

CONTACTOR AC-3, 11KW/ 400V,
DC 12V 4-POLE, 2NO+2NC,
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	12
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
- 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: 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
- for auxiliary and control current circuit

screw-type terminals

screw-type terminals

Type of the connectable conductor cross-section

- for main contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for main contacts
- for auxiliary contacts
 - solid
 - finely stranded
 - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), max. 2x 10 mm²

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

last change:

Jul 28, 2014