SIEMENS

Data sheet 3RT1066-6PF35



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 1 NO + 1 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal with remaining lifetime indicator

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	66 W
 at AC in hot operating state per pole 	22 W
without load current share typical	3.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
of main circuit rated value	8 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance 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)	
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Perfluorobutane sulfonic acid (PFBS) and its salts
Weight	7.317 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	

during operation	-25 +60 °C
during operation during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage ◆ at AC-3 rated value maximum	1,000 \/
at AC-3 rated value maximum at AC-3e rated value maximum	1 000 V 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 °C rated value 	330 A
— up to 690 V at ambient temperature 60 $^{\circ}$ C rated value	300 A
— up to 1000 V at ambient temperature 40 $^{\circ}$ 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	300 A
— at 500 V rated value	300 A
— at 690 V rated value— at 1000 V rated value	280 A 95 A
at AC-3e	95 A
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
at AC-4 at 400 V rated value	280 A
at AC-5a up to 690 V rated value	290 A
at AC-5b up to 400 V rated value	249 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	292 A
— up to 400 V for current peak value n=20 rated value	292 A
— up to 500 V for current peak value n=20 rated value	292 A
 up to 690 V for current peak value n=20 rated value 	280 A
— up to 1000 V for current peak value n=20 rated	95 A
value	
• at AC-6a	105 A
— up to 230 V for current peak value n=30 rated value— up to 400 V for current peak value n=30 rated value	195 A 195 A
up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value	195 A
— up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value	195 A
up to 1000 V for current peak value n=30 rated value value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	125 A
at 690 V rated value	115 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	300 A
— at 60 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

a with 2 augment noths in series at DC 4	
 with 2 current paths in series at DC-1 — at 24 V rated value 	300 A
— at 24 v rated value — at 60 V rated value	300 A
	300 A
— at 110 V rated value — 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	000 A
— at 24 V rated value	300 A
— at 60 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	000 A
— at 24 V rated value	300 A
— at 60 V rated value	11 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 60 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
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	00.144/
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	00.144
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
• at 400 V rated value	71 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	110 000 kVA
• up to 400 V for current peak value n=20 rated value	200 000 VA
• up to 500 V for current peak value n=20 rated value	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
• up to 1000 V for current peak value n=20 rated value	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
• up to 400 V for current peak value n=30 rated value	130 000 VA
• up to 500 V for current peak value n=30 rated value	160 000 VA

• up to 690 V for current peak value n=30 rated value	230 000 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 $^{\circ}\text{C}$		
 limited to 1 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value	
 limited to 5 s switching at zero current maximum 	4 579 A; Use minimum cross-section acc. to AC-1 rated value	
limited to 10 s switching at zero current maximum	3 153 A; Use minimum cross-section acc. to AC-1 rated value	
-	1 883 A; Use minimum cross-section acc. to AC-1 rated value	
limited to 30 s switching at zero current maximum		
Iimited to 60 s switching at zero current maximum	1 445 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency		
• at AC	1 000 1/h	
• at DC	1 000 1/h	
operating frequency		
at AC-1 maximum	750 1/h	
at AC-2 maximum	250 1/h	
 at AC-3 maximum 	500 1/h	
• at AC-3e maximum	500 1/h	
• at AC-4 maximum	130 1/h	
Control circuit/ Control		
type of voltage of the control supply voltage	AC/DC	
control supply voltage at AC		
at 50 Hz rated value	96 127 V	
at 60 Hz rated value at 60 Hz rated value	96 127 V	
control supply voltage at DC rated value	96 127 V	
operating range factor control supply voltage rated value of magnet coil at DC	90 12 <i>1</i> V	
• 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	
type of PLC-control input according to IEC 60947-1	Type 2	
consumed current at PLC-control input according to IEC	20 mA	
60947-1 maximum	LOTING	
voltage at PLC-control input rated value	24 V	
operating range factor of the voltage at PLC-control input	0.8 1.1	
design of the surge suppressor	with varistor	
apparent pick-up power		
 at minimum rated control supply voltage at AC 		
— at 50 Hz	400 VA	
— at 60 Hz	400 VA	
at maximum rated control supply voltage at AC		
— at 60 Hz	530 VA	
— at 50 Hz	530 VA	
apparent pick-up power of magnet coil at AC		
• at 50 Hz	530 VA	
• at 60 Hz	530 VA	
	000 1/1	
inductive power factor with closing power of the coil	0.0	
• at 50 Hz	0.8	
• at 60 Hz	0.8	
apparent holding power		
 at minimum rated control supply voltage at DC 	2.8 VA	
at maximum rated control supply voltage at DC	3.4 VA	
apparent holding power		
 at minimum rated control supply voltage at AC 		
— at 50 Hz	5.5 VA	
— at 60 Hz	5.5 VA	
at maximum rated control supply voltage at AC		
— at 50 Hz	8.5 VA	
— at 60 Hz	8.5 VA	
inductive power factor with the holding power of the coil		

e at EO Hz closing power of magnet coil at DC closing power of magnet coil at DC closing power of magnet coil at DC d5	● at 50 Hz	0.5
holding power of magnet coll at DC	● at 60 Hz	0.4
closing delay * all AC * all DC opening delay * all AC * all DC opening delay * all AC * all DC opening delay * all AC * all DC * all	closing power of magnet coil at DC	580 W
	holding power of magnet coil at DC	3.4 W
• at DC opening delay • at AC • at DC arcing time control version of the switch operating mechanism control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxillary circuit number of INC contacts for auxillary contacts instantaneous contact number of INC contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 800 V rated value • at 180 V rated value • at 220 V rated value • at 220 V rated value • at 180 V	closing delay	
copening delaty at ICC at Cord at Co	• at AC	45 80 ms
# ait AC	• at DC	45 80 ms
# at DC # 80 100 ms	opening delay	
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	• at AC	80 100 ms
Control Version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable)	• at DC	80 100 ms
Auxiliary circuit. Tumber of NC contacts for auxiliary contacts instantaneous orited. Tumber of NC contacts for auxiliary contacts instantaneous operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value	arcing time	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Description Contracts for auxiliary contacts instantaneous 1	Auxiliary circuit	
Department current at AC-12 maximum 10 A Operational current at AC-18 at 230 V rated value 5 A 4 40 V rated value 2 A at 300 V rated value 2 A at 350 V rated value 2 A at 350 V rated value 2 A at 350 V rated value 1 A Operational current at DC-12 at 24 V rated value 6 A 6 A at 360 V rated value 2 A at 360 V rated value 3 A at 360 V rated value 2 A at 360 V rated value 3 A 3 A at 360 V rated value 3 A		1
at 230 V rated value		1
at 230 V rated value at 400 V rated value at 400 V rated value at 450 V rated value at 690 V rated value at 690 V rated value at 45 V rated value at 45 V rated value at 46 V rated value at 47 V rated value at 48 V rated value at 48 V rated value at 100 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 48 V rated value at 20 V rated value at 20 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 4604 V rated value at 220 V rated value at 4604 V rated value at 220/20 V rated value at 220/20 V rated value at 576/600 V rated value at 2600 V rated value at 2600 V rated value at 4604 V rated value at 4604 V rated value at 4604 V rated value at 2600 V rated value at 576/600 V rated value at 4604 V rated value at 576/600 V rated value at 2600 V rated value	·	10 A
### ### ### ### #### #### #### ########	-	
* at 500 V rated value		
a 1690 V rated value	• at 400 V rated value	3 A
Operational current at DC-12		
		1A
• at 48 V rated value • at 60 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 260 V rated value • at 260 V rated value • at 270 V rated value • at 280 V rated value • at 380 V rated value • at 160 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value • at 600 V rated value • at	•	
	at 48 V rated value	6 A
at 125 V rated value at 260 V rated value 0.15 A operational current at DC-13 at 28 V rated value 10 A at 48 V rated value 2 A at 48 V rated value 2 A at 100 V rated value 2 A at 110 V rated value 3 A at 125 V rated value 3 A at 125 V rated value 4 A 1 A at 125 V rated value 9 A at 126 V rated value 0.9 A at 128 V rated value 0.1 A contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor 1 at 480 V rated value 2 A 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor 1 at 480 V rated value 2 89 A yielded mechanical performance [hp] 6 of 3-phase AC motor - at 200/280 V rated value 2 89 A yielded mechanical performance [hp] - at 220/280 V rated value 2 300 hp - at 460/480 V rated value 2 50 hp - at 460/480 V rated value 2 50 hp - at 4575/690 V rated value 2 50 hp - at 575/690 V rated value 2 50 hp - at 575/690 V rated value 3 00 hp - contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link 6 for short-circuit protection of the main circuit - with type of assignment 2 required 6 for short-circuit protection of the main circuit - with type of assignment 2 required 6 for short-circuit protection of the main circuit - with type of assignment 2 required 6 for short-circuit protection of the auxiliary switch required 6 for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions	at 60 V rated value	6 A
at 220 V rated value at 800 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 10 V rated value 3 A at 25 V rated value 4 A F V rated value 5 A Tated value 9 A V rated value 9 A V ra	• at 110 V rated value	
operational current at DC-13 • at 24 V rated value	at 125 V rated value	
operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 600 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 460/480 V rated value • at 600 V rated value • 250 hp • 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 main circuit - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required Installation/mounting/dimensions	at 220 V rated value	
• at 24 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 1 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 60 V rated value 0.1 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 302 A • at 600 V rated value 289 A yielded mechanical performance [hp] • for 3-phase AC motor — at 200/228 V rated value 125 hp — at 460/480 V rated value 250 hp — at 460/480 V rated value 250 hp — at 450/480 V rated value 250 hp — at 575/600 V rated value 250 hp — at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL 30	at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value 0.3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts I 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 302 A at 600 V rated value 302 A at 600 V rated value 289 A yielded mechanical performance [hp] of or 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 457/5600 V rated value - at 57/5600 V rated value - at 57/5600 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 of or short-circuit protection of the main circuit of or short-circuit protection of the RLT relay output required of or short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A) miniature fuse: 4 A FF (230 V, Ik= 400 A)	•	
at 10 V rated value at 110 V rated value 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 302 A at 600 V rated value 302 A at 600 V rated value 289 A yielded mechanical performance [hp] for 3-phase AC motor - at 220/230 V rated value - at 220/230 V rated value - at 220/230 V rated value 250 hp - at 460/480 V rated value - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection 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 RLT relay output required for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A) miniature fuse: 4 A FF (230 V, lk= 400 A)		
at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at		
at 125 V rated value at 220 V rated value at 260 V rated value be at 260 V rated value at 260 V rated value at 260 V rated value be at 260 V rated value at 260 V rated value be at 260 V rated value be at 360 V rated value at 260 V rated va		
at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts I 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 at 600 V rated value at 600 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 250 hp at 575/600 V rated value at 600 V rated value		
a the street of the fuse link a the street of short-circuit protection of the main circuit — with type of assignment 2 required a the street of short-circuit protection of the auxiliary switch required a the street of short-circuit protection of the auxiliary switch required a the street of survey at the street of th		
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 • at 600 V rated value 9 for 3-phase AC motor - at 220/280 V rated value 100 hp - at 220/230 V rated value 125 hp - at 460/480 V rated value 250 hp - at 575/600 V rated value 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 RLT relay output required miniature fuse: 4 A FF (230 V, Ik= 400 A) Installation/ mounting/ dimensions		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 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 575/600 V rated value — at 575/600 V rated value — 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 RLT relay output required miniature fuse: 4 A FF (230 V, Ik= 400 A) Installation/ mounting/ dimensions		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • for 3-phase AC motor — at 200/208 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 575/600 V rated value 250 hp — at 575/600 V rated value 250 hp contact rating of auxiliary contacts according to UL Short-circuit protection 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 RLT relay output required • for short-circuit protection of the RLT relay output miniature fuse: 4 A FF (230 V, Ik= 400 A) Installation/ mounting/ dimensions		1 faulty switching per 100 million (17 V, 1 mA)
at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 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 for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions at 480 V rated value 100 hp 125 hp 250 hp 300 hp 4600 V Q600 Short-circuit protection gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) miniature fuse: 4 A FF (230 V, Ik= 400 A)		
at 600 V rated value yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 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 assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions		000 A
yielded mechanical performance [hp] • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value 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 RLT relay output required Installation/ mounting/ dimensions		
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 675/600 V ra		289 A
- at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection 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 RLT relay output required Installation/ mounting/ dimensions		
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection 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 RLT relay output required Installation/ mounting/ dimensions	·	400 hp
- at 460/480 V rated value - at 575/600 V rated value 300 hp contact rating of auxiliary contacts according to UL Short-circuit protection 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 RLT relay output required Installation/ mounting/ dimensions		·
- 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 RLT relay output required Installation/ mounting/ dimensions		·
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 RLT relay output required Installation/ mounting/ dimensions		
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 RLT relay output required Installation/ mounting/ dimensions		
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 RLT relay output required Installation/ mounting/ dimensions • for short-direction of the RLT relay output required • for short-direction of the RLT relay output required • for short-direction of the RLT relay output required		7000 / Q000
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required		
 — 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 RLT relay output required — with type of coordination 1 required — gG: 400 A (690 V, 100 kA) — gG: 10 A (500 V, 1 kA) — with type of assignment 2 required — gG: 10 A (500 V, 1 kA) — miniature fuse: 4 A FF (230 V, lk= 400 A) 	•	
 — 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) gG: 10 A (500 V, 1 kA) miniature fuse: 4 A FF (230 V, lk= 400 A) Installation/ mounting/ dimensions 	•	αG: 500 Δ (690 V 100 kΔ)
 for short-circuit protection of the auxiliary switch required for short-circuit protection of the RLT relay output required Installation/ mounting/ dimensions gG: 10 A (500 V, 1 kA) miniature fuse: 4 A FF (230 V, lk= 400 A) 	*	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
• for short-circuit protection of the RLT relay output required miniature fuse: 4 A FF (230 V, Ik= 400 A) Installation/ mounting/ dimensions	for short-circuit protection of the auxiliary switch required	
Installation/ mounting/ dimensions		
		(2001)
mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface	Installation/ mounting/ dimensions	
	mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface

	+/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	210 mm
width	165 mm
depth	202 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— 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	
for 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 mm²
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)
• for 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 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes; safety-related disconnection via A1 A2
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN	100 FIT
31920	

ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
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
Approvals Certificates	

General Product Approval







Confirmation



<u>KC</u>

General	Product	Ар-
proval		

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate

Type Test Certificates/Test Report

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



Marine / Shipping









Confirmation

other

Confirmation

other

Railway

Environment

Miscellaneous

Special Test Certificate

Environmental Confirmations

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-6PF35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6PF35

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

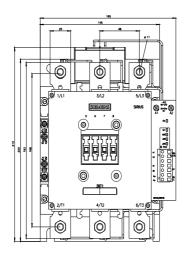
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PF35

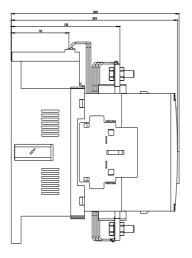
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

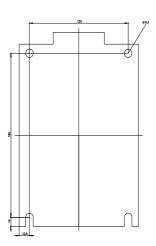
Characteristic: Tripping characteristics, I2t, Let-through current

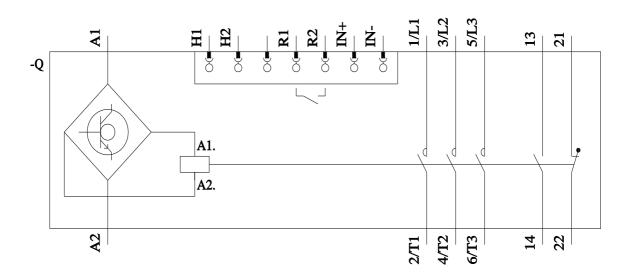
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6PF35/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6PF35&objecttype=14&gridview=view1









last modified:

