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:	
Size of contactor	S10
Insulation voltage	
Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	

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

Main circuit:	
Number of NO contacts for main contacts	3

Number of NC contacts for main contacts 0 Operating 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 — at ambient temperature 60 °C Rated value 250 A • at AC-3 — at 400 V Rated value 225 A — at 690 V Rated value 225 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 120 mm² • at 40 °C minimum permissible 150 mm² Operating current for ≥ 200000 operating cycles at AC-4 • at 400 V Rated value 96 A • at 690 V Rated value 96 A • at 690 V Rated value 200 A • with 1 current path at DC-1 — at 24 V Rated value 200 A — at 110 V Rated value 200 A • with 2 current paths in series at DC-1 — at 24 V Rated value 200 A • with 3 current paths in series at DC-1 — at 24 V Rated value 200 A • with 3 current paths in series at DC-1 — at 24 V Rated value 200 A • with 3 current paths in series at DC-1 — at 24 V Rated value 200 A • with 1 current paths value 200 A • with 1 current path at DC-3 at DC-5	
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— at 110 V Rated value 200 A Operating current	
Operating current	
• with 1 current path at DC-3 at DC-5	
— at 24 V Rated value 200 A	
— at 110 V Rated value 2.5 A	
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V Rated value 200 A	
— at 24 V Rated value 200 A	
• with 3 current paths in series at DC-3 at DC-5	
— at 110 V Rated value 200 A	
— at 24 V Rated value 200 A	
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value 94 kW	
— at 400 V Rated value 164 kW	

— at 690 V Rated value	283 kW
— at 690 V at 60 °C Rated value	283 kW
• at AC-2 at 400 V Rated value	128 kW
• at AC-3	
— at 230 V Rated value	73 kW
— at 400 V Rated value	128 kW
— at 500 V Rated value	160 kW
— at 690 V Rated value	223 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	54 kW
● at 690 V Rated value	82 kW
Thermal short-time current restricted to 10 s	1 800 A
Active power loss at AC-3 at 400 V for rated value of	17 W
the operating current per conductor	
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control:	

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

Inductive power factor with the holding power of the coil	0.4
Closing power of the magnet coil at DC	580 W
Holding power of the magnet coil for DC	3.8 W
Closing delay	
• at AC	45 80 ms
• at DC	45 80 ms
Opening delay	
• at AC	80 100 ms
• at DC	80 100 ms
Arcing time	10 15 ms
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-12 maximum	10 A
Operating current at AC-15	
● at 230 V Rated value	6 A
● at 400 V Rated value	3 A
Operating current at DC-12	
● at 60 V Rated value	6 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1 A
Operating current at DC-13	
• at 24 V Rated value	10 A
● at 60 V Rated value	2 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
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:	

Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	210 mm
Width	145 mm
Depth	202 mm
Required spacing	
for grounded parts	
— at the side	10 mm

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
Type of connectable conductor cross-section	
 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

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Baumusterbescheini gung



Test Certificates

Shipping Approval

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Umweltbestätigung

Bestätigungen

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

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

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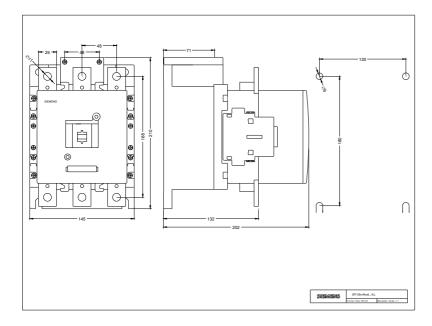
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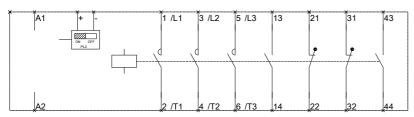
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT10646NB36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10646NB36&lang=en





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