



CONTACTOR,
690A/AC-1 AC(40...60HZ)/DC OPERATION UC 21-27.3V
AUXILIARY CONTACTS 2NO+2NC 3-POLE,
SIZE S12 BAR CONNECTIONS ELECTRONIC
OPERATING MECHANISM WITH 24V DC PLC INTERFACE

General technical data:

product brand name		SIRIUS
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
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	690
• 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
• with 2 current paths in series / at DC-1		
• 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
• with 1 current path / 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-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-3 / at DC-5		
• at 24 V / rated value	A	500
• at 110 V / rated value	A	500
Service power		
• at AC-2 / at 400 V / rated value	kW	90
• at AC-3 / at 400 V / rated value	kW	90

Control circuit:		
Design of the surge suppressor		with varistor
Voltage type / of control feed voltage		AC/DC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8 ... 1.1
• at 60 Hz		
• for AC		0.8 ... 1.1
• for DC		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	750
Apparent holding power / of the solenoid / for AC	V·A	7
Inductive power factor / with the pull-in power of the coil		0.8
Inductive power factor / with the pull-in power of the coil		0.8
Pull-in power / of the solenoid / for DC	W	800
Holding power / of the solenoid / for DC	W	5
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts / instantaneous switching		2

Number of NO contacts / for auxiliary contacts / instantaneous switching		2
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Short-circuit:

Design of the fuse link

- 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:

Mounting type		screw fixing
series installation		Yes
Width	mm	160
Height	mm	214
Depth	mm	225
Distance, to be maintained, to earthed part / sideways	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

Type of the connectable conductor cross-section

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

2/0 ... 500 kcmil

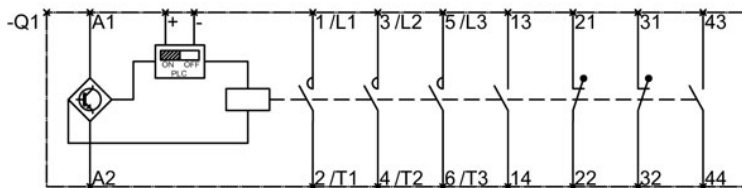
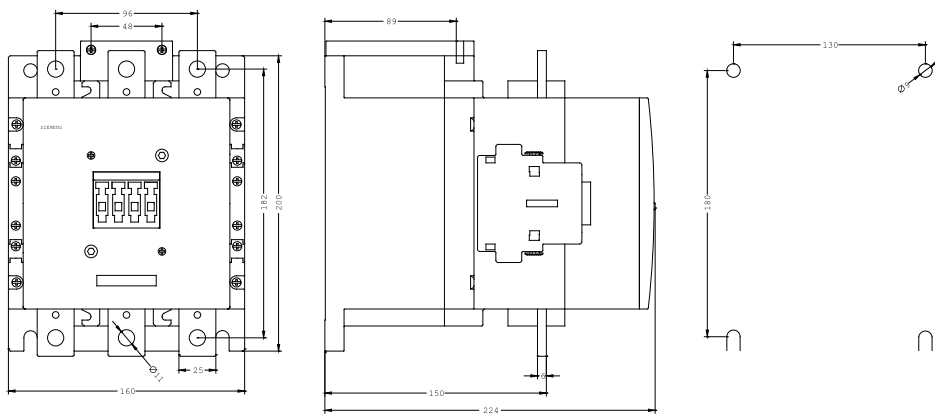
2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

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

Certificates/approvals:

General Product Approval			Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 CSA		 UL	Type Examination  EG-Konf.
Test Certificates	Shipping Approval			
Special Test Certificate	 ABS	 DNV	 GL	 RMRS
other				
Confirmation	other	Environmental Confirmations		
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/3RT1476-6NB36/all				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1476-6NB36				



last change:

Aug 4, 2014