



CONTACTOR,  
690A/AC-1 AC(40...60HZ)/DC OPERATION UC 200-277V  
AUXILIARY CONTACTS 1NO+1NC 3-POLE,  
SIZE S12 BAR CONNECTIONS ELECTRONIC  
OPERATING MECHANISM WITH PLC/SIMOCODE  
INTERFACE AND REMAIN. LIFETIME INDICATOR

### General details:

Product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S12
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	55
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
--------------------------------------------	--	---

<b>Number of NC contacts / for main contacts</b>		0
<b>Number of NO contacts / for main contacts</b>		3
<b>Operating current / at AC-1 / at 400 V / at 40 °C ambient temperature / rated value</b>	A	690
<b>Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value</b>	A	650
<b>Operating current</b>		
• at AC-3 / at 400 V / rated value	A	170
• with 1 current path		
• at DC-1		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	33
• at DC-3 / at DC-5		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	3
• with 2 current paths in series		
• at DC-1		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	500
• at DC-3 / at DC-5		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	500
• with 3 current paths in series		
• at DC-1		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	500
• at DC-3 / at DC-5		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	500
<b>Service power</b>		
• at AC-1 / at 400 V / rated value	kW	430
• at AC-2 / at 400 V / rated value	kW	90
• at AC-3		
• at 400 V / rated value	kW	90
• at 500 V / rated value	kW	110
• at 690 V / rated value	kW	160
<b>Control circuit:</b>		
<b>Design of activation</b>		solid-state, for 24 V DC PLC output / PLC relay output, with indication of remaining lifetime
<b>Design of the surge suppressor</b>		with varistor

Type of voltage / of the controlled supply voltage		AC/DC
<b>Control supply voltage frequency</b>		
• 1 / rated value	Hz	40
• 2 / rated value	Hz	60
<b>Control supply voltage / 1</b>		
• for DC		
• initial rated value	V	200
• final rated value	V	277
• at 50 Hz / for AC		
• initial rated value	V	200
• final rated value	V	277
• at 60 Hz / for AC		
• initial rated value	V	200
• final rated value	V	277

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		1
• lagging switching		0
<b>Number of NO contacts / for auxiliary contacts</b>		
• instantaneous switching		1
• 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
- for short-circuit protection of the main circuit
  - with type of assignment 1 / required
  - at type of coordination 2 / required

fuse gL/gG: 10 A

fuse gL/gG: 800 A

fuse gL/gG: 710 A

#### Installation/mounting/dimensions:

Type of mounting		screw fixing
series installation		Yes
Width	mm	180
Height	mm	214
Depth	mm	225
Distance, to be maintained, to earthed part / sideways	mm	10

#### Connection type:

Design of the electrical connection <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>		screw-type terminals screw-type terminals
Identification number and letter for switching elements		11

#### 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

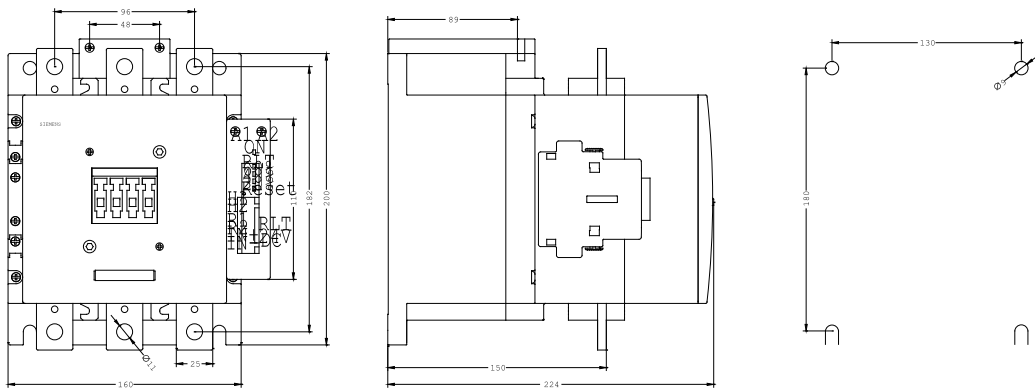
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1476-6PP35/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1476-6PP35](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1476-6PP35)



last change:

Sep 30, 2011