SIEMENS

Data sheet

3RT1064-6NB36



CONTACTOR, 110KW/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 24V DC PLC INTERFACE SCREW 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	А	1 800
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		
Rated valueA- up to 690 V at ambient temperature 60 °CA250Rated valueA250- up to 690 V at ambient temperature 60 °CA250Rated valueA225- at 400 V Rated valueA195- at 400 V Rated valueA195- at 400 V Rated valueA200- at 10 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA25- at 24 V Rated valueA200- at 110 V Rated valueA25- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200 <t< td=""><td>— at 400 V at ambient temperature 40 °C</td><td>А</td><td>275</td></t<>	— at 400 V at ambient temperature 40 °C	А	275
Rated valueA250Rated value-y-up to 690 V at ambient temperature 60 °CA250Rated valueA225-at 400 V Rated valueA225-at 600 V Rated valueA225-at AC-4 at 400 V Rated valueA225-at AC-4 at 400 V Rated valueA225-at AC-4 at 400 V Rated valueA200at Bat DC-3at DC-3 at DC-5at 24 V Rated valueA200-at 110 V Rated valueA200-at 100 V Rated valueA200 <td></td> <td></td> <td></td>			
	— up to 690 V at ambient temperature 40 °C	А	275
Rated valueImage: state valueImage: state valueA225- at 400 V Rated valueA225- at 600 V Rated valueA195Operating current with 1 current path • at DC-1Image: state valueA200- at 24 V Rated valueA200- at 100 V Rated valueA18• at DC-3 at DC-5Image: state valueA200- at 110 V Rated valueA200- at 124 V Rated valueA200- at 124 V Rated valueA200- at 100 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200-	Rated value		
• at AC-3 Image: Constraint of the section of the sectin of the section of the section of the section of the s		А	250
at 690 V Rated value A 225 • at AC-4 at 400 V Rated value A 195 Operating current with 1 current path - - • at DC-1 - - - at 24 V Rated value A 200 - at 110 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A	• at AC-3		
eta C-C-4 at 400 V Rated valueA195Operating current with 1 current path • at DC-1A200- at 24 V Rated valueA18• at DC-3 at DC-5 at 24 V Rated valueA200- at 100 V Rated valueA200- at 110 V Rated valueA200- at 124 V Rated valueA200- at 24 V Rated valueA200- at 100 V Rated valueA200- at 100 V Rated valueA200- at 10 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 100 V Rated valueA200- at 24 V Rated value<	— at 400 V Rated value	A	
Operating current with 1 current path • at DC-1 A 200 - at 24 V Rated value A 18 - at 10 V Rated value A 200 - at 110 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 10 V Rated value A 200 - at 24 V Rated value <td>— at 690 V Rated value</td> <td>А</td> <td>225</td>	— at 690 V Rated value	А	225
• at DC-1 A 200 - at 24 V Rated value A 18 • at DC-3 at DC-5 - - - at 24 V Rated value A 200 - at 110 V Rated value A 200 - at 24 V Rated value A 200 - at 10 V Rated value A 200 - at 110 V Rated value A 200 - at 110 V Rated value A 200 - at 110 V Rated value A 200 - at 24 V Rated value A 200 - at 110 V Rated value A 200 - at 110 V Rated value A 200 - at 110 V Rated value A 200 - at 4 V Rated value A 200 - at 4 V Rated value A 200 - at	• at AC-4 at 400 V Rated value	А	195
A200- at 24 V Rated valueA18• at DC-3 at DC-5 at 24 V Rated valueA200- at 110 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueKW184- at 24 V Rate	Operating current with 1 current path		
InterferenceA18- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA2.5Operating current with 2 current paths in series	● at DC-1		
• at DC-3 at DC-5I- at 24 V Rated valueA200- at 110 V Rated valueA2.5Operating current with 2 current paths in seriesI- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueKW144-	— at 24 V Rated value	А	200
- at 24 V Rated valueA200- at 110 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueKW164- at 24 V Rated valueKW164- at 24 V Rated valueKW128- at 24 V Rated valueKW1000- at 250 V at 60 °C Rated valueKW94- at 600 V at 60 °C Rated valueKW283- at 600 V Rated valueKW283	— at 110 V Rated value	А	18
	● at DC-3 at DC-5		
Operating current with 2 current paths in seriesImage: current with 2 current paths in series• at DC-1 at 24 V Rated valueA- at 110 V Rated valueA• at DC-3 at DC-5 at 110 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 100 V Rated valueA- at 24 V Rated valueA- at 200Operating power at AC-1 at 400 V Rated valueW- at 230 V at 60 °C Rated valueW- at 690 V at 60 °C Rated valueKW- at 690 V Rated valueKW<	— at 24 V Rated value	А	200
• at DC-1 A 200 - at 24 V Rated value A 200 - at 110 V Rated value A 200 • at DC-3 at DC-5 - - - at 110 V Rated value A 200 - at 24 V Rated value A 200 - at 24 V Rated value A 200 Operating current with 3 current paths in series - - • at DC-1 - - - - at 24 V Rated value A 200 - • at DC-1 - - - - - at 24 V Rated value A 200 - - at 10 V Rated value A 200 - • at DC-3 at DC-5 - - - - at 110 V Rated value A 200 - • at AC 10 V Rated value A 200 - • at AC 1 at 400 V Rated value KW 164 - • at AC-1 at 400 V Rated value KW 128 - • at AC-1 - - - - • at AC-1 - - -<	— at 110 V Rated value	А	2.5
- at 24 V Rated valueA200- at 110 V Rated valueA200at DC-3 at DC-5 at 110 V Rated valueA200- at 24 V Rated valueA200Operating current with 3 current paths in series at 24 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueKW164- at 24 V Rated valueKW128- at Ac-1 at 230 V at 60 °C Rated valueKW94- at 690 V Rated valueKW283- at 690 V Rated valueKW283	Operating current with 2 current paths in series		
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Action of the constructionA200- at 10 V Rated valueA200- at 24 V Rated valueA200Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA200- at 10 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueKW164- at AC-1 at 400 V Rated valueKW110 000- at AC-4 at 400 V Rated valueKW94- at 230 V at 60 °C Rated valueKW283- at 690 V Rated valueKW283- at 690 V Rated valueKW283	— at 24 V Rated value	А	200
- at 110 V Rated valueA200- at 24 V Rated valueA200Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA200- at 24 V Rated valueA200- at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueKW164- at 24 V Rated valueKW128- at A00 V Rated valueW110 000Operating power • at AC-1W110 000- at 230 V at 60 °C Rated valueKW94- at 690 V at 60 °C Rated valueKW283- at 690 V Rated valueKW283	— at 110 V Rated value	А	200
Initial relationA200Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA200- at 110 V Rated valueA200- at 110 V Rated valueA200• at DC-3 at DC-5 - at 110 V Rated valueA200- at 110 V Rated valueA200• at AC-1 at 400 V Rated valueA200• at AC-1 at 400 V Rated valueKW164• at AC-2 at 400 V Rated valueKW110 000Operating power • at AC-1W110 000• at AC-1 at 230 V at 60 °C Rated valueKW283- at 690 V Rated valueKW283	• at DC-3 at DC-5		
Operating current with 3 current paths in seriesA200• at DC-1- at 24 V Rated valueA200- at 110 V Rated valueA200• at DC-3 at DC-5 at 110 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200- at 24 V Rated valueA200Operating power• at AC-1 at 400 V Rated valueKW164• at AC-2 at 400 V Rated valueKW128• at AC-4 at 400 V Rated valueW110 000Operating power• at AC-1 at 230 V at 60 °C Rated valueKW94- at 690 V at 60 °C Rated valueKW283- at 690 V Rated valueKW283	— at 110 V Rated value	А	200
• at DC-1 A 200 - at 24 V Rated value A 200 - at 110 V Rated value A 200 • at DC-3 at DC-5 - - - at 110 V Rated value A 200 - at 110 V Rated value A 200 - at 24 V Rated value A 200 • at AC-1 at 400 V Rated value KW 164 • at AC-2 at 400 V Rated value KW 110 000 • at AC-4 at 400 V Rated value W 110 000 • at AC-1 - - • at 690 V at 60 °C Rated value KW 94 - at 690 V Rated value KW 283 - at 690 V Rated value KW <td< td=""><td>— at 24 V Rated value</td><td>А</td><td>200</td></td<>	— at 24 V Rated value	А	200
at 24 V Rated valueA200 at 110 V Rated valueA200• at DC-3 at DC-5 at 110 V Rated valueA200 at 24 V Rated valueA200 at 24 V Rated valueA200Operating power• at AC-1 at 400 V Rated valueKW164• at AC-2 at 400 V Rated valueKW128• at AC-4 at 400 V Rated valueW110 000Operating power• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW94- at 690 V at 60 °C Rated valueKW283- at 690 V Rated valueKW283	Operating current with 3 current paths in series		
- at 110 V Rated valueA200• at DC-3 at DC-5A200- at 110 V Rated valueA200- at 24 V Rated valueA200• at 24 V Rated valueKW164• at AC-1 at 400 V Rated valueKW128• at AC-2 at 400 V Rated valueW110 000• at AC-4 at 400 V Rated valueW110 000• at AC-1	• at DC-1		
• at DC-3 at DC-5II- at 110 V Rated valueA200- at 24 V Rated valueA200Operating power• at AC-1 at 400 V Rated valuekW164• at AC-2 at 400 V Rated valuekW128• at AC-4 at 400 V Rated valueW110 000Operating power• at AC-1• at AC-1KW94- at 690 V at 60 °C Rated valuekW283- at 690 V Rated valuekW283	— at 24 V Rated value	А	200
- at 110 V Rated valueA200- at 24 V Rated valueA200Operating power at AC-1 at 400 V Rated valueKW164- at AC-2 at 400 V Rated valueKW128- at AC-4 at 400 V Rated valueW110 000Operating power at AC-1 at 230 V at 60 °C Rated valueKW94- at 690 V Rated valueKW283- at 690 V Rated valueKW283	— at 110 V Rated value	А	200
at 24 V Rated valueA200Operating power• at AC-1 at 400 V Rated valuekW164• at AC-2 at 400 V Rated valuekW128• at AC-4 at 400 V Rated valueW110 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW94- at 690 V at 60 °C Rated valuekW283- at 690 V Rated valuekW283	• at DC-3 at DC-5		
Operating power• at AC-1 at 400 V Rated valuekW164• at AC-2 at 400 V Rated valuekW128• at AC-4 at 400 V Rated valueW110 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW94- at 690 V at 60 °C Rated valuekW283- at 690 V Rated valuekW283	— at 110 V Rated value	А	200
• at AC-1 at 400 V Rated valuekW164• at AC-2 at 400 V Rated valuekW128• at AC-4 at 400 V Rated valueW110 000Operating power- at AC-1- at 230 V at 60 °C Rated value- at 690 V at 60 °C Rated valuekW94- at 690 V at 60 °C Rated valuekW283- at 690 V Rated valuekW283	— at 24 V Rated value	А	200
• at AC-2 at 400 V Rated value kW 128 • at AC-4 at 400 V Rated value W 110 000 Operating power	Operating power		
• at AC-4 at 400 V Rated valueW110 000Operating powerKWFrance• at AC-1- at 230 V at 60 °C Rated valuekW- at 690 V at 60 °C Rated valuekW94- at 690 V at 60 °C Rated valuekW283- at 690 V Rated valuekW283	• at AC-1 at 400 V Rated value	kW	164
Operating powerImage: Comparison of the c	• at AC-2 at 400 V Rated value	kW	128
• at AC-1 — at 230 V at 60 °C Rated value	• at AC-4 at 400 V Rated value	W	110 000
- at 230 V at 60 °C Rated value kW 94 - at 690 V at 60 °C Rated value kW 283 - at 690 V Rated value kW 283	Operating power		
at 690 V at 60 °C Rated valuekW283 at 690 V Rated valuekW283	• at AC-1		
- at 690 V Rated value kW 283	— at 230 V at 60 °C Rated value	kW	94
	— at 690 V at 60 °C Rated value	kW	283
• at AC-3	— at 690 V Rated value	kW	283
	● at AC-3		

— at 230 V Rated value	kW	73
— at 400 V Rated value	kW	128
— at 500 V Rated value	kW	160
— at 690 V Rated value	kW	223
Operating power for ≥ 200000 operating cycles at	-	
AC-4		
• at 400 V Rated value	kW	54
• at 690 V Rated value	kW	82
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 value of the magnet coil for DC	_	0.8 1.1
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	А	6

• at 400 V Rated value	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	A	0.3
Operating current		
• at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	А	3
• at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	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 		fuse gL/gG: 10 A
required		
Installation/ mounting/ dimensions:		
Mounting type		screw fixing
 Side-by-side mounting 		Yes
Height	mm	210
Width	mm	145
Depth	mm	202
Required spacing		
 for grounded parts 		
— at the side	mm	10
Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for auxiliary and control current circuit 		screw-type terminals
Type of connectable conductor cross-section		
 for AWG conductors for main contacts 		2/0 500 kcmil
 for auxiliary contacts 		
— solid		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 conductors for auxiliary contacts 		2x (20 16), 2x (18 14), 1x 12

echanical data:						
ize of contactor				S10		
nbient conditions:						
stallation altitude at	height above sea	level	m	2 000		
naximum						
mbient temperature						
 during operation 	ı		°C	-25 +60		
 during storage 			°C	-55 +80		
ertificates/ approva	ls:					
General Product	Approval				Functional Safety/Safety	Declaration of Conformity
					of Machinery	
				11. \		
	CSA	EAC	(EG-Konf.
ccc Test Certificates	CSA	Chipping A	pproval			EG-Konf.
	Special Test Certificate				GL	EG-Konf.
Test Certificates Type Test Certificates/Test Report	Certificate	Shipping A				
Test Certificates Type Test Certificates/Test Report		Shipping A				
Test Certificates Type Test Certificates/Test Report Other Environmental	Certificate	Shipping A				

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