



CONTACTOR, AC-3 18,5 KW/400 V,
AC 110V 50HZ/120V 60HZ 3-POLE, SIZE S2,
SCREW CONNECTION

General details:

product brand name		SIRIUS
product designation		power contactor
Size of the contactor		S2
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	2.6
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
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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	60
Operating current / at AC-1 / at 400 V / at 60 °C ambient temperature / rated value	A	55
Operating current		
• at AC-3 / at 400 V / rated value	A	40
• with 1 current path		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	4.5
• at DC-3 / at DC-5		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	2.5
• with 2 current paths in series		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	25
• with 3 current paths in series		
• at DC-1		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
• at DC-3 / at DC-5		
• at 24 V / rated value	A	55
• at 110 V / rated value	A	55
Service power		
• at AC-1 / at 400 V / rated value	kW	38
• at AC-2 / at 400 V / rated value	kW	18.5
• at AC-3		
• at 400 V / rated value	kW	18.5
• at 500 V / rated value	kW	22
• at 690 V / rated value	kW	22
Control circuit:		
Design of activation		conventional
Type of voltage / of the controlled supply voltage		AC
Control supply voltage frequency		

• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz / for AC		
• rated value	V	110
• at 60 Hz / for AC		
• rated value	V	120

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		0
• 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		fuse gL/gG: 10 A
• for short-circuit protection of the main circuit		
• with type of assignment 1 / required		fuse gL/gG: 125 A
• at type of coordination 2 / required		fuse gL/gG: 63 A

Installation/mounting/dimensions:

Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
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series installation		Yes
Width	mm	55
Height	mm	112
Depth	mm	115
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



RINA

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

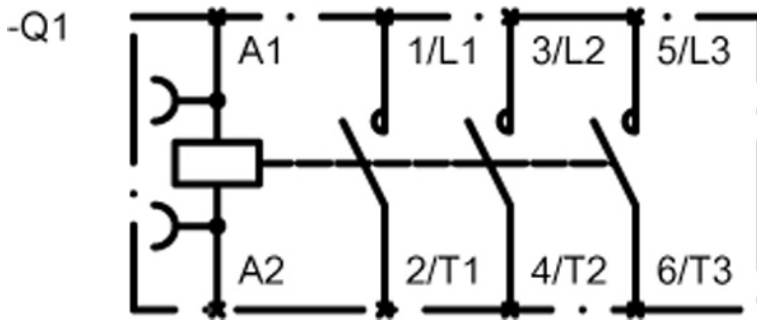
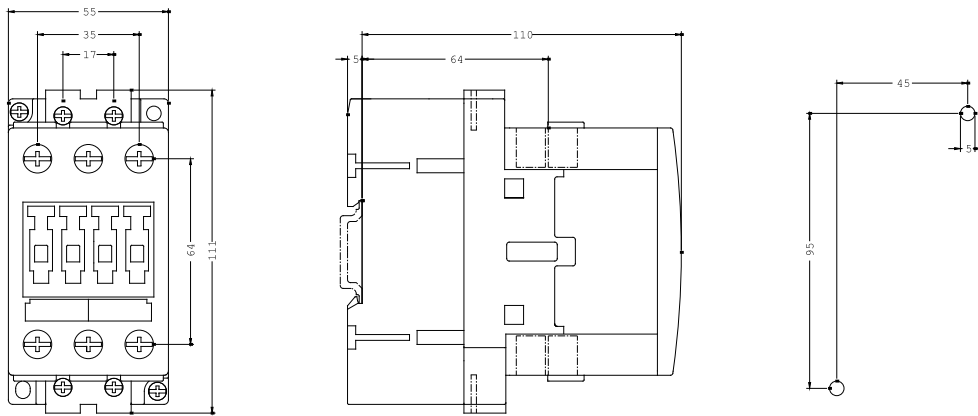
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1035-1AK60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1035-1AK60



last change:

Feb 10, 2012