



CONTACTOR, AC-3 4KW/400V, AC 24 V,
50/60 HZ, 3-POLE, SIZE S0,
SCREW CONNECTION

General technical data:

product brand name		SIRIUS
Size of contactor		S0
Protection class IP / on the front		IP20
Degree of pollution		3
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
• during operation	°C	-25 ... +60
Mechanical service life (switching cycles)		
• 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 / up to 690 V		
• at ambient temperature 40 °C / Rated value	A	40
• at ambient temperature 60 °C / Rated value	A	35

• at AC-3 / at 400 V / Rated value	A	9
• at AC-4 / at 400 V / Rated value	A	8.5
Operating current		
• with 1 current path / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	4.5
• with 2 current paths in series / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
• with 3 current paths in series / at DC-1		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
Operating current		
• with 1 current path / at DC-3 / at DC-5		
• at 24 V / Rated value	A	20
• at 110 V / Rated value	A	2.5
• with 2 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	15
• with 3 current paths in series / at DC-3 / at DC-5		
• at 24 V / Rated value	A	35
• at 110 V / Rated value	A	35
Operating power		
• at AC-1		
• at 400 V / Rated value	kW	23
• at AC-2		
• at 400 V / Rated value	kW	4
• at AC-3		
• at 400 V / Rated value	kW	4
• at 500 V / Rated value	kW	4.5
• at 690 V / Rated value	kW	5.5
• at AC-4		
• at 400 V / Rated value	W	4,000
Active power loss / at AC-3 / at 400 V / for rated value of the operating current / per conductor	W	0.4
Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC
Control supply voltage		
• with AC / at 50 Hz / Rated value	V	24

<ul style="list-style-type: none"> • with AC / at 60 Hz / Rated value 	V	24
Operating range factor control supply voltage rated value / of the magnet coil		
<ul style="list-style-type: none"> • with AC / at 50 Hz 		0.8 ... 1.1
<ul style="list-style-type: none"> • with AC / at 60 Hz 		0.8 ... 1.1
Apparent pick-up power / of the magnet coil / with AC	V·A	64
Apparent holding power / of the magnet coil / with AC	V·A	8.4
Inductive power factor		
<ul style="list-style-type: none"> • with closing power of the coil 		0.72
<ul style="list-style-type: none"> • with the holding power of the coil 		0.24

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 contact		0
Number of NO contacts / for auxiliary contacts / instantaneous contact		0
Operating current		
<ul style="list-style-type: none"> • at AC-12 / maximum 	A	10
<ul style="list-style-type: none"> • at AC-15 		
<ul style="list-style-type: none"> • at 230 V / Rated value 	A	6
<ul style="list-style-type: none"> • at 400 V / Rated value 	A	3
Operating current / at DC-12		
<ul style="list-style-type: none"> • at 60 V / Rated value 	A	6
<ul style="list-style-type: none"> • at 110 V / Rated value 	A	3
<ul style="list-style-type: none"> • at 220 V / Rated value 	A	1
Operating current / at DC-13		
<ul style="list-style-type: none"> • at 24 V / Rated value 	A	10
<ul style="list-style-type: none"> • at 60 V / Rated value 	A	2
<ul style="list-style-type: none"> • at 110 V / Rated value 	A	1
<ul style="list-style-type: none"> • at 220 V / Rated value 	A	0.3

Short-circuit:

Design of the fuse link		
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 10 A
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit 		
<ul style="list-style-type: none"> • with type of assignment 1 / required 		fuse gL/gG: 63 A
<ul style="list-style-type: none"> • with type of assignment 2 / required 		fuse gL/gG: 25 A

Installation/ mounting/ dimensions:

Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
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Mounting type / Side-by-side mounting		Yes
Width	mm	45
Height	mm	85
Depth	mm	91
Spacing required / for grounded parts	mm	6

Connections/ terminals:

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>screw-type terminals</p>
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • solid • finely stranded <ul style="list-style-type: none"> • with core end processing • 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 core end processing • for AWG conductors / for auxiliary contacts 		<p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²</p> <p>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14), 1x 12</p>

Certificates/ approvals:

General Product Approval	Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 UL	 EG-Konf.
 CSA		Type Examination

Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Shipping Approval



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/industrymall>

Cax online generator

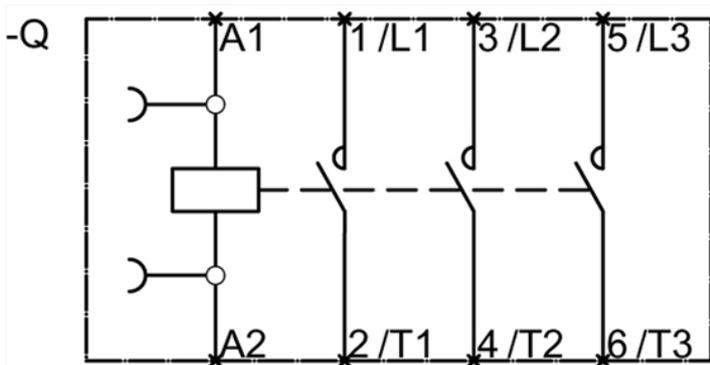
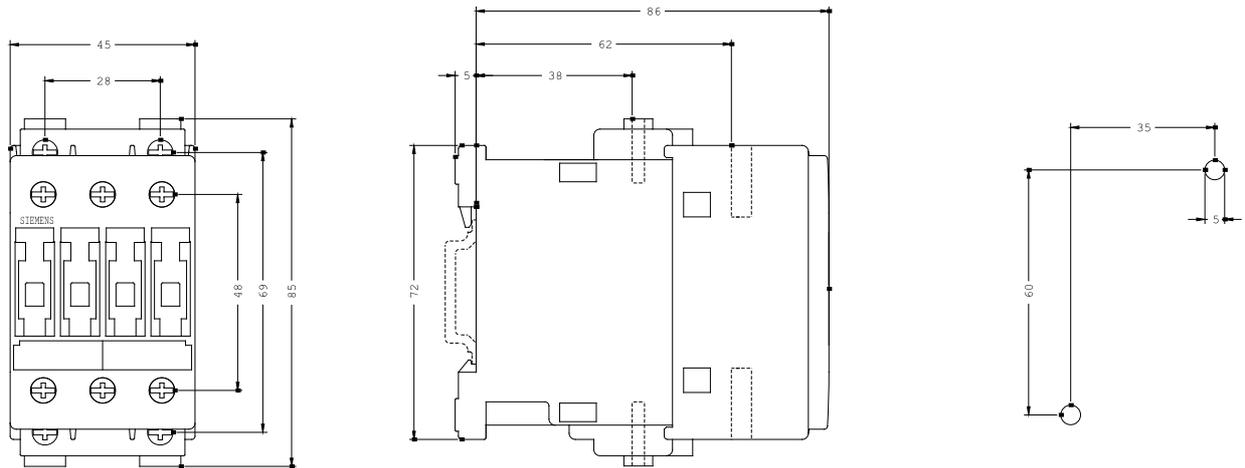
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1023-1AC20/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1023-1AC20



last change:

Nov 11, 2014