## **SIEMENS**

## Data sheet

## 3RT1066-6PF35



CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 96-127V AUXILIARY CONTACTS 1NO+1NC 3-POLE, SIZE S10 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)		
<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	2 400
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		

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at 24 V Rated value       A       300         - at 110 V Rated value       A       300         • at DC-3 at DC-5       -       -         - at 110 V Rated value       A       300         - at 24 V Rated value       A       300         - at 10 V Rated value       A       300         - at 10 V Rated value       A       300         - at 110 V Rated value       A       300         - at 110 V Rated value       A       300         - at 110 V Rated value       A       300         - at 24 V Rated value       A       300         - at	— at 110 V Rated value	А	3	- at 24 V Rated valueA300- at 110 V Rated valueA300at DC-3 at DC-5 at 110 V Rated valueA300- at 24 V Rated valueA300Operating current with 3 current paths in series at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueKW197- at 400 V Rated valueKW113- at 400 V Rated valueKW113- at 400 V Rated valueKW340- at 690 V Rated valueKW340	Operating current with 2 current paths in series			A the formed of the original original of the original	● at DC-1			A the trace of the traceA300- at 110 V Rated valueA300- at 24 V Rated valueA300Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueKW197- at AC-1 at 400 V Rated valueKW171- at AC-4 at 400 V Rated valueKW160 000Operating power at 230 V at 60 °C Rated valueKW113- at 690 V at 60 °C Rated valueKW340- at 690 V Rated valueKW340	— at 24 V Rated value	А	300	- at 110 V Rated valueA300- at 24 V Rated valueA300Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueKW197- at AC-1 at 400 V Rated valueKW171- at AC-2 at 400 V Rated valueW160 000Operating power • at AC-1 at 230 V at 60 °C Rated valueKW113- at 690 V at 60 °C Rated valueKW340	— at 110 V Rated value	А	300	Initial factorA300Operating current with 3 current paths in series • at DC-1 at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA100- at 24 V Rated valueA100- at 24 V Rated valueKW197• at AC-1 at 400 V Rated valueKW171• at AC-2 at 400 V Rated valueW160 000Operating power • at AC-1 at 230 V at 60 °C Rated valueKW113- at 690 V Rated valueKW340	• at DC-3 at DC-5			Operating current with 3 current paths in seriesA300• at DC-1- at 24 V Rated valueA300- at 110 V Rated valueA300• at DC-3 at DC-5 at 110 V Rated valueA300- at 24 V Rated valueA100Operating power• at AC-1 at 400 V Rated valueKW197• at AC-2 at 400 V Rated valueW160 000Operating power• at AC-4 at 400 V Rated valueW113• at AC-1 at 230 V at 60 °C Rated valueKW340- at 690 V Rated valueKW340	— at 110 V Rated value	А	300	• at DC-1       A       300         - at 24 V Rated value       A       300         - at 110 V Rated value       A       300         • at DC-3 at DC-5       -       -         - at 110 V Rated value       A       300         - at 110 V Rated value       A       300         - at 24 V Rated value       A       300         • at AC-1 at 400 V Rated value       KW       197         • at AC-2 at 400 V Rated value       KW       160 000         • at AC-4 at 400 V Rated value       W       160 000         • at AC-1       -       -         • at 690 V at 60 °C Rated value       KW       113         - at 690 V Rated value       KW       340	— at 24 V Rated value	А	300	- at 24 V Rated valueA300- at 110 V Rated valueA300• at DC-3 at DC-5 at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300• at AC-1 at 400 V Rated valueKW197• at AC-2 at 400 V Rated valueKW171• at AC-2 at 400 V Rated valueW160 000• at AC-1W160 000• at AC-1KW113- at 230 V at 60 °C Rated valueKW340- at 690 V Rated valueKW340	Operating current with 3 current paths in series			- at 110 V Rated valueA300• 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 valueKW- at 690 V Rated valueKW at 690 V Rated valueKW at 690 V Rated valueKW	• at DC-1			• at DC-3 at DC-5I300- at 110 V Rated valueA300- at 24 V Rated valueA300Operating power• at AC-1 at 400 V Rated valuekW197• at AC-2 at 400 V Rated valuekW171• at AC-2 at 400 V Rated valueW160 000• at AC-4 at 400 V Rated valueW160 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valueKW113- at 690 V Rated valuekW340	— at 24 V Rated value	А	300	- at 110 V Rated valueA300- at 24 V Rated valueA300Operating power• at AC-1 at 400 V Rated valueKW197• at AC-2 at 400 V Rated valueKW171• at AC-4 at 400 V Rated valueW160 000Operating power• at AC-1 at 230 V at 60 °C Rated valueKW113- at 690 V Rated valueKW340- at 690 V Rated valueKW340	— at 110 V Rated value	А	300	at 24 V Rated valueA300Operating power• at AC-1 at 400 V Rated valuekW197• at AC-2 at 400 V Rated valuekW171• at AC-2 at 400 V Rated valueW160 000• at AC-4 at 400 V Rated valueW160 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valuekW113- at 690 V at 60 °C Rated valuekW340- at 690 V Rated valuekW340	• at DC-3 at DC-5			Operating power• at AC-1 at 400 V Rated valuekW197• at AC-2 at 400 V Rated valuekW171• at AC-4 at 400 V Rated valueW160 000• at AC-4 at 400 V Rated valueV160 000• at AC-1• at AC-1 at 230 V at 60 °C Rated valuekW113- at 690 V at 60 °C Rated valuekW340- at 690 V Rated valuekW340	— at 110 V Rated value	А	300	• at AC-1 at 400 V Rated valuekW197• at AC-2 at 400 V Rated valuekW171• at AC-4 at 400 V Rated valueW160 000Operating power• at AC-1 at 230 V at 60 °C Rated valuekW113- at 690 V at 60 °C Rated valuekW340- at 690 V Rated valuekW340	— at 24 V Rated value	А	300	<ul> <li>at AC-2 at 400 V Rated value</li> <li>at AC-4 at 400 V Rated value</li> <li>W 160 000</li> <li>Operating power</li> <li>at AC-1</li> <li>- at 230 V at 60 °C Rated value</li> <li>KW 113</li> <li>- at 690 V at 60 °C Rated value</li> <li>KW 340</li> <li>- at 690 V Rated value</li> <li>KW 340</li> </ul>	Operating power			• at AC-4 at 400 V Rated valueW160 000Operating powerKW160 000• at AC-1- at 230 V at 60 °C Rated valueKW- at 690 V at 60 °C Rated valueKW113- at 690 V at 60 °C Rated valueKW340- at 690 V Rated valueKW340	• at AC-1 at 400 V Rated value	kW	197	Operating power • at AC-1kW113- at 230 V at 60 °C Rated valuekW340- at 690 V at 60 °C Rated valuekW340- at 690 V Rated valuekW340	• at AC-2 at 400 V Rated value	kW	171	• at AC-1 — at 230 V at 60 °C Rated value kW 113 — at 690 V at 60 °C Rated value kW 340 — at 690 V Rated value kW 340	• at AC-4 at 400 V Rated value	W	160 000	- at 230 V at 60 °C Rated value       kW       113         - at 690 V at 60 °C Rated value       kW       340         - at 690 V Rated value       kW       340	Operating power			at 690 V at 60 °C Rated valuekW340 at 690 V Rated valuekW340	• at AC-1			- at 690 V Rated value kW 340	— at 230 V at 60 °C Rated value	kW	113		— at 690 V at 60 °C Rated value	kW	340	● at AC-3	— at 690 V Rated value	kW	340		• at AC-3		
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— at 230 V Rated value	kW	97
— at 400 V Rated value	kW	171
— at 500 V Rated value	kW	215
— at 690 V Rated value	kW	280
Operating power for ≥ 200000 operating cycles at	-	
AC-4		
• at 400 V Rated value	kW	71
• at 690 V Rated value	kW	112
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	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	530
Apparent holding power of the magnet coil with AC	V·A	5
Closing power of the magnet coil for DC	W	580
Holding power of the magnet coil for DC	W	3.8
Inductive power factor		
<ul> <li>with closing power of the coil</li> </ul>		0.8
• with the holding power of the coil		0.4
Auxiliary circuit:	_	
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		1
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		
— instantaneous contact		1
Operating current at AC-15		
• at 230 V Rated value	А	6

• at 400 \/ Pated value		
<ul> <li>at 400 V Rated value</li> </ul>	А	3
Operating current		
• at DC-12 at 220 V Rated value	А	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		
<ul> <li>for short-circuit protection of the main circuit</li> </ul>		
— with type of assignment 1 required		fuse gL/gG: 500 A
— with type of assignment 2 required		fuse gL/gG: 400 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>		fuse gL/gG: 10 A
required		
Installation/ mounting/ dimensions:		
motanation, mounting, annensions.		
Mounting type		screw fixing
		screw fixing Yes
Mounting type	mm	
<ul><li>Mounting type</li><li>Side-by-side mounting</li></ul>	mm	Yes
Mounting type <ul> <li>Side-by-side mounting</li> </ul> Height	_	Yes 210
Mounting type • Side-by-side mounting Height Width	mm	Yes 210 165
Mounting type • Side-by-side mounting Height Width Depth	mm	Yes 210 165
Mounting type         • Side-by-side mounting         Height         Width         Depth         Required spacing	mm	Yes 210 165
Mounting type         • Side-by-side mounting         Height         Width         Depth         Required spacing         • for grounded parts	mm	Yes 210 165 202
Mounting type         • Side-by-side mounting         Height         Width         Depth         Required spacing         • for grounded parts         — at the side	mm	Yes 210 165 202
Mounting type         • Side-by-side mounting         Height         Width         Depth         Required spacing         • for grounded parts         — at the side         Connections/ Terminals:	mm	Yes 210 165 202
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 210 165 202 10
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 210 165 202 10 screw-type terminals
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 210 165 202 10 screw-type terminals
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 210 165 202 10 screw-type terminals screw-type terminals
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 210 165 202 10 screw-type terminals screw-type terminals
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 210 165 202 10 screw-type terminals screw-type terminals 2/0 500 kcmil 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), max. 2x

echanical data: <b>ize of contactor</b>				S10		
nbient conditions:	<del></del>		_			
nstallation altitude at he naximum	eight above sea le	evel	m	2 000		
Ambient temperature						
<ul> <li>during operation</li> </ul>			°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-55 +80		
ertificates/ approvals:						
General Product Ap	oproval				Functional Safety/Safety of Machinery	Declaration of Conformity
	<b>SP</b> CSA		E	AC	Type Examination	EG-Konf.
Test Certificates		Shipping A	pproval			
Type Test Certificates/Test Report	Special Test Certificate	ABS			GL GL	RMRS
other						
Confirmation	Environmental Confirmations	other				
urther information						
nformation- and Downlo	• • • • •					

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