# **SIEMENS**

## Data sheet

## 3RT1075-2NP36



CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 200-277V 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)		
<ul> <li>of the contactor typical</li> </ul>		10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>		5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>		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 24 V Rated value         A         400           - at 10 V Rated value         A         400 <td< td=""><td>— at 690 V Rated value</td><td>A</td><td>400</td></td<>	— 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 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 000Operating power at 230 V at 60 °C Rated valueKW151- 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	200 277
● at 60 Hz Rated value	V	200 277
Control supply voltage for DC	_	
Rated value	V	200 277
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		
<ul> <li>with closing power of the coil</li> </ul>		0.8
<ul> <li>with the holding power of the coil</li> </ul>		0.8
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		2
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		2
Operating current at AC-15		
• at 230 V Rated value	А	6

<ul> <li>at 400 V Rated value</li> </ul>	А	3
Operating current		
at DC-12 at 220 V Rated value	А	1
at DC-13 at 220 V Rated value	A	0.3
Operating current		0.0
• at DC-12		
	А	6
— at 60 V Rated value	A	3
— at 110 V Rated value	A	3
• at DC-13	•	40
— at 24 V Rated value	A	10
— at 60 V Rated value	A	2
— at 110 V Rated value	A	1
UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
Design of the fuse link		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— with type of assignment 1 required		fuse gL/gG: 630 A
— with type of assignment 2 required		fuse gL/gG: 500 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>		fuse gL/gG: 10 A
required		
Installation/ mounting/ dimensions:	_	
Mounting type	_	screw fixing
Side-by-side mounting		Yes
Height	mm	214
0		
Width	mm	160
	mm mm	160 225
Width Depth Required spacing	-	
Depth Required spacing	-	
Depth	-	
Depth Required spacing • for grounded parts — at the side	mm	225
Depth Required spacing • for grounded parts — at the side Connections/ Terminals:	mm	225
Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection	mm	225 10
Depth Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit	mm	225 10 Cage Clamp terminals
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	225 10
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	225 10 Cage Clamp terminals Cage Clamp terminals
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	225 10 Cage Clamp terminals
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	225 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil
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	225 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil 2x (0.25 2.5 mm <sup>2</sup> )
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	225 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil 2x (0.25 2.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )
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	225 10 Cage Clamp terminals Cage Clamp terminals 2/0 500 kcmil 2x (0.25 2.5 mm <sup>2</sup> )

• for AWG cond	uctors for auxiliary	y contacts		2x (24 14)		
echanical data:						
Bize of contactor				S12		
nbient conditions	:					
nstallation altitude a	at height above se	a level	m	2 000		
naximum						
mbient temperatur	e		_			
<ul> <li>during operation</li> </ul>	on		°C	-25 +60		
<ul> <li>during storage</li> </ul>	)		°C	-55 +80		
ertificates/ approv	vals:			_	_	_
General Produc					Functional	Declaration of
	a Approval				Safety/Safety of Machinery	Conformity
		UL	E	AC	Safety/Safety	
	Shipping App		E	AC	Safety/Safety of Machinery	Conformity
CCC Test	CSA		E	<b>AC</b>	Safety/Safety of Machinery Type Examination	Conformity
Certificates Special Test	Shipping App	GL	E		Safety/Safety of Machinery Type Examination other	Conformity CE CE EG-Konf.

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