



CONTACTOR RELAY, 4NO, AC 110V,
50/60 HZ, SZ S00, SPRING-LOADED TERMINAL

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Identification number and letter for switching elements		40 E
Product extension / auxiliary switch		Yes
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
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		7,3g / 5 ms, 4,7g / 10 ms
• at sine pulse		
• at AC		11,4g / 5 ms, 7,3g / 10 ms
Impulse voltage resistance / rated value	kV	6
Mechanical operating cycles as operating time		

- of the contactor / typical
- of the contactor with added auxiliary switch block / typical
- of the contactor with added electronics-compatible auxiliary switch block / typical

30,000,000
10,000,000
10,000,000

Control circuit:

Type of voltage / of the controlled supply voltage		AC
Operating range factor control supply voltage rated value / of the magnet coil		0.8 ... 1.1 0.85 ... 1.1
• at 50 Hz / for AC		
• at 60 Hz / for AC		
Apparent pull-in power / of the solenoid / for AC	V·A	37
Apparent holding power / of the solenoid / for AC	V·A	5.7
Inductive power factor		0.8 0.25
• with the pull-in power of the coil		
• with the pull-in power of the coil		
Closing delay		
• at AC	ms	8 ... 33
Opening delay		
• at AC	ms	6 ... 25
Arcing time	s	10 ... 15

Auxiliary circuit:

Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NO contacts / for auxiliary contacts / instantaneous switching		4
[nicht versorgt: PMD_ABP551_001_000]		
•	A	2
• at 690 V	A	1
[nicht versorgt: PMD_ABP553_001_000]		
• [nicht versorgt: PMD_ABP553_001_000]		
•	A	10
•	A	3
•	A	1
• with 2 current paths in series / at DC-12		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	10
• at 110 V / rated value	A	4
• at 220 V / rated value	A	2
• at 440 V / rated value	A	1.3
• at 600 V / rated value	A	0.65

• with 3 current paths in series / at DC-12 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value	A	10
	A	10
	A	10
	A	3.6
	A	2.5
	A	1.8
Operating current		
• [nicht versorgt: PMD_ABP558_001_000] • • • • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value	A	10
	A	1
	A	0.3
	A	10
	A	3.5
	A	1.3
	A	0.9
	A	0.2
	A	0.1
	A	10
	A	4.7
	A	3
	A	1.2
	A	0.5
	A	0.26
Off-load operating frequency		
• at AC • at DC	1/h	10,000
	1/h	10,000
Frequency of operation		
• at AC-12 / maximum • at AC-14 / maximum • at AC-15 / maximum • at DC-12 / maximum • at DC-13 / maximum	1/h	1,000
	1/h	1,000
	1/h	1,000
	1/h	1,000
	1/h	1,000
	1/h	1,000
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch		
• required		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I _k < 400 A)

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
Width	mm	45
Height	mm	70
Depth	mm	73

Connections:

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

Certificates/approvals:

General Product Approval	Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 UL	 EG-Konf.
 CSA	Type Examination	
 GOST		

Test Certificates

[Special Test Certificate](#)
[Type Test Certificates/Test Report](#)

Shipping Approval

 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS	 PRS
Shipping Approval	other				
 RINA	 RMRS	 VDE			

UL/CSA ratings:

Contact rating designation / for auxiliary contacts / according to UL		A600 / Q600
Sicherheitsrelevante Kenngrößen:		
B10 value / with high demand rate • according to SN 31920 • note		1,000,000 With 0.3 x I _e
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 / positively driven operation to IEC 60947-5-1 • comment		Yes with 3RH29

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:

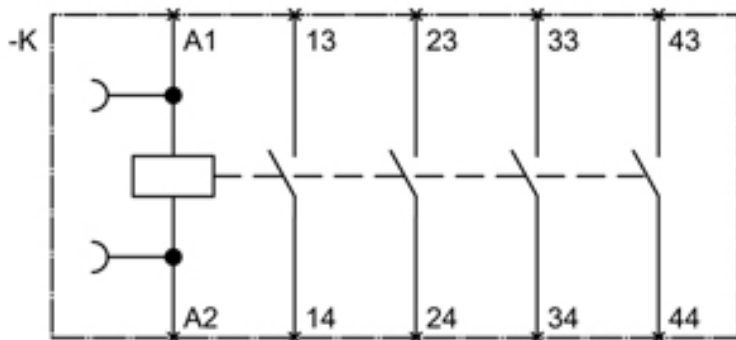
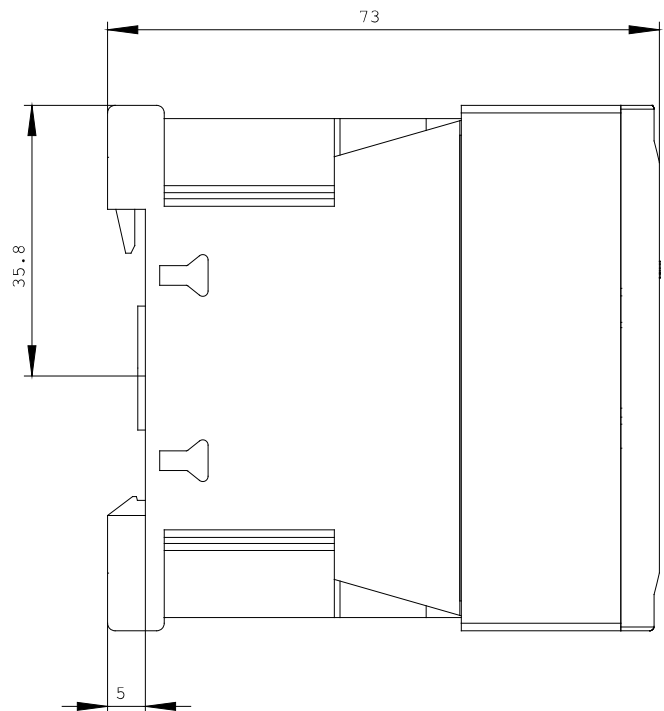
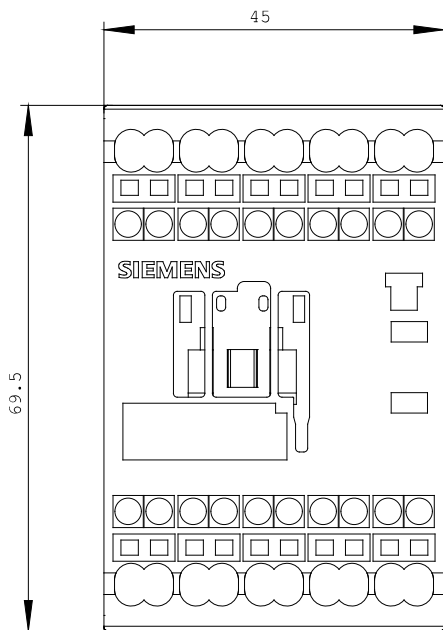
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH2140-2AF00/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2140-2AF00



last change:

Feb 15, 2013