

CONTACTOR, AC-3, 11KW/400V, DC 42 V,
4-POLE, 2 NO + 2 NC, SIZE S0,
SCREW CONNECTION

General technical data:

product brand name		SIRIUS
Size of the contactor		S0
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Insulation voltage / rated value	V	690
Mechanical operating cycles as operating time		
• 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		2
Number of NO contacts / for main contacts		2
Operational current / at AC-1 / up to 690 V		
• at 40 °C ambient temperature / rated value	A	40
• at 60 °C ambient temperature / rated value	A	35
Operating current / at AC-2 / at AC-3		
• at 400 V		
• per NO contact / rated value	A	20
• per NC contact / rated value	A	20
Operating current		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	35
• at 110 V / rated value	A	4.5
• at 220 V / rated value	A	1
• at 440 V / rated value	A	0.4

• with 2 current paths in series / at DC-1 • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value	A	35
	A	35
	A	5
	A	1
Operating current		
• with 1 current path / at DC-3 / at DC-5 • at 24 V • per NO contact / rated value • per NC contact / rated value • at 110 V • per NO contact / rated value • per NC contact / rated value • at 220 V • per NO contact / rated value • per NC contact / rated value • at 440 V • per NO contact / rated value • per NC contact / rated value • with 2 current paths in series / at DC-3 / at DC-5 • at 24 V • per NO contact / rated value • per NC contact / rated value • at 110 V • per NO contact / rated value • per NC contact / rated value • at 220 V • per NO contact / rated value • per NC contact / rated value • at 440 V • per NO contact / rated value • per NC contact / rated value	A	20
	A	20
	A	2.5
	A	1.25
	A	1
	A	0.5
	A	0.09
	A	0.045
	A	35
	A	35
	A	15
	A	7.5
	A	3
	A	1.5
	A	0.27
	A	0.135
Operating performance		
• at AC-1 • at 230 V / rated value • at 400 V / rated value • at AC-2 / at AC-3 • at 230 V • per NO contact / rated value • per NC contact / rated value	kW	15
	kW	26
	kW	5.5
	kW	5.5

• at 400 V		
• per NO contact / rated value	kW	11
• per NC contact / rated value	kW	11
Active power loss / at AC-3 / at 400 V / with rated Operating current value / per conductor	W	1.6
Frequency of operation		
• with AC-1 / maximum	1/h	1,000
• at AC-2 / at AC-3 / maximum	1/h	750

Control circuit/ Control:		
Voltage type / of control feed voltage		DC
Control supply voltage		
• for DC / rated value	V	42
operating range factor control supply voltage rated value / of the magnet coil		
• for DC		0.8 ... 1.1
Pull-in power / of the solenoid / for DC	W	5.4
Holding power / of the solenoid / for DC	W	5.4
Closing delay		
• at AC	ms	6 ... 30
• at DC	ms	30 ... 90
Opening delay		
• at AC	ms	13 ... 25
• at DC	ms	13 ... 40
Arcing time	ms	10 ... 15
Residual current / of electronics / for control with signal <0>		
• at 24 V / with DC / maximum permissible	A	0.016

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
Number of NO contacts / for auxiliary contacts / instantaneous switching		0
Operating current		
• at AC-12 / maximum	A	10
• at AC-15 / at 230 V / rated value	A	6
• at AC-15 / at 400 V / rated value	A	3
Operating current / at DC-12		
• at 60 V / rated value	A	6
• at 110 V / rated value	A	3
• at 220 V / rated value	A	1

Operating current / at DC-13		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	2
• at 110 V / rated value	A	1
• at 220 V / rated value	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: 63 A
• at type of coordination 2 / required		fuse gL/gG: 35 A

Installation/ mounting/ dimensions:		
mounting position		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Mounting type / series installation		Yes
Width	mm	61
Height	mm	85
Depth	mm	101

Connections/ terminals:		
Design of the electrical connection		
• for main current circuit		screw-type terminals
• for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts		
• solid		2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²
• finely stranded		
• with conductor end processing		2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
• for AWG conductors / for main contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)
• finely stranded		
• with conductor end processing		2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
• for AWG conductors / for auxiliary contacts		2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

General Product Approval**Functional Safety /
Safety of
Machinery****Declaration of
Conformity**

CCC



CSA



UL

[Type Examination](#)

EG-Konf.

Test Certificates[Special Test
Certificate](#)**Shipping Approval**

ABS



GL



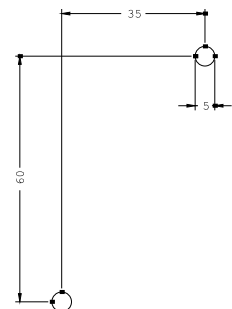
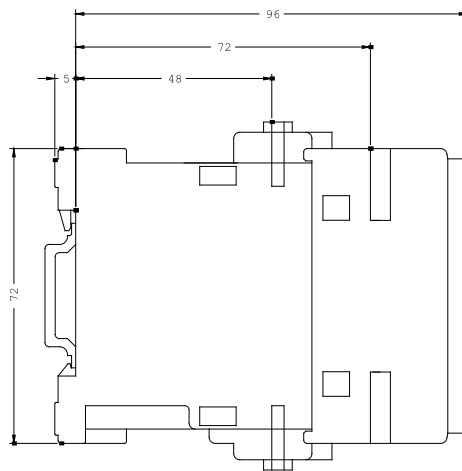
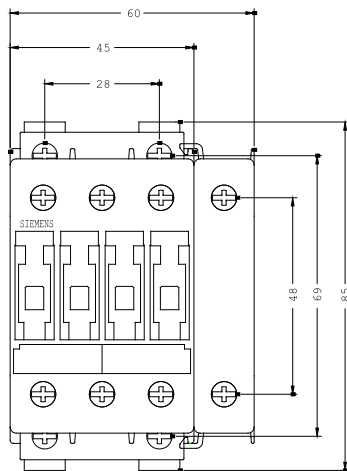
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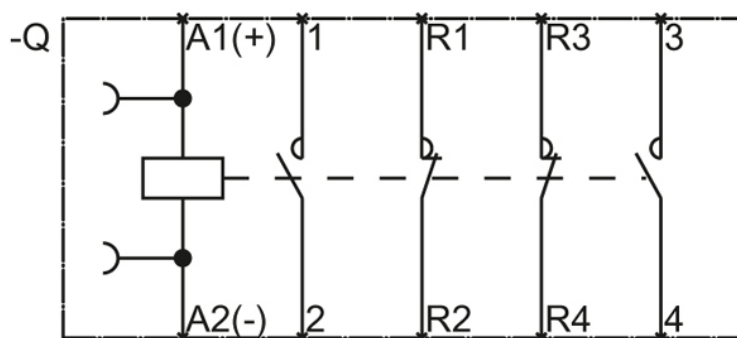


RINA



RMRS

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last change:

Jul 28, 2014