

CONTACTOR, 55KW/400V/AC-3,  
AC(40...60HZ)/DC OPERATION UC 23...26V AUX.  
CONTACTS 2NO+2NC,  
3-POLE,  
SIZE S6 BAR CONNECTIONS CONVENTIONAL  
OPERATING MECHAN. SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S6
Protection class IP / on the front		IP00
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature / during operating	°C	-25 ... +60
Mechanical operating cycles as operating time		
• of the contactor / typical		10,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000
Main circuit:		
Number of NC contacts / for main contacts		0
Number of NO contacts / for main contacts		3
Operating current		
• at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	160
• at 60 °C ambient temperature / rated value	A	140
• at AC-3 / at 400 V / rated value	A	115
• at AC-4 / at 400 V / rated value	A	97
• with 1 current path / at DC-1		
• at 24 V / rated value	A	160
• at 110 V / rated value	A	18
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	160
• at 110 V / rated value	A	160
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	160

• at 110 V / rated value	A	160
• with 1 current path / at DC-3 / at DC-5	A	160
• at 24 V / rated value	A	160
• at 110 V / rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5	A	160
• at 24 V / rated value	A	160
• at 110 V / rated value	A	160
• with 3 current paths in series / at DC-3 / at DC-5	A	160
• at 24 V / rated value	A	160
• at 110 V / rated value	A	160
<b>Service power</b>		
• at AC-2 / at 400 V / rated value	kW	64
• at AC-3 / at 400 V / rated value	kW	64
• at AC-4 / at 400 V / rated value	W	55,000
<b>Active power loss / per conductor / typical</b>	W	7
<b>Control circuit:</b>		
<b>Design of the surge suppressor</b>		with varistor
<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>Control supply voltage / 1</b>		
• for DC		
• initial rated value	V	23
• final rated value	V	26
• at 50 Hz / for AC		
• initial rated value	V	23
• final rated value	V	26
• at 60 Hz / for AC		
• initial rated value	V	23
• final rated value	V	26
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• at 50 Hz		
• for AC		0.8 ... 1.1
• at 60 Hz		
• for AC		0.8 ... 1.1
• for DC		0.8 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	300
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	5.8
<b>Inductive power factor / with the pull-in power of the coil</b>		0.9
<b>Inductive power factor / with the pull-in power of the coil</b>		0.8

<b>Pull-in power / of the solenoid / for DC</b>	W	360
<b>Holding power / of the solenoid / for DC</b>	W	5.2

#### Auxiliary circuit:

<b>Contact reliability / of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b>		2
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		2
<b>Operating current / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15	A	6
• at 230 V	A	3
• at 400 V	A	1
• at DC-12	A	6
• at 60 V	A	3
• at 110 V	A	1
• at 220 V	A	0.3
• at DC-13	A	10
• at 24 V	A	2
• at 60 V	A	1
• at 110 V	A	0.3
• at 220 V	A	0.3

#### Short-circuit:

<b>Design of the fuse link</b>		
• for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		fuse gL/gG: 355 A
• at type of coordination 2 / required		fuse gL/gG: 315 A

#### Installation/mounting/dimensions:

<b>Type of mounting</b>		screw fixing
<b>series installation</b>		Yes
<b>Width</b>	mm	120
<b>Height</b>	mm	172
<b>Depth</b>	mm	170
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	10

#### Connection type:

<b>Design of the electrical connection</b>		
• for main current circuit		screw-type terminals

• for auxiliary and control current circuit	screw-type terminals
<b>Type of the connectable conductor cross-section</b>	
• for AWG conductors / for main contacts	4 ... 250 kcmil
• for auxiliary contacts	
• finely stranded	
• with conductor 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
		
		<a href="#">Type Examination</a>
Declaration of Conformity	Test Certificates	Shipping Approval
 EG-Konf.	<a href="#">other</a>	<a href="#">Special Test Certificate</a>
		 ABS
other		 DNV
<a href="#">Confirmation</a>	<a href="#">other</a>	 GL
		

### Further information:

#### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

#### Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

#### Cax online generator:

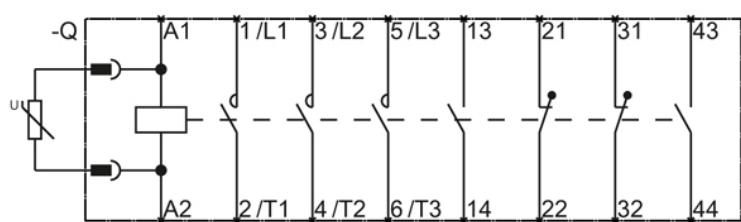
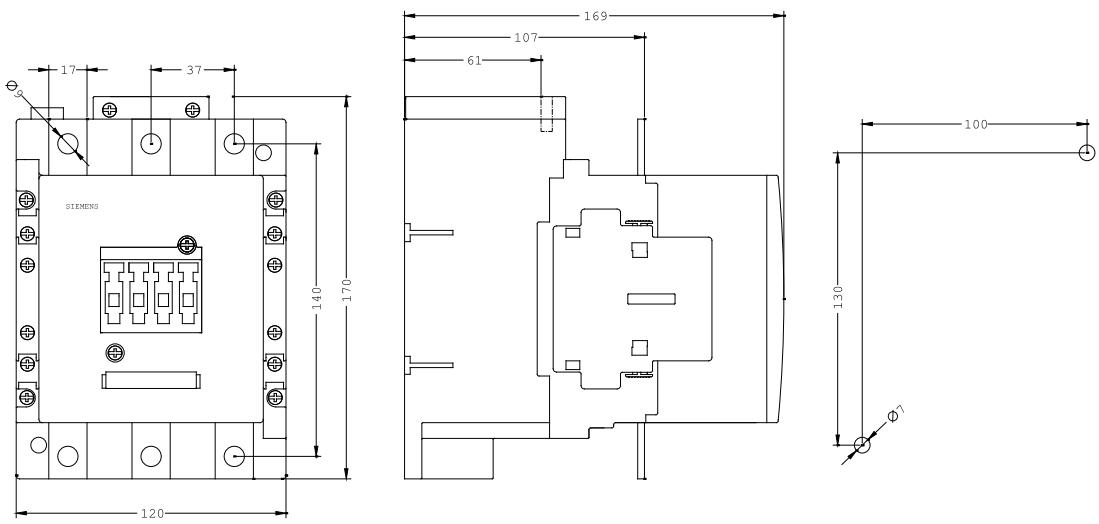
<http://www.siemens.com/cax>

#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1054-6AB36/all>

#### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1054-6AB36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1054-6AB36)



last change:

Jul 27, 2012