SIEMENS

Data sheet

3RT1065-6SF36-3PA0



Power contactor, AC-3 265 A, 132 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 S10 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	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 	54 W
 at AC in hot operating state per pole 	18 W
 without load current share typical 	3.4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for 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 (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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
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 at 55 °C according to IEC 60069 2 20	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
/ain 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	1 000 V
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 $^{\circ}\text{C}$ rated value	330 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	300 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	150 A
 up to 1000 V at ambient temperature 60 °C rated value 	150 A
• at AC-3	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 1000 V rated value	95 A
 at AC-4 at 400 V rated value 	230 A
 at AC-5a up to 690 V rated value 	290 A
at AC-5b up to 400 V rated valueat AC-6a	219 A
 up to 230 V for current peak value n=20 rated value 	265 A
— up to 400 V for current peak value n=20 rated value	265 A
— up to 500 V for current peak value n=20 rated value	265 A
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated 	265 A 95 A
value • at AC-6a	33 A
up to 230 V for current peak value n=30 rated value	184 A
— up to 400 V for current peak value n=30 rated value	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 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	185 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	117 A
at 690 V rated value	105 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	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 110 V rated value	3 A
— at 220 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	
— at 24 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
	0.57 A
with 3 current paths in series at DC-3 at DC-5 at 24 V roted value.	200 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	1.4 A
— at 600 V rated value	0.75 A
operating power	400 111/
at AC-2 at 400 V rated value	132 kW
• at AC-3	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles	
at AC-4	ee rw
at 400 V rated value	66 kW
at 690 V rated value	102 kW
operating apparent power at AC-6a	400,000 14/4
up to 230 V for current peak value n=20 rated value	100 000 kVA
• up to 400 V for current peak value n=20 rated value	180 000 VA
• up to 500 V for current peak value n=20 rated value	220 000 VA
• up to 690 V for current peak value n=20 rated value	310 000 VA
• up to 1000 V for current peak value n=20 rated	160 000 VA
value	
operating apparent power at AC-6a	70 000 1/0
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 400 V for current peak value n=30 rated value 	120 000 VA

• up to 500 V for current peak value n=30 rated value	150 000 VA
 up to 690 V for current peak value n=30 rated value 	220 000 VA
up to 1000 V for current peak value n=30 rated value	160 000 VA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	4 880 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 785 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	1 276 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
operating frequency	
at AC-1 maximum	500 1/h
• at AC-2 maximum	300 1/h
at AC-3 maximum	500 1/h
at AC-3e maximum	700 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	AGIDO
at 50 Hz rated value	96 127 V
at 60 Hz rated value at 60 Hz rated value	96 127 V
control supply voltage at DC	90 127 V
• rated value	96 127 V
type of PLC-control input according to IEC 60947-1	Type 1
consumed current at PLC-control input according to	14 mA
IEC 60947-1 maximum	14 IIIA
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	530 VA
● at 60 Hz	530 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
apparent holding power of magnet coil at AC	
● at 50 Hz	5 VA
● at 60 Hz	5 VA
inductive power factor with the holding power of the coil	
● at 50 Hz	0.5
● at 60 Hz	0.5
closing power of magnet coil at DC	580 W
holding power of magnet coil at DC	3.4 W
closing delay	
• at AC	60 75 ms
• at DC	60 75 ms
opening delay	
• at AC	115 130 ms

	• at DC	115 130 ms
1015 ms		
Auxiliary circuit: Instintaneous contact or auxiliary contacts Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxiliary switch Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxiliary switch Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxiliary switch Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxiliary switch Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxiliary switch Instintanoon contact or auxiliary contacts according to UL Short-circuit protection of the auxili		10 15 ms
number of NC contacts for auxiliary contacts 2	control version of the switch operating mechanism	Fail-safe PLC input (F-PLC-IN)
Instantaneous contact	Auxiliary circuit	
Instantaneous contact Operational current at AC-12 maximum Operational current at AC-15		2
Operational current at AC-15		2
• at 230 V rated value	operational current at AC-12 maximum	10 A
all 400 V rated value	operational current at AC-15	
• at 500 V rated value	 at 230 V rated value 	6 A
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 8 V rated value • at 8 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 800 V rated value • at 80 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 800 V rated value •	● at 400 V rated value	3 A
0	● at 500 V rated value	2 A
at 24 V rated value	at 690 V rated value	1 A
• at 48 V rated value	•	
at 160 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 500 V rated value operational current at DC-13 at 24 V rated value at 24 V rated value at 24 V rated value at 260 V rated value at 260 V rated value at 360 V rated value at 220 V rated value at 360 V rated value at 400 V rated value at 600 V ra		
• at 110 V rated value • at 125 V rated value • at 126 V rated value • at 260 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 125 V rated value •		
at 125 V rated value		
• at 220 V rated value		
• at 600 V rated value		
at 24 V rated value		
at 24 V rated value		U.15 A
at 48 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 60 V rated value at 600 V rated value at 220/230 V rated value -at 220/230 V rated value -at 480/480 V rated value -at 480/480 V rated value -at 575/600 V rated value -with type of coordination 1 required -with type of reasonement 2 required -with type of respection of the main circuit -with type of coordination 1 required -with type of respection of the main circuit -with type of respective to the	•	40.4
■ at 60 V rated value ■ at 110 V rated value ■ at 120 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 800 V rated value ■ at 600 V rated value ■ at 480 V rated value ■ at 480 V rated value ■ at 800 V rated value ■ at 220/230 V rated value ■ at 220/230 V rated value ■ at 460/480 V rated value ■ at 460/480 V rated value ■ at 575/600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 675/600 V ra		
at 110 V rated value at 125 V rated value 0.9 A at 220 V rated value 0.1 A contact reliability of auxiliary contacts UL/GSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 240 A at 600 V rated value 242 A yielded mechanical performance [hp] for 3-phase AC motor at 480 V rated value 75 hp at 220/230 V rated value 100 hp at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit with type of assignment 2 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required short for short-circuit protection of the auxiliary switch required short for short-circuit protection of the auxiliary switch required with type of assignment 2 required fastening method side-by-side mounting fastening method side-by-side mounting fequired spacing		
at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts If aulty switching per 100 million (17 V, 1 mA) LUCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 240 A at 600 V rated value 242 A yielded mechanical performance [hp] of or 3-phase AC motor — at 220/2208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the main circuit — with type of assignment 2 required with type of sasignment 2 required for short-circuit protection of the auxiliary switch required fastening method side-by-side mounting Yes height vidth 145 mm depth required spacing		
• at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 480 V rated value — at 480 V rated value — at 480 V rated value — at 2575/600 V rated value — at 480 V rated value — at 575/600 V rated value — at 575/600 V rated value — ontact 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 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method • side-by-side mounting Yes height width depth 200 mm 145 mm depth required spacing		
contact reliability of auxiliary contacts If aulty switching per 100 million (17 V, 1 mA) IL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value pielded mechanical performance [hp] • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method • side-by-side mounting Yes height width depth 200 mm		
## Comparison of the fuse link of resulting the for short-circuit protection of the auxiliary switch required wilden of side-by-side mounting position UL/CSA ratings Full-load current (FLA) for 3-phase AC motor		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 242 A yielded mechanical performance [hp] • for 3-phase AC motor — at 220/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 575/600 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 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) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes height vidth 45 mm depth 202 mm required spacing		readity switching per 100 million (17 V, 1 mz)
at 480 V rated value at 600 V rated value 242 A yielded mechanical performance [hp] for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL 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 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required with type of assignment 2 required for short-circuit protection of the auxiliary switch required social A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing yes height width 145 mm depth required spacing		
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 460/480 V rated value — at 575/600 V rated value — 200 hp — at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 9G: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required with type of assignment 2 required 9G: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing • side-by-side mounting required spacing		240 A
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 460/480 V rated value — at 575/600 V rated value — 200 hp — at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required 9G: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required with type of assignment 2 required 9G: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back screw fixing • side-by-side mounting required spacing	• at 600 V rated value	242 A
- at 200/208 V rated value 75 hp - at 220/230 V rated value 100 hp - at 460/480 V rated value 250 hp - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required 9G: 500 A (690 V, 100 kA) — with type of assignment 2 required 9G: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting width 210 mm width 202 mm required spacing	yielded mechanical performance [hp]	
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required - 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 width - depth - depth - at 460/480 V rated value - 200 hp - 250 hp - A600 / P600 Ge; 500 A (690 V, 100 kA) - Ge; 500 A (690 V, 100 kA) - Ge; 400 A (690 V,	for 3-phase AC motor	
- at 460/480 V rated value - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting width width 145 mm depth required spacing	— at 200/208 V rated value	75 hp
- at 460/480 V rated value - at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method • side-by-side mounting width width 145 mm depth required spacing	— at 220/230 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 with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-92.5° tiltable to the front and back fastening method • side-by-side mounting • side-by-side mounting width depth required spacing	— at 460/480 V rated value	
Short-circuit protection design of the fuse link	— at 575/600 V rated value	
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 210 mm width 145 mm depth 202 mm	contact rating of auxiliary contacts according to UL	A600 / P600
 for short-circuit protection of the main circuit with type of coordination 1 required gG: 500 A (690 V, 100 kA) with type of assignment 2 required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing side-by-side mounting Yes height with vertical mounting 45 mm depth gG: 500 A (690 V, 100 kA) y, 50 kA) y (690 V, 100 kA) y (690 V, 100	Short-circuit protection	
 — with type of coordination 1 required — with type of assignment 2 required — of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions — with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method — side-by-side mounting — side-by-side mounting — yes height — 210 mm width — 45 mm depth — 202 mm 	design of the fuse link	
— with type of assignment 2 required of or short-circuit protection of the auxiliary switch required of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method of side-by-side mounting height 210 mm width depth 202 mm required spacing	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method	 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)
 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method side-by-side mounting height width 210 mm width depth 202 mm required spacing 	— with type of assignment 2 required	
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 210 mm width 145 mm depth 202 mm required spacing required spacing		
surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 210 mm width 145 mm depth 202 mm required spacing	Installation/ mounting/ dimensions	
● side-by-side mounting height 210 mm width 145 mm depth 202 mm required spacing	mounting position	
● side-by-side mounting height 210 mm width 145 mm depth required spacing	fastening method	screw fixing
height210 mmwidth145 mmdepth202 mmrequired spacingThe spacing of the spacing of		
width145 mmdepth202 mmrequired spacing145 mm		210 mm
required spacing		145 mm
	depth	202 mm
with side-by-side mounting	required spacing	
	 with side-by-side mounting 	

— forwards	20 mm
	10 mm
— upwards	
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
	•
type of connectable conductor cross-sections	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 	0.5 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 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
for auxiliary contacts	18 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
 positively driven operation according to IEC 60947- 	No
5-1	110
safety device type according to IEC 61508-2	Type B
B10 value with high demand rate according to SN 31920	1 000 000
Safety Integrity Level (SIL) according to IEC 61508	2
SIL Claim Limit (subsystem) according to EN 62061	2
performance level (PL) according to EN ISO 13849-1	c
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	93 %
failure rate [FIT] with low demand rate according to SN	100 FIT
31920 PEHD with high demand rate according to EN 62061	0.00000045.1/b
PFHD with high demand rate according to EN 62061	0.00000045 1/h
PFDavg with low demand rate according to IEC 61508	0.007
MTBF	75 y
hardware fault tolerance according to IEC 61508	0

T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
suitability for use	
 safety-related switching on 	No
 safety-related switching OFF 	Yes
O CE 1 / Cated Switching Of I	100

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



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



Type Test Certificates/Test Report

Special Test Certificate

Confirmation

other	Railway
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<u>Miscellaneous</u> <u>Special Test 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=3RT1065-6SF36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6SF36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6SF36-3PA0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6SF36-3PA0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6SF36-3PA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6SF36-3PA0&objecttype=14&gridview=view1

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