3RT2035-3CL24-3MA0

Data sheet



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, captive auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	6.6 W
 at AC in hot operating state per pole 	2.2 W
without load current share typical	6.5 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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)	10/01/2014
SVHC substance name	Blei - 7439-92-1
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.	60 A
value • at AC-1	
	CO A
 up to 690 V at ambient temperature 40 °C rated value 	60 A
— up to 690 V at ambient temperature 60 °C rated	55 A
value	
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated	16 mm²
value operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 A
at 690 V rated value	18.5 A
operational current	10.071
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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 440 V rated value — at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	0.2071
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 110 V rated value — at 220 V rated value	5 A
— at 440 V rated value	1A
— at 440 V rated value — at 600 V rated value	0.8 A
	0.0 A
with 3 current paths in series at DC-1 at 24 V rated value.	55 A
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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 6 A — at 220 V rated value 1 A — at 460 V rated value 0.1 A — at 460 V rated value 0.1 A — at 460 V rated value 0.0.6 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 45 A — at 60 V rated value 55 A — at 60 V rated value 25 A — at 20 V rated value 55 A — at 20 V rated value 55 A — at 440 V rated value 0.27 A — at 4600 V rated value 0.27 A — at 460 V rated value 0.27 A — at 4600 V rated value 0.27 A — at 460 V rated value 0.27 A — at 600 V rated value 55 A — at 22 V rated value 55 A — at 22 V rated value 55 A — at 20 V rated value 55 A — at 60 V rated value 55 A — at 60 V rated value 55 A — at 60 V rated value 55 A — at 20 V rated value 55 A — at 20 V rated value 55 A — at 220 V rated value 15 A — at 440 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 — at 230 V rated value 18.5 kW • at AC-3e — at 490 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW • at AC-3e — at 230 V rated value 11 kW • at AC-3e — at 230 V rated value 18.5 kW • at AC-3e — at 230 V rated value 18.5 kW • at AC-3e — at 230 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW • at AC-3e — at 250 V rated value 18.5 kW	
at 60 V rated value	
at 220 V rated value	
at 440 V rated value	
 at 600 V rated value with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — 55 A — at 1220 V rated value — 54 A — at 440 V rated value — at 600 V rated value — at 60 V rated value — 55 A — at 110 V rated value — 55 A — at 110 V rated value — 55 A — at 220 V rated value — 55 A — at 220 V rated value — 36 A — at 400 V rated value — 0.6 A — 35 A Operating power at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated value <li< td=""><td></td></li<>	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value	
- at 24 V rated value	
- at 110 V rated value	
at 220 V rated value	
- 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 55 A - at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 440 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW - at 690 V rated value 11 kW - at 400 V rated value 22 kW • at AC-3e - at 230 V rated value 22 kW - at 690 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW	
- at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 55 A - at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 11 kW - at 400 V rated value 22 kW • at AC-3e - at 230 V rated value 22 kW • at AC-3e - at 230 V rated value 22 kW • at AC-3e - at 230 V rated value 22 kW • at AC-3e - at 250 V rated value 22 kW - at 690 V rated value 22 kW	
• with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 55 A — at 60 V rated value 55 A — at 110 V rated value 55 A — at 220 V rated value 25 A — at 440 V rated value 0.6 A — at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 — at 230 V rated value 11 kW — at 400 V rated value 22 kW — at 690 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 22 kW • at AC-3e — at 230 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 22 kW • at AC-3e — at 250 V rated value 22 kW • at AC-3e — at 250 V rated value 18.5 kW — at 500 V rated value 22 kW — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
at 24 V rated value 55 A at 60 V rated value 55 A at 110 V rated value 55 A at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW • at AC-3e at 230 V rated value 22 kW • at AC-3e at 230 V rated value 22 kW • at AC-3e at 200 V rated value 22 kW • at AC-3e at 200 V rated value 22 kW at 690 V rated value 18.5 kW at 400 V rated value 22 kW at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
- at 60 V rated value 55 A - at 110 V rated value 55 A - at 220 V rated value 25 A - at 440 V rated value 0.6 A - at 600 V rated value 0.35 A operating power • at AC-2 at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW - at 690 V rated value 22 kW • at AC-3e - at 230 V rated value 11 kW - at 400 V rated value 22 kW • at 690 V rated value 18.5 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
at 110 V rated value 55 A at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A operating power ■ at AC-2 at 400 V rated value 18.5 kW ■ at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW at 690 V rated value 22 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW at 500 V rated value 22 kW ■ at AC-3e at 230 V rated value 18.5 kW at 690 V rated value 22 kW	
at 220 V rated value 25 A at 440 V rated value 0.6 A at 600 V rated value 0.35 A operating power ■ at AC-2 at 400 V rated value 18.5 kW ■ at AC-3 at 230 V rated value 11 kW at 400 V rated value 18.5 kW at 500 V rated value 22 kW at 690 V rated value 22 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW ■ at AC-3e at 230 V rated value 22 kW ■ at AC-3e at 250 V rated value 18.5 kW at 690 V rated value 22 kW	
at 440 V rated value 0.6 A at 600 V rated value 0.35 A operating power ■ at AC-2 at 400 V rated value 18.5 kW ■ at AC-3 at 230 V rated value 11 kW at 400 V rated value 22 kW at 690 V rated value 22 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW ■ at AC-3e at 230 V rated value 11 kW at 400 V rated value 22 kW ■ at 500 V rated value 11 kW at 400 V rated value 18.5 kW at 690 V rated value 22 kW	
— at 600 V rated value 0.35 A operating power 18.5 kW • at AC-2 at 400 V rated value 18.5 kW • at 230 V rated value 11 kW — at 400 V rated value 22 kW — at 690 V rated value 22 kW • at AC-3e 11 kW — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW • at 690 V rated value 22 kW	
operating power	
 at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at AC-3e — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value 	
■ at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value ■ at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value operating power for approx. 200000 operating cycles at AC-	
 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value 	
— at 400 V rated value — at 500 V rated value 22 kW — at 690 V rated value 22 kW • at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
— at 500 V rated value 22 kW — at 690 V rated value 22 kW ■ at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
 — at 690 V rated value ● at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value 	
● at AC-3e — at 230 V rated value 11 kW — at 400 V rated value 18.5 kW — at 500 V rated value 22 kW — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
- at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 500 V rated value 22 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
- at 400 V rated value - at 500 V rated value 22 kW - at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
 at 500 V rated value at 690 V rated value at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC- 	
— at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-	
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value 11.6 kW	
• at 690 V rated value 16.8 kW	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value 14.5 kVA	
• up to 400 V for current peak value n=20 rated value 25.2 kVA	
• up to 500 V for current peak value n=20 rated value 31.6 kVA	
• up to 690 V for current peak value n=20 rated value 28.6 kVA	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 9.6 kVA	
• up to 400 V for current peak value n=30 rated value 16.8 kVA	
• up to 500 V for current peak value n=30 rated value 21 kVA	
• up to 690 V for current peak value n=30 rated value 28.6 kVA	
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 5 s switching at zero current maximum 596 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 10 s switching at zero current maximum 400 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 30 s switching at zero current maximum 241 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 60 s switching at zero current maximum 196 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 1 200 1/h	
• at AC-2 maximum 750 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	

Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of	
magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	210 VA
● at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	17.2 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	10.0 177
at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	4000
• at AC	10 80 ms
opening delay	
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	0.4
 at 230 V rated value 	6 A
at 230 V rated value at 400 V rated value	3 A
• at 400 V rated value	3 A
at 400 V rated valueat 500 V rated value	3 A 2 A
at 400 V rated valueat 500 V rated valueat 690 V rated value	3 A 2 A
 at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12	3 A 2 A 1 A
 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 	3 A 2 A 1 A
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	3 A 2 A 1 A 10 A 6 A
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	3 A 2 A 1 A 10 A 6 A 6 A
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	3 A 2 A 1 A 10 A 6 A 6 A 3 A
 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 	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A
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 220 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
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	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
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 operational current at DC-13	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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 24 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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 operational current at DC-13 at 24 V rated value at 48 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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 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	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A
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 at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A
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 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	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A
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 at 48 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 220 V rated value at 125 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
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 100 V rated value at 110 V rated value at 125 V rated value at 220 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 10 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 120 V rated value at 1210 V rated value at 1220 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A
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 at 48 V rated value at 110 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A
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 60 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 48 V rated value at 48 V rated value at 60 V rated value at 125 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 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 60 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 at 60 V rated value at 125 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)
at 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 60 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 48 V rated value at 48 V rated value at 60 V rated value at 125 V rated value at 600 V rated value	3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)

 for single-phase AC motor 	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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	114 mm
width	55 mm
depth	178 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
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-toaded terminals Spring-type terminals
of magnet coil	Spring-type terminals Spring-type terminals
type of connectable conductor cross-sections for main contacts	Spg type terminale
solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)
connectable conductor cross-section for main contacts	,, , ,
finely stranded with core end processing	1 35 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 mm ²
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)
for AWG cables for auxiliary contacts AWG number as coded connectable conductor areas.	2x (20 14)
AWG number as coded connectable conductor cross	

section	
 for main contacts 	18 1
for auxiliary contacts	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
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 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
Certificates/ approvals	

General Product Approval





Confirmation



<u>KC</u>



EMC Safe

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway

Dangerous Good



Confirmation

Confirmation

Vibration and Shock

Transport Information

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. $\label{eq:continuous}$

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=3RT2035-3CL24-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3CL24-3MA0

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

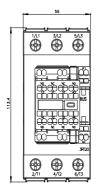
 $\underline{\text{https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3CL24-3MA0}}$

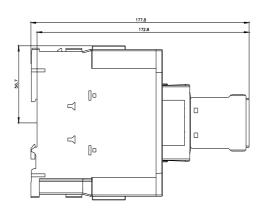
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

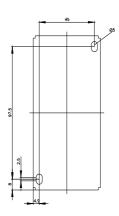
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3CL24-3MA0&lang=en

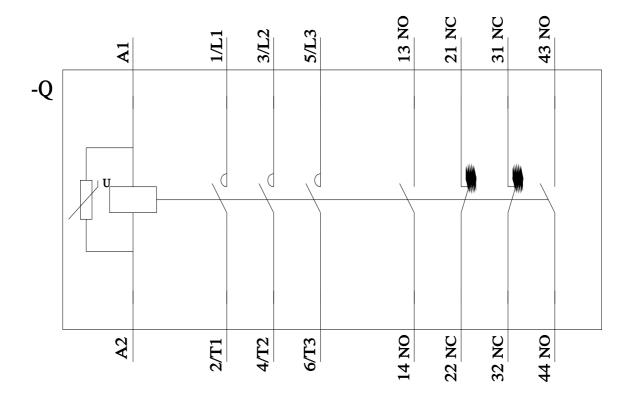
http://www.automation.siemens.com/cs/ww/en/ps/3RT2035-3CL24-3MA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3CL24-3MA0&objecttype=14&gridview=view1









last modified: 8/15/2023 🖸

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3RT20353CL243MA0