

CONTACTOR, 55KW/400V/AC-3,
AC(40...60HZ)/DC OPERATION UC 220...240V AUX.
CONTACTS 2NO+2NC,
3-POLE,
SIZE S6 BAR CONNECTIONS CONVENTIONAL
OPERATING MECHAN. SCREW TERMINAL

General technical data:

product brand name		SIRIUS
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
Mechanical operating cycles as operating time		
<ul style="list-style-type: none"> • of the contactor / typical 		10,000,000
<ul style="list-style-type: none"> • of the contactor with added auxiliary switch block / typical 		10,000,000
<ul style="list-style-type: none"> • 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		
<ul style="list-style-type: none"> • at AC-1 / at 400 V <ul style="list-style-type: none"> • at 40 °C ambient temperature / rated value • at 60 °C ambient temperature / rated value 	A	160
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	A	140
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	A	115
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	A	97
<ul style="list-style-type: none"> • with 1 current path / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • with 1 current path / at DC-1 <ul style="list-style-type: none"> • at 110 V / rated value 	A	18
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • with 3 current paths in series / at DC-1 <ul style="list-style-type: none"> • at 24 V / rated value 	A	160

<ul style="list-style-type: none"> • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • with 1 current path / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> • at 110 V / rated value 	A	2.5
<ul style="list-style-type: none"> • with 2 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • with 3 current paths in series / at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> • at 110 V / rated value 	A	160
Service power		
<ul style="list-style-type: none"> • at AC-2 / at 400 V / rated value 	kW	64
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	kW	64
<ul style="list-style-type: none"> • at AC-4 / at 400 V / rated value 	W	55,000
Active power loss / per conductor / typical	W	7

Control circuit:

Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage / 1		
<ul style="list-style-type: none"> • for DC 		
<ul style="list-style-type: none"> • initial rated value 	V	220
<ul style="list-style-type: none"> • final rated value 	V	240
<ul style="list-style-type: none"> • at 50 Hz / for AC 		
<ul style="list-style-type: none"> • initial rated value 	V	220
<ul style="list-style-type: none"> • final rated value 	V	240
<ul style="list-style-type: none"> • at 60 Hz / for AC 		
<ul style="list-style-type: none"> • initial rated value 	V	220
<ul style="list-style-type: none"> • final rated value 	V	240
Operating range factor control supply voltage rated value / of the magnet coil		
<ul style="list-style-type: none"> • at 50 Hz 		
<ul style="list-style-type: none"> • for AC 		0.8 ... 1.1
<ul style="list-style-type: none"> • at 60 Hz 		
<ul style="list-style-type: none"> • for AC 		0.8 ... 1.1
<ul style="list-style-type: none"> • for DC 		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	300
Apparent holding power / of the solenoid / for AC	V·A	5.8
Inductive power factor / with the pull-in power of the coil		0.9
Inductive power factor / with the pull-in power of the coil		0.8

Pull-in power / of the solenoid / for DC	W	360
Holding power / of the solenoid / for DC	W	5.2

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts / instantaneous switching		2
Number of NO contacts / for auxiliary contacts / instantaneous switching		2
Operating current / of the auxiliary contacts		
• 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:

Design of the fuse link		
• 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:











Type of mounting		screw fixing
series installation		Yes
Width	mm	120
Height	mm	172
Depth	mm	170
Distance, to be maintained, to earthed part / sideways	mm	10

Connection type:

Design of the electrical connection		
• for main current circuit		screw-type terminals

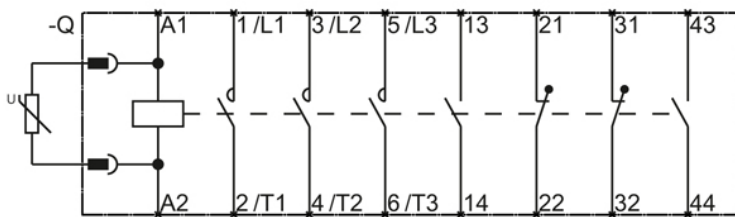
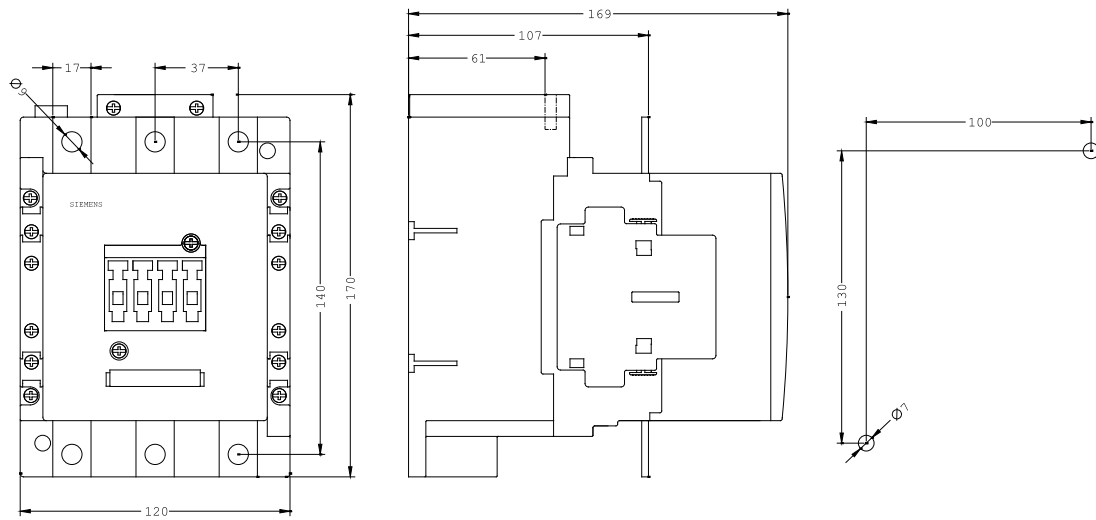
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
Type of the connectable conductor cross-section <ul style="list-style-type: none"> • for AWG conductors / for main contacts • for auxiliary contacts <ul style="list-style-type: none"> • finely stranded <ul style="list-style-type: none"> • with conductor end processing • for AWG conductors / for auxiliary contacts 	4 ... 250 kcmil 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

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.	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>
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- 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/3RT1054-6AP36/all>
-
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1054-6AP36



last change:

Jul 27, 2012