

CONTACTOR, AC-3 5,5 KW/400 V, AC 230 V,
50/60 HZ, 3-POLE, SIZE S0,
SCREW CONNECTION

General details:

product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S0
Protection class IP / on the front		IP20
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	0.5
Item designation		
<ul style="list-style-type: none"> • according to DIN EN 61346-2 		Q
<ul style="list-style-type: none"> • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		K
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 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	40
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	35
Operating current		
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	A	12
<ul style="list-style-type: none"> • with 1 current path 		
<ul style="list-style-type: none"> • at DC-1 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	4.5
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		

<ul style="list-style-type: none"> • at 24 V / rated value 	A	20
<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"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	35
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	15
<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"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	35
<ul style="list-style-type: none"> • at DC-3 / at DC-5 		
<ul style="list-style-type: none"> • at 24 V / rated value 	A	35
<ul style="list-style-type: none"> • at 110 V / rated value 	A	35
Service power		
<ul style="list-style-type: none"> • at AC-1 / at 400 V / rated value 	kW	23
<ul style="list-style-type: none"> • at AC-2 / at 400 V / rated value 	kW	5.5
<ul style="list-style-type: none"> • at AC-3 		
<ul style="list-style-type: none"> • at 400 V / rated value 	kW	5.5
<ul style="list-style-type: none"> • at 500 V / rated value 	kW	7.5
<ul style="list-style-type: none"> • at 690 V / rated value 	kW	7.5

Control circuit:		
Design of activation		conventional
Type of voltage / of the controlled supply voltage		AC
Control supply voltage frequency		
<ul style="list-style-type: none"> • 1 / rated value 	Hz	50
<ul style="list-style-type: none"> • 2 / rated value 	Hz	60
Control supply voltage / 1		
<ul style="list-style-type: none"> • at 50 Hz / for AC 		
<ul style="list-style-type: none"> • rated value 	V	230
<ul style="list-style-type: none"> • at 60 Hz / for AC 		
<ul style="list-style-type: none"> • rated value 	V	230

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		
<ul style="list-style-type: none"> • instantaneous switching 		0
<ul style="list-style-type: none"> • lagging switching 		0

Number of NO contacts / for auxiliary contacts		
• instantaneous switching		0
• 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
- 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: 63 A

fuse gL/gG: 25 A

Installation/mounting/dimensions:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
series installation		Yes
Width	mm	45
Height	mm	85
Depth	mm	91
Distance, to be maintained, to earthed part / sideways	mm	6

Connection type:

Design of the electrical connection

- for main current circuit
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Certificates/approvals:

General Product Approval

Functional Safety / Safety of Machinery



CQC



CSA

[KETI](#)

[ROSTEST](#)



UL

[SUVA](#)

Test Certificates

[Manufacturer](#)

Shipping Approval



ABS



BUREAU VERITAS



DNV



GL



LRS



Shipping Approval

other



RMRS

[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

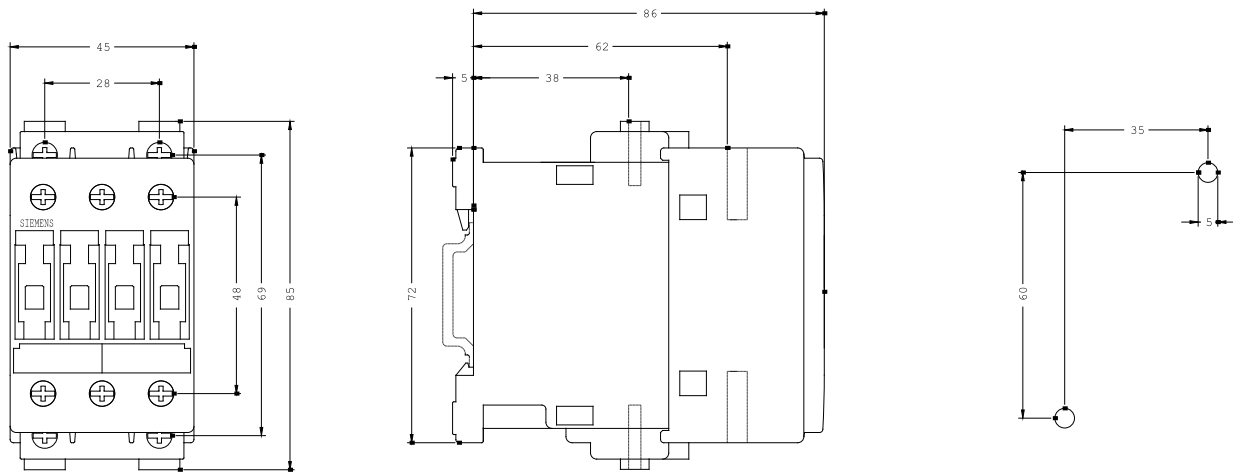
<http://www.siemens.com/cax>

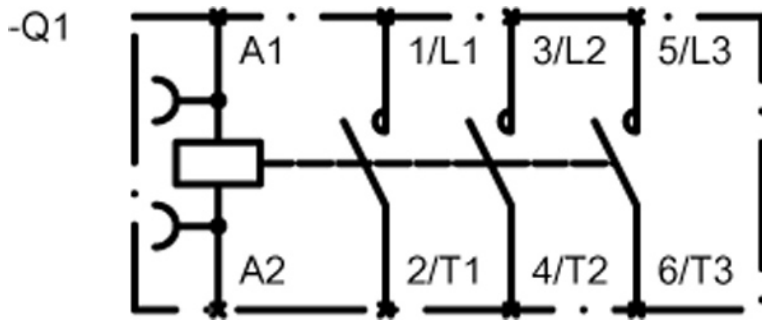
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT1024-1AL20/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1024-1AL20





last change:

Feb 10, 2012