SIEMENS

Data sheet

3RT1075-6AR36



CONTACTOR, 200KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 440-480V 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- 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		
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 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 24 V Rated value A 400 -	• 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		
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- 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		
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- 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
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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
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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		
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- 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
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• 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 valuekW132 at 400 V Rated valuekW231 at 500 V Rated valuekW291 at 690 V Rated valuekW400Operating power for \geq 200000 operating cycles at AC-4kW400Operating power for \geq 200000 operating cycles at AC-4kW85- at 400 V Rated valuekW85- at 690 V Rated valuekW133Operating frequency at AC-3 maximum1/h500Control circuit/ Control:-Type of voltage of the control supply voltageAC/DCControl supply voltage with AC at 50 Hz Rated valueV440 480- at 60 Hz Rated valueV440 480Control supply voltage for DC Rated valueHz40Control supply voltage frequency 2 Rated valueHz- at 50 Hz0.8 1.1- ot 60 Hz0.8 1.1- ot	
— at 500 V Rated value kW 291 — at 690 V Rated value kW 400 Operating power for ≥ 200000 operating cycles at AC-4 kW 85 • at 400 V Rated value kW 85 • at 690 V Rated value kW 133 Operating frequency at AC-3 maximum 1/h 500 • at AC-3 maximum 1/h 500 500 Control circuit/ Control:	
— 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 440 480 • at 60 Hz Rated value V 440 480 Control supply voltage for DC - - • Rated value V 440 480 • Rated value V 440 480 Control supply voltage frequency 2 Rated value Hz 40 Control supply voltage frequency 2 Rated value Hz 60 Operating range factor control supply voltage rated value 0.8 1.1 - • at 50 Hz 0.8 1.1 0.8 1.1 - • at 50 Hz 0.8 1.1 - - • at 50 Hz 0.8 1.1 - -	
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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	
value of the magnet coil for DC with variator Design of the surge suppressor with variator Apparent pick-up power of the magnet coil with AC V·A 830	
Design of the surge suppressor with varistor Apparent pick-up power of the magnet coil with AC V·A 830	
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	
• 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 A 6	

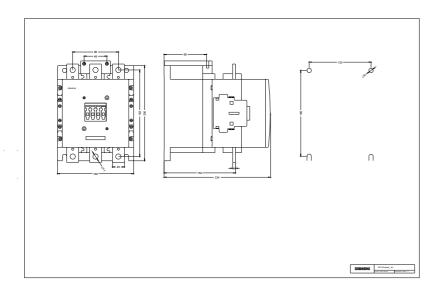
 at 400 V Rated value 		
	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
• at DC-13 at 220 V Rated value	А	0.3
Operating current		
• at DC-12		
— at 60 V Rated value	А	6
— at 110 V Rated value	А	3
• at DC-13		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	2
— at 110 V Rated value	А	1
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

echanical data: lize of contactor				S12		
nbient conditions:						
nstallation altitude at l naximum	neight above sea l	evel	m	2 000		
mbient temperature						
 during operation 			°C	-25 +60		
 during storage 			°C	-55 +80		
ertificates/ approval	S:					
General Product A	Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
	CSA	EHC	(Type Examination	EG-Konf.
Test Certificates		Shipping A	pproval			
<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate	ABS		DNV	GL	RMRS
other						
Confirmation	Environmental Confirmations	other				
rther information						
formation- and Dowr						

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10756AR36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10756AR36/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=3RT10756AR36&lang=en





last modified:

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11.03.2015