SIEMENS

Data sheet 3RT1066-2AF36



Power contactor, AC-3 300 A, 160 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional Spring-type terminal

product brand name	SIRIUS	
product designation	Power contactor	
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	
• per pole	22 W	
power loss [W] for rated value of the current without load current share typical	7.4 W	
surge voltage resistance		
 of main circuit rated value 	8 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V	
shock resistance at rectangular impulse		
• at AC	8,5g / 5 ms, 4,2g / 10 ms	
at DC	8,5g / 5 ms, 4,2g / 10 ms	
shock resistance with sine pulse		
• at AC	13,4g / 5 ms, 6,5g / 10 ms	
• at DC	13,4g / 5 ms, 6,5g / 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)	01.05.2012 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	
relative humidity minimum	10 %	
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %	

maximum	
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	1 000 V
operational current	000 A
 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 40 °C rated value 	150 A
 up to 1000 V at ambient temperature 60 °C rated value at AC-3 	150 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-4 at 400 V rated value	280 A
at AC-5a up to 690 V rated value	290 A
• at AC-5b up to 400 V rated value	249 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	292 A
 up to 400 V for current peak value n=20 rated value 	292 A
 up to 500 V for current peak value n=20 rated value 	292 A
 up to 690 V for current peak value n=20 rated value 	280 A
 up to 1000 V for current peak value n=20 rated value 	95 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	195 A
 up to 400 V for current peak value n=30 rated value 	195 A
— up to 500 V for current peak value n=30 rated value	195 A
— up to 690 V for current peak value n=30 rated value	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	185 mm²
cycles at AC-4	
at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— 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 4 A - at 600 V rated value 2 A • with 3 current paths in series at DC-1 - 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 300 A - at 600 V rated value 11 A - at 600 V rated value 5.2 A operational current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 300 A - at 110 V rated value 300 A - at 110 V rated value 300 A - at 110 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 30 A - at 220 V rated value 30 A - at 440 V rated value 30 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 300 A - at 440 V rated value 300 A - at 440 V rated value 300 A - at 440 V rated value 300 A - at 220 V rated value 300 A - at 220 V rated value 300 A - at 440 V rated value 90 KW	
- at 440 V rated value	
at 440 V rated value 2 A at 600 V rated value 2 A ■ with 3 current paths in series at DC-1 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 11 A at 600 V rated value 5.2 A operational current ■ at 1 current path at DC-3 at DC-5 at 24 V rated value 30 A at 410 V rated value 30 A at 220 V rated value 30 A at 220 V rated value 30 A at 440 V rated value 30 A at 440 V rated value 30 A at 440 V rated value 30 A at 24 V rated value 30 A at 24 V rated value 300 A at 24 V rated value 300 A at 24 V rated value 300 A at 220 V rated value 300 A at 24 V rated value 300 A at 440 V rated value 300 A at 220 V rated value 300 A at 24 V rated value 300 A at 24 V rated value 300 A at 24 V rated value 300 A at 440 V rated value 300 A at 440 V rated value 300 A at 440 V rated value 300 A at 24 V rated value 300 A at 24 V rated value 300 A at 440 V rated value 300 A at 440 V rated value 300 A at 220 V rated value 300 A at 440 V rated value 300 A	
 — 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 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 11 D V rated value — at 600 V rated value — at 11 Current path at DC-3 at DC-5 — at 24 V rated value — at 210 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 440 V rated value	
 with 3 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 — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 1 10 V rated value — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 20 V rated value — at 20 V rated value — at 300 A — at 440 V rated value — at 400 V rated value — at 20 V rated value — at 440 V rated value — a	
- at 24 V rated value - at 110 V rated value 300 A 300 A - at 220 V rated value 300 A - at 440 V rated value - at 600 V rated value 5.2 A operational current	
- 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 1 current	
at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 100 V rated value • at 1 current path at DC-3 at DC-5 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 24 V rated value at 25 A at 24 V rated value at 20 V rated value at 20 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 24 V rated value at 25 A at 24 V rated value at 300 A at 24 V rated value at 300 A at 24 V rated value at 440 V rated value	
— at 600 V rated value 5.2 A operational current ● at 1 current path at DC-3 at DC-5 — at 24 V rated value 300 A — at 110 V rated value 0.6 A — at 440 V rated value 0.18 A — at 600 V rated value 0.125 A ● with 2 current paths in series at DC-3 at DC-5 300 A — at 24 V rated value 300 A — at 110 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-5 300 A — 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 300 A — at 600 V rated value 1.4 A — at 600 V rated value 0.75 A Operating power at AC-3	
operational current • at 1 current path at DC-3 at DC-5 — at 24 V rated value	
 at 1 current path at DC-3 at DC-5 at 24 V rated value at 110 V rated value at 220 V rated value 0.6 A at 440 V rated value at 600 V rated value with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 300 A 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 24 V rated value 300 A with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 300 A at 220 V rated value 300 A at 220 V rated value 300 A at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value operating power at AC-3 	
- at 24 V rated value - at 110 V rated value 3 A - at 220 V rated value 0.6 A - at 440 V rated value 0.125 A ■ with 2 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 220 V rated value 300 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 220 V rated value 300 A - at 440 V rated value 300 A - at 440 V rated value 300 A - at 110 V rated value 300 A - at 110 V rated value 300 A - at 440 V rated value 300 A - at 440 V rated value 300 A - at 600 V rated value 300 A - at 440 V rated value 300 A	
- at 110 V rated value - at 220 V rated value 0.6 A 0.18 A 0.125 A ■ with 2 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 120 V rated value 300 A - at 220 V rated value 2.5 A - at 440 V rated value 30.65 A - at 600 V rated value 300 A ■ with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 300 A	
 — at 220 V rated value — at 440 V rated value — at 600 V rated value ● with 2 current paths in series at DC-3 at DC-5 — 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 110 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 — at 600 V rated value — at 600 V rated value — at AC-3 	
 — at 440 V rated value — at 600 V rated value ● with 2 current paths in series at DC-3 at DC-5 — 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-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 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 ● with 2 current paths in series at DC-3 at DC-5 — 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-3 at DC-5 — 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 440 V rated value — at 600 V rated value 	
 with 2 current paths in series at DC-3 at DC-5 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-3 at DC-5 at 24 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value operating power at AC-3 	
 — 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-3 at DC-5 — 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 — at AC-3 	
 — 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-3 at DC-5 — 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 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-3	
 — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 — 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 AC-3 	
— at 600 V rated value • 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-3	
 with 3 current paths in series at DC-3 at DC-5 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 operating power at AC-3 	
— 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-3	
— 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-3	
— 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-3	
— at 440 V rated value 1.4 A — at 600 V rated value 0.75 A operating power ■ at AC-3	
— at 600 V rated value 0.75 A operating power ● at AC-3	
operating power • at AC-3	
• at AC-3	
— at 690 V rated value— at 1000 V rated value132 kW	
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value 71 kW at 600 V rated value	
• at 690 V rated value 112 kW	
operating apparent power at AC-6a ■ up to 230 V for current peak value n=20 rated value 110 000 kV·A	
• up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value 200 000 V·A	
• up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value 250 000 V·A	
• up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value 330 000 V·A	
• up to 1000 V for current peak value n=20 rated • up to 1000 V for current peak value n=20 rated 160 000 V·A	
value	
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value 70 000 V·A	
• up to 400 V for current peak value n=30 rated value 130 000 V·A	
• up to 500 V for current peak value n=30 rated value 160 000 V·A	
• up to 690 V for current peak value n=30 rated value 230 000 V·A	
 up to 1000 V for current peak value n=30 rated 160 000 V⋅A value 	
short-time withstand current in cold operating state up to 40 °C	
• limited to 1 s switching at zero current maximum 5 524 A; Use minimum cross-se	
• limited to 5 s switching at zero current maximum 4 579 A; Use minimum cross-se	ection acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum 3 153 A; Use minimum cross-se	

 limited to 30 s switching at zero current maximum 	1 883 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	110 127 V
at 60 Hz rated value	110 127 V
control supply voltage at DC	
• rated value	110 127 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
● at 50 Hz	590 V·A
● at 60 Hz	590 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
● at 50 Hz	6.7 V·A
• at 60 Hz	6.7 V·A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
● at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A

at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
at 110 V rated value	3 A
at 175 V rated value at 125 V rated value	2 A
at 220 V rated value at 220 V rated value	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
 at 48 V rated value 	2 A
 at 60 V rated value 	2 A
 at 110 V rated value 	1 A
 at 125 V rated value 	0.9 A
 at 220 V rated value 	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
	302 A
• at 480 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 575/600 V rated value 	300 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / Q600
Short-circuit protection	A600 / Q600
Short-circuit protection design of the fuse link	A600 / Q600
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	
Short-circuit protection 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)
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	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
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: 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)
Short-circuit protection 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) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415
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	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)
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 Installation/ mounting/ dimensions	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) gG: 10 A (500 V, 1 kA)
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	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)
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 Installation/ mounting/ dimensions	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
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 Installation/ mounting/ dimensions mounting position	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
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 Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	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) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm
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— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	10 111111
width of connection bar	QE man
	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of electrical connection	Connection has
for main current circuit for applications and control circuit	Connection bar
for auxiliary and control circuit	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	2/0
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.25 2.5 mm²
 finely stranded with core end processing 	0.25 1.5 mm²
 finely stranded without core end processing 	0.25 2.5 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)
at 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 acc. to IEC 60947-4-1	Yes
B10 value with high demand rate acc. to SN 31920	1 000 000
product function positively driven operation acc. to IEC 60947-5-1	No
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
suitability for use	
 safety-related switching OFF 	Yes
Certificates/ approvals	

General Product Approval

EMC







<u>KC</u>





Functional Safety/Safety of Machinery

Test Certificates

Marine / Shipping

Type Examination Certificate

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

Type Test Certificates/Test Report







other Railway

Special Test Certific-Miscellaneous Confirmation Confirmation **Miscellaneous** <u>ate</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2AF36

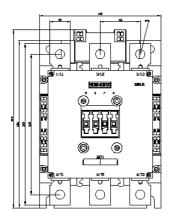
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

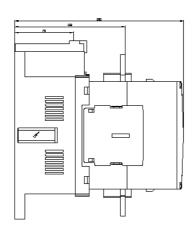
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-2AF36&lang=en

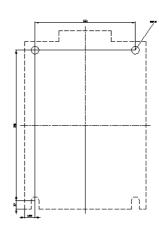
Characteristic: Tripping characteristics, I2t, Let-through current

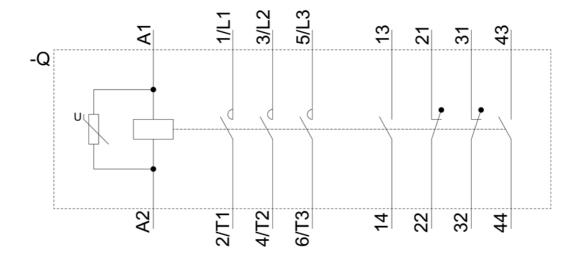
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2AF36/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-2AF36&objecttype=14&gridview=view1









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