# **SIEMENS**

## Data sheet

## 3RT1055-6AF36-3PA0



CONTACTOR, 75KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 110...127V AUXIL. CONTACTS 2NO+2NC LATERAL, PERMANENT. JOINTED 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN. FOR SUVA APPLICATIONS

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	1 300			
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 400 V at ambient temperature 40 °C Rated value A 185 Reserved Value A 180 Reserved Value A 180 Reserved Value A 150 Reserved Value A 160 Reserved Va	● at AC-1		
Rated valueA- up to 690 V at ambient temperature 60 °CAB5Rated valueA160- up to 690 V at ambient temperature 60 °CAB50et at AC-3 up to 690 V Rated valueA150- up to 690 V Rated valueA150- up to 690 V Rated valueA150- up to 700 V Rated valueA132Operating current with 1 current path up to 24 V Rated valueA160- up to 24 V Rated valueA160- up to 700 V Rated valueA25Operating current with 2 current paths in series up to 700 V Rated valueA160- up to 700 V Rated v	— at 400 V at ambient temperature 40 °C	А	185
Rated valueImage: state value- up to 690 V at ambient temperature 60 °CA160rated valueA150- at 400 V Rated valueA150- at 600 V Rated valueA150- at 600 V Rated valueA132Operating current with 1 current pathA18- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 100 V Rated valueA160- at 100 V Rated valueA160- at 24 V Rated valueA160- at 100 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA16	-		
	— up to 690 V at ambient temperature 40 °C	А	185
Rated valueA• at AC-3150- at 600 V Rated valueA150- at 600 V Rated valueA132Operating current with 1 current path-• at DC-1 at 24 V Rated valueA180- at 10 V Rated valueA180- at 10 V Rated valueA180- at 24 V Rated valueA160- at 24 V Rated va	Rated value		
• at AC-3       Image: Constraint of the second of the secon		А	160
- at 400 V Rated value         A         150           - at 690 V Rated value         A         150           - at 640 V Rated value         A         132           Operating current with 1 current path         A         160           - at 24 V Rated value         A         18           - at 100 V Rated value         A         18           - at 100 V Rated value         A         160           - at 100 V Rated value         A         160           - at 10 V Rated value         A         18           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 10 V Rated value         A         160           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 10 V Rated value         A <td>Rated value</td> <td></td> <td></td>	Rated value		
	• at AC-3		
at AC-4 at 400 V Rated value         A         132           Operating current with 1 current path • at DC-1         I         I           - at 24 V Rated value         A         160           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 24 V Rated value         A         160           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 10 V Rated value         A         160           - at 24 V Rated value         A         160           - at 24 V Rated value	— at 400 V Rated value	A	150
Operating current with 1 current path • at DC-1         Image: Constant of the second seco	— at 690 V Rated value	А	150
• at DC-1       A       160         - at 24 V Rated value       A       18         • at DC-3 at DC-5       -       -         - at 24 V Rated value       A       160         - at 110 V Rated value       A       2.5         Operating current with 2 current paths in series       -       -         • at DC-1       -       -       -         - at 24 V Rated value       A       160       -         - at 24 V Rated value       A       160       -         - at 24 V Rated value       A       160       -         - at 10 V Rated value       A       160       -         - at 110 V Rated value       A       160       -         - at 24 V Rated value       A       160       -         - at 24 V Rated value       A       160       -         - at 24 V Rated value       A       160       -       -         - at 110 V Rated value       A       160       -	• at AC-4 at 400 V Rated value	А	132
- at 24 V Rated valueA160- at 110 V Rated valueA18• at DC-3 at DC-5 at 24 V Rated valueA160- at 110 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW84- at 24 V Rated valueKW84- at 24 V Rated valueKW60- at 240 V Rated valueKW60- at 240 V Rated valueKW181- at 240 V Rated valueKW181	Operating current with 1 current path		
	● at DC-1		
• at DC-3 at DC-5I- at 24 V Rated valueA160- at 110 V Rated valueA2.5Operating current with 2 current paths in seriesI• at DC-1 at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW84- at 24 V Rated valueKW60- at 690 V at 60 °C Rated va	— at 24 V Rated value	А	160
- at 24 V Rated valueA160- at 110 V Rated valueA2.5Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 100 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW105- at 24 V Rated valueKW60- at 250 V at 60 °C Rated valueKW60- at 690 V at 60 °C Rated valueKW181- at 690 V Rated valueKW181	— at 110 V Rated value	А	18
	● at DC-3 at DC-5		
Operating current with 2 current paths in series         Image: current with 2 current paths in series           • at DC-1         -           - at 24 V Rated value         A           - at 10 V Rated value         A           - at 24 V Rated value         A           - at 10 V Rated value         A           - at 24 V Rated value         A           - at 24 V Rated value         A           - at 10 V Rated value         A           - at 24 V Rated value         A           - at 24 V Rated value         A           - at AC-1 at 400 V Rated value	— at 24 V Rated value	А	160
• at DC-1       A       160         - at 24 V Rated value       A       160         - at 110 V Rated value       A       160         • at DC-3 at DC-5       -       -         - at 110 V Rated value       A       160         - at 24 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 24 V Rated value       A       160         - at 24 V Rated value       A       160         - at 24 V Rated value       KW       105         - at 24 V Rated value       KW       105         - at 24 V Rated value       KW       60         - at 24 V Rated value       KW       60         - at 24 V Rated value       KW       60         - at 24 V Rated value       KW       181	— at 110 V Rated value	А	2.5
- at 24 V Rated value       A       160         - at 110 V Rated value       A       160         - at 10 V Rated value       A       160         - at 110 V Rated value       A       160         - at 24 V Rated value       A       160         - at 110 V Rated value       A       160         - at 10 V Rated value       A       160         - at 110 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 24 V Rated value       A       160         - at 24 V Rated value       KW       105         - at 40 V Rated value       KW       84         - at Act 1 4400 V Rated value       KW       84         - at Act 1 4400 V Rated value       KW       60         - at Act 1       KW       60         - at Act 100 V Rated value       KW       60     <	Operating current with 2 current paths in series	-	
at 110 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 110 V Rated value       A       160         - at 24 V Rated value       A       160         Operating current with 3 current paths in series       -       -         - at 24 V Rated value       A       160         - at 24 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 10 V Rated value       A       160         - at 110 V Rated value       A       160         - at 10 V Rated value       A       160         - at 24 V Rated value       KW       105         at AC-1 at 400 V Rated value       KW       105         at AC-4 at 400 V Rated value       W       75 000         Operating power       -       -         • at AC-1       -       -         - at 230 V at 60 °C Rated value       KW	● at DC-1		
at DC-3 at DC-5A160- at 110 V Rated valueA160- at 24 V Rated valueA160Operating current with 3 current paths in series at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW105- at AC-1 at 400 V Rated valueKW84- at AC-4 at 400 V Rated valueKW75 000Operating power at 230 V at 60 °C Rated valueKW60- at 690 V rated valueKW181- at 690 V Rated valueKW181	— at 24 V Rated value	А	160
- at 110 V Rated valueA160- at 24 V Rated valueA160Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW84- at A00 V Rated valueW75 000Operating power at 230 V at 60 °C Rated valueKW60- at 690 V Rated valueKW181- at 690 V Rated valueKW181	— at 110 V Rated value	А	160
at 24 V Rated valueA160Operating current with 3 current paths in series • at DC-1 - at 24 V Rated valueA160 at 24 V Rated valueA160 at 110 V Rated valueA160 at 24 V Rated valueA160 at 24 V Rated valueA160 at 24 V Rated valueA160Operating power• at AC-1 at 400 V Rated valueKW105• at AC-2 at 400 V Rated valueKW84• at AC-4 at 400 V Rated valueW75 000Operating power• at AC-1 at 230 V at 60 °C Rated valueKW60- at 690 V Rated valueKW181- at 690 V Rated valueKW181	• at DC-3 at DC-5		
Operating current with 3 current paths in seriesA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW84• at AC-1 at 400 V Rated valueKW84• at AC-2 at 400 V Rated valueW75 000Operating power	— at 110 V Rated value	А	160
• at DC-1       A       160         - at 24 V Rated value       A       160         - at 110 V Rated value       A       160         • at DC-3 at DC-5       -       -         - at 110 V Rated value       A       160         - at 24 V Rated value       KW       105         • at AC-1 at 400 V Rated value       KW       84         • at AC-4 at 400 V Rated value       KW       84         • at AC-1       -       75 000         Operating power       -       -         • at AC-1       -       -         • at 690 V at 60 °C Rated value       KW       60	— at 24 V Rated value	А	160
at 24 V Rated valueA160 at 110 V Rated valueA160• at DC-3 at DC-5 at 110 V Rated valueA160 at 24 V Rated valueA160 at 24 V Rated valueKW105• at AC-1 at 400 V Rated valueKW84• at AC-2 at 400 V Rated valueW75 000• at AC-1	Operating current with 3 current paths in series	_	
- at 110 V Rated valueA160• at DC-3 at DC-5A160- at 110 V Rated valueA160- at 24 V Rated valueA160• at 24 V Rated valueKW105• at AC-1 at 400 V Rated valueKW84• at AC-2 at 400 V Rated valueW75 000• at AC-4 at 400 V Rated valueW60• at AC-1	• at DC-1		
• at DC-3 at DC-5       -       A       160         - at 110 V Rated value       A       160         - at 24 V Rated value       A       160         - at 24 V Rated value       KW       105         • at AC-1 at 400 V Rated value       KW       84         • at AC-2 at 400 V Rated value       W       75 000         • at AC-4 at 400 V Rated value       W       60         • at AC-1       KW       60         - at 230 V at 60 °C Rated value       KW       181         - at 690 V Rated value       KW       181	— at 24 V Rated value	А	160
- at 110 V Rated valueA160- at 24 V Rated valueA160Operating power at AC-1 at 400 V Rated valueKW105- at AC-2 at 400 V Rated valueKW84- at AC-4 at 400 V Rated valueW75 000Operating power at AC-1 at 230 V at 60 °C Rated valueKW60- at 690 V Rated valueKW181- at 690 V Rated valueKW181	— at 110 V Rated value	А	160
at 24 V Rated valueA160Operating power• at AC-1 at 400 V Rated valuekW105• at AC-2 at 400 V Rated valuekW84• at AC-2 at 400 V Rated valueW75 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW60- at 690 V at 60 °C Rated valuekW181- at 690 V Rated valuekW181	• at DC-3 at DC-5		
Operating power-• at AC-1 at 400 V Rated valuekW105• at AC-2 at 400 V Rated valuekW84• at AC-4 at 400 V Rated valueW75 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW60- at 690 V at 60 °C Rated valuekW181- at 690 V Rated valuekW181	— at 110 V Rated value	А	160
• at AC-1 at 400 V Rated valuekW105• at AC-2 at 400 V Rated valuekW84• at AC-4 at 400 V Rated valueW75 000Operating power- at AC-1- at 230 V at 60 °C Rated valueKW- at 690 V at 60 °C Rated valuekW60- at 690 V at 60 °C Rated valuekW181- at 690 V Rated valuekW181	— at 24 V Rated value	А	160
<ul> <li>at AC-2 at 400 V Rated value</li> <li>at AC-2 at 400 V Rated value</li> <li>W 84</li> <li>75 000</li> <li>Operating power</li> <li>at AC-1</li> <li>- at 230 V at 60 °C Rated value</li> <li>KW 60</li> <li>- at 690 V at 60 °C Rated value</li> <li>KW 181</li> <li>- at 690 V Rated value</li> <li>KW 181</li> </ul>	Operating power		
• at AC-4 at 400 V Rated valueW75 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW60- at 690 V at 60 °C Rated valuekW181- at 690 V Rated valuekW181	• at AC-1 at 400 V Rated value	kW	105
Operating powerImage: Comparison of the c	• at AC-2 at 400 V Rated value	kW	84
• at AC-1 — at 230 V at 60 °C Rated value	• at AC-4 at 400 V Rated value	W	75 000
- at 230 V at 60 °C Rated value       kW       60         - at 690 V at 60 °C Rated value       kW       181         - at 690 V Rated value       kW       181	Operating power		
at 690 V at 60 °C Rated valuekW181 at 690 V Rated valuekW181	• at AC-1		
- at 690 V Rated value kW 181	— at 230 V at 60 °C Rated value	kW	60
	— at 690 V at 60 °C Rated value	kW	181
• at AC-3	— at 690 V Rated value	kW	181
	• at AC-3		

— at 230 V Rated value	kW	50
— at 400 V Rated value	kW	84
— at 500 V Rated value	kW	105
— at 690 V Rated value	kW	146
Operating power for ≥ 200000 operating cycles at	-	
AC-4		
• at 400 V Rated value	kW	38
• at 690 V Rated value	kW	55
Operating frequency		
• at AC-3 maximum	1/h	750
Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
• at 50 Hz Rated value	V	110 127
• at 60 Hz Rated value	V	110 127
Control supply voltage for DC		
Rated value	V	110 127
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		0.8 1.1
value of the magnet coil for DC		
Design of the surge suppressor		with varistor
Apparent pick-up power of the magnet coil with AC	V·A	300
Apparent holding power of the magnet coil with AC	V·A	5.8
Closing power of the magnet coil for DC	W	360
Holding power of the magnet coil for DC	W	5.2
Inductive power factor		
<ul> <li>with closing power of the coil</li> </ul>		0.9
<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

• at 400 V Rated value	A	3
Operating current		
• at DC-12 at 220 V Rated value	A	1
<ul> <li>at DC-13 at 220 V Rated value</li> </ul>	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		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
<ul> <li>— with type of assignment 1 required</li> </ul>		fuse gL/gG: 355 A
— with type of assignment 2 required		fuse gL/gG: 315 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
<ul> <li>Side-by-side mounting</li> </ul>		Yes
Height	mm	172
Width	mm	120
Depth	mm	170
Required spacing		
<ul> <li>for grounded parts</li> </ul>		
— at the side	mm	10
Connections/ Terminals:	_	
Type of electrical connection		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Type of connectable conductor cross-section		
<ul> <li>for AWG conductors for main contacts</li> </ul>		4 250 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		
— solid		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 16), 2x (18 14), 1x 12
,		

Mechanical data:						
Size of contactor		S6				
Ambient conditions:						
Installation altitude at height above sea level	m	2 000				
maximum						
Ambient temperature	_					
<ul> <li>during operation</li> </ul>	°C	-25 +60				
• during storage	°C	-55 +80				

Certificates/ appro	ovals:				
General Product Approval			Functional	Declaration of	Test
			Safety/Safety of Machinery	Conformity	Certificates
(SA	103		Type Examination	CE	Special Test Certificate
CSA	נחנ			EG-Konf.	
Test Certificates	Shipping App	proval			other
other	CAN GURAN	ĴÅ DNV	GL		Environmental Confirmations

other				
Confirmation	other			

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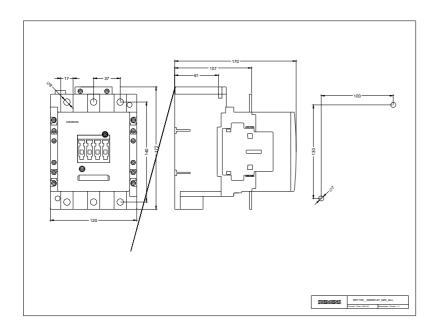
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11.03.2015