SIEMENS

Data sheet 3RT1064-6NF36



power contactor, AC-3e/AC-3 225 A, 110 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	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 	51 W
 at AC in hot operating state per pole 	17 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 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)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

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 value	275 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	275 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	250 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 °C rated value	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-4 at 400 V rated value	195 A
• at AC-5a up to 690 V rated value	242 A
• at AC-5b up to 400 V rated value	186 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
— up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
— up to 1000 V for current peak value n=20 rated	68 A
value	
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A
— up to 500 V for current peak value n=30 rated value	172 A
— up to 690 V for current peak value n=30 rated value	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	200 A
— at 60 V rated value	200 A

1000.77	00.4
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
with 3 current paths in series at DC-1	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 60 V rated value	7.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 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	200 A
— at 60 V rated value	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
• at AC-3e	
— at 230 V rated value	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	54 kW
at 690 V rated value	82 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	90 000 kVA
 up to 400 V for current peak value n=20 rated value 	150 000 VA
 up to 500 V for current peak value n=20 rated value 	190 000 VA
• up to 690 V for current peak value n=20 rated value	260 000 VA
• up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 000 VA
• up to 400 V for current peak value n=30 rated value	110 000 VA
• up to 500 V for current peak value n=30 rated value	140 000 VA
 up to 690 V for current peak value n=30 rated value 	200 000 VA
 up to 1000 V for current peak value n=30 rated value 	110 000 VA
short-time withstand current in cold operating state up to	
40 °C	

Illimeted to 5 is switching at zero current maximum 2007 A; Use minimum cross-section acc to AC-1 rated value 2007 A; Us				
emited to 10 a switching at zero current maximum 2082 A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star A; Use minimum cross-section act. to AC-1 rated value 1 star AC-1 rated value 2 star AC-2 rated value 2 star AC-3 rated value 2 star AC-4 rated value 3 star AC-4 rated value 4 star AC-4 rated v	limited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value		
# limited to 30 a switching at zero current maximum # limited to 30 a switching at zero current maximum # limited to 30 a switching at zero current maximum # limited to 30 a switching at zero current maximum # at AC				
■ Imitiact to 80 a switching at zero current maximum	-			
Inches a writching frequency	<u> </u>			
* # AC		1 144 A; Use minimum cross-section acc. to AC-1 rated value		
## ACC operating frequency ## AC-1 maximum ## A AC-2 maximum ## A AC-3 maximum ## ACC ## AC-3 maximum ## AC-3 ma				
operating frequency at AC-3 maximum boto 1th at AC-3 maximum 100 1th Control supply voltage at AC at BC Hz rated value at 16 DHz rated value at 16 DHz rated value by per of voltage at DC a rated value at 16 DHz rated value at 16 DHz rated value by be 127 V at 16 DHz rated value by be 127 V at 16 DHz rated value by be 127 V at 16 DHz rated value control supply voltage at DC a rated value by be 127 V at 16 DHz rated value control supply voltage at DC a rated value by be 127 V control supply voltage at DC a rated value consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input daccording to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 consumed current at PLC-control				
A AC-I maximum		1 000 1/h		
	operating frequency			
	• at AC-1 maximum			
	• at AC-2 maximum	250 1/h		
** AK-C4 maximum	• at AC-3 maximum	500 1/h		
Control circuit/ Control Type of voltage of the control supply voltage ACIDC	• at AC-3e maximum	500 1/h		
type of voltage of the control supply voltage at AC - at 60 Hz rated value - at 60 Hz - initial value - at 60 Hz - at 60		130 1/h		
Control supply voltage at AC	Control circuit/ Control			
• at 50 Hz rated value 96 127 V	type of voltage of the control supply voltage	AC/DC		
• at 80 Hz rated value 98 127 V control supply voltage at DC • rated value 98 127 V poperating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8 • illul-scale value 0.8	control supply voltage at AC			
control supply voltage at DC	at 50 Hz rated value	96 127 V		
	at 60 Hz rated value	96 127 V		
operating range factor control supply voltage rated value of magnet coil at DC initial value 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.8 1.1 1.1 0.8 1.1 1	control supply voltage at DC			
minglet coll at DC • initial value 0.8 • intil-scale value 0.1.1 operating range factor control supply voltage rated value of magnet coll at AC • at 50 Hz 0.8 1.1 • yee of PLC-control input according to IEC 60947-1 type of PLC-control input accordin	rated value	96 127 V		
■ full-scale value Operating range factor control supply voltage rated value of magnet coil at AC ■ at 50 Hz ■ at 60 Hz Summed current at PLC-control input according to IEC 60947-1 Type 2 consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value Operating range factor of the voltage at PLC-control input design of the surge suppressor with varistor apparent pick-up power of magnet coil at AC ■ at 50 Hz ■ at 60 Hz				
operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz type of PLC-control input according to IEC 60947-1 type 2 consumed current at PLC-control input according to IEC 60947-1 rype 2 20 mA voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz ball ball ball ball ball ball ball bal	• initial value	0.8		
magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz type of PLC-control input according to IEC 60947-1 type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor supparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz at 60 Hz at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz alt 60 Hz alt 60 Hz blick of the burge suppressor and the surge suppressor and the surge suppressor apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz alt 60 Hz blick of the surge suppressor alt 50 Hz • at 60 Hz blick of the surge suppressor alt 50 Hz • at 60 Hz closing power of magnet coil at DC blick of the surge suppressor at AC • at AC • at AC • at DC opening delay • at AC • at DC opening delay • at AC • at DC arcing time control version of the switch operating mechanism Auxillary effcult number of NC contacts for auxillary contacts instantaneous contact number of NC contacts for auxillary contacts instantaneous contact number of NC contacts for auxillary contacts instantaneous contact 2	full-scale value	1.1		
type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 80947-1 voltage at PLC-control input rated value voltage at PLC-control input according to IEC voltage at Corollar value vith varistor apparent pick-up power of magnet coil at AC val 50 Hz val 60 Hz	● at 50 Hz	0.8 1.1		
consumed current at PLC-control input according to IEC 60947-1 maximum voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60	● at 60 Hz	0.8 1.1		
voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 10 ductive power factor with closing power of the coil • at 50 Hz • at 60 Hz 2 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz 2 apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC closing power of magnet coil at DC closing delay • at AC • at DC • at DC • at DC • at DC • arcing time control version of the switch operating mechanism Auxiliary direvit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous 2 contact number of NC contacts for auxiliary contacts instantaneous 2	type of PLC-control input according to IEC 60947-1	Type 2		
operating range factor of the voltage at PLC-control input design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC blolding power of magnet coil at DC closing delay • at AC • at DC • at CC •		20 mA		
design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz Closing power of magnet coil at DC bloiding power of magnet coil at DC closing power of magnet coil at DC sat AC • at AC • at DC • at DC	voltage at PLC-control input rated value	24 V		
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC tolding power of magnet coil at DC sat AC • at AC • at AC • at AC • at DC sat SDV sat SDV sat SDV sat SDV sat SDV sat SDV s	operating range factor of the voltage at PLC-control input	0.8 1.1		
at 50 Hz at 60 Hz at 50 Hz at 50 Hz but at 50 Hz at 50 Hz at 60 Hz care at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz but at 60 Hz at 60 Hz closing power actor with the holding power of the coil at 60 Hz closing power of magnet coil at DC but at 60 Hz closing power of magnet coil at DC but at AC	design of the surge suppressor	with varistor		
at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz but at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing power of magnet coil at DC at AC at	apparent pick-up power of magnet coil at AC			
inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz but 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at A	• at 50 Hz	530 VA		
at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz but for Hz at 60 Hz closing power of magnet coil at DC but folding power of magnet coil at DC but folding power of magnet coil at DC but folding power of magnet coil at DC closing delay at AC at	• at 60 Hz	530 VA		
apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 50 Hz at 60 Hz build at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz build at 50 Hz at 60 Hz build at 50 Hz at 60 Hz closing power of magnet coil at DC building power of magnet coil at DC closing delay at AC build at AC at AC at AC at AC at AC build at AC at AC at AC at AC at AC at AC build at AC at AC at AC at AC build at AC at AC at AC at AC build at AC build at AC build at AC contact for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	inductive power factor with closing power of the coil			
apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at DC at DC st. 80 ms opening delay • at AC • at DC • at DC 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 2	● at 50 Hz	0.8		
at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 60 Hz but 60 Hz at 50 Hz at 60 Hz at 60 Hz but 60 Hz closing power of magnet coil at DC but 60 Hg magnet coil at DC but 6		0.8		
at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.4 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC at DC 45 80 ms opening delay at AC at DC at DC 80 100 ms 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 2	apparent holding power of magnet coil at AC			
inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at AC • at DC • at D	● at 50 Hz	8.5 VA		
at 50 Hz at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC at DC at AC at AC at AC at AC at AC at AC bolding delay at AC at AC at AC at AC bolding delay at AC at AC at AC bolding delay at AC at AC bolding delay at AC at AC bolding delay at AC bolding de	● at 60 Hz	8.5 VA		
otosing power of magnet coil at DC holding power of magnet coil at DC closing delay ot AC ot DC otening delay ot AC oth AC	inductive power factor with the holding power of the coil			
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 45 80 ms opening delay • at AC • at DC 80 100 ms • at DC arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	● at 50 Hz	0.4		
holding power of magnet coil at DC closing delay at AC at DC 45 80 ms opening delay at AC at AC 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 number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	● at 60 Hz	0.4		
closing delay • at AC • at DC • at AC • at DC • at AC • at DC • at D	closing power of magnet coil at DC	580 W		
 at AC at DC 45 80 ms opening delay at AC at DC at DC at DC at DC at DC arcing time control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2 	holding power of magnet coil at DC	3.4 W		
at DC opening delay at AC at DC at	closing delay			
opening delay • at AC • 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 number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at AC	45 80 ms		
at AC at DC at DC acring time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at DC	45 80 ms		
● at DC arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	opening delay			
arcing time 10 15 ms control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at AC	80 100 ms		
control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	• at DC	80 100 ms		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	arcing time	10 15 ms		
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)		
contact 2 number of NO contacts for auxiliary contacts instantaneous 2	Auxiliary circuit			
		2		
		2		

operational current at AC-12 maximum	10 A			
operational current at AC-12 maximum	IVA			
at 230 V rated value	6 A			
 at 400 V rated value at 500 V rated value 	3 A			
	2 A			
at 690 V rated value	1 A			
operational current at DC-12	40.4			
• 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)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	180 A			
 at 600 V rated value 	192 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor				
— at 200/208 V rated value	60 hp			
— at 220/230 V rated value	75 hp			
— at 460/480 V rated value	150 hp			
— at 575/600 V rated value	200 hp			
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: 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			
With type of deelignment 2 required	kA)			
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)			
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			
fastening method • side-by-side mounting	Screw fixing Yes			
_				
side-by-side mounting	Yes			
side-by-side mounting height	Yes 210 mm			
side-by-side mounting height width	Yes 210 mm 145 mm			
side-by-side mounting height width depth	Yes 210 mm 145 mm			
side-by-side mounting height width depth required spacing	Yes 210 mm 145 mm			
side-by-side mounting height width depth required spacing	Yes 210 mm 145 mm 202 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	Yes 210 mm 145 mm 202 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	Yes 210 mm 145 mm 202 mm 10 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm			
side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 0 mm			
side-by-side mounting height width depth required spacing with side-by-side mounting — forwards — upwards — downwards — at the side for grounded parts — forwards — upwards — at the side for grounded parts — forwards — upwards — upwards — at the side	Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm			

famounds	00		
— 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		
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		
B10 value with high demand rate according to SN 31920	1 000 000		
T1 value for proof test interval or service life according to IEC 61508	20 a		
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 OFF	Yes		
Certificates/ approvals			
General Product Approval			

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity
Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other













other			Railway	
Confirmation	Miscellaneous	Confirmation	Vibration and Shock	Special Test Certific-

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT1064-6NF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6NF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6NF36

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

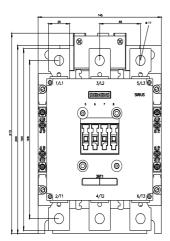
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6NF36&lang=en

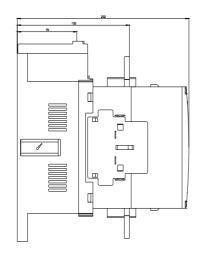
Characteristic: Tripping characteristics, I2t, Let-through current

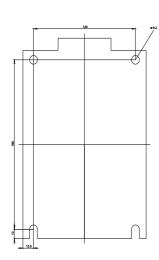
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6NF36/char

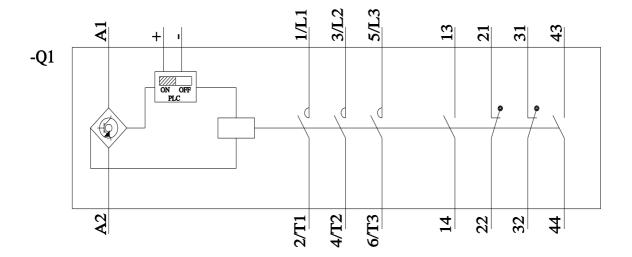
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6NF36&objecttype=14&gridview=view1









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