# **SIEMENS**

### Data sheet

## 3RT1055-2AR36



CONTACTOR, 75 KW / 400 V / AC-3 AC/DC OPERATION UC 440-480 V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN. CAGE CLAMP CONNECTION

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		
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 valueABitup to 690 V at ambient temperature 60 °CA185Rated valueA160up to 690 V at ambient temperature 60 °CA160Rated valueA150at 400 V Rated valueA150at 690 V Rated valueA132Operating current with 1 current path	— at 400 V at ambient temperature 40 °C	А	185
Related valueA160Rated valueA150- at 400 V Rated valueA150- at 660 V Rated valueA150- at 660 V Rated valueA150- at 660 V Rated valueA150- at 670 V Rated valueA150- at 24 V Rated valueA160- at 10 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 24 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 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 20 V Rated valueA160- at 20 V Rat			
up to 680 V at ambient temperature 60 °C Rated valueA180• at AC-3 at 400 V Rated valueA150 at 400 V Rated valueA150 at 400 V Rated valueA132Operating current with 1 current path • at DC-1 at 24 V Rated valueA160 at 10 V Rated valueA18 at 10 V Rated valueA160 at 110 V Rated valueA160 at 124 V Rated valueA160 at 110 V Rated valueA160 at 124 V Rated valueA160 at 124 V Rated valueA160 at 100 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 valueM150 <td>— up to 690 V at ambient temperature 40 <math>^\circ C</math></td> <td>А</td> <td>185</td>	— up to 690 V at ambient temperature 40 $^\circ C$	А	185
Related valueA150- at 400 V Rated valueA150- at 690 V Rated valueA132Operating current with 1 current path at 24 V Rated valueA180- at 10 V Rated valueA180- at 24 V Rated valueA160- at 24 V Rated val	Rated value		
• at AC-3         Image: Constraint of the second of t		А	160
eta CAC-4 at 400 V Rated valueA132Operating current with 1 current path • at DC-1A160- at 24 V Rated valueA18• at DC-3 at DC-5 at 24 V Rated valueA180- at 10 V Rated valueA2.5Operating current with 2 current paths in series-• at DC-1 at 24 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueA160- at 10 V Rated valueA160- at 10 V Rated valueA160- at 10 V Rated valueA160- at 24 V Rated valueKW160- a	— at 400 V Rated value	A	
Operating current with 1 current path • at DC-1         Image: Constant of the second seco	— at 690 V Rated value	A	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 24 V Rated value       A       2.5         - at 24 V Rated value       A       2.5         - 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 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 110 V Rated value       A       160         - at 24 V Rated value       KW       105         at AC-1<	• 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-1-160- 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 110 V Rated valueA160- at 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW160- at 24 V Rated valueKW84- at 24 V Rated value </td <td>Operating current with 1 current path</td> <td></td> <td></td>	Operating current with 1 current path		
at 110 V Rated value         A         18           at 24 V Rated value         A         160           at 24 V Rated value         A         2.5           Operating current with 2 current paths in series         -         -           - 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 24 V Rated value         A         160           - at 110 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	● at DC-1		
• at DC-3 at DC-5II- at 24 V Rated valueA160- at 110 V Rated valueA2.5Operating current with 2 current paths in seriesI- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW84- at 24 V Rated valueKW60- at 250 V at 60 °C Rated valueKW60- at 690 V rated valueKW181- at 690 V Rated valueKW1	— 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 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 10 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueKW105- at 24 V Rated valueKW105- at 24 V Rated valueKW84- at 24 V Rated valueKW60- at 250 V at 60 °C Rated valueKW60- at 650 V at 60 °C Rated valueKW181- at 650 V Rated valueKW181	— at 110 V Rated value	А	18
	• 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	160
• at DC-1	— at 110 V Rated value	А	2.5
- at 24 V Rated valueA160- at 110 V Rated valueA160- at 10 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 valueKW105- at 24 V Rated valueKW84- at A0 V Rated valueKW75 000Operating power at 230 V at 60 °C Rated valueKW60- at 690 V Rated valueKW181- at 690 V Rated valueKW181	Operating current with 2 current paths in series		
A the function functionA field- at 110 V Rated valueAi at DC-3 at DC-5 at 110 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA1 at DC-1 at 24 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 110 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueKW- at 24 V Rated valueKW- at AC-1 at 400 V Rated valueKW- at 230 V at 60 °C Rated valueKW- at 690 V at 60 °C Rated valueKW- at 690 V Rated va	● at DC-1		
• at DC-3 at DC-5 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-1 at 400 V Rated valueKW60- 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 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 AC-1 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 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 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 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 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 110 V Rated valueA160- 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 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 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 AC-1 at 400 V Rated value       KW       105         • at AC-2 at 400 V Rated value       KW       84         • 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       60         - at 690 V Rated value	— 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• at AC-1KW60- at 230 V at 60 °C Rated valueKW181- at 690 V Rated valueKW181	Operating current with 3 current paths in series		
- at 110 V Rated valueA160• at DC-3 at DC-5 at 110 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA0 perating power-• at AC-1 at 400 V Rated valueKW• at AC-2 at 400 V Rated valueKW• at AC-2 at 400 V Rated valueW• at AC-4 at 400 V Rated valueW• at AC-4 at 400 V Rated valueW• at AC-1 at 230 V at 60 °C Rated valueKW- at 690 V at 60 °C Rated valueKWKW181	• at DC-1		
• at DC-3 at DC-5I- 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-2 at 400 V Rated valueW75 000Operating power• at AC-1• at AC-1 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 value       A       160         - at 24 V Rated value       A       160         Operating power       -       -         - at AC-1 at 400 V Rated value       KW       105         - at AC-2 at 400 V Rated value       KW       84         - at AC-4 at 400 V Rated value       W       75 000         Operating power       -       -         - at AC-1       KW       60         - at 230 V at 60 °C Rated value       KW       181         - at 690 V Rated value       KW       181	— 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 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 75 000</li> <li>Operating power</li> <li>at AC-1</li> <li>- at 230 V at 60 °C Rated value</li> <li>- at 690 V at 60 °C Rated value</li> <li>KW 60</li> <li>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 second	• at AC-2 at 400 V Rated value	kW	84
• at AC-1       - 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	• at AC-4 at 400 V Rated value	W	75 000
	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	440 480			
• at 60 Hz Rated value	V	440 480			
Control supply voltage for DC					
Rated value	V	440 480			
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			

	٨	2			
at 400 V Rated value	A	3			
Operating current	٨	1			
• 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	A	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>					
— with type of assignment 1 required		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			
Side-by-side mounting		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	_				
for main current circuit		Cage Clamp terminals			
<ul> <li>for auxiliary and control current circuit</li> </ul>		Cage Clamp terminals			
Type of connectable conductor cross-section					
• for AWG conductors for main contacts		4 250 kcmil			
• for auxiliary contacts					
— solid		2x (0.25 2.5 mm²)			
<ul> <li>— finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm <sup>2</sup> )			
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end</li> </ul>		2x (0.25 2.5 mm <sup>2</sup> )			
processing					
P					

<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (24 14)		
Mechanical data: Size of contactor		S6		
		30		
Ambient conditions:				
Installation altitude at height above sea level maximum	m	2 000		
Ambient temperature				
<ul> <li>during operation</li> </ul>	°C	-25 +60		
• during storage	°C	-55 +80		
Certificates/ approvals:				
General Product Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
	El	<b>][</b>	Type Examination	EG-Konf.
TestShipping ApprovalCertificates				other
Special Test         Certificate         ABS	G	GL	RMRS	other
other				
Environmental Confirmation Confirmations				

#### Further information

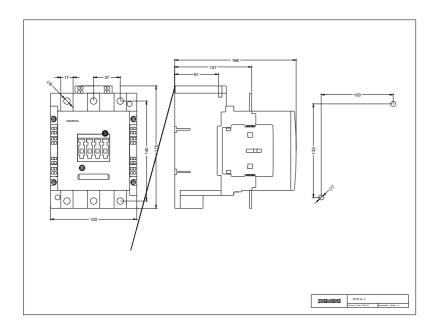
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

#### Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10552AR36

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