

CONTACTOR, 90KW/400V/AC-3,  
AC(40...60HZ)/DC OPERATION UC 380...420V AUXIL.  
CONTACTS 2NO+2NC 3-POLE,  
SIZE S6 BAR CONNECTIONS CONVENT. OPERATING  
MECHANISM SCREW TERMINAL

### General details:

Product brand name		SIRIUS
product designation		power contactor
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
Active power loss / per conductor / typical	W	13
Item designation <ul style="list-style-type: none"> <li>• according to DIN EN 61346-2</li> <li>• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		Q K
Mechanical operating cycles as operating time <ul style="list-style-type: none"> <li>• of the contactor / typical</li> <li>• of the contactor with added auxiliary switch block / typical</li> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul>		10,000,000 10,000,000 5,000,000

### 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 / at 400 V / at 40 °C ambient temperature / rated value	A	215
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	185
Operating current <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> <li>• with 1 current path <ul style="list-style-type: none"> <li>• at DC-1</li> <li>• at 24 V / rated value</li> </ul> </li> </ul>	A  A	185  160

<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	18
<ul style="list-style-type: none"> <li>• at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li> <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> <ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	2.5
<ul style="list-style-type: none"> <li>• with 2 current paths in series</li> </ul>		
<ul style="list-style-type: none"> <li>• at DC-1</li> </ul>		
<ul style="list-style-type: none"> <li> <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> <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>• at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li> <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> <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</li> </ul>		
<ul style="list-style-type: none"> <li>• at DC-1</li> </ul>		
<ul style="list-style-type: none"> <li> <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> <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>• at DC-3 / at DC-5</li> </ul>		
<ul style="list-style-type: none"> <li> <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> <ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul> </li> </ul>	A	160
<b>Service power</b>		
<ul style="list-style-type: none"> <li>• at AC-1 / at 400 V / rated value</li> </ul>	kW	121
<ul style="list-style-type: none"> <li>• at AC-2 / at 400 V / rated value</li> </ul>	kW	104
<ul style="list-style-type: none"> <li>• at AC-3</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• at 400 V / rated value</li> </ul> </li> </ul>	kW	90
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul> </li> </ul>	kW	132
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul> </li> </ul>	kW	167

Control circuit:		
<b>Design of activation</b>		conventional
<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 frequency</b>		
<ul style="list-style-type: none"> <li>• 1 / rated value</li> </ul>	Hz	40
<ul style="list-style-type: none"> <li>• 2 / rated value</li> </ul>	Hz	60
<b>Control supply voltage / 1</b>		
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• initial rated value</li> </ul> </li> </ul>	V	380
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• final rated value</li> </ul> </li> </ul>	V	420
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> </ul>		
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• initial rated value</li> </ul> </li> </ul>	V	380
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>• final rated value</li> </ul> </li> </ul>	V	420

- at 60 Hz / for AC
- initial rated value
- final rated value

V	380
V	420

#### 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</b>		
• instantaneous switching		2
• lagging switching		0
<b>Number of NO contacts / for auxiliary contacts</b>		
• instantaneous switching		2
• leading switching		0
<b>Operating current / of the auxiliary contacts</b>		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at DC-12		
• at 60 V	A	6
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 60 V	A	2
• at 110 V	A	1
• 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	180
<b>Distance, to be maintained, to earthed part / sideways</b>	mm	10

## Connection type:

### Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

### Identification number and letter for switching elements

22 E

## Certificates/approvals:

### General Product Approval

### Functional Safety / Safety of Machinery

### Test Certificates



CQC



CSA

[ROSTEST](#)



UL

[SUVA](#)

[Manufacturer](#)

### Shipping Approval

### other



ABS



DNV



GL

[Manufacturer](#)

[other](#)

## 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

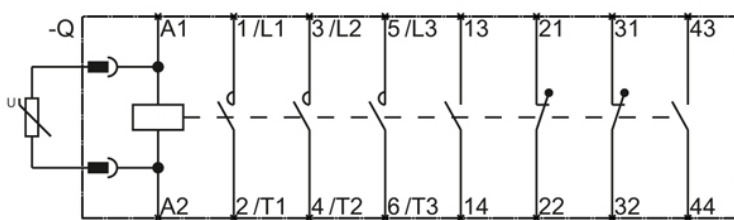
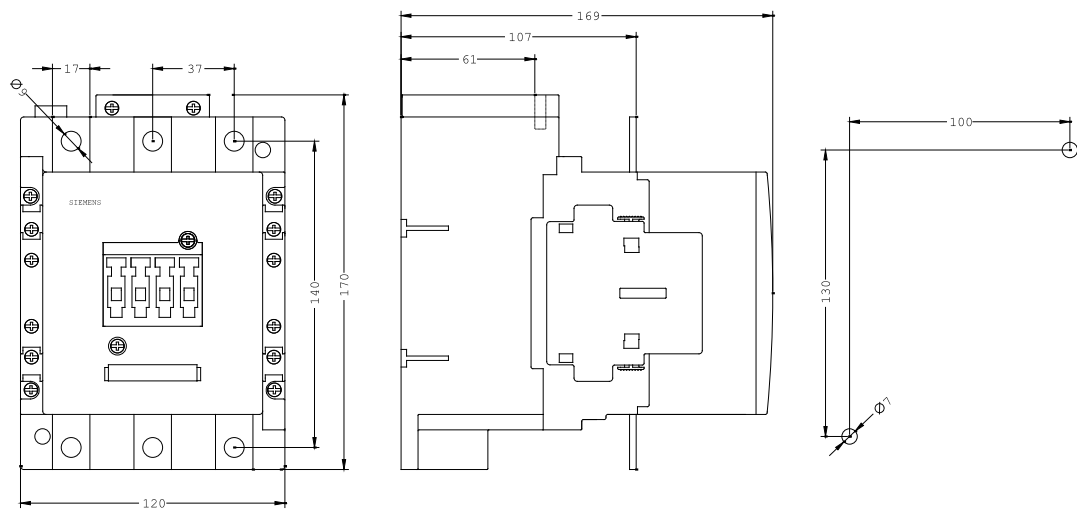
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1056-6AV36/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1056-6AV36](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1056-6AV36)



last change:

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