SIEMENS

Data sheet 3RT2025-2KB40



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25* Us, with plugged-in varistor, auxiliary contacts: 1 NO + 1 NC, spring-loaded 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 	1.8 W
 at AC in hot operating state per pole 	0.6 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	25.4
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5a up to 690 V rated value • at AC-5b up to 400 V rated value	14.1 A
•	14.1 A
• at AC-6a	44.4.0
— 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	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 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	7.7 A
at 690 V rated value	7.7 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— at 440 V rated value	0.4 A
— at 440 V rated value — at 600 V rated value	0.25 A
	0.25 A
with 2 current paths in series at DC-1 at 24 V roted 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	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	

	— at 24 V rated value	20 A
at 200 V rated value at 100 V rated value at 200 V rated value	— at 220 V rated value	
- with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 100 V rated value - at 200 V rated value - at 24 V rated value - at 200 V rated value - at 300 V rated value - at 300 V rated value - at 300 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated val		
		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
- with 3 current paths in series at DC-3 at DC-5 - at 124 V rated value - at 100 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 440 V rated value - at 400 V rated value - at 600 V rated v	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	35 A
operating power	— at 220 V rated value	10 A
at AC-3	— at 440 V rated value	0.6 A
at 3230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 6039 at 230 V rated value at 6040 V rated value at 6059 at 230 V rated value at 400 V rated value at 500 V rated value at 600 V rated value ap to 500 V for current peak value n=20 rated value ap to 680 V for current peak value n=20 rated value ap to 680 V for current peak value n=30 rated value ap to 500 V for current peak value n=50 rated value	— at 600 V rated value	0.6 A
	operating power	
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 500 V rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current peak value n=30 rated value at 600 V for current for at 60		
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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 500 V rated value at 500 V rated value at 500 V rated value at 690 V rot current peak value n=20 rated value at 690 V rot 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 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 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 up to 690 V for current to 100 perating state up to 40 C C urrent maximum up to 690 V for current to 100 perating state up to 40 C C urrent maximum up to 690 V for current to 100 perating state up to 40 C C urrent to 60 s switching at zero current maximum up to 690 V for current to 100 perating frequency at AC-1 maximum at AC-2 maximum at AC-4 maximum at AC-	— at 400 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 500 V rated value ■ at 500 V rated value ■ at 690 V rated value		
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- at 590 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 * 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 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 * up to 500 V for current peak value n=30 rated value * up to 500 V for current peak value n=30 rated value * limited to 1 s switching at zero current maximum * limited to 6 1 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		
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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 590 V for current peak value n=20 rated value • up to 590 V for current peak value n=20 rated value • up to 590 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 • up to 400 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 590 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 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 ilimited to 60 s switching at zero current maximum no-load switching frequency • at DC 1 500 1/h et AC-2 maximum at AC-3 maximum 1 000 1/h • at AC-3 maximum at AC-3 maximum at AC-4 maximum 1 000 1/h • at AC-3 maximum at AC-4 maximum 2 4.5 kVA 4.6 kVA 9.1 kVA 5.1 kVA 5.2 kVA 6.6 kVA 9.1 kVA 189 A; Use minimum cross-section acc. to AC-1 rated val		
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 590 V for current peak value n=20 rated value • up to 590 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 • 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 • 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 10 s switching at zero current maximum • limited to 60 s switching at	 at 400 V rated value 	3.5 kW
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 13.6 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 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 sup 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 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 slimited frequency at DC 1500 1/h at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 300 1/h control circuit/ Control	• at 690 V rated value	6 kW
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=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 c	operating apparent power at AC-6a	
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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 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 short-time withstand current in cold operating state up to 400 °C elimited to 1 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 10 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum elimited to 60 s switching at zero current maximum folload switching frequency eat AC-1 maximum at AC-2 maximum at AC-3 maximum eat AC-3 maximum eat AC-3 maximum eat AC-4 maximum eat AC-4 maximum control circuit/ Control 1 so kVA 3 kVA 5 kVA 6.6 kVA 9.1 kVA 5.2 kVA 6.6 kVA 9.1 k	• up to 400 V for current peak value n=20 rated value	7.8 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 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 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 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 100 at AC-1 maximum 1000 1/h • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-1 current accurated value 1000 1/h • at AC-1 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum	• up to 500 V for current peak value n=20 rated value	9.9 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 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 short-time withstand current in cold operating state up to 40 °C • 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 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 10-load switching frequency • at DC • 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-3 maximum 1 000 1/h • at AC-4 maximum 225 A; Use minimum cross-section acc. to AC-1 rated value 189 A; Use minimum cross-section acc. to AC-1 rated value 150 1/h 1500 1/h 1000 1/h	• up to 690 V for current peak value n=20 rated value	13.6 kVA
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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 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 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 switch	• up to 230 V for current peak value n=30 rated value	3 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 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximu		
• up to 690 V for current peak value n=30 rated value 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 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 100 at DC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum		
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 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 15 A; Use minimum cross-section acc. to AC-1 rated value 15 A; Use minimum cross-section acc. to AC-1 rated value 15 A; Use minimum cross-section acc. to AC-1 rated value 16 A; Use minimum cross-section acc. to AC-1 rated value 17 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 18 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value 10 A; Use minimum cross-section acc. to AC-1 rated value		
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● limited to 60 s switching at zero current maximum 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-3e maximum 1 000 1/h ● at AC-4e maximum 300 1/h Control circuit/ Control	-	
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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		1 500 1/h
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at AC-3e maximum at AC-4 maximum 300 1/h Control circuit/ Control		
at AC-4 maximum 300 1/h Control circuit/ Control		
Control circuit/ Control		
type of voltage of the control supply voltage		DC
	type of voitage of the control supply voitage	DO

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	FO 070
• at DC	52 270 ms
opening delay	40 04
• at DC	19 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 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	
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	14 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 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)
with type of assignment 2 required for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	go. 1077 (000 V, 110 V)
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	102 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
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	40
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
for auxiliary and control circuit	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (1 10 mm²)
solid or stranded	2x (1 10 mm²)
finely stranded with core end processing	2x (1 6 mm²)
finely stranded without core end processing	2x (1 6 mm²)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 6 mm²
finely stranded without core end processing	1 6 mm²
connectable conductor cross-section for auxiliary contacts	0.5 0.5
solid or stranded	0.5 2.5 mm²
finely stranded with core end processing	0.5 1.5 mm²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	2v (0 F 2 F mm²)
— 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	2x (20 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 8
for auxiliary contacts	20 14
Safety related data	
product function	
•	Yes
mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920	Yes 450 000

 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
0-456-4-1	

Certificates/ approvals

General Product Approval





Confirmation



KC



Functional
Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Miscellaneous











Marine / Shipping

other

Railway

Dangerous Good





Confirmation



Vibration and Shock

Transport Information

Environment

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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2025-2KB40}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2025-2KB40

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

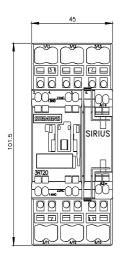
https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-2KB40

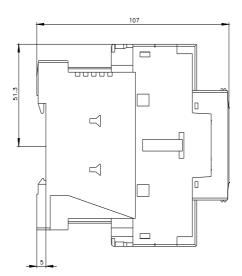
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

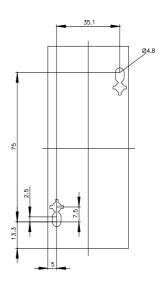
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax}}\underline{\text{de.aspx?mlfb=3RT2025-2KB40\&lang=en}}$

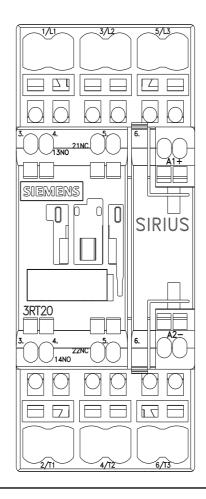
Further characteristics (e.g. electrical endurance, switching frequency)

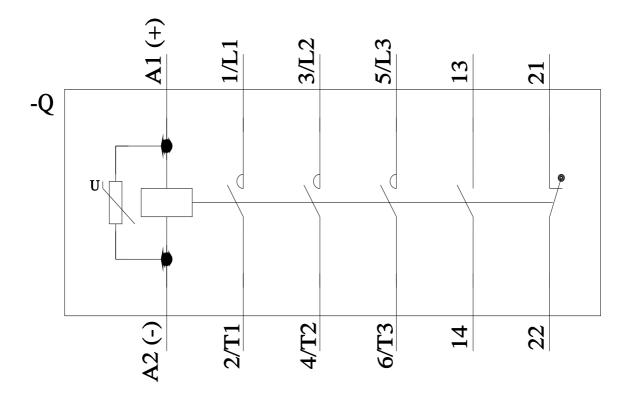
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-2KB40&objecttype=14&gridview=view1











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