SIEMENS

Data sheet 3RT1056-2AF36



power contactor, AC-3e/AC-3 185 A, 90 kW / 400 V AC (50-60 Hz) / DC Uc: 110-127 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: spring-loaded terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S6
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 	39 W
 at AC in hot operating state per pole 	13 W
 without load current share typical 	5.2 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 safe isolation between coil and main contacts according 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 (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)	05/01/2012
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	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 	215 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	215 A
 — up to 690 V at ambient temperature 60 °C rated value 	185 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	40F A
— at 400 V rated value	185 A
— at 500 V rated value	185 A
— at 690 V rated value	170 A
— at 1000 V rated value ● at AC-3e	65 A
at AC-3e — at 400 V rated value	185 A
— at 400 V rated value — at 500 V rated value	185 A 185 A
— at 500 V rated value — at 690 V rated value	185 A 170 A
— at 1000 V rated value — at 1000 V rated value	65 A
at AC-4 at 400 V rated value	160 A
at AC-5a up to 690 V rated value	189 A
at AC-5b up to 400 V rated value	153 A
• at AC-6a	100 / 1
— up to 230 V for current peak value n=20 rated	157 A
value — up to 400 V for current peak value n=20 rated	157 A
value — up to 500 V for current peak value n=20 rated	157 A
value — up to 690 V for current peak value n=20 rated	157 A
value — up to 1000 V for current peak value n=20 rated	65 A
value	
at AC-6a — up to 230 V for current peak value n=30 rated	105 A
value — up to 400 V for current peak value n=30 rated value	105 A
 up to 500 V for current peak value n=30 rated value 	105 A
— up to 690 V for current peak value n=30 rated value	105 A
— up to 1000 V for current peak value n=30 rated value	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	81 A
at 690 V rated value	65 A
operational current	
• at 1 current path at DC-1	400 A
— at 24 V rated value	160 A
— at 60 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A 0.8 A
— at 440 V rated value	0.5 A
— at 600 V rated value	U.J A

• with 2 current paths in series at DC-1 — at 260 V rated value — at 160 V rated value — at 1200 V rated value — at 420 V rated value — at 420 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 160 V rated value — at 160 V rated value — at 160 V rated value — at 200 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 3 Courrent path at DC-3 at DC-5 — at 24 V rated value — at 400 V rated value — at 400 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 600 V r
• with 3 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 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 220 V rated value — at 220 V rated value — at 220 V rated value — at 230 V rated value — at 240 V rated value — at 250 V rated value — at 600 V rated value — at
at 110 V rated value 160 A 11.5 A at 220 V rated value 17.5 A at 600 V rated value 17.5 A at 600 V rated value 18.5 A at 600 V rated value 18.5 A at 600 V rated value 7.5 A at 600 V rated value 9.6 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 24 V rated value 9.1 A 7.5 A at 24 V rated value 9.1 A 7.5 A at 24 V rated value 9.1 A 7.5 A at 220 V rated value 9.1 A 7.5 A at 220 V rated value 9.1 A 7.5 A at 220 V rated value 9.1 A 7.5 A at 220 V rated value 9.1 A 7.5 A at 220 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A at 600 V rated value 9.1 A 7.5 A 9.1 A 7.5
■ at 1 current path at DC-3 at DC-5 ■ at 24 V rated value ■ at 600 V rated value ■ at 800 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 ■ at 600 V rated value ■ at 100 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 800 V rated value ■ at 400 V rated value ■ at 800 V rated value
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 220 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 • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 120 V rated value — at 220 V rated value — at 220 V rated value — at 240 V rated value — at 25 A — at 440 V rated value — at 260 V rated value — at 27 V rated value — at 280 V rated value — at 290 V rated value — at 200 V rated value — at 300 V rated value — at 600 V rated value — at 200 V rated value — at 500 V rated value — at 300 V rated value — at 400 V rated value — at 600 V rated valu
at 24 V rated value 7.5 A at 600 V rated value 0.6 A at 440 V rated value 0.17 A at 440 V rated value 0.17 A at 440 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 160 A at 600 V rated value 160 A at 600 V rated value 160 A at 110 V rated value 160 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 160 A at 600 V rated value 160 A at 110 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 160 A at 440 V rated value 170 A at 220 V rated value 170 A at 600 V rated Va
at 60 V rated value
- at 220 V rated value
- at 440 V rated value
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 660 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value — at 400 V rated value — at 300 V rated value — at 400 V rated value — at 1000 V rated value — at 1000 V rated value — at 300 V rated value — at 400 V rated value — at 400 V rated value — at 300 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value
- at 24 V rated value 160 A 160 A 160 A 160 A 160 V rated value 160 A 160 V rated value 160 A 170 V rated value 2.5 A 170 V rated value 2.5 A 170 V rated value 1.65 A 170 V rated value 160 A 170 V rated value 170 V rate
- at 60 V rated value 160 A - at 110 V rated value 2.5 A - at 220 V rated value 0.65 A - at 440 V rated value 0.65 A - at 600 V rated value 0.3.7 A ■ with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 60 V rated value 160 A - at 110 V rated value 160 A - at 110 V rated value 160 A - at 440 V rated value 160 A - at 440 V rated value 160 A - at 440 V rated value 0.75 A Operating power ■ at AC-3 - at 230 V rated value 90 kW - at 400 V rated value 132 kW - at 690 V rated value 90 kW ■ at 500 V rated value 90 kW ■ at 1000 V rated value 90 kW ■ at 40-3e - at 230 V rated value 90 kW - at 500 V rated value 90 kW ■ at 400 V rated value 90 kW ■ at 1000 V rated value 90 kW ■ at 400 V rated value 90 kW ■ at 1000 V rated value 90 kW ■ at 300 V rated value 90 kW ■ at 300 V rated value 90 kW ■ at 400 V rated value 90 kW ■ at 400 V rated value 90 kW ■ at 400 V rated value 90 kW ■ at 690 V rated value 65 kW ■ at 690 V rated value 65 kW
- at 110 V rated value
at 220 V rated value
- 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 160 A - at 60 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 1760 A - at 440 V rated value 175 A - at 230 V rated value 175 A operating power ● at AC-3 - at 230 V rated value 90 kW - at 500 V rated value 132 kW - at 690 V rated value 90 kW ● at AC-3e - at 230 V rated value 90 kW - at 1000 V rated value 90 kW - at 1000 V rated value 90 kW - at 400 V rated value 160 kW - at 1000 V rated value 90 kW ● at AC-3e - at 230 V rated value 90 kW - at 500 V rated value 90 kW ● at AC-3e - at 230 V rated value 132 kW - at 690 V rated value 90 kW - at 500 V rated value 90 kW - at 500 V rated value 150 kW - at 500 V rated value 90 kW - at 500 V rated value 150 kW - at 500 V rated value 150 kW - at 500 V rated value 90 kW - at 500 V rated value 150 kW - at 690 V rated value 150 kW - at 690 V rated value 150 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ● at 400 V rated value 45 kW e at 690 V rated value 65 kW operating apparent power at AC-6a
 at 600 V rated value with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 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 600 V rated value — at 230 V rated value — at 400 V rated value — at 4500 V rated value — at 500 V rated value — at 1000 V rated value — at 1000 V rated value — at 400 V rated value — at 1000 V rated value 90 kW ■ at 4C-3e — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 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 160 A — at 60 V rated value 160 A — at 110 V rated value 160 A — at 220 V rated value 160 A — at 220 V rated value 1760 A — at 440 V rated value 17.4 A — at 600 V rated value 0.75 A operating power • at AC-3 — at 230 V rated value 55 kW — at 400 V rated value 90 kW — at 500 V rated value 132 kW — at 690 V rated value 160 kW — at 1000 V rated value 90 kW • at AC-3e — at 230 V rated value 90 kW • at AC-3e — at 230 V rated value 90 kW • at 690 V rated value 155 kW — at 1000 V rated value 90 kW • at AC-3e — at 230 V rated value 90 kW • at 400 V rated value 90 kW • at 400 V rated value 90 kW — at 1000 V rated value 90 kW — at 500 V rated value 90 kW — at 400 V rated value 90 kW — at 690 V rated value 132 kW — at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 45 kW • at 690 V rated value 65 kW operating apparent power at AC-8a
at 24 V rated value at 60 V rated value at 110 V rated value at 1220 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 230 V rated value at 230 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value at 1000 V rated value at 230 V rated value at 230 V rated value at 230 V rated value at 1000 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 1000 V rated value at 400 V rated value at 690 V rated value at 400 V rated value at 690 V rated value
at 60 V rated value 160 A at 110 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 1.4 A at 600 V rated value 0.75 A operating power • at AC-3 at 230 V rated value 90 kW at 500 V rated value 132 kW at 690 V rated value 90 kW • at AC-3e at 230 V rated value 90 kW at 1000 V rated value 90 kW at 1000 V rated value 90 kW at 1000 V rated value 90 kW • at AC-3e at 230 V rated value 90 kW • at AC-3e at 230 V rated value 90 kW • at 600 V rated value 90 kW at 500 V rated value 90 kW at 500 V rated value 90 kW at 500 V rated value 132 kW at 690 V rated value 160 kW at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 45 kW • at 690 V rated value 65 kW operating apparent power at AC-6a
- at 110 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A operating power ● at AC-3 - at 230 V rated value 55 kW - at 400 V rated value 90 kW - at 500 V rated value 132 kW - at 690 V rated value 90 kW ● at AC-3e - at 230 V rated value 90 kW - at 1000 V rated value 160 kW - at 1000 V rated value 90 kW ● at AC-3e - at 230 V rated value 90 kW ● at AC-3e - at 230 V rated value 90 kW - at 500 V rated value 90 kW - at 500 V rated value 90 kW - at 500 V rated value 90 kW - at 690 V rated value 132 kW - at 690 V rated value 90 kW - at 1000 V rated value 160 kW - at 1000 V rated value 90 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ● at 400 V rated value 45 kW ● at 690 V rated value 65 kW operating apparent power at AC-6a
- at 220 V rated value - at 440 V rated value - at 600 V rated value 0.75 A operating power
- at 440 V rated value - at 600 V rated value - at 600 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 1000 V rated value - at 1000 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 1000 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value
operating power
operating power
 at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value at AC-3e at 230 V rated value at AC-3e at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value at 1000 V rated value at 690 V rated value at 400 V rated value at 400 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a
at 400 V rated value 90 kW at 500 V rated value 132 kW at 690 V rated value 90 kW at 1000 V rated value 90 kW ■ at AC-3e at 230 V rated value 55 kW at 400 V rated value 90 kW at 500 V rated value 132 kW at 690 V rated value 160 kW at 1000 V rated value 90 kW at 690 V rated value 90 kW at 1000 V rated value 160 kW at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 45 kW ■ at 690 V rated value 65 kW operating apparent power at AC-6a
- at 500 V rated value - at 690 V rated value 160 kW - at 1000 V rated value 90 kW ■ at AC-3e - at 230 V rated value 90 kW - at 400 V rated value 90 kW - at 500 V rated value 132 kW - at 690 V rated value 160 kW - at 1000 V rated value 90 kW
 — at 690 V rated value — at 1000 V rated value 90 kW ◆ at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value 90 kW Operating power for approx. 200000 operating cycles at AC-4 ◆ at 400 V rated value ◆ at 690 V rated value ◆ at 690 V rated value ◆ operating apparent power at AC-6a
 at AC-3e at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 1000 V rated value at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operating apparent power at AC-6a bt W operating apparent power at AC-6a at 20 W operating apparent power at AC-6a operating apparent power at AC-6a
- at 230 V rated value 55 kW - at 400 V rated value 90 kW - at 500 V rated value 132 kW - at 690 V rated value 160 kW - at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ● at 400 V rated value 45 kW ● at 690 V rated value 65 kW operating apparent power at AC-6a
 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a
 — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a
 — at 500 V rated value — at 690 V rated value — at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 ● at 400 V rated value ● at 690 V rated value operating apparent power at AC-6a
- at 1000 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a 45 kW
at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a 45 kW 65 kW
at AC-4 • at 400 V rated value • at 690 V rated value operating apparent power at AC-6a 45 kW 65 kW
• at 690 V rated value operating apparent power at AC-6a 65 kW
operating apparent power at AC-6a
■ up to 230 V for current peak value n=20 rated value 60 000 kV/Δ
• up to 400 V for current peak value n=20 rated value 100 000 VA
• up to 500 V for current peak value n=20 rated value 130 000 VA
• up to 690 V for current peak value n=20 rated value 180 000 VA
• up to 1000 V for current peak value n=20 rated 110 000 VA
value
operating apparent power at AC-6a
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 70 000 VA
• up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value 90 000 VA
• up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value 120 000 VA
• up to 1000 V for current peak value n=30 rated 120 000 VA 110 000 VA
value

short-time withstand current in cold operating state	
up to 40 °C	2 000 A. Haa minimum areas section and to AC 1 rated value
Ilimited to 1 s switching at zero current maximum	2 900 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	2 084 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	1 480 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	968 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	801 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 	800 1/h
at AC-2 maximum	300 1/h
at AC-3 maximum	750 1/h
 at AC-3e maximum 	750 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	300 VA
● at 60 Hz	300 VA
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	5.8 VA
• at 60 Hz	5.8 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.8
● at 60 Hz	0.8
closing power of magnet coil at DC	360 W
holding power of magnet coil at DC	5.2 W
closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
opening delay	
• at AC	40 60 ms
• at DC	40 60 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	2
instantaneous contact number of NO contacts for auxiliary contacts	2
instantaneous contact operational current at AC-12 maximum	10 A
•	1071
operational current at AC-15	G A
at 230 V rated value at 400 V rated value	6 A
at 400 V rated value at 500 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
	2 A
at 125 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	
 at 480 V rated value 	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 230 V rated value	30 hp
	00 TIP
• for 3-phase AC motor	CO ha
— at 200/208 V rated value	60 hp
 — at 220/230 V rated value 	75 hp
 — at 460/480 V rated value 	150 hp
 at 575/600 V rated value 	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
design of the fuse link • for short-circuit protection of the main circuit	
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	gG: 355 A (690 V, 100 kA)
design of the fuse link • for short-circuit protection of the main circuit	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 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 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
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: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
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 — at the side	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
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 — at the side	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm
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 — at the side • for grounded parts	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 0 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm 10 mm 10 mm 10 mm 10 mm 10 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm 20 mm 10 mm 0 mm 0 mm
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design of the fuse link	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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 172 mm 120 mm 170 mm 10 mm

Connections/ Terminals type of electrical connection • for main current 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 width of connection bar 17 mm thickness of connection bar 3 mm diameter of holes 9 mm number of holes connectable conductor cross-section for main contacts stranded 25 ... 120 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 coction

product function	
Safety related data	
for auxiliary contacts	
Section	

mirror contact according to IEC 60947-4-1
positively driven operation according to IEC 60947-

5-1

B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

Yes

No

1 000 000 20 a

24 ... 14

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



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





Special Test Certificate

ate

Type Test Certificates/Test Report

Marine / Shipping other













other			Railway	
Confirmation	Confirmation	<u>Miscellaneous</u>	Vibration and Shock	Special Test Certific- ate

Further information

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=3RT1056-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AF36

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

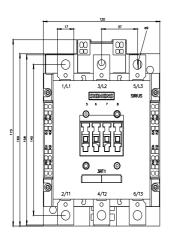
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-2AF36&lang=en

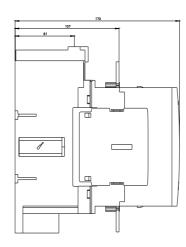
Characteristic: Tripping characteristics, I2t, Let-through current

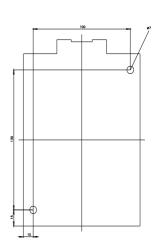
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-2AF36/char

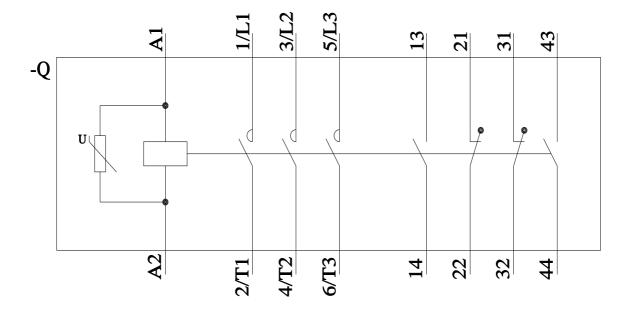
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-2AF36&objecttype=14&gridview=view1









last modified: 2/10/2023 🖸