SIEMENS

Data sheet 3RT1066-2NB36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 21-27, 3 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic main circuit: busbar control and auxiliary circuit: spring-loaded 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 	66 W
 at AC in hot operating state per pole 	22 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 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
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 $^{\circ}\text{C}$ rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	200.4
— 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-3e	
— 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 value	95 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	195 A
— up to 400 V for current peak value n=30 rated value	195 A
— 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	195 A
— up to 1000 V for current peak value n=30 rated value	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	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 august noths in sovies at DC 1	
 with 2 current paths in series at DC-1 	
— at 24 V rated value	300 A
·	300 A 300 A

-t 000 Vt- dl	000 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	
— at 24 V rated value	300 A
— at 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 	
— 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	
— 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	
— 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-	
4	
• 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 °C	

# limited to 15 switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero current maximum # limited to 10 s switching at zero # at AC 1 maximum # limited to 10 s switching at zero # at AC 2 maximum # limited to 10 switching frequency # limited to 10 switching frequency # limited to 10 switching frequency # limited to 10 swit		55044 11		
Initiated to 10 a switching at zero current maximum 188 A; Use minimum cross-section acc. to AC-1 rated value 1888 A; Use minimum cross-section acc.	limited to 1 s switching at zero current maximum	5 524 A; Use minimum cross-section acc. to AC-1 rated value		
# ilmided to 50 a switching of zero current maximum 1883 A, Use minimum cross-section acc. to AC-1 rated value 1885 A, Use minimum cross-section acc. to AC-1 rated value 1896 A, Use minimum cross-section acc. to AC-1 rated value 1896 A, Use minimum cross-section acc. to AC-1 rated value 1896 A, Use minimum cross-section acc. to AC-1 rated value of the according rated value of the				
milmid to 00 s widthing at zero current maximum 1.445 & Use minimum cross-section acc. to AC-1 rated value 1.000 th	-			
no-load writching frequency at AC at DC operating frequency at AC-2 maximum at AC-2 maximum at AC-3 maximum 500 1th at AC-4 maximum 500 1th 500 1th	-			
*** AC		1 445 A; Use minimum cross-section acc. to AC-1 rated value		
## AC-1 maximum				
operating frequency a AC-1 maximum a AC-3 maximum boo 1th a AC-3 maximum boo 1th a AC-4 maximum control arcinutic Control bype of voltage of the control supply voltage control supply voltage at AC a 150 Hz rated value a 1 27.3 V a 160 Hz rated value 21 27.3 V a 160 Hz rated value 21 27.3 V a 160 Hz rated value 21 27.3 V poparating range factor control supply voltage rated value of magnet coil at DC i milital value 5 milital value 1.1 operating range factor control supply voltage rated value of magnet coil at AC a 150 Hz a 150 Hz bype of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 control version of the voltage at PLC control input according to IEC 60947-	• at AC	1 000 1/h		
** at AC-2 maximum	• at DC	1 000 1/h		
	operating frequency			
■ at AC-3 maximum ■ at AC-4 maximum ■ at AC-3 maximum ■ at AC-4 maximum ■ at BC-4 maximum ■ at AC-4 maximum ■ at BC-4 maximum ■ at AC-4 maximum ■ at BC-4 maximu	• at AC-1 maximum	750 1/h		
e al AC-3e maximum al AC-4 maximum 30 th 300	• at AC-2 maximum	250 1/h		
+ ot AC-4 maximum	• at AC-3 maximum	500 1/h		
Control circuit/ Control Type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value 21 27.3 V control supply voltage at DC at rated value at 60 Hz bye of PLC-control input according to IEC 60847-1 bye of PLC-control input according to IEC 60847-1 consumed current at PLC-control input according to IEC 60847-1 consumed current at PLC-control input according to IEC 60847-1 consumed current at PLC-control input according to IEC 60847-1 at 60 Hz consumed current at PLC-control input according to IEC 60847-1 at 60 Hz consumed current at PLC-control input according to IEC 60847-1 at 60 Hz consumed current at PLC-control input according to IEC 60847-1 at 60 Hz consumed current at PLC-control input according to IEC 60847-1 at 60 Hz consumed current at PLC-control input according to IEC 60847-1 at 60 Hz at	• at AC-3e maximum	500 1/h		
type of voltage of the control supply voltage control supply voltage at AC • at 60 Hz rated value 21 27.3 V control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value 0.8 • full scale value operating range factor control supply voltage rated value of magnet coil at AC • 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 type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 type of PLC-control input rated value voltage at PLC-control input rated value operating range factor of the voltage at PLC-control input design of the surge suppressor apparent plck-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz spaperent holding power of magnet coil at AC • at 60 Hz • at 60 Hz spaperent holding power of magnet coil at AC • at 60 Hz • a	at AC-4 maximum	130 1/h		
control supply voltage at AC • at 60 Hz rafed value • at 60 Hz • at 6	Control circuit/ Control			
• at 50 Hz rated value 21 27.3 V at 50 Hz rated value 31 Pz rated value 41 Pz rated value 41 Pz rated value 42 Pz rated value 42 Pz rated value 43 Pz rated value 44 Pz rated value 45 Pz rated value 45 Pz rated value 45 Pz rated value 46 Pz rated value 46 Pz rated value 47 Pz rated value 47 Pz rated value 47 Pz rated value 48 Pz rated value 49 Pz rated val	type of voltage of the control supply voltage	AC/DC		
• at 60 Hz rated value control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • limitial value • at 50 Hz • at 50 Hz • at 60 Hz voltage at PLC-control input according to IEC 60947-1 voltage at PLC-control input rated value oporating 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 60 Hz	control supply voltage at AC			
control supply voltage at DC	• at 50 Hz rated value	21 27.3 V		
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operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 80 Hz type of PLC-control input according to IEC 60947-1 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	control supply voltage at DC			
magnet coil at DC	rated value	21 27.3 V		
e full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 50 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 with varistor 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 inductive power of magnet coil at AC • at 60 Hz				
operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz billion at 50 Hz 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 Hz to Hz to Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz billion at 60 Hz billion at 60 Hz billion at 60 Hz at 60	• initial value	0.8		
magnet coil at AC at 50 Hz at 60 Hz bit 60 Hz at 60 Hz at 60 Hz bit 60 Hz b	• full-scale value	1.1		
• 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 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 60 Hz base of the coil • at 50 Hz • at 60 Hz at 60 Hz at 60 Hz base of the coil • at 50 Hz • at 60 Hz at 60 Hz at 60 Hz base of the coil • at 50 Hz • at 60 Hz base of the coil • 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 power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC sarcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous corliact control row row and restantaneous corliact 2 20 mA Type 2 20 mA 24 V 20 mA 24 V 20 mA 24 V 20 mA 24 V 20 mA 3				
type of PLC-control input according to IEC 60947-1 consumed current at PLC-control input according to IEC 60947-1 woltage at PLC-control input rated value voltage at PLC-control input value viit varistor viit	• 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 24 V 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 10.8 • 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 H2 • 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 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 • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz •	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 closing power of magnet coil at DC bloiding power of magnet coil at DC 580 W holding power of magnet coil at DC bloiding power of magnet coil at DC • at AC • at DC • at AC		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 • at 60 Hz • 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 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 say W holding power of magnet coil at DC closing delay • at AC • at DC • at D	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 50 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 inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC closing power of magnet coil at DC s80 W holding power of magnet coil at DC closing delay • at AC • at DC at AC • at DC s80 100 ms • 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 NC contacts for auxiliary contacts instantaneous 2	operating range factor of the voltage at PLC-control input	0.8 1.1		
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at 50 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz but at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz but at 60 Hz closing power of magnet coil at DC bolding power of magnet coil at DC closing delay at AC	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 50 Hz at 60 Hz 8.5 VA 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 bolding power of magnet coil at DC closing delay at AC	• 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 below at 60 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 at AC	• at 60 Hz	530 VA		
apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz but at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC but AC at AC at AC at AC at AC at AC but AC at AC at AC at AC at AC but AC at AC at AC at AC but AC at AC at AC but	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 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 AC • at DC san Magnet • at AC • at DC Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact axis VA 8.5 VA 8. V	• at 50 Hz	0.8		
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 closing power of magnet coil at DC bolding power of magnet coil at DC sat AC at AC	• at 60 Hz	0.8		
at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz tolosing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC at AC at AC at AC at AC at AC at AC be at DC at AC at AC at AC be at DC copening delay at AC at AC at AC be at DC at AC copening delay at AC be at DC at Copening delay control version of the switch operating mechanism 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	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 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 DC copening delay at AC at AC at AC at AC at AC at AC bolding power of magnet coil at DC 45 80 ms copening delay at AC	• at 60 Hz	8.5 VA		
olsing power of magnet coil at DC folding power of magnet coil at DC solve for auxiliary contacts instantaneous ole ing power of magnet coil at DC solve for auxiliary contacts instantaneous ole ing power of magnet coil at DC solve for auxiliary contacts instantaneous	inductive power factor with the holding power of the coil			
closing power of magnet coil at DC holding power of magnet coil at DC 3.4 W closing delay at AC at DC 45 80 ms opening delay at AC at DC 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 number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	• 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 DC 80 100 ms • 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	• at 60 Hz	0.4		
closing delay	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 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 	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 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	closing delay			
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 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 	opening delay			
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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	arcing time			
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	-	PLC-IN or Standard A1 - A2 (adjustable)		
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous 2	Auxiliary circuit			
, and the second se	number of NC contacts for auxiliary contacts instantaneous	2		
		2		

operational current at AC-12 maximum	10 A			
operational current at AC-12 maximum	IVA			
at 230 V rated value	6 A			
	3 A			
 at 400 V rated value at 500 V rated value 	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	302 A			
 at 600 V rated value 	289 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor				
— at 200/208 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	300 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			
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	kA)			
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mstanation/ mounting/ unitensions				
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
mounting position	+/- 22.5° tiltable to the front and back			
mounting position fastening method	+/- 22.5° tiltable to the front and back screw fixing			
mounting position fastening method • side-by-side mounting	+/- 22.5° tiltable to the front and back screw fixing Yes			
mounting position fastening method • side-by-side mounting height	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm			
mounting position fastening method • side-by-side mounting height width	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm			
mounting position fastening method • side-by-side mounting height width depth	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm			
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — in forwards — upwards — at the side • for drounded parts — at the side — at the side	+/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 0 mm 10 mm 10 mm			

— 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 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
of magnet coil	Spring-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 	0.25 2.5 mm²			
 finely stranded with core end processing 	0.25 1.5 mm²			
 finely stranded without core end processing 	0.25 2.5 mm²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid	2x (0.25 2.5 mm²)			
— solid or stranded	2x (0,25 2,5 mm²)			
 finely stranded with core end processing 	2x (0.25 1.5 mm²)			
 finely stranded without core end processing 	2x (0.25 2.5 mm²)			
for AWG cables for auxiliary contacts	2x (24 14)			
AWG number as coded connectable conductor cross				
section	24 14			
for auxiliary contacts Safety related data	24 14			
product function • mirror contact according to IEC 60947.4.1	Yes			
 mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 	No			
B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	1 000 000 20 a			
61508				
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 Safety/Safety of Ma-EMC **Declaration of Conformity Test Certificates** chinery



Type Examination Cer-tificate



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping other













other			Railway	
<u>Miscellaneous</u>	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=3RT1066-2NB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-2NB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2NB36

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

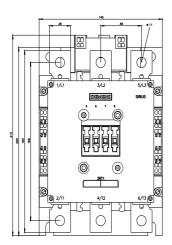
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-2NB36&lang=en

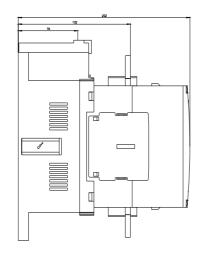
Characteristic: Tripping characteristics, I2t, Let-through current

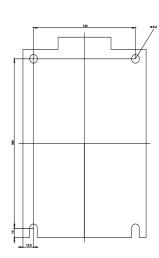
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-2NB36/char

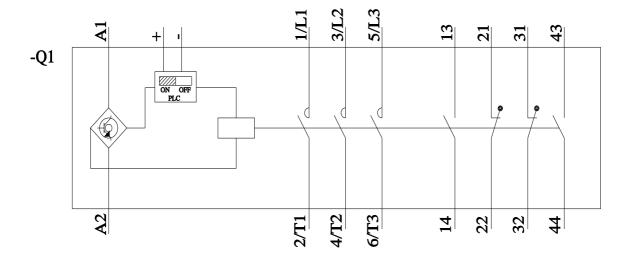
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-2NB36&objecttype=14&gridview=view1









last modified: 5/8/2023 🖸