

CONTACTOR,  
 55 KW / 400 V / AC-3 AC(40...60HZ)/DC-BETAETIGUNG  
 UC 21-27.3V AUXILIARY CONTACTS 2NO+2NC 3-POLE,  
 SIZE S6 BAR CONNECTIONS ELECTRONIC OPERATING  
 MECHANISM WITH 24 V DC PLC INTERFACE CAGE  
 CLAMP CONNECTION

**General technical data:**

<b>product brand name</b>		SIRIUS
<b>Size of the contactor</b>		S6
<b>Protection class IP / on the front</b>		IP00
<b>Degree of pollution</b>		3
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature / during operating</b>	°C	-25 ... +60
<b>Mechanical operating cycles as operating time</b>		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>		10,000,000
<ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block / typical</li> </ul>		10,000,000
<ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		5,000,000

**Main circuit:**

<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operational current</b>		
<ul style="list-style-type: none"> <li>• at AC-1 / at 400 V           <ul style="list-style-type: none"> <li>• at 40 °C ambient temperature / rated value</li> <li>• at 60 °C ambient temperature / rated value</li> </ul> </li> </ul>	A	160
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	A	140
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	A	115
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	A	97
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-1           <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	160
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-1           <ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	18
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-1           <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	160
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-1           <ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	160
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-1           <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul> </li> </ul>	A	160

<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	2.5
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	160
<b>Service power</b>		
<ul style="list-style-type: none"> <li>• at AC-2 / at 400 V / rated value</li> </ul>	kW	64
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	kW	64
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	W	55,000

#### Control circuit:

<b>Design of the surge suppressor</b>		with varistor
<b>Type of voltage / of the controlled supply voltage</b>		AC/DC
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for AC</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for AC</li> </ul>		0.8 ... 1.1
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		0.8 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	280
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	4.4
<b>Inductive power factor / with the pull-in power of the coil</b>		0.8
<b>Inductive power factor / with the pull-in power of the coil</b>		0.4
<b>Pull-in power / of the solenoid / for DC</b>	W	320
<b>Holding power / of the solenoid / for DC</b>	W	2.8

#### 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

#### Short-circuit:

<b>Design of the fuse link</b>		
<ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul>		fuse gL/gG: 10 A

- for short-circuit protection of the main circuit
- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 355 A  
fuse gL/gG: 315 A

#### Installation/mounting/dimensions:

Type of mounting		screw fixing
series installation		Yes
Width	mm	120
Height	mm	172
Depth	mm	180
Distance, to be maintained, to earthed part / sideways	mm	10

#### Connection type:

<b>Design of the electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		Cage Clamp terminals Cage Clamp terminals
<b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts               <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded                   <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul>		4 ... 250 kcmil  2x (0.25 ... 2.5 mm <sup>2</sup> )  2x (0.25 ... 1.5 mm <sup>2</sup> ) 2x (0.25 ... 2.5 mm <sup>2</sup> ) 2x (24 ... 14)

#### Certificates/approvals:

##### General Product Approval

##### Functional Safety / Safety of Machinery



CCC



CSA



GOST



KETI



UL

[Type Examination](#)

##### Declaration of Conformity

##### Test Certificates

##### Shipping Approval



EG-Konf.

[Special Test Certificate](#)



ABS



DNV



GL



RMRS

##### other

[Confirmation](#)

[other](#)

[Environmental Confirmations](#)

#### Further information:

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

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

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**Industry Mall (Online ordering system)**

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

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**Cax online generator:**

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

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

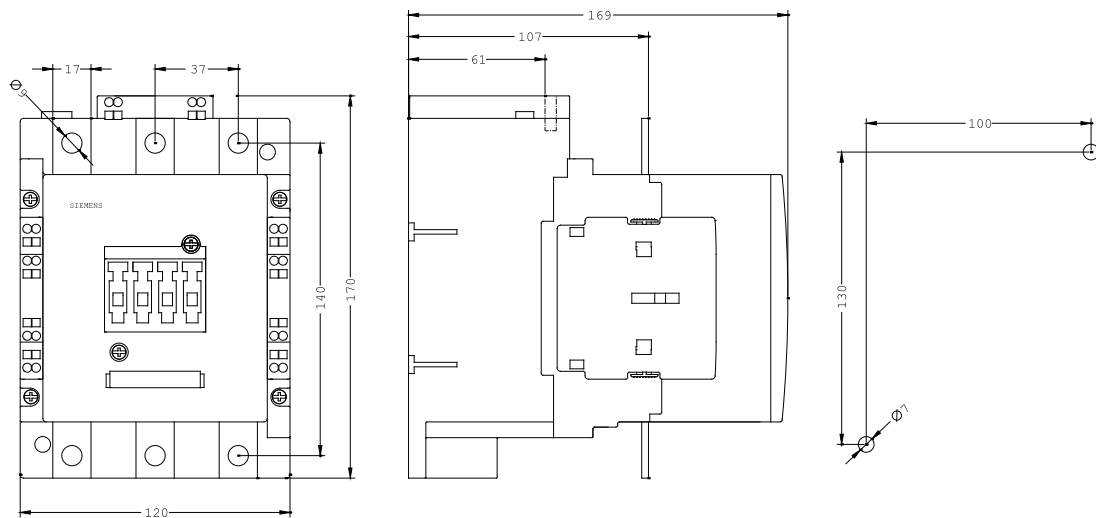
<http://support.automation.siemens.com/WW/view/en/3RT1054-2NB36/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1054-2NB36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1054-2NB36)

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**last change:**

Feb 15, 2013