## **SIEMENS**

## Data sheet

## 3RT1264-6AP36



VAC. CONTACTOR, 110KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM

product brand name	SIRIUS			
Product designation	power contactor			
General technical data:				
Size of contactor	S10			
Insulation voltage				
Rated value	1 000 V			
Degree of pollution	3			
Surge voltage resistance Rated value	8 kV			
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			
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			
Ambient conditions:				
Installation altitude at height above sea level maximum	2 000 m			
Ambient temperature				
<ul> <li>during operation</li> </ul>	-25 +60 °C			

during storage

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
Connectable conductor cross-section in main circuit	
at AC-1	400 3
• at 60 °C minimum permissible	120 mm <sup>2</sup>
• at 40 °C minimum permissible	150 mm <sup>2</sup>
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	330 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	330 A
— at ambient temperature 60 °C Rated value	300 A
● at AC-3	
— at 400 V Rated value	225 A
— at 690 V Rated value	225 A
• at AC-4 at 400 V Rated value	195 A
Operating current for $\geq$ 200000 operating cycles at	
AC-4	
• at 400 V Rated value	97 A
• at 690 V Rated value	68 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	113 kW
— at 690 V at 60 °C Rated value	340 kW
Operating power for $\geq$ 200000 operating cycles at	
AC-4	
at 400 V Rated value	55 kW
• at 690 V Rated value	94 kW
Thermal short-time current restricted to 10 s	1 800 A
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	9 W
No-load switching frequency	
• with AC	2 000 1/h
• for DC	2 000 1/h
Operating frequency	
at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
	750 1/h
• at AC-3 maximum	
• at AC-4 maximum	250 1/h

Control circuit/ Control:	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage with AC	
• at 50 Hz Rated value	220 240 V
• at 60 Hz Rated value	220 240 V
Control supply voltage for DC	
Rated value	220 240 V
Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
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 value of the magnet coil for DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil with AC	630 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	7.4 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil for DC	700 W
Holding power of the magnet coil for DC	8.2 W
Closing delay	
• with AC	30 95 ms
• for DC	30 95 ms
Arcing time	10 15 ms
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-12 maximum	10 A
Operating current at AC-15	
• at 230 V Rated value	6 A
• at 400 V Rated value	3 A
Operating current at DC-12	
• at 60 V Rated value	6 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1 A

Operating current at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	2 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
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
<ul> <li>— with type of assignment 2 required</li> </ul>	fuse gL/gG: 500 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	210 mm
Width	145 mm
Depth	206 mm
Required spacing	
<ul> <li>for grounded parts</li> </ul>	
— at the side	10 mm
Connections/ Terminals:	
Type of electrical connection	
for main current circuit	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
Type of connectable conductor cross-section	
<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 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
• for AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
Certificates/ approvals:	

General Product	Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	(SA)	EHC		Type Examination	EG-Konf.
Test Certificates		Shipping Approval			
<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	Special Test Certificate	ABS		GL	RMRS
other					
other	Confirmation	Environmental Confirmations			

## Further information

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

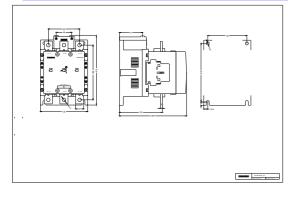
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT12646AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT12646AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT12646AP36&lang=en





last modified:

3RT106.-.A..6\_01\_4\_IEC.DXF 3RT107.-.A..6\_01\_4\_IEC.DXF

02.06.2015