SIEMENS

Data sheet

3RT1075-6NB36



CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 21-27.3V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 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	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 24 V Rated value A 400 - at 10 V Rated value A 400 - at 24 V Rated value A 400 - at 10 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 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 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 24 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 </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 24 V Rated valueKW231- at Ac-1 at 400 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 ≥ 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	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	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 		
	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	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
 — with type of assignment 2 required 		fuse gL/gG: 500 A
 for short-circuit protection of the auxiliary switch 		fuse gL/gG: 10 A
required		
required Installation/ mounting/ dimensions:		
	_	screw fixing
Installation/ mounting/ dimensions:		screw fixing Yes
Installation/ mounting/ dimensions: Mounting type	mm	
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting	mm	Yes
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth	_	Yes 214
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 214 160
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth	mm	Yes 214 160
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing	mm	Yes 214 160
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts	mm	Yes 214 160 225
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side	mm	Yes 214 160 225
Installation/ mounting/ dimensions: Mounting type • Side-by-side mounting Height Width Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm	Yes 214 160 225
Installation/ mounting/ dimensions: 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
Installation/ mounting/ dimensions: 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 screw-type terminals
Installation/ mounting/ dimensions: 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 screw-type terminals
Installation/ mounting/ dimensions: 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 screw-type terminals screw-type terminals
Installation/ mounting/ dimensions: 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 screw-type terminals screw-type terminals
Installation/ mounting/ dimensions: 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 screw-type terminals screw-type terminals 2/0 500 kcmil 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), max. 2x

ize of contactor				S12		
bient conditions:						
ncient conditions:	height above sea	evel	m	2 000		
aximum	neight above sea i			2 000		
mbient temperature						
 during operation 	1		°C	-25 +60		
 during storage 			°C	-55 +80		
rtificates/ approval	ls:					
General Product	Approval				Functional	Declaration of
					Safety/Safety	Conformity
					of Machinery	
					Type Examination	
(\mathbf{m})	(SE)	FAL	(Uı)		(\mathbf{F})
						EG-Konf.
CCC	CSA			UL		EG-KOIII.
Test Certificates		Shipping A	pproval			
Type Test	Special Test	LAICAN BUR		₽ &		ALCONTRACTOR OF
Certificates/Test Report	Certificate				GL	
		ABS	Ī	DNV DNV	GL	RMRS
other						
Confirmation	Environmental Confirmations	other				
rthor information						
rther information	nloadcenter (Catal	oas. Brochures)			

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