3RT2015-1MB42-0KT0

Data sheet



power contactor, AC-3 7 A, 3 kW / 400 V 1 NC, 24 V DC 0.85- 1.85^{*} US, 3-pole, size S00, screw terminal not expandable with auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
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 	0.6 W
 at AC in hot operating state per pole 	0.2 W
 without load current share typical 	1.6 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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
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 	18 A
rated value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
at AC-4 at 400 V rated value	6.5 A
• at AC-5a up to 690 V rated value	15.8 A
	5.8 A
at AC-5b up to 400 V rated valueat AC-6a	0.0 A
— up to 230 V for current peak value n=20 rated	4 A
value — up to 400 V for current peak value n=20 rated	4 A
value — up to 500 V for current peak value n=20 rated	3.8 A
value — up to 690 V for current peak value n=20 rated	3.6 A
value • at AC-6a	
	274
up to 230 V for current peak value n=30 rated value	2.7 A
— up to 400 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1	2.5 mm²
rated value operational current for approx. 200000 operating	
cycles at AC-4	
• at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
 with 2 current paths in series at DC-1 	
-	15 A
— at 24 V rated value	
— at 24 V rated value — at 110 V rated value	8.4 A
	8.4 A 1.2 A
— at 110 V rated value— at 220 V rated value	1.2 A
— at 110 V rated value— at 220 V rated value— at 440 V rated value	1.2 A 0.6 A
— at 110 V rated value— at 220 V rated value	1.2 A

14401/	45.4
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	0.1 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	451111
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
• at AC-3e	4.5.134
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
• up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	1 kVA
 up to 400 V for current peak value n=30 rated value 	1.8 kVA
 up to 500 V for current peak value n=30 rated value 	2.2 kVA
 up to 690 V for current peak value n=30 rated value 	2.9 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 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

Second State Seco		_
Fills and value 1.85		
• fill-scale value 1.85 closing power of magnet coil at DC	_	0.05
Incompany		
act IDC		
## CIDC 25 120 ms 10 15		1.0 VV
action Summer S		25 120 mg
a cricing time		23 120 1113
arcing time		5 20 ms
Auxiliary circuit		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 690 V rated value • at 680 V rated value • at 125 V rated value • at 680 V rated value • at 68		
number of NC contacts for auxiliary contacts instantaneous contact	<u> </u>	
instantaneous contact operational current at AC-15 maximum		1
Operational current at AC-15		'
• at 230 V rated value • at 400 V rated value • at 690 V rated value • at 48 V rated value • at 100 V rated value • at 125 V rated value • at 125 V rated value • at 600 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 125 V rated value • at 200 V rated value • at 600 V rated value • at 675600 V rated value • at 675600 V rated value • 5 hp - at 2200/230 V rated value • 5 hp - at 2200/230 V rated value • 5 hp - at 675600 V rated value • 67 short-circuit protection of the main circuit • with type of coordination 1 required • for short-circuit protection of the auxiliary switch	operational current at AC-12 maximum	10 A
• at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 26 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 30 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 120 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 300 V rated value • at 480 V rated value • at 300 V rated value • at 500 V rated value • at 575/600 V	operational current at AC-15	
• at 500 V rated value	• at 230 V rated value	10 A
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 100 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 230 V rated value • at 24 V rated value • at 48 V rated value • at 25 V rated value • at 260 V rated value • at 27 V rated value • at 28 V rated value • at 48 V rated value • at 50 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 600	• at 400 V rated value	3 A
at 24 V rated value	• at 500 V rated value	2 A
at 24 V rated value	at 690 V rated value	1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 1125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 60 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 200 V rated value • at 230 V rated value • at 250 V rated value • at 575600 V rated value • at 575600 V rated value • at 575600 V rated value • at 757560 V rated val	operational current at DC-12	
	at 24 V rated value	10 A
• at 110 V rated value	at 48 V rated value	6 A
at 125 V rated value	at 60 V rated value	6 A
at 220 V rated value	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 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 110/120 V rated value • for short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliar	at 125 V rated value	
Operational current at DC-13 • at 24 V rated value	at 220 V rated value	
		0.15 A
 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 480 V rated value at 600 V rated value at 100 V rated value at 230 V rated value for single-phase AC motor at 200 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 220/230 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 460/480 V rated value bfp at 600 V rated value bfp at 600 V rated value bfp at 600 V rated value sfp do 75/600 V rated value shp strate of 600 V rated value shp shp strate of 600 V rated value shp strate of 600 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 480 V rated value ■ at 480 V rated value ■ at 600 V rated value ■ at 10/120 V rated value ■ at 220 V rated value ■ at 230 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 460/480 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ at 575/600 V rated value □ with type of coordination 1 required □ with type of coordination 1 required □ with type of assignment 2 required □ with type of assignment 2 required □ for short-circuit protection of the auxiliary switch □ for short-circuit protection of the auxiliary switch □ for short-circuit protection of the auxiliary switch □ with type of assignment 2 required □ at 200 (200 × 1 kA) □ at 200 (200		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.3 A ontact 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 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 at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value bhp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 10 A (500 V, 1 kA) 		
 at 125 V rated value at 220 V rated value 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 200 / 208 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 4575/600 V rated value by at 460/480 V rated value at 575/600 V rated value by at 4600 / Q600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) 		
 at 220 V rated value 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 220/208 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 600 V rated value for 3-phase AC motor at 220/230 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) 		
at 600 V rated value 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 at 600 V rated value for single-phase AC motor - at 110/120 V rated value of for 3-phase AC motor - at 230 V rated value of for 3-phase AC motor - at 200/208 V rated value of at 220/230 V rated value - at 460/480 V rated value - at 675/600 V rated value - at 575/600 V rated value of or 3-phase AC motor - at 7575/600 V rated value - at 675/600 V rated value of synthematics according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required of short-circuit protection of the auxiliary switch of or short-circuit protection of the auxiliary switch of of short-circuit protection of the auxiliary switch		
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 • at 600 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 — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 675/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 697/600		
### Contact rating of auxiliary contacts according to UL Short-circuit protection ### degree of short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required ### A8 A ### 4.8 A ### 4.8 A ### 4.8 A ### 6.1 A #		
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 • at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value		r laulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value o.25 hp at 230 V rated value o.75 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 bhp at 575/600 V rated value bhp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) 		
at 600 V rated value yielded mechanical performance [hp] o for single-phase AC motor — at 110/120 V rated value — at 230 V rated value o 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 — at 575/600 V rated value — at 575/600 V rated value Ondact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link o for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required of or short-circuit protection of the auxiliary switch		4 O 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 — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch		
for single-phase AC motor — at 110/120 V rated value — at 230 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 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value		U.TA
- 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 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link ● for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required ● for short-circuit protection of the auxiliary switch ■ for short-circuit protection of the auxiliary switch 		0.25 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 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) 		·
- at 220/230 V rated value - at 220/230 V rated value 2 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required • for short-circuit protection of the auxiliary switch for short-circuit protection of the auxiliary switch gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA)		0.7 O TIP
- at 220/230 V rated value - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch 2 hp 3 hp 4600 / Q600 A600 / Q600 Short-circuit protection Ge: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) Ge: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) ge: 10 A (500 V, 1 kA)	•	1.5 hp
- at 460/480 V rated value - at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch 3 hp 5 hp A600 / Q600 Short-circuit protection Ge: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) ge: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) ge: 10 A (500 V, 1 kA)		·
- at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)		
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch • for short-circuit protection of the auxiliary switch A600 / Q600 A600 / Q600 GG: 35A (690 V, 100 kA), aM: 20A (690 V, 100 kA), BS88: 35A (415 V, 80 kA) GG: 20A (690 V, 100 kA), aM: 16A (690 V, 100 kA), BS88: 20A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch GG: 10 A (500 V, 1 kA)		
design of the fuse link ● for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required ● for short-circuit protection of the auxiliary switch — with type of assignment 2 required GG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA)		
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA)		
 for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) 		
 with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) gG: 10 A (500 V, 1 kA) 		
— with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)		gG: 35A (690V,100kA), aM: 20A (690V,100kA). BS88: 35A (415V.80kA)
		gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
	 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
fastening method	forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
• side-by-side mounting	Yes
height	58 mm
width	45 mm
depth	73 mm
required spacing	70 11111
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	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for main contacts	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main	
contacts	0.5 4 mm²
solid stranded	0.5 4 mm² 0.5 4 mm²
	0.5 2.5 mm ²
finely stranded with core end processing connectable conductor cross-section for auxiliary	0.0 4.0 IIIIII
contacts	
solid or stranded	0.5 4 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), 2x 4 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), 2x 12
AWG number as coded connectable conductor cross section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	
	Yes
 mirror contact according to IEC 60947-4-1 	
mirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920	1 000 000
	1 000 000

 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 y
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	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>





Type Examination **Certificate**





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Marine / Shipping













Marine / Shipping other Railway **Dangerous Good**



Confirmation



Vibration and Shock

Transport 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=3RT2015-1MB42-0KT0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2015-1MB42-0KT0}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1MB42-0KT0

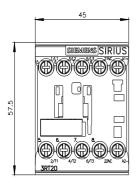
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

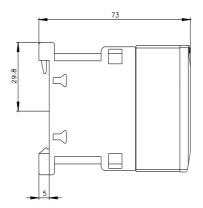
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1MB42-0KT0&lang=en

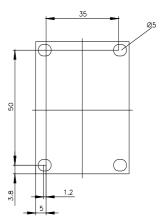
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1MB42-0KT0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1MB42-0KT0&objecttype=14&gridview=view1







last modified: 6/2/2022 🖸