SIEMENS

Data sheet

3RT1075-2NF36



CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 96-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 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	А	3 200
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 °CA400Rated valueA400- up to 690 V at ambient temperature 60 °CA400Rated valueA400- at 400 V Rated valueA400- at 400 V Rated valueA350Operating current with 1 current pathA33- at 24 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA33- at 24 V Rated valueA33- at 10 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400 <td>— at 400 V at ambient temperature 40 °C</td> <td>А</td> <td>430</td>	— at 400 V at ambient temperature 40 °C	А	430
Rated valueA400- up to 690 V at ambient temperature 60 °CA400- at 400 V Rated valueA400- at 600 V Rated valueA400- at 24 V Rated valueA400- at 10 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 124 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA			
	— up to 690 V at ambient temperature 40 $^\circ C$	А	430
Rated valueImage: state value• at XC-3A- at 400 V Rated valueA400- at 600 V Rated valueA• at C-4 at 400 V Rated valueA• at C-1 at 24 V Rated valueA- at 100 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 124 V Rated valueA- at 124 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at	Rated value		
• at AC-3 Image: At AC-4 at 400 V Rated value A 400 - at 6500 V Rated value A 400 • at CA-4 at 400 V Rated value A 350 Operating current with 1 current path		А	400
	• at AC-3		
at AC-4 at 400 V Rated valueA350Operating current with 1 current path • at DC-1A400- at 24 V Rated valueA33• at DC-3 at DC-5A400- at 24 V Rated valueA33• at DC-3 at DC-5A400- at 10 V Rated valueA3• at DC-1A400- at 24 V Rated valueA400- at 10 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 100 V Rated valueA400- at 24 V Rated valueA400<	— at 400 V Rated value	A	
Operating current with 1 current path • at DC-1 A 400 - at 24 V Rated value A 33 - at 100 V Rated value A 400 - at 110 V Rated value A 33 • at DC-3 at DC-5 - - - at 24 V Rated value A 400 - at 110 V Rated value A 3 Operating current with 2 current paths in series - - • at DC-1 - - - - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 10 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 10 V Rated value A 400 <t< td=""><td>— at 690 V Rated value</td><td>A</td><td>400</td></t<>	— at 690 V Rated value	A	400
• at DC-1 A 400 - at 24 V Rated value A 33 • at DC-3 at DC-5 - - - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 10 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - a	• at AC-4 at 400 V Rated value	А	350
A 400 - at 24 V Rated value A 33 - at 10 V Rated value A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 3 Operating current with 2 current paths in series A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 10 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 </td <td>Operating current with 1 current path</td> <td></td> <td></td>	Operating current with 1 current path		
InterferenceA33- at 110 V Rated valueA400- at 24 V Rated valueA3- at 24 V Rated valueA3Operating current with 2 current paths in series at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400	● at DC-1		
• at DC-3 at DC-5A400- at 24 V Rated valueA3• at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 100 V Rated valueA400- at 24	— at 24 V Rated value	А	400
- at 24 V Rated valueA400- at 110 V Rated valueA3Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueKW263- at 24 V Rated valueKW200 400- at 24 V Rated valueKW200 400- at 24 V Rated valu	— at 110 V Rated value	А	33
	● at DC-3 at DC-5		
Operating current with 2 current paths in seriesImage: Constraint of the series of the se	— at 24 V Rated value	А	400
• at DC-1 A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 • at DC-3 at DC-5 - - - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 10 V Rated value A 400 - at 24 V Rated value KW 263 - at 24 V Rated value KW 231 - at Ac-1 V 200 000 Operating pow	— at 110 V Rated value	А	3
- at 24 V Rated valueA400- at 110 V Rated valueA400- at 10 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueKW263- at 44 V Rated valueKW231- at A00 V Rated valueKW200 000Operating power at 230 V at 60 °C Rated valueKW151- at 690 V Rated valueKW454- at 690 V Rated valueKW454	Operating current with 2 current paths in series		
A the function functionA400- at 110 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400Operating current with 3 current paths in series at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueKW263- at AC-1 at 400 V Rated valueKW200 000- at 230 V at 60 °C Rated valueKW151- at 690 V at 60 °C Rated valueKW454- at 690 V Rated valueKW454- at 690 V Rated valueKW454	● at DC-1		
A the trace when trade when tr	— at 24 V Rated value	А	400
- at 110 V Rated valueA400- at 24 V Rated valueA400Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueKW263- at 24 V Rated valueKW231- at AC-1 at 400 V Rated valueKW231- at AC-1 at 400 V Rated valueW200 000Operating power • at AC-1 at 230 V at 60 °C Rated valueKW151- at 690 V rated valueKW454	— at 110 V Rated value	А	400
Initial relationA400Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA400- at 24 V Rated valueA400- at 110 V Rated valueA400• at DC-3 at DC-5 at 110 V Rated valueA400• at 110 V Rated valueA400• at AC-1 at 400 V Rated valueA400• at AC-1 at 400 V Rated valueKW263• at AC-2 at 400 V Rated valueKW231• at AC-1 at 400 V Rated valueW200 000Operating power• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW151- at 690 V Rated valueKW454	• at DC-3 at DC-5		
Operating current with 3 current paths in seriesImage: Constraint of the series• at DC-1A400- at 24 V Rated valueA400- at 110 V Rated valueA400• at DC-3 at DC-5 at 110 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400- at 24 V Rated valueA400Operating power• at AC-1 at 400 V Rated valueKW263• at AC-2 at 400 V Rated valueKW231• at AC-4 at 400 V Rated valueW200 000Operating power• at AC-1• at AC-1• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW151- at 690 V rated valueKW454- at 690 V Rated valueKW454	— at 110 V Rated value	А	400
• at DC-1 A 400 - at 24 V Rated value A 400 - at 110 V Rated value A 400 • at DC-3 at DC-5 - - - at 110 V Rated value A 400 - at 110 V Rated value A 400 - at 24 V Rated value KW 400 - at 24 V Rated value A 400 - at 24 V Rated value KW 263 • at AC-1 at 400 V Rated value KW 231 • at AC-2 at 400 V Rated value KW 200 000 Operating power - - • at AC-1 - - • at 690 V at 60 °C Rated value KW 151 - at 690 V Rated value KW	— at 24 V Rated value	А	400
at 24 V Rated valueA400 at 110 V Rated valueA400• at DC-3 at DC-5 at 110 V Rated valueA400 at 24 V Rated valueA400 at 24 V Rated valueA400• at AC-1 at 400 V Rated valueKW263• at AC-2 at 400 V Rated valueKW231• at AC-2 at 400 V Rated valueW200 000• at AC-1W200 000• at AC-1KW151- at 230 V at 60 °C Rated valueKW454- at 690 V Rated valueKW454	Operating current with 3 current paths in series		
- at 110 V Rated valueA400• at DC-3 at DC-5A400- at 110 V Rated valueA400- at 24 V Rated valueA400• at 24 V Rated valueKW263• at AC-1 at 400 V Rated valueKW231• at AC-2 at 400 V Rated valueW200 000• at AC-4 at 400 V Rated valueW200 000• at AC-1	• at DC-1		
• at DC-3 at DC-5 - A 400 - at 110 V Rated value A 400 - at 24 V Rated value A 400 - at 24 V Rated value A 400 Operating power - - • at AC-1 at 400 V Rated value kW 263 • at AC-2 at 400 V Rated value kW 231 • at AC-4 at 400 V Rated value W 200 000 Operating power - - • at AC-1 - - • at AC-1 - - - at 230 V at 60 °C Rated value KW 151 - at 690 V Rated value KW 454 - at 690 V Rated value KW 454	— at 24 V Rated value	А	400
- at 110 V Rated value A 400 - at 24 V Rated value A 400 Operating power - - - at AC-1 at 400 V Rated value KW 263 - at AC-2 at 400 V Rated value KW 231 - at AC-4 at 400 V Rated value W 200 000 Operating power - - - at AC-1 KW 151 - at 690 V Rated value KW 454	— at 110 V Rated value	А	400
at 24 V Rated valueA400Operating power• at AC-1 at 400 V Rated valuekW263• at AC-2 at 400 V Rated valuekW231• at AC-4 at 400 V Rated valueW200 000Operating power• at AC-1• at AC-1 at 230 V at 60 °C Rated valuekW151- at 690 V at 60 °C Rated valuekW454- at 690 V Rated valuekW454	• at DC-3 at DC-5		
Operating power• at AC-1 at 400 V Rated valuekW263• at AC-2 at 400 V Rated valuekW231• at AC-4 at 400 V Rated valueW200 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW151- at 690 V at 60 °C Rated valuekW454- at 690 V Rated valuekW454	— at 110 V Rated value	А	400
• at AC-1 at 400 V Rated valuekW263• at AC-2 at 400 V Rated valuekW231• at AC-4 at 400 V Rated valueW200 000Operating power- at AC-1- at 600 °C Rated value- at 690 V at 60 °C Rated valuekW151- at 690 V at 60 °C Rated valuekW454- at 690 V Rated valuekW454	— at 24 V Rated value	А	400
• at AC-2 at 400 V Rated value kW 231 • at AC-4 at 400 V Rated value W 200 000 Operating power	Operating power		
• at AC-4 at 400 V Rated valueW200 000Operating powerKWComposition• at AC-1- at 230 V at 60 °C Rated valuekW- at 690 V at 60 °C Rated valuekW151- at 690 V at 60 °C Rated valuekW454- at 690 V Rated valuekW454	• at AC-1 at 400 V Rated value	kW	263
Operating powerImage: Comparison of the c	• at AC-2 at 400 V Rated value	kW	231
• at AC-1 — at 230 V at 60 °C Rated value kW 151 — at 690 V at 60 °C Rated value kW 454 — at 690 V Rated value kW 454	• at AC-4 at 400 V Rated value	W	200 000
- at 230 V at 60 °C Rated value kW 151 - at 690 V at 60 °C Rated value kW 454 - at 690 V Rated value kW 454	Operating power		
at 690 V at 60 °C Rated valuekW454 at 690 V Rated valuekW454	• at AC-1		
- at 690 V Rated value kW 454	— at 230 V at 60 °C Rated value	kW	151
	— at 690 V at 60 °C Rated value	kW	454
● at AC-3	— at 690 V Rated value	kW	454
	● at AC-3		

— at 230 V Rated value	kW	132
— at 400 V Rated value	kW	231
— at 500 V Rated value	kW	291
— at 690 V Rated value	kW	400
Operating power for \geq 200000 operating cycles at		
AC-4		
• at 400 V Rated value	kW	85
• at 690 V Rated value	kW	133
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	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 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	750
Apparent holding power of the magnet coil with AC	V·A	7
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 		0.8
 with the holding power of the coil 		0.8
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 	А	3		
Operating current				
 at DC-12 at 220 V Rated value 	А	1		
 at DC-13 at 220 V Rated value 	А	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: 630 A		
		fuse gL/gG: 500 A		
 with type of assignment 2 required for obset aircuit protection of the quviliant quviteb 		fuse gL/gG: 10 A		
 for short-circuit protection of the auxiliary switch required 				
	_			
Installation/ mounting/ dimensions:		aarow fiving		
Mounting type		screw fixing		
Mounting type ● Side-by-side mounting		Yes		
Mounting type Side-by-side mounting Height	mm	Yes 214		
Mounting type • Side-by-side mounting Height Width	mm	Yes 214 160		
Mounting type • Side-by-side mounting Height Width Depth		Yes 214		
Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 214 160		
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts	mm	Yes 214 160 225		
Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 214 160		
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm	Yes 214 160 225		
Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection	mm	Yes 214 160 225 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	Yes 214 160 225 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	Yes 214 160 225 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	Yes 214 160 225 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	Yes 214 160 225 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	mm	Yes 214 160 225 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	Yes 214 160 225 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 • for auxiliary contacts	mm	Yes 214 160 225 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 • for auxiliary contacts — solid	mm	Yes 214 160 225 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil 2x (0.25 2.5 mm ²)		

• for AWG cond	uctors for auxilia	y contacts		2x (24 14))	
lechanical data: Size of contactor				S12		
				012		
mbient conditions: Installation altitude a maximum		ea level	m	2 000		
Ambient temperature	e					
 during operation 	on		°C	-25 +60		
 during storage 			°C	-55 +80		
ertificates/ approv	als:					
General Produc	t Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA	EHC	(Type Examination	EG-Konf.
Test Certificates	Shipping Ap	proval			other	
Special Test Certificate	ABS	GL	G	MRS	Confirmation	Environmental Confirmations
other						
other						

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=3RT10752NF36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10752NF36/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=3RT10752NF36&lang=en



