3RT1066-2XB46-0LA2

Data sheet



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, Uc: 24 V DC x (0.7-1.25) PLC input 24-110 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded terminal extended rated condition railroad IEC 60077

product brand name	SIRIUS
product designation	Power contactor
design of the product	With extended operating range
product type designation	3RT1
General technical data	
size of contactor	S10
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 	66 W
 at AC in hot operating state per pole 	22 W
 without load current share typical 	3.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance for railway applications according to EN 61373	Category 1, Class B
shock resistance at rectangular impulse	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 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)	09/06/2016
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °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
number of NC contacts for main contacts	0
operating voltage	4.000 \/
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
at AC-2 at 400 V rated valueat AC-3	300 A
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	280 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	185 mm²
at maximum Ith rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	125 A
at 690 V rated value	115 A
at 1 current path at DC-1	
at 1 current path at DC-1 at 24 V rated value	300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value	33 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value	33 A 3.8 A
 at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value 	33 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value	33 A 3.8 A
 at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	33 A 3.8 A 0.9 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value	33 A 3.8 A 0.9 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1	33 A 3.8 A 0.9 A 0.6 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value	33 A 3.8 A 0.9 A 0.6 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 220 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 240 V rated value at 340 V rated value at 600 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 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 with 3 current paths in series at DC-1	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A
 at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value with 3 current paths in series at DC-1 at 24 V rated value 	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A
 at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value • at 110 V rated value — at 110 V rated value 	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 420 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 110 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 220 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 110 V rated value at 24 V rated value at 110 V rated value at 140 V rated value at 440 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 140 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A 300 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 110 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 140 V rated value at 110 V rated value at 220 V rated value at 240 V rated value at 300 V rated value at 440 V rated value at 100 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 31 A
at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 440 V rated value at 600 V rated value at 110 V rated value at 24 V rated value at 110 V rated value at 110 V rated value at 120 V rated value at 220 V rated value at 440 V rated value at 220 V rated value at 220 V rated value at 440 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	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A
 at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 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 440 V rated value — at 440 V rated value — at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 140 V rated value — at 140 V rated value — at 220 V rated value — at 440 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 0.6 A 0.18 A
- at 24 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value • with 2 current paths in series at DC-1 - at 24 V rated value - at 110 V rated value - at 220 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 110 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 240 V rated value - at 100 V rated value - at 100 V rated value - at 100 V rated value - at 24 V rated value - at 250 V rated value - at 250 V rated value	33 A 3.8 A 0.9 A 0.6 A 300 A 300 A 300 A 4 A 2 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A 300 A

— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
 at AC-2 at 400 V rated value 	160 kW
• at AC-3	
— at 230 V rated value	97 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	97 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	71 kW
at 690 V rated value	112 kW
short-time withstand current in cold operating state up to 40 °C	
Iimited to 1 s switching at zero current maximum	5 524 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 1 s switching at zero current maximum	4 579 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10 s switching at zero current maximum	3 153 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10's switching at zero current maximum Ilmited to 30's switching at zero current maximum	1 883 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 50 s switching at zero current maximum	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	1 440 A, OSC Milliminum Gloss-Scotlon acc. to AO-1 rated value
• at DC	700 1/h
operating frequency	700 m
• at AC-1 maximum	700 1/h
• at AC-2 maximum	250 1/h
at AC-3 maximum	500 1/h
at AC-3 maximum at AC-3e maximum	500 1/h
at AC-3e maximum at AC-2 at AC-3e maximum	250 1/h
at AC-2 at AC-3e maximum at AC-4 maximum	130 1/h
	130 1/11
operating frequency	350 1/h
at DC-1 maximum at DC-3 maximum	
	250 1/h
at DC-5 maximum Petings for rejlyon applications	250 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	220 A
up to 40 °C according to IEC 60077 rated value value 70 °C according to IEC 60077 rated value	330 A
up to 70 °C according to IEC 60077 rated value Control significations	265 A
Control circuit/ Control	DO
type of voltage	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	0.7
full-scale value	1.25
consumed current at PLC-control input according to IEC	2 mA
60947-1 maximum	

voltage at PLC-control input design of the surgle suppressor with variation closing power of magnet coil at DC so W sholding power of magnet coil at DC so W so W set DC opening delay at DC set DC	veltage at DLC control in the	24 440 V		
Cleasing power of magnet cell at DC				
Inciding power of magnet coll at DC 45 80 ms				
A				
# # ID C		3.4 VV		
opening delay a + al DC 80 100 ms arcing time 100 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable)e Number of NC contacts for auxiliary contacts 2 a instandamento contact 2 operational current at AC-15 2 a it 230 V rated value 3A a it 300 V rated value 3A a it 300 V rated value 4A a it 300 V rated value 6A a it 300 V rated value 6A a it 300 V rated value 6A a it 310 V rated value 1A a it 22 V rated value 1A a it 22 V rated value 1A a it 22 V rated value 2A a it 300 V rated value 3A a it 300 V rated value 3A a it 300 V rate		4F 00 ma		
## ID C		45 80 IIIS		
		00 400		
Number of NC contacts for auxiliary contacts 2 2 2 2 2 2 2 2 2				
mumber of NC contacts for auxiliary contacts 2		1 EO-IN 01 Statituaru AT - AZ (aujustable)		
mumber of NO contacts for auxiliary contacts 2		2		
### Description Contacts for auxillary contacts 2 # Instantaneous contact 2 # Instantaneous contact 2 # Operational current at AC-15 # Instantaneous contact 30 # Inst	-			
• instantaneous contact 2 operational current at AC-12 maximum 10 A • at 230 V rated value 6 A 6 A • at 230 V rated value 2 A • at 500 V rated value 2 A • at 500 V rated value 10 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 6 A • at 125 V rated value 6 A • at 125 V rated value 1 A • at 220 V rated value 2 A • at 125 V rated value 2 A • at 125 V rated value 2 A • at 126 V rated value 2 A • at 127 V rated value 2 A • at 128 V rated value 2 A • at 128 V rated value 2 A • at 129 V rated value 2 A • at 120 V rated value 2 A • at 220 V rated value 2 A • at 480 V rated value 289 A yielded mechanical performance [tp] • for 3-phase AC motor 289 A yielded mechanical performance [tp] • for 5-phase AC motor 280 A or 3-phase AC mot				
operational current at AC-12 maximum 0 A operational current at AC-15 6 A • at 230 V rated value 3 A • at 550 V rated value 10 A • at 24 V rated value 10 A • at 24 V rated value 6 A • at 80 V rated value 6 A • at 10 V rated value 3 A • at 12 V rated value 1 A • at 12 V rated value 1 A • at 22 V rated value 1 A • at 22 V rated value 1 A • at 24 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 2 A • at 12 V rated value 0.9 A • at 22 V rated value 0.9 A • at 220 V rated value 0.9 A • at 80 V rated value 0.9 A • at 80 V rated value 20 A • at 80 V rated value 20 A • at 800 V rated value 20 A • at 200				
• at 230 V rated value				
• at 230 V rated value				
	•	6 A		
• at 500 V rated value				
0				
• at 24 V rated value				
• at 60 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	• at 125 V rated value	2 A		
operational current at DC-13 at 24 V rated value 6 A at 14 8 V rated value 2 A at 10 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 220 V rated value 0.1 A ULCSA ratings full-load current (FLA) for 3-phase AC motor 302 A at 480 V rated value 302 A at 600 V rated value 289 A yielded mechanical performance [hp] 6 or 3-phase AC motor — at 200/208 V rated value 100 hp — at 220/230 V rated value 125 hp — at 460/480 V rated value 300 hp — at 460/480 V rated value 300 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection No design of the fuse link Ges 500 A (690 V, 100 kA) — with type of coordination 1 required GCs 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) — for short-circuit protection of the auxiliary switch required GCs 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	at 220 V rated value	1 A		
	• at 600 V rated value	0.15 A		
	operational current at DC-13			
at 160 V rated value at 1110 V rated value at 125 V rated value 0.9 A at 125 V rated value 0.3 A at 600 V rated value 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 289 A yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value 100 hp at 200/208 V rated value 125 hp at 460/480 V rated value 250 hp at 460/480 V rated value 250 hp at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required for short-circuit protection of the auxiliary switch required with vertical mounting surface +/-90° rotatable, with vertical mounting surface fastening method side-by-side mounting Yes	at 24 V rated value	6 A		
• 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 600 V rated value • at 480 V rated value • at 600 V rated value • at 200/208 V rated value • for 3-phase AC motor - at 200/208 V rated value 100 hp - at 220/230 V rated value 125 hp - at 575/600 V rated value 250 hp - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required 9G: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface +/- 22.5* tiltable to the front and back • side-by-side mounting	• at 48 V rated value	2 A		
• at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor • at 220/230 V rated value • at 600480 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 575/600 V rated value • at 600 V rated value • 250 hp • at 460/480 V rated value • 250 hp • at 575/600 V rated value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection • for short-circuit protection of the main circuit • with type of coordination 1 required • for short-circuit protection of the main circuit with type of assignment 2 required for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90* rotatable, with vertical mounting surface +/- 22.5* tiltable to the front and back screw fixing ves	at 60 V rated value	2 A		
at 220 V rated value at 600 V rated value 0.3 A 0.1 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 302 A at 600 V rated value 289 A yielded mechanical performance [hp] at 600 V rated value 100 hp at 220/230 V rated value 100 hp at 220/230 V rated value 250 hp at 60/480 V rated value 250 hp at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link after 50 or 3-phase AC motor A600 / Q600 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 required for short-circuit protection of the auxiliary switch required with type of assignment 2 required and 0.4690 V, 100 kA) for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required with vertical mounting surface +/-90° rotatable, with vertical mounting surface 4-/-22.5° tiltable to the front and back screw fixing Yes	• at 110 V rated value	1 A		
• at 600 V rated value DU/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 289 A yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value 100 hp — at 220/230 V rated value 125 hp — at 460/480 V rated value 250 hp — at 475/600 V rated value 250 hp — at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL 8hort-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required 9G: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required 9G: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes	• at 125 V rated value	0.9 A		
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 • at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460480 V rated value — at 475/600 V rated value — at 575/600 V rated value 250 hp — at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection 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 required of or short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing ves	at 220 V rated value	0.3 A		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value 289 A yielded mechanical performance [hp] • for 3-phase AC motor — at 220/208 V rated value — at 220/208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value 250 hp — at 575/600 V rated value 250 hp — ot 475/600 V rated value 260 hp — ot 575/600 V rated value 270 hp Contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection for short-circuit protection of the main circuit — 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 required product function short circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required product function short circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) product function of the auxiliary switch required gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface 4/- 22.5° tiltable to the front and back screw fixing yes	at 600 V rated value	0.1 A		
at 480 V rated value at 600 V rated value 289 A yielded mechanical performance [hp] of or 3-phase AC motor				
• at 600 V rated value yielded mechanical performance [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 460/480 V rated value — at 575/600 V rated value — at 600 / Q600 Short-circuit protection product function short circuit protection product function short circuit protection of 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 required of short-circuit protection of the auxiliary switch required pfor short-circuit protection of the auxiliary switch required of short-circuit protection of the auxiliary switch required pfor short-circuit protection of the auxiliary switch required with type of assignment 2 required of short-circuit protection of the auxiliary switch required with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing of side-by-side mounting Yes				
yielded mechanical performance [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 — at 575/600 V rated value — at 600 / Q600 Short-circuit protection product function short circuit protection product function short circuit protection 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 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Side-by-side mounting With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back Side-by-side mounting Yes				
• 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 Contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection No 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 — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes		289 A		
- 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				
- at 220/230 V rated value - at 460/480 V rated value 250 hp - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function short circuit protection No design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes	•	400 hr		
- at 460/480 V rated value - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection No 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 required of the fuse link with type of assignment 2 required of the fuse link gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) of the fuse link with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method of side-by-side mounting of the fuse link with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back		·		
- at 575/600 V rated value contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection product function 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 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes		·		
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product function 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 required • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing • side-by-side mounting Yes		A000 / Q000		
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• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes				
Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting Yes	with type of assignment 2 required			
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing ◆ side-by-side mounting Yes	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)		
+/- 22.5° tiltable to the front and back fastening method screw fixing ◆ side-by-side mounting Yes	Installation/ mounting/ dimensions			
• side-by-side mounting Yes	mounting position			
	fastening method	screw fixing		
height 210 mm	side-by-side mounting	Yes		
	height	210 mm		

width	145 mm		
depth	202 mm		
required spacing			
with side-by-side mounting			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
for grounded parts			
— forwards	20 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			
— forwards	20 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/ Terminals			
type of electrical connection			
for main current circuit	screw-type terminals		
for auxiliary and control circuit	spring-loaded terminals		
width of connection bar	25 mm		
thickness of connection bar	6 mm		
diameter of holes	11 mm		
number of holes	1		
type of connectable conductor cross-sections for main contacts			
solid or stranded	2x (70 240 mm²)		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid	2x (0.25 2.5 mm²)		
— solid or stranded	2x (0,25 2,5 mm²)		
 finely stranded with core end processing 	2x (0.25 1.5 mm²)		
 finely stranded without core end processing 	2x (0.25 2.5 mm²)		
for AWG cables for auxiliary contacts	2x (24 14)		
AWG number as coded connectable conductor cross section			
for auxiliary contacts	24 14		
Safety related data			
product function			
 mirror contact according to IEC 60947-4-1 	Yes		
 positively driven operation according to IEC 60947-5-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		
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	IP00; IP20 with box terminal/cover		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover		
Communication/ Protocol			
product function bus communication	No		
Certificates/ approvals			
General Product Approval			





Confirmation



<u>KC</u>



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





Type Test Certificates/Test Report

Special Test Certificate

other			Railway		
<u>Miscellaneous</u>	Confirmation	<u>Miscellaneous</u>	Special Test Certific-	Vibration and Shock	Type Test Certificates/Test Report

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=3RT1066-2XB46-0LA2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-2XB46-0LA2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2XB46-0LA2

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

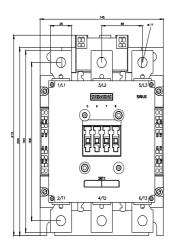
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-2XB46-0LA2&lang=en

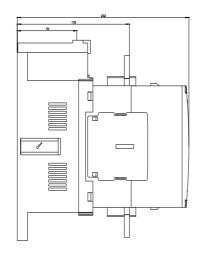
Characteristic: Tripping characteristics, I²t, Let-through current

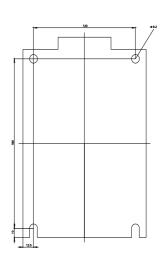
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2XB46-0LA2/char

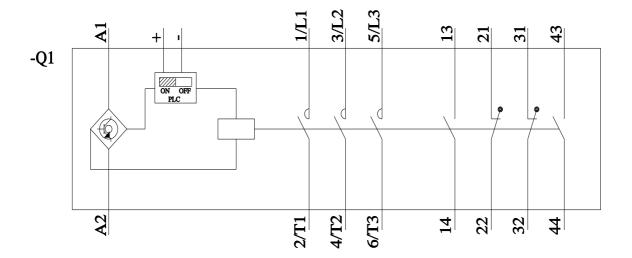
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-2XB46-0LA2&objecttype=14&gridview=view1









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