SIEMENS

Data sheet 3RT1276-6NF36



VAC. CONTACTOR, 250KW/400V/AC-3 AC/DC OPERATION UC 96-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH 24V DC PLC INTERFACE

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	4 000
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
A.Ain-circuita		

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 Rated value 	Α	610
 up to 690 V at ambient temperature 40 °C Rated value 	Α	610
— up to 690 V at ambient temperature 60 °C Rated value	Α	550
• at AC-3		
— at 400 V Rated value	Α	500
— at 690 V Rated value	Α	500
• at AC-4 at 400 V Rated value	Α	430
Operating power		
• at AC-1 at 400 V Rated value	kW	362
• at AC-2 at 400 V Rated value	kW	291
• at AC-4 at 400 V Rated value	W	250 000
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	208
— at 690 V at 60 °C Rated value	kW	624
— at 690 V Rated value	kW	624
• at AC-3		
— at 230 V Rated value	kW	164
— at 400 V Rated value	kW	291
— at 500 V Rated value	kW	363
— at 690 V Rated value	kW	507
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	122
• at 690 V Rated value	kW	212
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
● at 50 Hz Rated value	V	96 127
• at 60 Hz Rated value	V	96 127
Control supply voltage for DC		
Rated value	V	96 127
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 60 Hz Operating range factor control supply voltage rated value of the magnet coll for DC Design of the surge suppressor Apparent pick-up power of the magnet coll with AC Apparent holding power of the magnet coll with AC Closing power of the magnet coll for DC W 800 Holding power of the magnet coll for DC W 5 Inductive power factor • with closing power of the coll • with the holding power of the coll • with the holding power of the coll • with the holding power of the coll • for auxiliary contacts • at 230 V Rated value • at 60 V Rated value • at 60 V Rated value • at 10 C-12 at 220 V Rated value • at 10 C-13 at 220 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 C-13 — at 24 V Rated value • at 60 V Rated value • at 60 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 V Rated value • at 10 C-13 — at 24 V Rated value • at 10 V Rated value • at 10 V Rated value • at 60 V Rated value • at 60 V Rated value • at 60 V Rated value • at 10 V Rated	● at 50 Hz		0.8 1.1
value of the magnet coil for DC Design of the surge surpressor Apparent pick-up power of the magnet coil with AC Apparent holding power of the magnet coil with AC Closing power of the magnet coil for DC W 800 Holding power of the magnet coil for DC W 5 Inductive power factor • with closing power of the coil • with the holding power of the coil • for auxiliary circuit. Number of NC contacts • for auxiliary contacts • at 230 V Rated value • at 20 V Rated value • at 20 V Rated value • at DC-12 at 220 V Rated value • at DC-13 at 220 V Rated value • at DC-13 — at 60 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 25 V Rated value • at DC-13 — at 26 V Rated value • at DC-13 — at 27 V Rated value • at DC-13 — at 28 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at 29 V Rated value • at DC-13 — at	● at 60 Hz		0.8 1.1
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Closing power of the magnet coil for DC Holding power of the magnet coil for DC Inductive power factor • with closing power of the coil • with the holding power of the coil Auxiliary circuits Number of NC contacts • for auxiliary contacts — instantaneous contact 2 Number of NO contacts • for auxiliary contacts — instantaneous contact 2 Poperating current at AC-15 • at 230 V Rated value • at 400 V Rated value • at 20 V Rated value • at DC-12 at 220 V Rated value • at DC-13 at 220 V Rated value • at DC-13 at 220 V Rated value • at DC-12 — at 60 V Rated value • at 110 V Rated value • at DC-13 — at 24 V Rated value • at DC-13 — at 24 V Rated value • at DC V Rated value • at 10 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 2 — at 110 V Rated value A 3 IU/CSA ratings: Contact rating of the suxiliary contacts acc. to UL Short-circuit: — with type of assignment 1 required If use gL/gG: 800 A			
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Auxiliary circuit: Number of NC contacts • for auxiliary contacts - instantaneous contact 2 Number of NO contacts • for auxiliary contacts • for auxiliary contacts - instantaneous contact 2 Operating current at AC-15 • at 230 V Rated value • at 400 V Rated value • at DC-12 at 220 V Rated value • at DC-13 at 220 V Rated value • at DC-12 — at 60 V Rated value A			
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— at 110 V Rated value A 1 UL/CSA ratings: Contact rating of the auxiliary contacts acc. to UL Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A	— at 24 V Rated value	Α	10
— at 110 V Rated value A 1 UL/CSA ratings: Contact rating of the auxiliary contacts acc. to UL Short-circuit: Design of the fuse link ● for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A	— at 60 V Rated value	Α	2
Contact rating of the auxiliary contacts acc. to UL Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A	— at 110 V Rated value	Α	1
Contact rating of the auxiliary contacts acc. to UL Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A	III ICSA ratings:		
Short-circuit: Design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A			A600 / Q600
Design of the fuse link ● for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A	·		
 for short-circuit protection of the main circuit — with type of assignment 1 required fuse gL/gG: 800 A 			
— with type of assignment 1 required fuse gL/gG: 800 A	-		
			f 1/ 0 000 A
— with type of assignment 2 required fuse gL/gG: 800 A			
	 — with type of assignment 2 required 		fuse gL/gG: 800 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	mm	210
Width	mm	145
Depth	mm	206
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
Mechanical data:		
Size of contactor		S12
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
during operation	°C	-25 +60
• during storage	°C	-55 + 80

Certificates/ approvals:

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



Test Certificates

Shipping Approval

other

Type Test
Certificates/Test
Report

Special Test Certificate







Confirmation

other

other

Environmental Confirmations

Further informatior

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

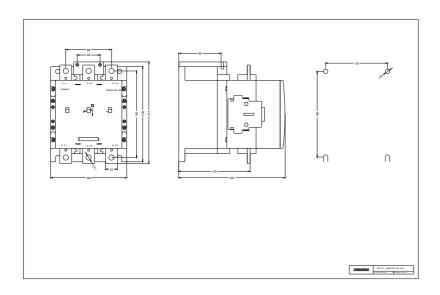
Cax online generator

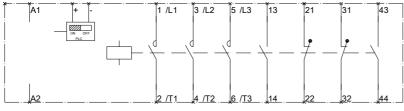
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT12766NF36

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

http://support.automation.siemens.com/WW/view/en/3RT12766NF36/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=3RT12766NF36&lang=en





last modified: 11.03.2015