SIEMENS

Data sheet 3RT1066-2NB36



CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 21-27.3V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH 24 V DC PLC INTERFACE CAGE CLAMP TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

General technical data:			
Insulation voltage			
Rated value	V	1 000	
Degree of pollution		3	
Surge voltage resistance Rated value	kV	8	
Mechanical service life (switching cycles)			
 of the contactor typical 		10 000 000	
 of the contactor with added electronics- compatible auxiliary switch block typical 		5 000 000	
 of the contactor with added auxiliary switch block typical 		10 000 000	
Thermal short-time current restricted to 10 s	Α	2 400	
Protection class IP			
• on the front		IP00	
• of the terminal		IP00	
Equipment marking			
• acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	

Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Operating current	

• at AC-1		
— at 400 V at ambient temperature 40 °C	Α	330
Rated value		
— up to 690 V at ambient temperature 40 °C	Α	330
Rated value		
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$	Α	300
Rated value		
• at AC-3		
— at 400 V Rated value	Α	300
— at 690 V Rated value	Α	280
● at AC-4 at 400 V Rated value	Α	280
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	33
• at DC-3 at DC-5		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	3
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	300
• at DC-3 at DC-5		
— at 110 V Rated value	Α	300
— at 24 V Rated value	Α	300
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	300
— at 110 V Rated value	Α	300
• at DC-3 at DC-5		
— at 110 V Rated value	Α	300
— at 24 V Rated value	Α	300
Operating power		
• at AC-1 at 400 V Rated value	kW	197
• at AC-2 at 400 V Rated value	kW	171
• at AC-4 at 400 V Rated value	W	160 000
Operating power		
● at AC-1		
— at 230 V at 60 °C Rated value	kW	113
— at 690 V at 60 °C Rated value	kW	340
— at 690 V Rated value	kW	340
● at AC-3		

— at 230 V Rated value	kW	97
— at 400 V Rated value	kW	171
— at 500 V Rated value	kW	215
— at 690 V Rated value	kW	280
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	71
• at 690 V Rated value	kW	112
Operating frequency		
• at AC-3 maximum	1/h	500

Control circuit/ Control:			
Type of voltage of the control supply voltage		AC/DC	
Control supply voltage with AC			
● at 50 Hz Rated value	V	21 27.3	
● at 60 Hz Rated value	V	21 27.3	
Control supply voltage for DC			
Rated value	V	21 27.3	
Rated value	Hz	40	
Control supply voltage frequency 2 Rated value	Hz	60	
Operating range factor control supply voltage rated			
value of the magnet coil with AC			
● at 50 Hz		0.8 1.1	
● at 60 Hz		0.8 1.1	
Operating range factor control supply voltage rated		0.8 1.1	
value of the magnet coil for DC			
Design of the surge suppressor		with varistor	
Apparent pick-up power of the magnet coil with AC	V·A	530	
Apparent holding power of the magnet coil with AC	V·A	5	
Closing power of the magnet coil for DC	W	580	
Holding power of the magnet coil for DC	W	3.8	
Inductive power factor			
 with closing power of the coil 		0.8	
 with the holding power of the coil 		0.4	

Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
 instantaneous contact 		2
Number of NO contacts		
• for auxiliary contacts		
 instantaneous contact 		2
Operating current at AC-15		
● at 230 V Rated value	Α	6

at 400 V Rated value		
	Α	3
Operating current		
● at DC-12 at 220 V Rated value	Α	1
• at DC-13 at 220 V Rated value	Α	0.3
Operating current		
• at DC-12		
— at 60 V Rated value	Α	6
— at 110 V Rated value	Α	3
• at DC-13		
— at 24 V Rated value	Α	10
— at 60 V Rated value	Α	2
— at 110 V Rated value	Α	1
UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the main circuit 		
— with type of assignment 1 required		fuse gL/gG: 500 A
— with type of assignment 2 required		fuse gL/gG: 400 A
 for short-circuit protection of the auxiliary switch required 		fuse gL/gG: 10 A
•		
Installation/ mounting/ dimensions:		serew fiving
Mounting type		screw fixing Yes
Mounting type ● Side-by-side mounting	mm	Yes
Mounting type • Side-by-side mounting Height	mm	Yes 210
Mounting type • Side-by-side mounting Height Width	mm	Yes 210 145
Mounting type • Side-by-side mounting Height Width Depth		Yes 210
Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 210 145
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts	mm mm	Yes 210 145 202
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side	mm	Yes 210 145
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm mm	Yes 210 145 202
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection	mm mm	Yes 210 145 202 10
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit	mm mm	Yes 210 145 202 10 Cage Clamp terminals
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit	mm mm	Yes 210 145 202 10
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section	mm mm	Yes 210 145 202 10 Cage Clamp terminals Cage Clamp terminals
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts	mm mm	Yes 210 145 202 10 Cage Clamp terminals
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts • for auxiliary contacts	mm mm	Yes 210 145 202 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts	mm mm	Yes 210 145 202 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil 2x (0.25 2.5 mm²)
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit Type of connectable conductor cross-section • for AWG conductors for main contacts • for auxiliary contacts	mm mm	Yes 210 145 202 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil

2x (24 ... 14) • for AWG conductors for auxiliary contacts

Mechanical data: Size of contactor S10

Ambient conditions: Installation altitude at height above sea level 2 000 m maximum Ambient temperature °C -25 ... +60 during operation °C -55 ... +80 during storage

Certificates/ approvals:

Functional General Product Approval Declaration of Conformity Safety/Safety of Machinery









Type Examination



Test	Shipping Approval	other
Certificates		

Special Test Certificate







GL



other

other

Confirmation

Environmental Confirmations

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

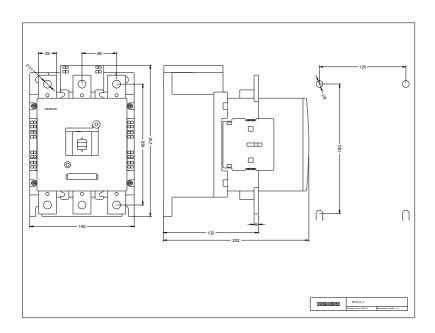
http://www.siemens.com/industrymall

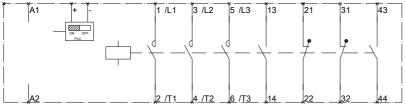
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10662NB36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10662NB36/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10662NB36&lang=en





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