SIEMENS

Data sheet 3RT2036-1KB40



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 24 V DC, $0.8-1.2^{\circ}$ Us, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, suitable for PLC outputs

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	12 W
 at AC in hot operating state per pole 	4 W
without load current share typical	1 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	7.7g / 5 ms, 4.5g / 10 ms
shock resistance with sine pulse	
• at DC	12g / 5 ms, 7g / 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 Bleimonoxid (Bleioxid) - 1317-36-8
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 %

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	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	70 A
value	
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	43.2 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
— up to 500 V for current peak value n=20 rated value	43.2 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	28.8 A
 up to 400 V for current peak value n=30 rated value 	28.8 A
 up to 500 V for current peak value n=30 rated value 	28.8 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 value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	24 A
at 690 V rated value	20 A
operational current	
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	1A
— 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— 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

		1.4 A
	 at 1 current path at DC-3 at DC-5 	
1	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
with 2 current paths in series at DC-3 at DC-5	— at 220 V rated value	1 A
### with 2 current paths in series at DC-3 at DC-5 ### at 70 V rated value ### at 710 V rated	— at 440 V rated value	0.1 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	55 A
	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
### with 3 current paths in series at DC-3 at DC-5 ### at 24 V rated value ### at 60 V rated value ### at 24 V rated value ### at 240 V rated value ### at 340 V rated value ### at 400 V rated value ### at 340 V rated value ### at 400 V rated va	— at 220 V rated value	5 A
### with 3 current paths in series at DC-3 at DC-5 ### at 24 V rated value ### at 80 V rated value ### at 220 V rated value ### at 80 V rated	— at 440 V rated value	0.27 A
with 3 current paths in series at DC-3 at DC-5		0.16 A
at 24 V rated value		
	-	55 Δ
- at 110 V rated value		
at 220 V rated value		
at 440 V rated value		
at AC-2 at 400 V rated value 22 kW at AC-3		
operating power		
* at AC-2 at 400 V rated value * at AC-3 * at 400 V rated value * at 500 V rated value * at 690 V rated value * at 600 V rated value * at AC-3e * at 400 V rated value * at 690 V rated value * at 400 V rated value * at 690 V rated value * au p to 230 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 rated value * up to 500 V for current peak value n=20 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 * 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 * 24 9 kVA * 29 9 kVA * 30 AVA * 30 A		0.55 A
at AC-3 at 230 V rated value at 400 V rated value 22 kW at 690 V rated value 22 kW at AC-3e at 400 V rated value 22 kW at AC-3e at 400 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 12.6 kW operating apparent power at AC-8a up to 230 V for current peak value n=20 rated value up to 800 V for current peak value n=20 rated value up to 800 V for current peak value n=20 rated value up to 800 V for current peak value n=20 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value up to 800 V for current peak value n=30 rated value 37 A; VA 28.6 kVA 39 F A; Use minimum cross-section acc. to AC-1 rated value ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 70 switching at zero current maximum ilimited to 80 s switching at zero current maximum ilimited to 80 s switching at zero current maximum ilimited to 80 s switching at zero current maximum ilimited to 80 s switching at zero current maximum ilimited to 80 s switching at zero cu		22 144
- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 690 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value		ZZ KVV
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 500 V rated value - at 690 V rated value		45111
- at 500 V rated value - at 690 V rated value 22 kW 22 kW - at 400 V rated value 22 kW 25 kW 26 kW 26 kW 27 kW 28 kW 28 kW 28 kW 29 kW 29 kW 29 kW 20		
- at 690 V rated value • at AC-3e - 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 690 V rated value 12.6 kW • at 690 V rated value 29.8 kVA 29.9 kVA 37.4 kVA • at 690 V for current peak value n=30 rated value 11.4 kVA 19.9 kVA • at 690 V for current peak value n=30 rated value 11.4 kVA 19.9 kVA • at 690 V for current peak value n=30 rated value 24.9 kVA • at 690 V for current peak value n=30 rated value 19.9 kVA 24.9 kVA 24.9 kVA 24.9 kVA 25.6 kVA Short-time withstand current in cold operating state up to 690 V for current peak value n=30 rated value 19.9 kVA 19.9 kVA 24.9 kVA 24.9 kVA 25.6 kVA 27.0 kW 28.6 kVA 29.0 kVA		
at AC-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • 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 500 V for current peak value n=20 rated value • up to 690 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 s	— at 500 V rated value	
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- at 500 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 12.6 kW • at 690 V rated value 18.2 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 29.9 kVA • up to 500 V for current peak value n=20 rated value 29.9 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=20 rated value 28.6 kVA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 28.6 kVA operating apparent power at AC-8a • up to 400 V for current peak value n=30 rated value 19.9 kVA • up to 500 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 24.9 kVA • up to 690 V for current peak value n=30 rated value 26.6 kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 697 A; Use minimum cross-section acc. to AC-1 rated value elimited to 10 s switching at zero current maximum 468 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 222 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value elimited to 60 s switching at	• at AC-3e	
	— at 400 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4 • 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=20 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 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching fequency • at AC-1 maximum • at AC-2 maximum 1 000 1/h 600 1/h	— at 500 V rated value	22 kW
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• 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 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 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 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum		
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=20 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 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited for 80 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum • limited for 90 s switching at zero current maximum •	at 400 V rated value	12.6 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=20 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 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited for 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at DC 1 500 1/h • at AC-1 maximum • at AC-2 maximum 1 000 1/h	at 690 V rated value	
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 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 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 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 229 A; Use minimum cross-section acc. to AC-1 rated value 229 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 at AC-2 maximum 600 1/h 		11.4 kVA
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching frequency Ilimited to 60 s switching frequ		
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operating frequency • at AC-1 maximum • at AC-2 maximum 600 1/h	no-load switching frequency	
 at AC-1 maximum at AC-2 maximum 1 000 1/h 600 1/h 	• at DC	1 500 1/h
• at AC-2 maximum 600 1/h	operating frequency	
	• at AC-1 maximum	1 000 1/h
-1.4.0.0 maniferran	• at AC-2 maximum	600 1/h
at AC-3 maximum 800 1/h	• at AC-3 maximum	800 1/h
• at AC-3e maximum 800 1/h	• at AC-3e maximum	800 1/h
• at AC-4 maximum 250 1/h	• at AC-4 maximum	250 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	0.8
full-scale value	1.2
design of the surge suppressor	with varistor
inrush current peak	2.6 A
duration of inrush current peak	50 µs
locked-rotor current mean value	0.9 A
locked-rotor current peak	2.1 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
closing power of magnet coil at DC	21.5 W
holding power of magnet coil at DC	1 W
closing delay	
• at DC	35 80 ms
opening delay	
• at DC	30 55 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	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	40.4
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value at 600 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	10 A
at 24 V rated value at 48 V rated value	10 A 6 A
at 46 V rated value at 60 V rated value	6 A
at 100 V rated value at 110 V rated value	3 A
at 125 V rated value	2 A
at 123 V rated value at 220 V rated value	1 A
at 220 V rated value 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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	40.1
	10 hp
• for 3-phase AC motor	10 hp

at 220/220 Vt-dt	45 ha
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 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: 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	130 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
	10 min
• for live parts	40
— 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 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 2.5 mm²
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	18 1
for auxiliary contacts	20 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
contact about any to the court of t	

 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

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway

Environment



Confirmation

Vibration and Shock

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=3RT2036-1KB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1KB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1KB40

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

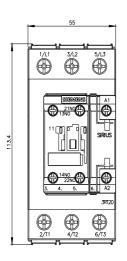
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1KB40&lang=en

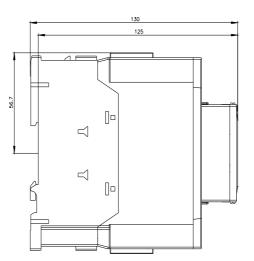
Characteristic: Tripping characteristics, I2t, Let-through current

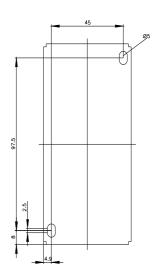
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1KB40/char

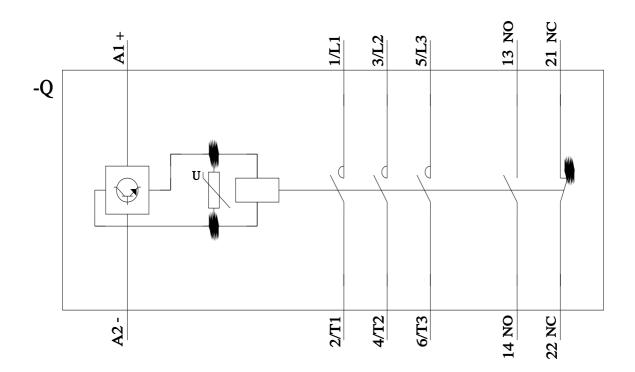
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1KB40&objecttype=14&gridview=view1









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