SIEMENS

Data sheet

3RT1075-6AD36



CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 42-48V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM 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- 		5 000 000
compatible auxiliary switch block typical		
 of the contactor with added auxiliary switch 		10 000 000
block typical		
Thermal short-time current restricted to 10 s	A	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
Aain 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>А</td><td>400</td></t<>	— at 690 V Rated value	А	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 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 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	42 48
• at 60 Hz Rated value	V	42 48
Control supply voltage for DC	_	
Rated value	V	42 48
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	830
Apparent holding power of the magnet coil with AC	V·A	9.2
Closing power of the magnet coil for DC	W	920
Holding power of the magnet coil for DC	W	10
Inductive power factor		
 with closing power of the coil 		0.9
 with the holding power of the coil 		0.9
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	A	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		
Installation/ mounting/ dimensions:		
Mounting type		screw fixing
 Side-by-side mounting 		Yes
Height	mm	214
Width	mm	160
Depth	mm	225
Required spacing		
 for grounded parts 		
— at the side	mm	10
Connections/ Terminals:		
Type of electrical connection		
 for main current circuit 		screw-type terminals
 for main current circuit for auxiliary and control current circuit 		screw-type terminals screw-type terminals
 for auxiliary and control current circuit 		
• for auxiliary and control current circuit Type of connectable conductor cross-section		screw-type terminals
 for auxiliary and control current circuit Type of connectable conductor cross-section for AWG conductors for main contacts 		screw-type terminals 2/0 500 kcmil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x
 for auxiliary and control current circuit Type of connectable conductor cross-section for AWG conductors for main contacts for auxiliary contacts — solid 		screw-type terminals 2/0 500 kcmil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
 for auxiliary and control current circuit Type of connectable conductor cross-section for AWG conductors for main contacts for auxiliary contacts 		screw-type terminals 2/0 500 kcmil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x

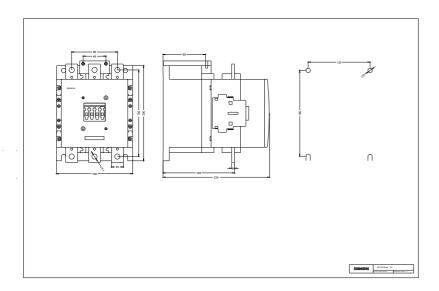
ize of contactor				S12		
nbient conditions:						
nstallation altitude at naximum	height above sea le	evel	m	2 000		
mbient temperature						
 during operation 	i		°C	-25 +60		
 during storage 			°C	-55 +80		
ertificates/ approva	ls:					
General Product	Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
	(SA) CSA		El] [Type Examination	EG-Konf.
Test Certificates		Shipping A	pproval			
Special Test Certificate	Type Test Certificates/Test Report	CAN SURFAU SUCAN SURFAU SUPPH		Å ™ NV	GL	RMRS
		ABS	U	NV	GL	
other		ABS				
other Environmental Confirmations	other	ABS				

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