

CONTACTOR,
55KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-
240V AUXILIARY CONTACTS 2NO+2NC 3-POLE,
SIZE S6 WITH BOX TERMINALS CONVENTIONAL
OPERATING MECHAN. CAGE CLAMP CONNECTION

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

Control circuit:		
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
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 • at 60 Hz <ul style="list-style-type: none"> • for AC • for DC 		0.8 ... 1.1
		0.8 ... 1.1
		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

Short-circuit:		
Design of the fuse link		
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit 		fuse gL/gG: 10 A

- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 355 A

fuse gL/gG: 315 A

Installation/mounting/dimensions:

Type of mounting		screw fixing
series installation		Yes
Width	mm	120
Height	mm	172
Depth	mm	180
Distance, to be maintained, to earthed part / sideways	mm	10

Connection type:

Design of the electrical connection		
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 		<p>screw-type terminals</p> <p>Cage Clamp terminals</p>
Type of the connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • stranded • finely stranded <ul style="list-style-type: none"> • with conductor end processing • without conductor final cutting • for AWG conductors / for main contacts • for auxiliary contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> • with conductor end processing • without conductor final cutting • for AWG conductors / for auxiliary contacts 		<p>max. 2x 70 mm²</p> <p>max. 1x 50, 1x 70 mm²</p> <p>max. 1x 50, 1x 70 mm²</p> <p>2x 1/0</p> <p>2x (0.25 ... 2.5 mm²)</p> <p>2x (0.25 ... 1.5 mm²)</p> <p>2x (0.25 ... 2.5 mm²)</p> <p>2x (24 ... 14)</p>

Certificates/approvals:

General Product Approval

Functional Safety /
Safety of
Machinery



CCC



CSA



GOST



KETI



UL

[Type Examination](#)

Declaration of
Conformity



EG-Konf.

Test Certificates

[Special Test
Certificate](#)

Shipping Approval



ABS



DNV



GL



RMRS

other

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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:

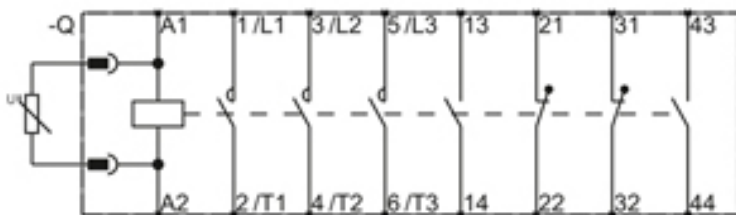
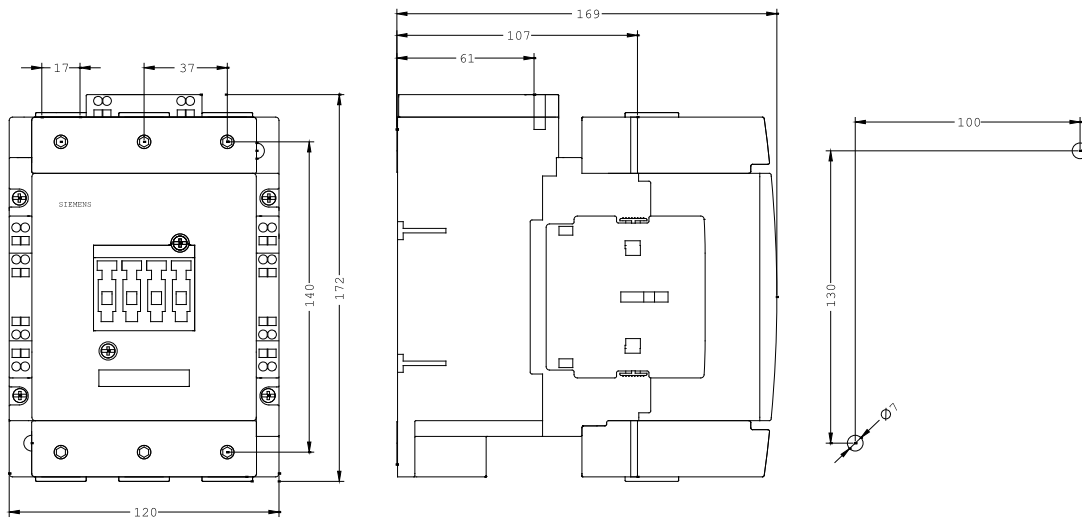
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1054-3AP36/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1054-3AP36



last change:

Feb 15, 2013