



CONTACTOR, AC-3 45 KW/400 V, AC 48 V,
50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION

General technical data:		
product brand name		SIRIUS
Size of the contactor		S3
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
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		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	120
• at AC-3 / at 400 V / rated value	A	95
• at AC-4 / at 400 V / rated value	A	80

• with 1 current path / at DC-1	A	100
• at 24 V / rated value	A	9
• at 110 V / rated value		
• with 2 current paths in series / at DC-1	A	100
• at 24 V / rated value	A	100
• at 110 V / rated value		
• with 3 current paths in series / at DC-1	A	100
• at 24 V / rated value	A	100
• at 110 V / rated value		
• with 1 current path / at DC-3 / at DC-5	A	40
• at 24 V / rated value	A	2.5
• at 110 V / rated value		
• with 2 current paths in series / at DC-3 / at DC-5	A	100
• at 24 V / rated value	A	100
• at 110 V / rated value		
• with 3 current paths in series / at DC-3 / at DC-5	A	100
• at 24 V / rated value	A	100
• at 110 V / rated value		
Service power		
• at AC-2 / at 400 V / rated value	kW	45
• at AC-3 / at 400 V / rated value	kW	45
• at AC-4 / at 400 V / rated value	W	45,000

Control circuit:		
Voltage type / of control feed voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	270
Apparent holding power / of the solenoid / for AC	V·A	22
Inductive power factor / with the pull-in power of the coil		0.68
Inductive power factor / with the pull-in power of the coil		0.27

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

Short-circuit:		
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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: 250 A
	• at type of coordination 2 / required	fuse gL/gG: 160 A

Installation/mounting/dimensions:

Mounting type		screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail
series installation		Yes
Width	mm	70
Height	mm	146
Depth	mm	139
Distance, to be maintained, to earthed part / sideways	mm	6

Connection type:

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 (2.5 ... 16 mm ²)
	• stranded	2x (10 ... 50 mm ²)
	• finely stranded	
	• with conductor end processing	2x (2.5 ... 35 mm ²)
	• without conductor final cutting	2x (10 ... 35 mm ²)
	• for AWG conductors / for main contacts	2x (10 ... 1/0)
	• for auxiliary contacts	
	• solid	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²)
	• finely stranded	
	• with conductor end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
	• 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		Shipping Approval			
Special Test Certificate		 ABS	 GL	 LRS	 RINA
					 RMRS
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/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/3RT1046-1AH00/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1046-1AH00

