

CONTACTOR, 90KW/400V/AC-3,
AC(40...60HZ)/DC OPERATION UC 42...48V AUXIL.
CONTACTS 2NO+2NC 3-POLE,
SIZE S6 BAR CONNECTIONS CONVENTION. 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"> • according to DIN EN 61346-2 • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		Q K
Mechanical operating cycles as operating time		
<ul style="list-style-type: none"> • of the contactor / typical • of the contactor with added auxiliary switch block / typical • of the contactor with added electronics-compatible auxiliary switch block / typical 		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"> • at AC-3 / at 400 V / rated value • with 1 current path • at DC-1 • at 24 V / rated value 	A	185
	A	160

<ul style="list-style-type: none"> • at 110 V / rated value 	A	18
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> <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 		
<ul style="list-style-type: none"> • at DC-1 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> <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 		
<ul style="list-style-type: none"> • at DC-1 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 110 V / rated value 	A	160
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 24 V / rated value 	A	160
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 110 V / rated value 	A	160
Service power		
<ul style="list-style-type: none"> • at AC-1 / at 400 V / rated value 	kW	121
<ul style="list-style-type: none"> • at AC-2 / at 400 V / rated value 	kW	104
<ul style="list-style-type: none"> • at AC-3 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 400 V / rated value 	kW	90
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 500 V / rated value 	kW	132
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • at 690 V / rated value 	kW	167

Control circuit:		
Design of activation		conventional
Design of the surge suppressor		with varistor
Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage frequency		
<ul style="list-style-type: none"> • 1 / rated value 	Hz	40
<ul style="list-style-type: none"> • 2 / rated value 	Hz	60
Control supply voltage / 1		
<ul style="list-style-type: none"> • for DC 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • initial rated value 	V	42
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • final rated value 	V	48
<ul style="list-style-type: none"> • at 50 Hz / for AC 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • initial rated value 	V	42
<ul style="list-style-type: none"> <ul style="list-style-type: none"> • final rated value 	V	48

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

V	42
V	48

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
• lagging switching		0
Number of NO contacts / for auxiliary contacts		
• instantaneous switching		2
• leading switching		0
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	180
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

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

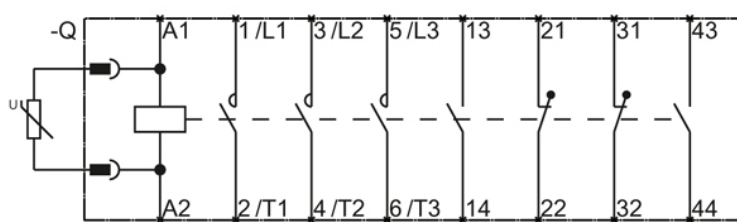
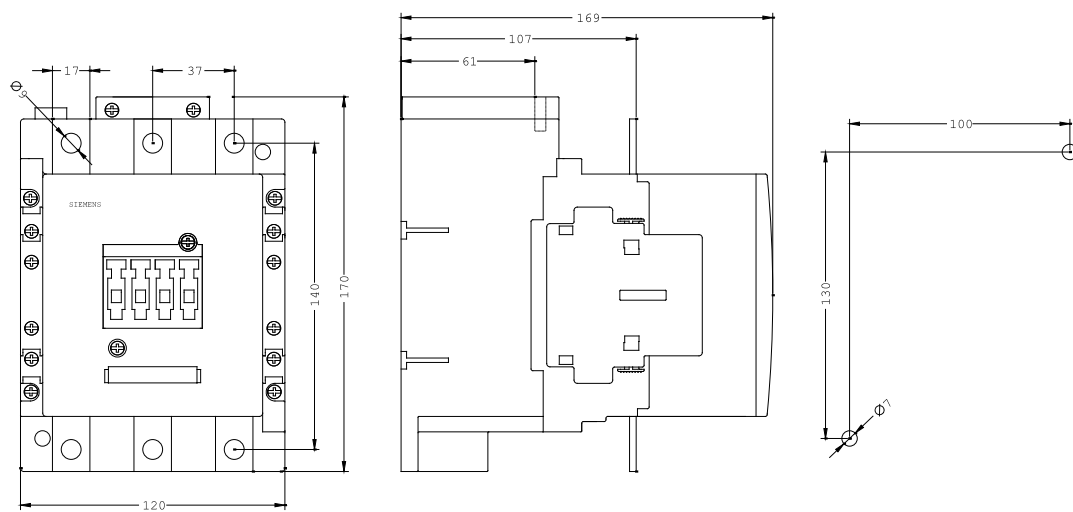
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1056-6AD36/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1056-6AD36



last change:

Sep 30, 2011