SIEMENS

Data sheet

3RT1055-6PF35



CONTACTOR, 75KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 96-127V AUXILIARY CONTACTS 1NO+1NC 3-POLE, SIZE S6 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH PLC/SIMOCODE INTERFACE AND REMAIN. LIFETIME INDICATOR

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	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 value -up to 680 V at ambient temperature 40 °C A 185 Rated value -up to 680 V at ambient temperature 60 °C A 160 - at 400 V Rated value A 150 - at 400 V Rated value A 150 - at 400 V Rated value A 132 • at AC-4 at 400 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 24 V Rated value A 160 - at 110 V Rated value A<		А	185
Rated valueA160- up to 690 V at ambient temperature 60 °CA160atted valueA150- at 400 V Rated valueA150- at 600 V Rated valueA150- at 600 V Rated valueA150- at 600 V Rated valueA150- at 24 V Rated valueA150- 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 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 valueA160 <t< td=""><td></td><td></td><td></td></t<>			
InterfaceA150a tack C-3I- at 400 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated valueA- at 10 V Rated valueA- at 24 V Rated value<	— up to 690 V at ambient temperature 40 °C	А	185
Rated value Image: status in the	Rated value		
• at AC-3 ////////////////////////////////////		А	160
Lattice functionA132Operating current with 1 current path • at DC-1A160- at 24 V Rated valueA18• at DC-3 at DC-5A160- 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 24 V Rated valueA160- at 24 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160	— at 400 V Rated value		
Operating current with 1 current path • at DC-1 Image: Constant of the second seco			
• at DC-1 - at 24 V Rated value A 160 - at 110 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 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	132
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-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 valueA- at 24 V Rated valueA160- at 110 V Rated valueA160• at DC-3 at DC-5- at 110 V Rated valueA- at 110 V Rated valueA160• at DC-3 at DC-5- at 160- at 24 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 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 24 V Rated value	A	
- 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 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 valueKW105- at 24 V Rated valueKW84- at AC-1 at 400 V Rated valueKW60- at 250 V at 60 °C Rated valueKW60- at 650 V at 60 °C Rated valueKW181- at 650 V Rated valueKW181		A	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 24 V Rated value A - at 110 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 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 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 40 V Rated value KW 105 • at AC-1 at 400 V Rated value KW 84 • at AC-2 at 400 V Rated value KW 60 • at AC-1 - 75 000 Oper	— 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 24 V Rated value A 160 - at 24 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 24 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 KW 105 - at 40 V Rated value KW 84 - at A00 V Rated value KW 60 - at A00 V Rated value KW 60 - at 400 V Rated value KW 60 - at 400 V Rated value KW	Operating current with 2 current paths in series		
A the function functionA160- at 110 V Rated valueA160- at 10 V Rated valueA160- at 24 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 10 V Rated valueA160- at 110 V Rated valueA160- at 24 V Rated valueA160- at AC-1 at 400 V Rated valueKW105- at AC-4 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 DC-1		
at DC-3 at DC-5A160- at 10 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 10 V Rated valueA160- at 110 V Rated valueA160- at 110 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 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 valueKW105- at 24 V Rated valueKW84- at AC-1 at 400 V Rated valueW75 000- at 230 V at 60 °C Rated valueKW60- at 690 V at 60 °C 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 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 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 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-2 at 400 V Rated value KW 84 • at AC-4 W 75 000 Operating power - - • at AC-1 - - • at AC-1 - - • at AC-1 KW 60 - at 690 V at 60 °C Rated value KW 181 - at 690 V Rated value KW 181	— 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-4 at 400 V Rated valueKW60• 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 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
 at AC-2 at 400 V Rated value at AC-2 at 400 V Rated value W 84 75 000 Operating power 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 	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 power • at AC-1kW60- at 230 V at 60 °C Rated valuekW181- at 690 V at 60 °C Rated valuekW181- at 690 V Rated valuekW181	 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
- 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	96 127
• at 60 Hz Rated value	V	96 127
Control supply voltage for DC	-	
Rated value	V	96 127
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	280
Apparent holding power of the magnet coil with AC	V·A	4.4
Closing power of the magnet coil for DC	W	320
Holding power of the magnet coil for DC	W	2.8
Inductive power factor		
 with closing power of the coil 		0.8
 with the holding power of the coil 		0.4
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		
— instantaneous contact		1
Number of NO contacts		
 for auxiliary contacts 		
— instantaneous contact		1
Operating current at AC-15		
• at 230 V Rated value	А	6

 at 400 V Rated value 	А	3
Operating current	~	0
	А	1
• at DC-12 at 220 V Rated value		
• 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	A	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: 355 A
 — with type of assignment 2 required 		fuse gL/gG: 315 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	172
Width	mm	140
Depth	mm	
•		170
Required spacing		170
-		170
Required spacing	mm	170
for grounded parts	-	
 Required spacing for grounded parts — at the side 	-	
Required spacing for grounded parts — at the side Connections/ Terminals:	-	
Required spacing for grounded parts at the side Connections/ Terminals: Type of electrical connection 	-	10
Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit	-	10 screw-type terminals
Required spacing • for grounded parts — at the side Connections/ Terminals: Type of electrical connection • for main current circuit • for auxiliary and control current circuit	-	10 screw-type terminals
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	-	10 screw-type terminals screw-type terminals
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	-	10 screw-type terminals screw-type terminals
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	-	10 screw-type terminals screw-type terminals 4 250 kcmil
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	-	10 screw-type terminals screw-type terminals 4 250 kcmil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x
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	-	10 screw-type terminals screw-type terminals 4 250 kcmil 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)

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

Certificates/ approv	vals:				
General Product Approval			Functional	Declaration of	Test
			Safety/Safety of Machinery	Conformity	Certificates
SP	FAL	(UL)	Type Examination	CE	Special Test Certificate
CSA	LIIL	UL		EG-Konf.	
Test Certificates	Shipping App	proval			other
<u>Type Test</u> Certificates/Test <u>Report</u>	CHICAN BUT PC	ĴÅ DNV	GL		Environmental Confirmations

other				
Confirmation	other			

GL

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Further information

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

ABS

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=3RT10556PF35

DNV

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT10556PF35/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=3RT10556PF35&lang=en



