



4NO CONTACTOR,
AC1: 18A AC 230V 50/60HZ 4-POLE, 4NO,
SZ: S00, SPRING-LOADED TERMINAL

General technical data:

product brand name		SIRIUS
Size of the contactor		S00
Product extension / auxiliary switch		Yes
Product extension / function module for communication		No
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
Shock resistance		
• at rectangular impulse		
• at AC		6,7g / 5 ms, 4,2g / 10 ms
• at sine pulse		
• at AC		10,5g / 5 ms, 6,6g / 10 ms
Impulse voltage resistance / rated value	kV	6
Insulation voltage / rated value	V	690

Maximum permissible voltage for protective separation / between coil and main contacts / in accordance with EN 60947-1	V	400
Mechanical operating cycles as operating time		
• of the contactor / typical		30,000,000
• 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		4
Operating current / at AC-1 / at 400 V		
• at 40 °C ambient temperature / rated value	A	18
• at 60 °C ambient temperature / rated value	A	16
Connectable conductor cross-section / in main circuit		
• at AC-1		
• at 40 °C / minimum permissible	m ²	2.5
• at 60 °C / minimum permissible	m ²	2.5
Operational current		
• at AC-2 / at 400 V / rated value	A	9
• at AC-3		
• at 400 V / rated value	A	9
• at AC-4 / at 400 V / rated value	A	8.5
Operational current		
• with 1 current path / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	2.1
• at 220 V / rated value	A	0.8
• at 440 V / rated value	A	0.6
• with 2 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	12
• at 220 V / rated value	A	1.6
• at 440 V / rated value	A	0.8
• with 3 current paths in series / at DC-1		
• at 24 V / rated value	A	20
• at 110 V / rated value	A	20
• at 220 V / rated value	A	16
• at 440 V / rated value	A	1.3
Operational current		
• with 1 current path / at DC-3 / at DC-5		

• at 24 V / rated value • at 110 V / rated value • with 2 current paths in series / at DC-3 / at DC-5 • at 24 V / rated value • at 110 V / rated value • with 3 current paths in series / at DC-3 / at DC-5 • at 24 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value	A	20
	A	0.1
	A	20
	A	0.35
	A	20
	A	20
	A	1.5
	A	0.2
Service power		
• at AC-1 • at 230 V / rated value • at 400 V / rated value • at AC-2 / at 400 V / rated value • at AC-3 • at 230 V / rated value • at 400 V / rated value • at AC-4 / at 400 V / rated value	kW	6.5
	kW	11
	kW	4
	kW	2.2
	kW	4
	kW	4
Active power loss / at AC-3 / at 400 V / with rated operational current value / per conductor	W	0.7
Off-load operating frequency		
• at AC • at DC	1/h	10,000
	1/h	10,000
Frequency of operation		
• at AC-1 / according to IEC 60947-6-2 • at AC-2 / according to IEC 60947-6-2 • at AC-3 / according to IEC 60947-6-2 • at AC-4 / according to IEC 60947-6-2	1/h	1,000
	1/h	750
	1/h	750
	1/h	250
Control circuit:		
Type of voltage / of the controlled supply voltage		AC
Control supply voltage		
• at 50 Hz / at AC / rated value • at 60 Hz / at AC / rated value	V	230
	V	230
operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz / for AC • at 60 Hz / for AC		0.8 ... 1.1
		0.85 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.2

Inductive power factor • with the pull-in power of the coil • with the pull-in power of the coil		0.8
		0.25
Closing delay • at AC	ms	9 ... 35
Opening delay • at AC	ms	3.5 ... 14
Arcing time	ms	10 ... 15

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

UL/CSA ratings:

yielded mechanical performance (hp) • for single-phase squirrel cage motors • at 110/120 V / rated value • at 230 V / rated value • for three-phase squirrel cage motors • at 200/208 V / rated value • at 220/230 V / rated value • at 460/480 V / rated value • at 575/600 V / rated value	hp	0.33
	hp	1
	hp	2
	hp	3
	hp	5
	hp	7.5
	A	7.6
	A	9
Operating current (FLA) / for three-phase squirrel cage motors • at 480 V / rated value • at 600 V / rated value		
Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600

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
		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A
		gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A

Installation/mounting/dimensions:

mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Type of fixing/fixation / series installation		Yes
Width	mm	45
Height	mm	70
Depth	mm	73
Distance, to be maintained, to the ranks assembly / sideways	mm	0

Connections:

Design of the electrical connection		
• for main current circuit • for auxiliary and control current circuit		spring-loaded terminals screw-type terminals
Type of the connectable conductor cross-section		
• for main contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors / for main contacts • for auxiliary contacts • solid • finely stranded • with conductor end processing • without conductor final cutting • for AWG conductors / for auxiliary contacts		2x (0.5 ... 4 mm²) 2x (0.5 ... 2.5 mm²) 2x (0.5 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 2x 12 2x (0.5 ... 4 mm²) 2x (0.5 ... 2.5 mm²) 2x (0.5 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 2x 12

Sicherheitsrelevante Kenngrößen:

B10 value / with high demand rate		
• according to SN 31920		1,000,000
T1 value / for proof test interval or service life		
• according to IEC 61508	a	20
Proportion of dangerous failures		
• with low demand rate / according to SN 31920 • with high demand rate / according to SN 31920	% %	40 73
Failure rate (FIT value) / with low demand rate		
• according to SN 31920	FIT	100
Product function		
• mirror contact to IEC 60947-4-1		Yes

• comment

• positively driven operation to IEC 60947-5-1

with 3RH29

No

Certificates/approvals:

General Product Approval



Functional Safety / Safety of Machinery

[Type Examination](#)

Declaration of Conformity



Test Certificates

[Special Test
Certificate](#)

Shipping Approval



Shipping Approval

other



[Confirmation](#)



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

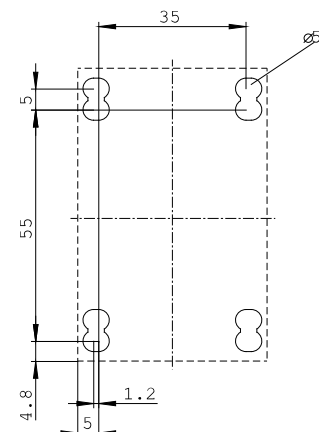
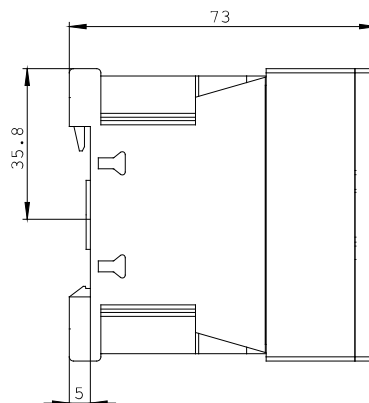
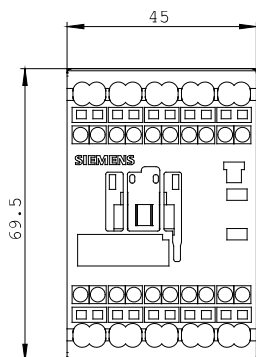
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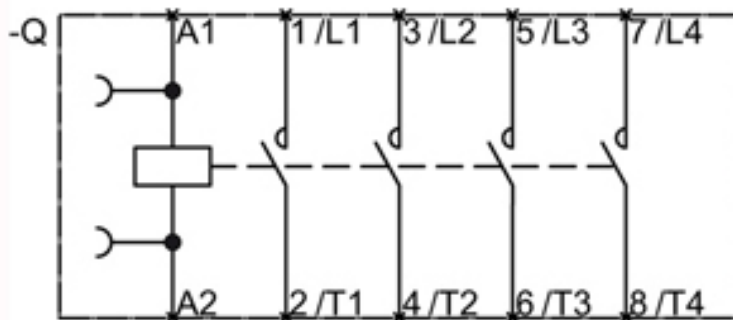
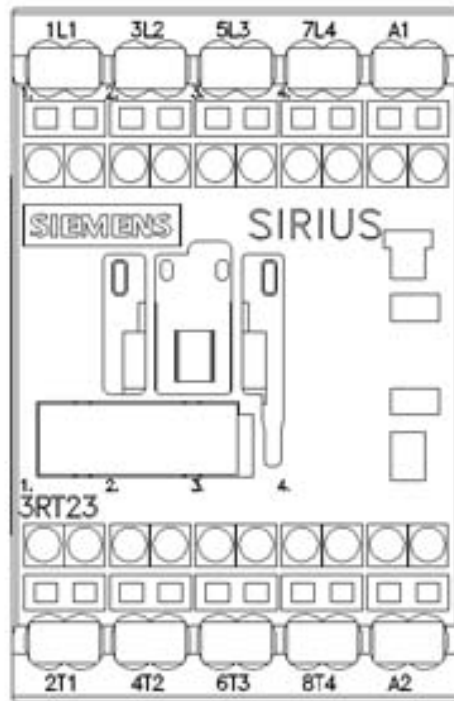
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RT2316-2AP00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2316-2AP00





last change:

Feb 15, 2013