SIEMENS

Data sheet 3RT1075-6NF36



power contactor, AC-3e/AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic 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	S12
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 	105 W
 at AC in hot operating state per pole 	35 W
 without load current share typical 	3.6 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
Weight	10.38 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	430 A
value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	430 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	400 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	200 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	200 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value• at AC-3e	180 A
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
 at AC-4 at 400 V rated value 	350 A
• at AC-5a up to 690 V rated value	378 A
 at AC-5b up to 400 V rated value 	332 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	395 A
 up to 400 V for current peak value n=20 rated value 	395 A
— up to 500 V for current peak value n=20 rated value	395 A
— up to 690 V for current peak value n=20 rated value	395 A
— up to 1000 V for current peak value n=20 rated	180 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	264 A
— up to 400 V for current peak value n=30 rated value	264 A
— up to 500 V for current peak value n=30 rated value	264 A
— up to 690 V for current peak value n=30 rated value	264 A
— up to 1000 V for current peak value n=30 rated value	180 A
minimum cross-section in main circuit at maximum AC-1 rated value	300 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	150 A
at 690 V rated value	135 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	400 A
— at 60 V rated value	330 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 	400 A

	at 60 V rated value	400 A
	— at 60 V rated value	400 A
■ ## EDO V fated value ■ ## 10 V Tated valu		
• with 3 current paths in series at DC-1 - at 24 V rated value - at 110 V rated value - at 1110 V ra		
		2 A
	-	
= all 440 V rated value		
■ at Current path at DC-3 at DC-5 ■ at 24 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at 440 V rated value ■ at 260 V rated value ■ at 500 V rated value ■ at 7 rated value ■ at 800 V rated value ■ at 900 Por current peak value n=20 rated value ■ at 900 Por current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current		
		5.2 A
at 80 V rated value	-	400 A
at 220 V rated value		
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value		
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 60 V rated value — at 60 V rated value — at 100 V rated value — at 100 V rated value — at 100 V rated value — at 220 V rated value — at 400 V rated value — at 400 V rated value — at 60 V rated value — at 500 V rated value — at 600		
at 24 V rated value		U.125 A
	•	400 A
with 3 current paths in series at DC-3 at DC-5		
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 1110 V rated value — at 220 V rated value — at 220 V rated value — at 460 V rated value — at 600 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 600 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 250 V rated value — at 250 V rated value — at 250 V rated value — at 690 V rated value — at 1000 V rated value — at 100		
at 24 V rated value		0.37 A
- at 60 V rated value	-	400 A
- at 110 V rated value 400 A 4		
- at 220 V rated value		
operating power		
• at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 950 kW — at 1000 V rated value — 350 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value ■ 133 kW operating apparent power at AC-6a ■ up to 230 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 1000 V for current peak value n=20 rated value ■ up to 1000 V for current peak value n=20 rated value ■ up to 1000 V for current peak value n=20 rated value ■ up to 1000 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=20 rated value ■ up to 230 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 400 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value		
• at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value		0.75 A
- at 230 V rated value		
- at 400 V rated value		122 141
- at 500 V rated value		
- at 690 V rated value		
- at 1000 V rated value 250 kW • at AC-3e - at 230 V rated value 132 kW - at 400 V rated value 200 kW - at 500 V rated value 250 kW - at 690 V rated value 400 kW - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 85 kW • at 690 V rated value 133 kW operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value 270 000 VA • up to 500 V for current peak value n=20 rated value 440 00 VA • up to 500 V for current peak value n=20 rated value 470 000 VA • up to 1000 V for current peak value n=20 rated value 310 000 VA • up to 230 V for current peak value n=20 rated value 470 000 VA • up to 500 V for current peak value n=20 rated value 310 000 VA • up to 1000 V for current peak value n=30 rated value 100 000 VA • up to 400 V for current peak value n=30 rated value 100 000 VA • up to 500 V for current peak value n=30 rated value 180 000 VA • up to 500 V for current peak value n=30 rated value 180 000 VA • up to 500 V for current peak value n=30 rated value 220 000 VA		
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value		
- at 230 V rated value - at 400 V rated value 200 kW - at 500 V rated value 250 kW - at 690 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 85 kW e at 690 V rated value 133 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 270 000 VA up to 690 V for current peak value n=20 rated value 470 000 VA up to 1000 V for current peak value n=20 rated value 470 000 VA up to 1000 V for current peak value n=20 rated value 470 000 VA up to 1000 V for current peak value n=20 rated value 470 000 VA up to 1000 V for current peak value n=20 rated value 470 000 VA up to 400 V for current peak value n=30 rated value 100 000 VA up to 400 V for current peak value n=30 rated value 480 000 VA up to 500 V for current peak value n=30 rated value 480 000 VA up to 500 V for current peak value n=30 rated value 480 000 VA up to 500 V for current peak value n=30 rated value 480 000 VA up to 500 V for current peak value n=30 rated value 200 000 VA		250 KVV
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=30 rated value 100 000 VA operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value		122 141
- at 500 V rated value - at 690 V rated value - at 1000 V rated value 250 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rourent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value		
- at 690 V rated value - at 1000 V rated value operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value		
- at 1000 V rated value operating power for approx. 200000 operating cycles at AC- at 400 V rated value at 690 V rated value operating apparent power at AC-6a oup to 230 V for current peak value n=20 rated value oup to 400 V for current peak value n=20 rated value oup to 500 V for current peak value n=20 rated value oup to 690 V for current peak value n=20 rated value oup to 1000 V for current peak value n=20 rated value vup to 1000 V for current peak value n=20 rated value oup to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a oup to 230 V for current peak value n=30 rated value 100 000 VA oup to 400 V for current peak value n=30 rated value 100 000 VA oup to 500 V for current peak value n=30 rated value 220 000 VA		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value		
at 400 V rated value at 690 V rated value 133 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 100 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 100 000 VA up to 500 V for current peak value n=30 rated value 220 000 VA		230 RVV
 at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	4	
operating apparent power at AC-6a	• at 400 V rated value	85 kW
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	 at 690 V rated value 	133 kW
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 310 000 VA up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	operating apparent power at AC-6a	
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 310 000 VA operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	• up to 230 V for current peak value n=20 rated value	150 000 kVA
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value 310 000 VA Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	• up to 400 V for current peak value n=20 rated value	270 000 VA
 up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	• up to 500 V for current peak value n=20 rated value	340 000 VA
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	• up to 690 V for current peak value n=20 rated value	470 000 VA
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	• up to 1000 V for current peak value n=20 rated value	310 000 VA
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 220 000 VA 	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value 220 000 VA	• up to 230 V for current peak value n=30 rated value	100 000 VA
	• up to 400 V for current peak value n=30 rated value	180 000 VA
a up to 600 V for current peak value n=30 rated value = 240 000 VA	• up to 500 V for current peak value n=30 rated value	220 000 VA
▼ up to 050 v for current peak value i1-30 fated value 510 000 VA	• up to 690 V for current peak value n=30 rated value	310 000 VA
• up to 1000 V for current peak value n=30 rated value 310 000 VA	• up to 1000 V for current peak value n=30 rated value	310 000 VA

short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	6 600 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	5 761 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	4 143 A; Use minimum cross-section acc. to AC-1 rated value
limited to 30 s switching at zero current maximum	2 635 A; Use minimum cross-section acc. to AC-1 rated value
Ilimited to 50 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum	2 088 A; Use minimum cross-section acc. to AC-1 rated value
	2 000 A, OSE MINIMUM CIOSS-SECTION ACC. TO AC-1 rated value
no-load switching frequency	1 000 1/h
• at AC	
• at DC	1 000 1/h
operating frequency	700 4/1
• at AC-1 maximum	700 1/h
• at AC-2 maximum	200 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	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	
• 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 60947-1 maximum	20 mA
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	560 VA
— at 60 Hz	560 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	750 VA
— at 50 Hz	750 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	750 VA
• at 60 Hz	750 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.8
apparent holding power	0.0
at minimum rated control supply voltage at DC	3 VA
	3.6 VA
at maximum rated control supply voltage at DC apparent holding power.	0.0 VA
apparent holding power	
at minimum rated control supply voltage at AC	FOVA
— at 50 Hz	5.6 VA
— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	9 VA
— at 60 Hz	9 VA
inductive power factor with the holding power of the coil	
at 50 Hz	0.5
● at 60 Hz	0.4

closing newer of magnet eail of DC	900 W
closing power of magnet coil at DC	800 W
holding power of magnet coil at DC	3.6 W
closing delay • at AC	60 90 ms
• at DC	60 90 ms
opening delay	60 90 IIIS
• at AC	80 100 ms
• at DC	80 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Auxiliary circuit	1 EO IN OI Olandard XII - Ale (adjustable)
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 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
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	361 A
at 600 V rated value	382 A
yielded mechanical performance [hp]	
 ◆ for 3-phase AC motor 	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 630 A (690 V, 100 kA)
with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
nstallation/ 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	214 mm
width	160 mm

depth	225 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 Screw-type terminals
of magnet coil	Screw-type terminals 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	270 000 North
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	70 2-10 Hilli
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)
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 31920	100 FIT
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





EMV Functional Saftey

Test Certificates

Marine / Shipping



Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other







Miscellaneous

Confirmation

Miscellaneous

other

Railway

Environment

Confirmation

Special Test Certificate Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1075-6NF36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1075-6NF36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6NF36

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

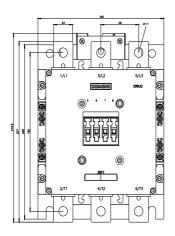
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6NF36&lang=en

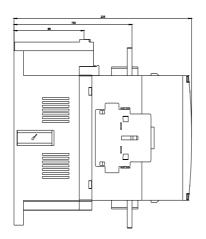
Characteristic: Tripping characteristics, I²t, Let-through current

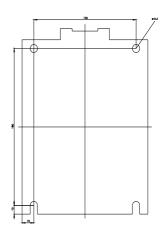
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6NF36/char

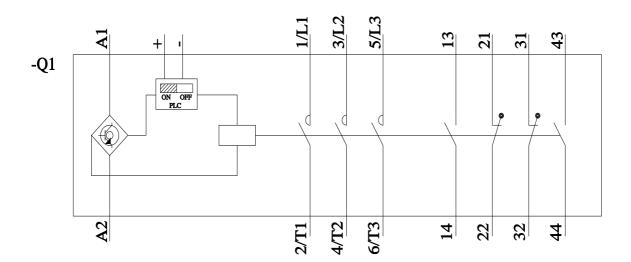
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6NF36&objecttype=14&gridview=view1









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