



CONTACTOR RELAY, 4NO+4NC,  
AC110V 50HZ/120V 60HZ, SIZE S00,  
SCREW TERMINAL, PERMANENT AUX. SWITCH,  
FOR SUVA APPLICATIONS

General technical data:

<b>product brand name</b>		SIRIUS
<b>Size of the contactor</b>		S00
<b>Identification number and letter for switching elements</b>		44 E
<b>Product extension / auxiliary switch</b>		No
<b>Protection class IP / on the front</b>		IP20
<b>Protection against electrical shock</b>		finger-safe
<b>Degree of pollution</b>		3
<b>Insulation voltage / with degree of pollution 3 / rated value</b>	V	690
<b>Installation altitude / at a height over sea level / maximum</b>	m	2,000
<b>Ambient temperature / during storage</b>	°C	-55 ... +80
<b>Ambient temperature / during operating</b>	°C	-25 ... +60
<b>Shock resistance</b>		
<ul style="list-style-type: none"> <li>• at rectangular impulse                             <ul style="list-style-type: none"> <li>• at AC</li> </ul> </li> <li>• at sine pulse                             <ul style="list-style-type: none"> <li>• at AC</li> </ul> </li> </ul>		7,3g / 5 ms, 4,7g / 10 ms
		11,4g / 5 ms, 7,3g / 10 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Mechanical operating cycles as operating time</b>		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>		10,000,000

Control circuit:		
<b>Type of voltage / of the controlled supply voltage</b>		AC
<b>Control supply voltage / 1</b>		
• at 50 Hz / for AC / rated value	V	110
• at 60 Hz / for AC / rated value	V	120
<b>Operating range factor control supply voltage rated value / of the magnet coil</b>		
• at 50 Hz / for AC		0.8 ... 1.1
• at 60 Hz / for AC		0.85 ... 1.1
<b>Apparent pull-in power / of the solenoid / for AC</b>	V·A	37
<b>Apparent holding power / of the solenoid / for AC</b>	V·A	5.7
<b>Inductive power factor</b>		
• with the pull-in power of the coil		0.8
• with the pull-in power of the coil		0.25
<b>Closing delay</b>		
• at AC	ms	8 ... 33
<b>Opening delay</b>		
• at AC	ms	6 ... 25
<b>Arcing time</b>	s	10 ... 15

Auxiliary circuit:		
<b>Contact reliability / of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b>		4
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		4
<b>Operating current / of the auxiliary contacts / at AC-12 / maximum</b>	A	10
<b>Operating current / of the auxiliary contacts / at AC-15</b>		
• at 230 V	A	6
• at 400 V	A	3
• at 500 V	A	2
• at 690 V	A	1
<b>Operating current</b>		
• of the auxiliary contacts / with 1 current path / at DC-12		
• at 24 V	A	10
• at 110 V	A	3
• at 220 V	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	A	10
• at 60 V / rated value	A	10
• at 110 V / rated value	A	10
• at 220 V / rated value	A	3.6
• at 440 V / rated value	A	2.5
• at 600 V / rated value	A	1.8
<b>Operating current</b>		
• of the auxiliary contacts / with 1 current path / at DC-13		
• at 24 V	A	6
• at 110 V	A	1
• at 220 V	A	0.3
• with 2 current paths in series / at DC-13		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	3.5
• at 110 V / rated value	A	1.3
• at 220 V / rated value	A	0.9
• at 440 V / rated value	A	0.2
• at 600 V / rated value	A	0.1
• with 3 current paths in series / at DC-13		
• at 24 V / rated value	A	10
• at 60 V / rated value	A	4.7
• at 110 V / rated value	A	3
• at 220 V / rated value	A	1.2
• at 440 V / rated value	A	0.5
• at 600 V / rated value	A	0.26
<b>Off-load operating frequency</b>		
• at AC	1/h	10,000
• at DC	1/h	10,000
<b>Frequency of operation</b>		
• at AC-12 / maximum	1/h	1,000
• at AC-14 / maximum	1/h	1,000
• at AC-15 / maximum	1/h	1,000
• at DC-12 / maximum	1/h	1,000
• at DC-13 / maximum	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 57.5

#### Depth

mm 116

### Connections:

#### Design of the electrical connection

- for auxiliary and control current circuit

screw-type terminals

#### Type of the connectable conductor cross-section

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

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), 2x 4 mm<sup>2</sup>

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)

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

### Certificates/approvals:

#### General Product Approval



CSA



GOST



EG-Konf.

#### Declaration of Conformity

#### Test Certificates

[Special Test  
Certificate](#)

#### Shipping Approval



ABS



DNV



GL



LRS



PRS



RINA

#### Shipping Approval

#### other



RMRS



VDE

### UL/CSA ratings:

#### Contact rating designation / for auxiliary contacts / according to UL

A600 / Q600

### Safety-related Parameter:

<b>B10 value / with high demand rate</b> <ul style="list-style-type: none"><li>• according to SN 31920</li></ul>		1,000,000
<b>T1 value / for proof test interval or service life</b> <ul style="list-style-type: none"><li>• according to IEC 61508</li></ul>	a	20
<b>Proportion of dangerous failures</b> <ul style="list-style-type: none"><li>• with low demand rate / according to SN 31920</li><li>• with high demand rate / according to SN 31920</li></ul>	%	40
	%	73
<b>Failure rate (FIT value) / with low demand rate</b> <ul style="list-style-type: none"><li>• according to SN 31920</li></ul>	FIT	100
<b>Product function / positively driven operation to IEC 60947-5-1</b>		Yes

### 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:

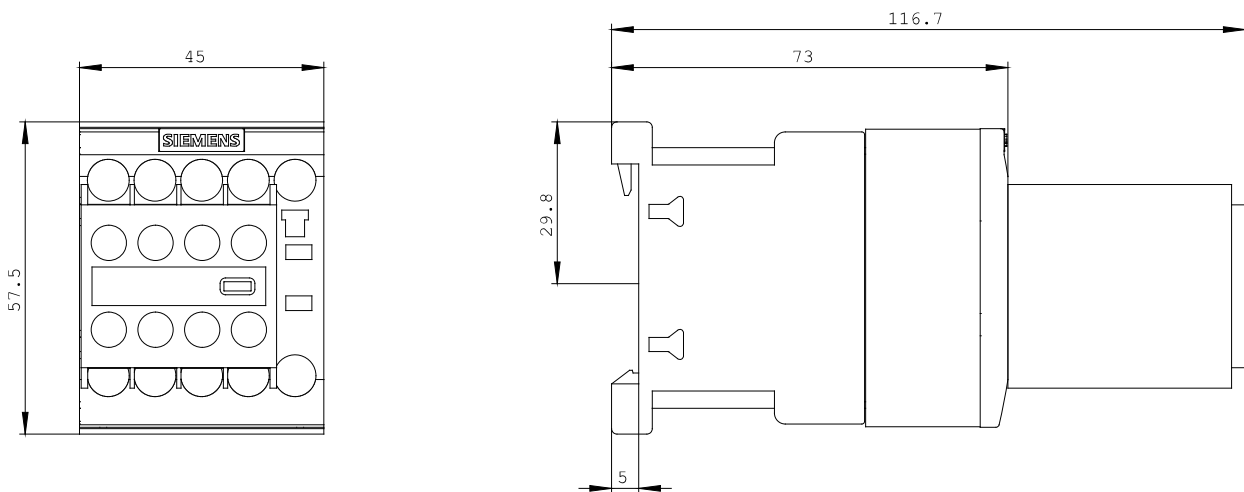
<http://www.siemens.com/cax>

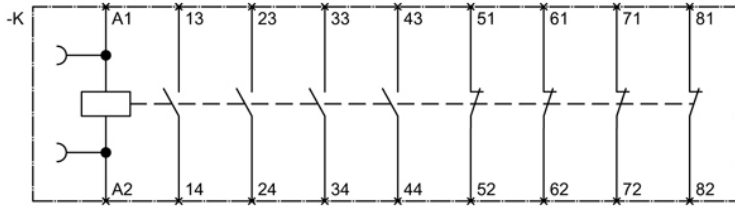
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RH2244-1AK60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH2244-1AK60](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2244-1AK60)





last change:

Jul 17, 2012