SIEMENS

Data sheet 3RT2035-1KB40



power contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC, 24 V DC with varistor, 3-pole, Size S2, screw terminal Suitable for 2 A 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	6.6 W
• per pole	2.2 W
power loss [W] for rated value of the current without load current share typical	1 W
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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
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

operational current	20.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	60 A
rated value	00 A
— up to 690 V at ambient temperature 60 °C	55 A
rated 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-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	36.5 A
value	30.3 A
— up to 500 V for current peak value n=20 rated	36.5 A
value	
— up to 690 V for current peak value n=20 rated	24 A
value	
• at AC-6a	04.0.4
 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	24.2 A
value	
— up to 500 V for current peak value n=30 rated	24.2 A
value	
 up to 690 V for current peak value n=30 rated value 	24 A
minimum cross-section in main circuit at maximum AC-1	16 mm²
rated value	10 111111
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	
at 1 current path at DC-1 at 24 V and a larger	FF A
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A 0.4 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
with 2 current paths in series at DC-1	0.23 A
— at 24 V rated value	55 A
— at 110 V rated value	45 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	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
operational current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— 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 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 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
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 kV·A
 up to 400 V for current peak value n=20 rated value 	25.2 kV·A
 up to 500 V for current peak value n=20 rated value 	31.6 kV·A
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	9.6 kV·A
 up to 400 V for current peak value n=30 rated value 	16.8 kV·A
 up to 500 V for current peak value n=30 rated value 	21 kV·A
up to 690 V for current peak value n=30 rated value	28.6 kV·A
short-time withstand current in cold operating state	
up to 40 °C	040 A. Har mainimum ann a nathan ann ta A.O. 4 matadamha
limited to 1 s switching at zero current maximum	843 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 5 s switching at zero current maximum	596 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum	400 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	241 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1 500 1/h
• at DC	1 500 1/h
operating frequency	1.200.1/b
at AC 2 maximum	1 200 1/h 750 1/h
• at AC-2 maximum	
at AC-3 maximum at AC-4 maximum	1 000 1/h
at AC-4 maximum Control signific Control	300 1/h
Control circuit/ Control	DC
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 variator murab current peak 2.6 A		741
duration of incush current peak 50 ps locked-rotor current mean value 0.9 A locked-rotor current peak 2.1 A duration of locked-rotor current 230 ms holding power of magnet coil at DC 21.5 W holding power of magnet coil at DC 10 W closing delay at DC 35 80 ms opening of the switch operating mechanism 50 20 ms standard Ari - A2 Auxillary circuit		
Locked-rotor current mean value		
	-	·
duration of locked-votor current 290 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 coining delay at DC 35 80 ms opening delay at DC 30 55 ms arring time 10 20 ms control version of the switch operating mechanism Auxiliary circuit mumber of NC contacts for auxiliary contacts instantaneous contact instantaneous contact instantaneous contact instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-13 maximum 10 A operational current at AC-14 maximum 10 A operational current at AC-15 10 A at 200 V rated value 3 A at 300 V rated value 2 A at 800 V rated value 1 A operational current at DC-12 at 34 V rated value 6 A at 60 V rated value 6 A at 10 V rated value 3 A at 112 V rated value 3 A at 125 V rated value 3 A at 126 V rated value 3 A at 127 V rated value 2 A at 128 V rated value 3 A at 129 V rated value 3 A at 120 V rated value 2 A at 120 V rated value 2 A at 120 V rated value 0.15 A operational current at DC-13 at 24 V rated value 0.15 A at 26 V rated value 0.15 A operational current at DC-13 at 27 V rated value 0.14 A at 28 V rated value 0.15 A operational current at DC-13 at 28 V rated value 0.15 A at 30 V rated value 0.15 A operational current at DC-13 at 29 V rated value 0.14 A at 30 V rated value 0.15 A at 30 V rated value 0.15 A operational current at DC-13 at 30 V rated value 0.15 A at 30 V rated val		
Dodding current mean value	-	
Closing power of magnet coil at DC		
Notifing power of magnet coil at DC 1 W Closing delay at DC 35 80 ms		
Losing delay		
• at DC opening delay • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-13 maximum 10 A operational current at AC-14 maximum 10 A operational current at AC-15 • at 230 V rated value • at 6500 V rated value • at 6500 V rated value • at 680 V rated value • at 680 V rated value • at 680 V rated value • at 100 V rated value • at 110 V rated value • at 1220 V rated value • at 220 V rated value • at 320 V rated value • at 48 V rated value • at 57.5 hp • for sipple-phase AC motor • at 48 V rated value • at 57.5 hp • for sipple-phase AC motor • at 480 V rated value • at 57.5 hp • for sipple-phase AC motor • at 480 V rated value • at 57.5 hp • for sipple-phase AC motor • at 480 V rated value • at 57.5 hp • for sipple-phase AC motor • at 480 V rated value • at 57.5 hp • for sipple-phase A		_ 1 W
opening delay at DC arcing time control version of the switch operating mechanism Auxillary decruit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact 1 00 A 00 Operational current at AC-15 at 280 V rated value at 400 V rated value at 500 V rated value at 60 V rated value at 640 V rated value at 640 V rated value at 640 V rated value at 650 V rated value a		
■ at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-18 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 250 V rated value • at 110 V rated value • at 250 V rated value • at 110 V rated value • at 110 V rated value • at 24 V rated value • at 250 V rated value • at 360 V rated value • at 48 V rated value • at 600 V rated value • at		35 80 ms
arcing time		
Control version of the switch operating mechanism		
Auxiliary circuit		
number of NC contacts for auxillary contacts instantaneous contact		Standard A1 - A2
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 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 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 110 V rated value • at 125 V rated value • at		
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 60 V rated value • at 220 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 10 V rated value • at 20 V rated value • at 30 V rated value • at 200 V rated value • at 50 V rated value • at 50 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 50 V rated value • at 60 V rated va	instantaneous contact	
Operational current at AC-15 • at 230 V rated value	instantaneous contact	1
** at 230 V rated value	operational current at AC-12 maximum	10 A
at 400 V rated value at 500 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 10 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 160 V rated value at 220 V rated value at 220 V rated value at 160 V rated value at 160 V rated value at 17 V rated value at 18 V rated value at 18 V rated value at 18 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 20 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at	operational current at AC-15	
	• at 230 V rated value	
• at 690 V rated value 10 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 2 A • at 220 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 60 V rated value 1 A • at 60 V rated value 1 A • at 110 V rated value 1 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 120 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 220 V rated value 2 A • at 220 V rated value 3 A • at 600 V rated value 4 A • at 600 V rated value 4 A • at 600 V rated value 4 A • at 600 V rated value 7.5 hp • for single-phase AC motor 1 A • at 230 V rated value 7.5 hp • for 3-phase AC motor 1 A • at 220/230 V rated value 10 hp • at 220/230 V rated value 10 hp • at 220/230 V rated value 15 hp • at 375/600 V rated value 15 hp • at 460/480 V rated value 10 hp • at 375/500 V rated value 40 hp contact rating of auxiliary contacts according to UL contact rating of auxiliary contacts according to UL	• at 400 V rated value	3 A
Operational current at DC-12	• at 500 V rated value	
	at 690 V rated value	1 A
• at 48 V rated value	operational current at DC-12	
	at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value onto V rated value onto V rated value onto V rated value onto V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 34 N vated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 70 A A A A A A A A A A A A A A A A A A	at 48 V rated value	6 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 60 V rated value 1 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 122 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 600 V rated value 1 A • at 200 V rated V rate	at 60 V rated value	6 A
• at 220 V rated value • at 600 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 • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • 5 hp • for single-phase AC motor • at 110/120 V rated value • 7.5 hp • for 3-phase AC motor • at 220/230 V rated value • 10 hp • at 220/230 V rated value • 30 hp • at 600 V rated value • 30 hp • at 675/600 V rated value • 40 hp contact rating of auxiliary contacts according to UL A600 / P600	at 110 V rated value	3 A
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value i for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • 30 hp — at 575/600 V rated value 30 hp — at 575/600 V rated value 40 hp contact rating of auxiliary contacts according to UL A600 / P600	 at 125 V rated value 	
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 600 V rated value • for single-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 230 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor		
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 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 7 a 480 V rated value at 600 V rated value at 600 V rated value at 10/120 V rated value at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value A600 / P600 	•	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 10/120 V rated value at 110/120 V rated value at 230 V rated value at 230 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value at 7,5 hp contact rating of auxiliary contacts according to UL 		
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at 125 V rated value at 220 V rated value at 600 V rated value outland contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL accordance in the switching per 100 million (17 V, 1 mA) at 40 A 40 A 41 A 41 A 42 A 43 A 45 A 46 A 46 A 47 A 48 A 49 A 40 A 41 A 40 A 41 A 41 A 41 A 41 A 41 A 42 A 43 A 44 A 45 A 46 A 4	at 60 V rated value	
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value 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 at 575/600 V rated value 40 A 40 A 41 A		
at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) LICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 40 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 7.5 hp for 3-phase AC motor at 230 V rated value 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 at 575/600 V rated value 40 A 40 A 40 A 41 A		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) L/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 41 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value • 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 — at 575/600 V rated value 40 A 40 A 41 A		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 40 A • at 600 V rated value 41 A yielded mechanical performance [hp] • 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 / P600		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 41 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL 40 A 40 A 40 A 40 A 41 A 41 A		1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value A600 / P600 	UL/CSA ratings	
 at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value to hp — at 575/600 V rated value to hp A600 / P600 	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • 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 / P600		
 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 / P600 		41 A
 — at 110/120 V rated value — at 230 V rated value 5 hp for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value A600 / P600 		
— at 230 V rated value • 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 contact rating of auxiliary contacts according to UL 7.5 hp 10 hp 40 hp A600 / P600		
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— 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 / P600	·	
- 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 / P600		
— at 575/600 V rated value 40 hp contact rating of auxiliary contacts according to UL A600 / P600		
contact rating of auxiliary contacts according to UL A600 / P600		
Short-circuit protection		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	gG: 10 A (500 V, 1 kA)
required	
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 standard mounting 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
 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 or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
at AWG cables for main contacts	2x (18 2), 1x (18 1)
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)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross	
section	
	18 1
section	18 1 20 14

product function mirror contact acc. to IEC 60947-4-1	Yes
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function positively driven operation acc. to IEC 60947-5-1	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval









<u>KC</u>





Functional
Safety/Safety of
Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Confirmation

Further information

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=3RT2035-1KB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1KB40

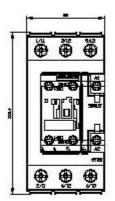
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

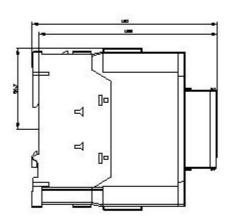
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1KB40

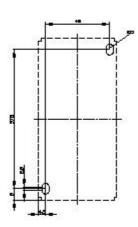
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

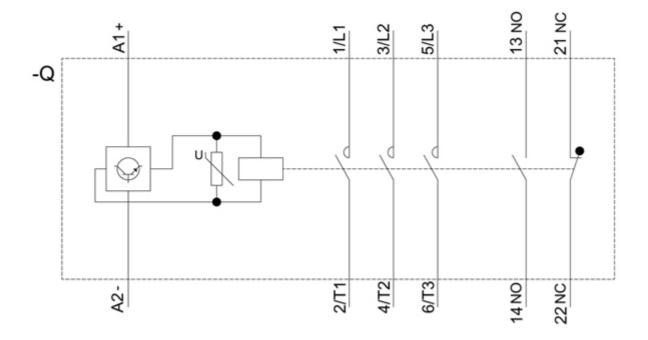
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-1KB40\&lang=en}$

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1KB40/char









last modified: 7/2/2021 🖸