SIEMENS

Data sheet

3RT1056-6SF36-3PA0



Power contactor, AC-3 185 A, 90 kW / 400 V Coil AC 50/60 Hz and DC 96-127 V x (0.8-1.1) F-SPS input 24 V DC 3-pole size S6 Auxiliary contacts 2 NO + 2 NC permanently mounted Main circuit: Busbar Control and auxiliary circuit: Screw 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
per pole	13 W
power loss [W] for rated value of the current without load current share typical	2.8 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)	01.03.2017 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
 ambient temperature during operation 	-25 +60 °C
ambient temperature during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3

number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
• operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	215 A
 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	
— 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	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	
 — up to 230 V for current peak value n=20 rated value 	157 A
 — up to 400 V for current peak value n=20 rated value 	157 A
— up to 500 V for current peak value n=20 rated value	157 A
— up to 690 V for current peak value n=20 rated value	157 A
 — up to 1000 V for current peak value n=20 rated value at AC-6a 	65 A
 up to 230 V for current peak value n=30 rated value 	105 A
— 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 minimum cross-section in main circuit at maximum AC-1	65 A
rated value 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 	
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
- at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A

— at 600 V rated value	1.6 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
operational current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 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 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 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-2 at 400 V rated value	90 kW
• 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
operating power for approx. 200000 operating cycles	30 KVV
at AC-4	
• at 400 V rated value	45 kW
• at 690 V rated value	65 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	60 000 kV·A
 up to 400 V for current peak value n=20 rated value 	100 000 V·A
 up to 500 V for current peak value n=20 rated value 	130 000 V·A
• up to 690 V for current peak value n=20 rated value	180 000 V·A
 up to 1000 V for current peak value n=20 rated 	110 000 V·A
value	
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	40 000 V·A
 up to 400 V for current peak value n=30 rated value 	70 000 V·A
 up to 500 V for current peak value n=30 rated value 	90 000 V·A
 up to 690 V for current peak value n=30 rated value 	120 000 V·A
 up to 1000 V for current peak value n=30 rated value 	110 000 V·A
short-time withstand current in cold operating state up to 40 °C	
 limited 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
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no lood ouitabing fragmanau	
no-load switching frequency	4 000 4/1-
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	000.44
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 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 	96 127 V
at 60 Hz rated value	96 127 V
control supply voltage at DC	
rated value	96 127 V
type of PLC-control input acc. to IEC 60947-1	Туре 1
consumed current at PLC-control input acc. to IEC 60947-1 maximum	14 mA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control input	0.8 1.1
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	280 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
apparent holding power of magnet coil at AC	
	4.4 V·A
• at 50 Hz	
inductive power factor with the holding power of the coil	
inductive power factor with the holding power of the coil • at 50 Hz	0.5
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC	0.5 320 W
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC	0.5
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay	0.5 320 W 2.8 W
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC	0.5 320 W 2.8 W 60 75 ms
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC	0.5 320 W 2.8 W
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay	0.5 320 W 2.8 W 60 75 ms 60 75 ms
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN)
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2 2 2
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2 10 A
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2 2 10 A 6 A
inductive power factor with the holding power of the coil • at 50 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC recovery time after power failure typical arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	0.5 320 W 2.8 W 60 75 ms 60 75 ms 115 130 ms 115 130 ms 2 s 10 15 ms Fail-safe PLC input (F-PLC-IN) 2 10 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 125 V rated value 	2 A			
 at 220 V rated value 	1 A			
 at 600 V rated value 	0.15 A			
operational current at DC-13				
• at 24 V rated value	10 A			
• at 48 V rated value	2 A			
 at 60 V rated value 	2 A 2 A			
 at 110 V rated value 	1A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.3 A 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			
 for 3-phase AC motor 				
— 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			
	200 hp			
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	200 hp			
	200 hp			
- at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	200 hp			
	200 hp A600 / P600			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50 kA)			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 kA), BS88: 315 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
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 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
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 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting for with side-by-side mounting forwards forwards forwards forwards forwards with side-by-side mounting forwards forwards with side-by-side mounting forwards forwards with side-by-side mounting forwards forw	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 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 - gowards - upwards	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 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 - upwards - at the side - at the side	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth - forwards - upwards - downwards - at the side - for grounded parts	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 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	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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 120 mm 170 mm 20 mm 0 mm 20 mm			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required side-by-side mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards upwards upwards upwards upwards upwards upwards 	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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 120 mm 170 mm 20 mm 10 mm 0 mm 20 mm 10 mm			
 at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 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 - at the side • for grounded parts - at the side - at the side - forwards	200 hp A600 / P600 gG: 355 A (690 V, 100 kA) gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 100 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 120 mm 120 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm			

forwarda	20 mm				
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals					
width of connection bar	17 mm				
thickness of connection bar	3 mm				
diameter of holes	9 mm				
number of holes	1				
type of electrical connection					
 for main current circuit 	Connection bar				
 for auxiliary and control circuit 	screw-type terminals				
 at contactor for auxiliary contacts 	Screw-type terminals				
 of magnet coil 	Screw-type terminals				
type of connectable conductor cross-sections					
 at AWG cables for main contacts 	2x 1/0				
connectable conductor cross-section for main contacts					
• stranded	25 120 mm²				
connectable conductor cross-section for auxiliary contacts					
 solid or stranded 	0.5 4 mm²				
 finely stranded with core end processing 	0.5 2.5 mm ²				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)				
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)				
 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)				
• at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12				
AWG number as coded connectable conductor cross section for auxiliary contacts	18 14				
Safety related data					
	Tumo D				
safety device type acc. to IEC 61508-2	Туре В				
P10 value with high demand rate age, to SN 21020	1,000,000				
B10 value with high demand rate acc. to SN 31920	1 000 000				
Safety Integrity Level (SIL) acc. to IEC 61508	2				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061	2 2				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1	2 2 c				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1	2 2 c 2				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1	2 2 c				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1product function	2 2 c 2 0				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1	2 2 c 2 0 Yes				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1	2 2 c 2 0 Yes No				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to EN 62061	2 2 c 2 0 Yes No 0.00000045 1/h				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to IEC 61508	2 2 c 2 0 Yes No 0.00000045 1/h 0.007				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to IEC 61508 MTBF	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to EN 62061 PFDavg with low demand rate acc. to IEC 61508 MTBF hardware fault tolerance acc. to IEC 61508	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to IEC 61508 MTBF hardware fault tolerance acc. to IEC 61508 T1 value for proof test interval or service life acc. to IEC 61508	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to IEC 61508 MTBF hardware fault tolerance acc. to IEC 61508 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y IP00; IP20 with box terminal/cover				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1product function• mirror contact acc. to IEC 60947-4-1• positively driven operation acc. to IEC 60947-5-1PFHD with high demand rate acc. to IEC 61508MTBFhardware fault tolerance acc. to IEC 61508T1 value for proof test interval or service life acc. toIEC 61508protection class IP on the front acc. to IEC 60529touch protection on the front acc. to IEC 60529	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1product function• mirror contact acc. to IEC 60947-4-1• positively driven operation acc. to IEC 60947-5-1PFHD with high demand rate acc. to IEC 61508MTBFhardware fault tolerance acc. to IEC 61508T1 value for proof test interval or service life acc. toIEC 61508protection class IP on the front acc. to IEC 60529suitability for use safety-related switching OFF	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y IP00; IP20 with box terminal/cover				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1product function• mirror contact acc. to IEC 60947-4-1• positively driven operation acc. to IEC 60947-5-1PFHD with high demand rate acc. to IEC 61508MTBFhardware fault tolerance acc. to IEC 61508T1 value for proof test interval or service life acc. toIEC 61508protection class IP on the front acc. to IEC 60529touch protection on the front acc. to IEC 60529	2 2 2 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover				
Safety Integrity Level (SIL) acc. to IEC 61508SIL Claim Limit (subsystem) acc. to EN 62061performance level (PL) acc. to EN ISO 13849-1category acc. to EN ISO 13849-1stop category acc. to DIN EN 60204-1product function• mirror contact acc. to IEC 60947-4-1• positively driven operation acc. to IEC 60947-5-1PFHD with high demand rate acc. to IEC 61508MTBFhardware fault tolerance acc. to IEC 61508T1 value for proof test interval or service life acc. toIEC 61508protection class IP on the front acc. to IEC 60529suitability for use safety-related switching OFF	2 2 2 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover				
Safety Integrity Level (SIL) acc. to IEC 61508 SIL Claim Limit (subsystem) acc. to EN 62061 performance level (PL) acc. to EN ISO 13849-1 category acc. to EN ISO 13849-1 stop category acc. to DIN EN 60204-1 product function • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 PFHD with high demand rate acc. to EN 62061 PFDavg with low demand rate acc. to IEC 61508 MTBF hardware fault tolerance acc. to IEC 61508 T1 value for proof test interval or service life acc. to IEC 61508 protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 suitability for use safety-related switching OFF Certificates/ approvals	2 2 c 2 0 Yes No 0.00000045 1/h 0.007 75 y 0 20 y IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover Yes				

Functional Safety/Safety of Machinery	Declaration of Conf	ormity	Test Certificates		other
<u>Type Examination</u> <u>Certificate</u>	<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	<u>Confirmation</u>
other		Railway			
Miscellaneous	Miscellaneous	<u>Special Test</u> <u>Certificate</u>			

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1056-6SF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6SF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6SF36-3PA0

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

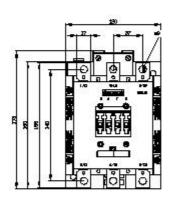
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6SF36-3PA0&lang=en

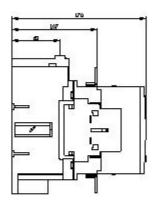
Characteristic: Tripping characteristics, I²t, Let-through current

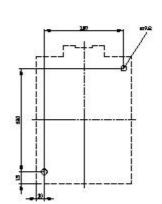
https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6SF36-3PA0/char

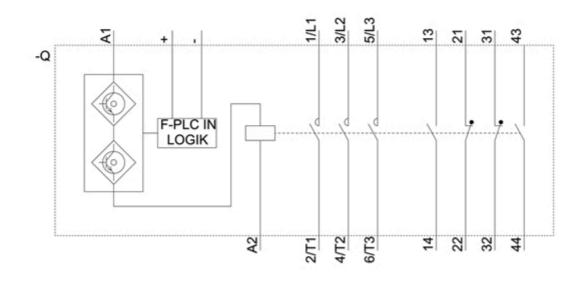
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1056-6SF36-3PA0&objecttype=14&gridview=view1









last modified:

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