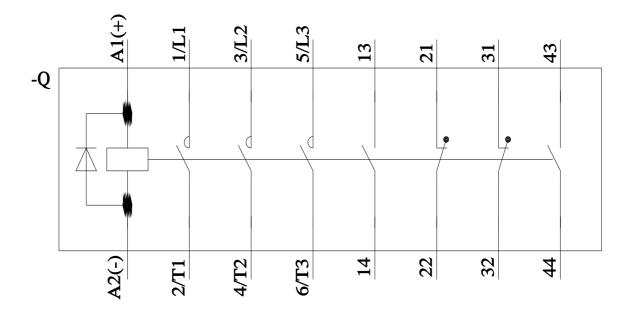
Characteristic: Tripping characteristics, I2t, Let-through current











last modified: 2/10/2023 🖸