SIEMENS

Data sheet 3RT2024-1KB40



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, suitable for PLC outputs, not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling 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	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	4.5 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 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
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 	40 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C rated	35 A
value	
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	9.9 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	11.3 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	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm²
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
at 400 V rated value at 690 V rated value	5.5 A
operational current	0.5 A
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 110 V rated value — at 220 V rated value	4.5 A
— at 220 V rated value — 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.	25 A
— 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	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 — at 60 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 240 V rated value — at 600 V rated value — at 220 V rated value — at 600 V rated value — 5.5 kW — at 500 V rated value — 5.5 kW — at 500 V rated value — 3.6 kW • 4 t AC-3e — at 230 V rated value — at 600 V rated value — at 600 V rated value — 5.5 kW • 4 t AC-3e — at 230 V rated value — 5.5 kW • 4 t AC-3e — at 600 V rated value — 5.5 kW • 5.5 kW • 4 t AC-3e — at 600 V rated value — 5.5 kW • 5.5
at 110 V rated value
at 220 V rated value
at 440 V rated value
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A — at 60 V rated value 15 A — at 60 V rated value 35 A — at 110 V rated value 15 A — at 220 V rated value 0.27 A — at 440 V rated value 0.16 A — at 460 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 60 V rated value 35 A — at 10 V rated value 35 A — at 40 V rated value 35 A — at 40 V rated value 0.6 A — at 440 V rated value 35 A — at 220 V rated value 10 A — at 440 V rated value 55 KW — at 400 V rated value 0.6 A — at 600 V rated value 10 A — at 440 V rated value 10 A — at 400 V rated value 10 A — at 400 V rated value 55 KW — at 500 V rated value 55 KW — at 500 V rated value 55 KW — at 690 V rated value 55 KW — at 690 V rated value 75 KW • at AC-3 — at 230 V rated value 55 KW — at 690 V rated value 65 KW — at 690 V rated value 67 KWA — at 690 V rated value 690 V for current peak value n=20 rated value 75 KWA — up to 500 V for current peak value n=20 rated value 98 KVA — up to 500 V for current peak value n=30 rated value 98 KVA — up to 500 V for current peak value n=30 rated value 98 KVA — up to 500 V for current peak value n=30 rated value 600 V rated value 600 V for current peak value n=30 rated value 600 V rated value 600 V for current peak value n=30 rated value 600 V rated value 600 V for current peak value n=30 rated value 600 V rated value 600 V for current peak value n=30 rated value 600 V rated value 600 V for current peak value 700
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — 35 A — at 24 V rated value — 35 A — at 110 V rated value — 35 A — at 110 V rated value — 36 A — at 110 V rated value — 37 A — at 220 V rated value — 38 A — at 110 V rated value — 38 A — at 220 V rated value — 38 A — at 400 V rated value — 38 A — at 400 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 230 V rated value — 38 A — at 400 V rated value — 38 A — at 400 V rated value — 48 B — 48 A — 48 B — 49 D V rated value — 58 A • 40 A • 40 V rated value — 59 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 40 A • 40 V rated value — 50 A • 50 A • 50 A • 50 A • 60 A • 6
at 24 V rated value 35 A 36 A 36 A 37 A 37 A 38 A 38 A 38 A 38 A 38 A 38
at 10 V rated value 15 A
- at 1110 V rated value 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3
- at 220 V rated value
- at 440 V rated value
■ with 3 current paths in series at DC-3 at DC-5 ■ at 24 V tated value ■ 35 A ■ at 110 V rated value ■ 35 A ■ at 220 V rated value ■ at 440 V rated value ■ at AC-3 ■ at 320 V rated value ■ at AC-3 ■ at 320 V rated value ■ at AC-3 ■ at 300 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 500 V rated value ■ at 400 V rated value ■ at AC-3 ■ at 320 V rated value ■ at AC-3e ■ at AC-3e ■ at AC-3e ■ at AC-3e ■ at 220 V rated value ■ 5.5 kW ■ at AC-3e ■ at 400 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 500 V rated value ■ 4.5 kW ■ at 500 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■ at 690 V rated value ■ 5.5 kW ■
with 3 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 1110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 230 V rated value — at 230 V rated value — at 600 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 600 V rated va
- at 24 V rated value
at 60 V rated value at 110 V rated value at 220 V rated value at 420 V rated value at 400 V rated value at 600 V rated value at 500 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 500 V rated value at 600 V rated value
at 110 V rated value
at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 230 V rated value at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 400 V rated value at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value a
at 220 V rated value at 440 V rated value at 460 V rated value at 600 V rated value operating power • at AC-3 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 690 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 55 kW at 500 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 600 V
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value 5.5 kW — at 690 V rated value 5.5 kW • at AC-3e — at 230 V rated value 7.5 kW • at AC-3e — at 230 V rated value 5.5 kW — at 500 V rated value 5.5 kW — at 500 V rated value 5.5 kW — at 990 V rated value 5.5 kW — at 990 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V roc urrent peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • 2.2 kVA
at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at AC-3e at 230 V rated value at AC-3e at 230 V rated value at 400 V rated value 5.5 kW at AC-3e at 400 V rated value 5.5 kW at 690 V rated value 5.5 kW at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2.6 kW at 690 V rated value 4.6 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 9.8 kVA up to 690 V for current peak value n=20 rated value 9.8 kVA up to 690 V for current peak value n=20 rated value 9.8 kVA up to 690 V for current peak value n=20 rated value 9.8 kVA up to 690 V for current peak value n=20 rated value 9.8 kVA up to 690 V for current peak value n=30 rated value 3 kW 3 kW 4 S kVA 4 S kVA 4 S kVA 5 S kVA
- at 230 V rated value 5.5 kW - at 500 V rated value 5.5 kW - at 690 V rated value 7.5 kW • at AC-3e - at 230 V rated value 3 kW - at 400 V rated value 5.5 kW - at 500 V rated value 5.5 kW - at 400 V rated value 5.5 kW - at 500 V rated value 5.5 kW - at 690 V rated value 5.5 kW - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.6 kW • at 690 V rated value 4.6 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 7.8 kVA • up to 690 V for current peak value n=20 rated value 9.8 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=20 rated value 9.8 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
- at 400 V rated value 5.5 kW - at 690 V rated value 7.5 kW • at AC-3e - at 230 V rated value 3 kW - at 400 V rated value 5.5 kW - at 500 V rated value 5.5 kW - at 500 V rated value 5.5 kW - at 690 V rated value 5.5 kW - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.6 kW • at 690 V rated value 4.6 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 7.8 kVA • up to 500 V for current peak value n=20 rated value 9.8 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=20 rated value 9.8 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
- at 500 V rated value - at 690 V rated value - at AC-3e - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 690 V
- at 690 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated v
at AC-3e — 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 690 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value at 690 V rated value 4.6 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 10.7 kVA operating apparent power at AC-6a up to 690 V for current peak value n=20 rated value 3 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 3 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 5.2 kVA
- 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 690 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value 10.7 kVA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value
- at 400 V rated value - at 500 V rated value 5.5 kW - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value 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
- at 500 V rated value - at 690 V rated value 7.5 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value oup to 400 V for current peak value n=30 rated value 5.2 kVA
— at 690 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 3 kVA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 5.2 kVA
operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value 4.6 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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
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 at 400 V rated value at 690 V rated value 4.6 kW Operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value 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
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operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 5.2 kVA
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• up to 400 V for current peak value n=30 rated value 5.2 kVA
. =00.1/6
• up to 500 V for current peak value n=30 rated value 6.5 kVA
up to 690 V for current peak value n=30 rated value 9 kVA 9 kVA
short-time withstand current in cold operating state up to 40 °C
• limited to 1 s switching at zero current maximum 210 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 5 s switching at zero current maximum 210 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum 170 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum 126 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum 105 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

Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	24 V
operating range factor control supply voltage rated value of	
magnet coil at DC	
• initial value	0.7
• full-scale value	1.25
design of the surge suppressor	with varistor
closing power of magnet coil at DC	4.5 W
holding power of magnet coil at DC	4.5 W
closing delay	
• at DC	52 270 ms
opening delay	
• at DC	15 21 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	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
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	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• 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	11 A
at 600 V rated value	11 A
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	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
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	40		
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
for grounded parts— forwards	10 mm		
— iorwards — upwards	10 mm		
— upwards — 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	screw-type terminals		
at contactor for auxiliary contacts	Screw-type terminals		
• of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
• solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
• finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
connectable conductor cross-section for main contacts			
• 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 mm ²		
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		
suitability for use safety-related switching OFF	Yes		
B10 value with high demand rate according to SN 31920	450 000		
proportion of dangerous failures	40.07		
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
Cartificates/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













other Railway	Dangerous Good	Environment
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Confirmation



Vibration and Shock

Transport Information

Environmental Confirmations

Further informatior

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=3RT2024-1KB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-1KB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1KB40

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

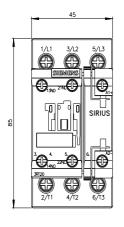
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-1KB40&lang=en

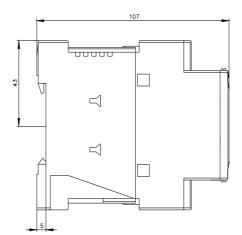
Characteristic: Tripping characteristics, I²t, Let-through current

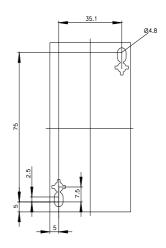
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-1KB40/char

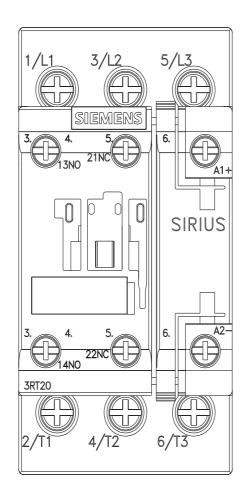
Further characteristics (e.g. electrical endurance, switching frequency)

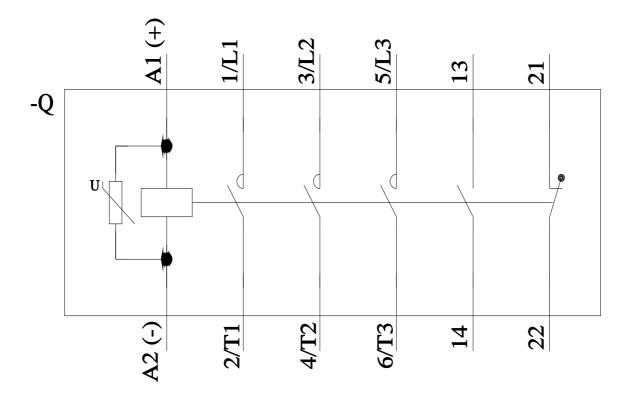
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-1KB40&objecttype=14&gridview=view1











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