

CONTACTOR, 75KW/400V/AC-3,  
AC(40...60HZ)/DC OPERATION UC 220...240V AUXIL.  
CONTACTS 2NO+2NC 3-POLE,  
SIZE S6 BAR CONNECTIONS CONVENTIONAL  
OPERATING MECHAN. SCREW TERMINAL

**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>Operating 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	185
<ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>	A	160
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	A	150
<ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>	A	132
<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 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	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 3 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> <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> <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-3 / at DC-5               <ul style="list-style-type: none"> <li>at 24 V / rated value</li> <li>at 110 V / rated value</li> </ul> </li> <li>with 2 current paths in series / at DC-3 / at DC-5               <ul style="list-style-type: none"> <li>at 24 V / rated value</li> <li>at 110 V / rated value</li> </ul> </li> <li>with 3 current paths in series / at DC-3 / at DC-5               <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
	A	2.5
	A	160
	A	160
	A	160
	A	160
<b>Service power</b>		
<ul style="list-style-type: none"> <li>at AC-2 / at 400 V / rated value</li> <li>at AC-3 / at 400 V / rated value</li> <li>at AC-4 / at 400 V / rated value</li> </ul>	kW	84
	kW	84
	W	75,000
<b>Active power loss / per conductor / typical</b>	W	9

#### Control circuit:

<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>		
<ul style="list-style-type: none"> <li>for DC               <ul style="list-style-type: none"> <li>initial rated value</li> <li>final rated value</li> </ul> </li> <li>at 50 Hz / for AC               <ul style="list-style-type: none"> <li>initial rated value</li> <li>final rated value</li> </ul> </li> <li>at 60 Hz / for AC               <ul style="list-style-type: none"> <li>initial rated value</li> <li>final rated value</li> </ul> </li> </ul>	V	220
	V	240
	V	220
	V	240
	V	220
	V	240
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
<ul style="list-style-type: none"> <li>at 50 Hz               <ul style="list-style-type: none"> <li>for AC</li> </ul> </li> <li>at 60 Hz               <ul style="list-style-type: none"> <li>for AC</li> </ul> </li> <li>for DC</li> </ul>		0.8 ... 1.1
		0.8 ... 1.1
		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
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### 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>		
<ul style="list-style-type: none"> <li>• at AC-12 / maximum</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at AC-15</li> </ul>		
<ul style="list-style-type: none"> <li>• at 230 V</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 400 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at DC-12</li> </ul>		
<ul style="list-style-type: none"> <li>• at 60 V</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 110 V</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 220 V</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V</li> </ul>	A	2
<ul style="list-style-type: none"> <li>• at 110 V</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at 220 V</li> </ul>	A	0.3

### 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
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit</li> </ul>		
<ul style="list-style-type: none"> <li>• with type of assignment 1 / required</li> </ul>		fuse gL/gG: 355 A
<ul style="list-style-type: none"> <li>• at type of coordination 2 / required</li> </ul>		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	180
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	10

### Connection type:

<b>Design of the electrical connection</b>		
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>		screw-type terminals
<ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>		screw-type terminals

**Type of the connectable conductor cross-section**

- for AWG conductors / for main contacts
- for auxiliary contacts
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

4 ... 250 kcmil

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

2x (20 ... 16), 2x (18 ... 14), 1x 12

**Certificates/approvals:****General Product Approval****Functional Safety /  
Safety of  
Machinery****Declaration of  
Conformity**

CCC



CSA



GOST



UL

[Type Examination](#)

EG-Konf.

**Test Certificates**[other](#)[Special Test  
Certificate](#)

ABS



DNV

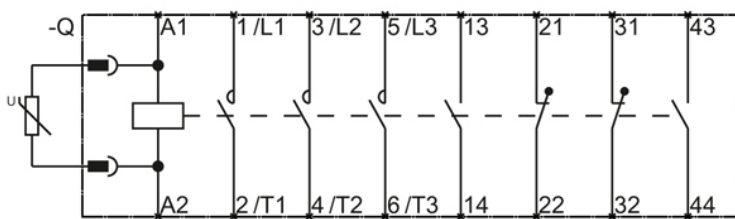
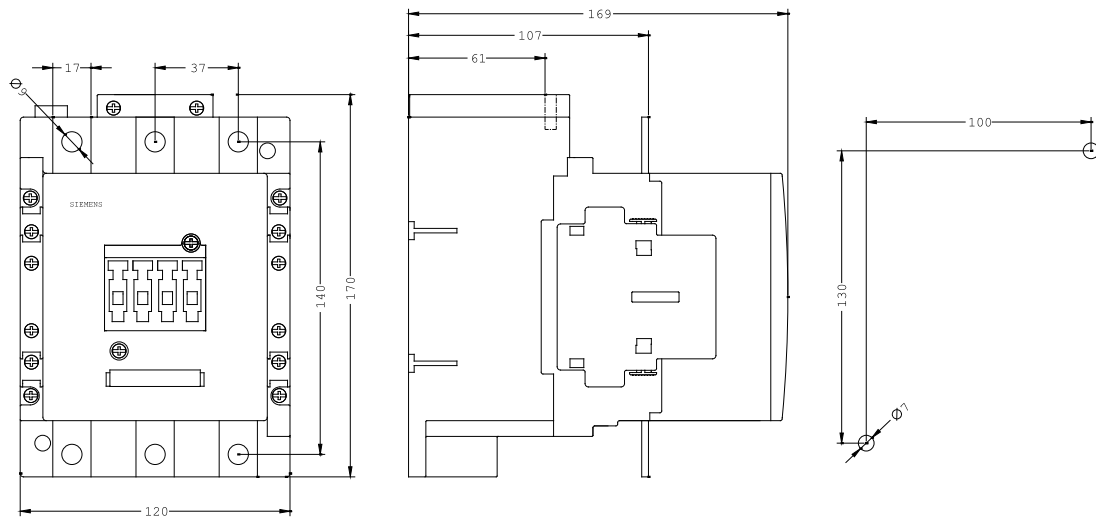


GL

**other**[Confirmation](#)[other](#)

UL

**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/3RT1055-6AP36/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1055-6AP36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1055-6AP36)



last change:

Jul 27, 2012