## **SIEMENS**

## Data sheet

## 3RT1066-6AB36



CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 23-26V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

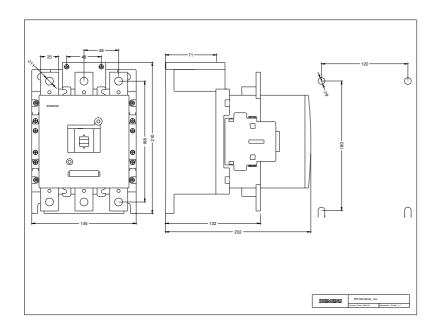
Figure similar		
product brand name		SIRIUS
Product designation		power contactor
General technical data:		
Insulation voltage		
Rated value	V	1 000
Degree of pollution		3
Surge voltage resistance Rated value	kV	8
Mechanical service life (switching cycles)		
<ul> <li>of the contactor typical</li> </ul>		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		

	● at AC-1		
Rated valueA- up to 690 V at ambient temperature 60 °CA300Rated valueA300- up to 690 V at ambient temperature 60 °CA300Rated valueA300- at 400 V Rated valueA300- at 400 V Rated valueA280- at 400 V Rated valueA300- at 400 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 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 valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300 <td< td=""><td>— at 400 V at ambient temperature 40 °C</td><td>А</td><td>330</td></td<>	— at 400 V at ambient temperature 40 °C	А	330
Rated valueA300- up to 690 V at ambient temperature 60 °CA300- at 400 V Rated valueA300- at 400 V Rated valueA280- at 600 V Rated valueA280• at AC-4 at 400 V Rated valueA300- at 24 V Rated valueA300- at 10 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 10 V Rated valueA300- at 10 V Rated valueA300- at 24 V Rated valueA300- at 10 V Rated valueA300- at 10 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 20 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 20 V Rated valueA3			
	— up to 690 V at ambient temperature 40 °C	А	330
Rated valueImage: state	Rated value		
• at AC-3         Image: Constraint of the section of the sectio		А	300
	Rated value		
	• at AC-3		
eta CAC-4 at 400 V Rated valueA280Operating current with 1 current path • at DC-1A300- at 24 V Rated valueA33• at DC-3 at DC-5 at 24 V Rated valueA300- at 10 V Rated valueA300- at 110 V Rated valueA300- at 124 V Rated valueA300- at 124 V Rated valueA300- at 124 V Rated valueA300- at 10 V Rated valueA300- at 10 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 100 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 100 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA <td< td=""><td>— at 400 V Rated value</td><td>А</td><td>300</td></td<>	— at 400 V Rated value	А	300
Operating current with 1 current path • at DC-1         A         300           - at 24 V Rated value         A         33           - at 10 V Rated value         A         33           • at DC-3 at DC-5         -         -           - at 24 V Rated value         A         300           - at 10 V Rated value         A         300           - at 24 V Rated value         A         300           - at 24 V Rated value         A         300           - at 24 V Rated value         A         300           - at 10 V Rated value         A         300           - at 24 V Rated value         A         300           - at 24 V Rated value         A         300           - at 10 V Rated value         A         300           - at 10 V Rated value	— at 690 V Rated value	А	280
• at DC-1       A       300         - at 24 V Rated value       A       33         • at DC-3 at DC-5       -       -         - at 24 V Rated value       A       300         - at 110 V Rated value       A       300         - at 24 V Rated value       A       300         - at 10 V Rated value       A       300         - at 110 V Rated value       A       300         - at 24 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 24 V Rated value       A       300         - at 110 V Rated value       KW       100         at A	• at AC-4 at 400 V Rated value	А	280
	Operating current with 1 current path		
InterferenceA33- at 110 V Rated valueA30- at 24 V Rated valueA300- at 110 V Rated valueA3Operating current with 2 current paths in series at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 400 V Rated valueA300- at 24 V Rated valueA300- at 24 V Rated valueA300- at 20 V at 60 v Rated valueKW197- at 20 V at 60 v C Rated valueW160 000- at 230 V at 60 °C Rated valueKW113- at 690 V Rated valueKW340	● at DC-1		
• at DC-3 at DC-5I- at 24 V Rated valueA300- at 110 V Rated valueA3Operating current with 2 current paths in seriesI- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 24 V Rated valueA300- at 110 V Rated valueA300- at 24	— at 24 V Rated value	А	300
- at 24 V Rated valueA300- at 110 V Rated valueA3Operating current with 2 current paths in series • at DC-1 at 24 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- at 110 V Rated valueA300- 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 110 V Rated valueA300- at 24 V Rated valueKW197- at 24 V Rated valueKW160 000Operating power at 250 V at 60 °C Rated valueKW113- at 690 V Rated valueKW340- at 690 V Rated valueKW340	— at 110 V Rated value	А	33
	• at DC-3 at DC-5		
Operating current with 2 current paths in seriesImage: current with 2 current paths in series• at DC-1 at 24 V Rated valueA- at 110 V Rated valueA• at DC-3 at DC-5 at 110 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 110 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 100 V Rated valueA- at 24 V Rated valueKW- at 250 V at 60 °C Rated valueKW- at 690 V Rated valueKW </td <td>— at 24 V Rated value</td> <td>А</td> <td>300</td>	— at 24 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 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       KW       197         • at AC-1 at 400 V Rated value       KW       171         • at AC-2 at 400 V Rated value       KW       160 000         • at AC-4 at 400 V Rated value       KW       160 000         • at AC-1       -       -         • at 690 V at 60 °C Rated value       KW       113         - at 690 V Rated value       KW       340 <td>— at 24 V Rated value</td> <td>А</td> <td>300</td>	— 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		

— 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 $\geq$ 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
Ocastral size it/ Ocastral	_	
Control circuit/ Control: Type of voltage of the control supply voltage	_	AC/DC
Control supply voltage with AC	-	ACIDO
• at 50 Hz Rated value	V	23 26
• at 50 Hz Rated value	V	23 26
	V	23 20
Control supply voltage for DC	V	23 26
Rated value		
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 50 Hz		0.8 1.1
	-	0.8 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC		0.0 1.1
Design of the surge suppressor		with varistor
Apparent pick-up power of the magnet coil with AC	V·A	590
Apparent holding power of the magnet coil with AC	V·A	6.7
Closing power of the magnet coil for DC	W	650
Holding power of the magnet coil for DC	W	7.4
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>		0.9
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			
• at DC-13 at 220 V Rated value	A	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	- with type of assignment 2 required fu				
<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	210			
Width	mm	145			
Depth	mm	202			
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>		2/0 500 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			

echanical data:				S10		
Dize of contactor				510		
mbient conditions:						
	t height above sea le	evel	m	2 000		
naximum						
Ambient temperature						
<ul> <li>during operatio</li> </ul>	n		°C	-25 +60		
<ul> <li>during storage</li> </ul>			°C	-55 +80		
ertificates/ approva	als:					
General Product	Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
			F	ne	Type Examination	
$(\mathbf{m})$	(3)		- F	AL		CE
ccc	CSA	UL	L			EG-Konf.
Test Certificates			S	hipping Appro	val	
Special Test	Type Test	other				
Certificate	Certificates/Test		AME		Ţ Ţ	GL
	Report		(o	SHIPPING	DNV	
				ABS	DNV	GL
Shipping	other					
Approval						
	other	Environmer		Confirmation		
		Confirmatio	ons			
RMRS						
- (1						
urther information	vnloadcenter (Catalo	as Brochures	)			
http://www.siemens.cor	m/industrial-controls/ca	talogs	···· <i>)</i>			
ndustry Mall (Online http://www.siemens.com	ordering system) m/industrymall					
Cax online generator	n.siemens.com/WW/C	AXorder/default.	aspx?lang=e	en&mlfb=3RT106	66AB36	
Service&Support (Ma	anuals, Certificates, on.siemens.com/WW/vi					





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