

CONTACTOR RELAY, 4NO+4NC, DC 125V,  
SZ S00, RINGCABLE LUG CONNECTION 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</b>		
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
<b>Shock resistance</b>		
• at rectangular impulse		
• at DC		10g / 5 ms, 5g / 10 ms
• at sine pulse		
• at DC		15g / 5 ms, 8g / 10 ms
<b>Impulse voltage resistance / rated value</b>	kV	6
<b>Mechanical operating cycles as operating time</b>		

• of the contactor / typical

10,000,000

#### Control circuit/ Control:

##### Voltage type / of control feed voltage

DC

##### Control supply voltage

• for DC / rated value

V

125

##### Operating range factor control supply voltage rated value / of the magnet coil

• for DC

0.8 ... 1.1

##### Holding power / of the solenoid / for DC

W

4

##### Pull-in power / of the solenoid / for DC

W

4

##### Closing delay

• at DC

ms

30 ... 100

##### Opening delay

• at DC

ms

25 ... 90

##### 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

##### Operating current

• at AC-12 / maximum

A

10

• at AC-15

• at 230 V / rated value

A

6

• at 400 V / rated value

A

3

• at 500 V / rated value

A

2

• at 690 V / rated value

A

1

##### Operating current

• with 1 current path / at DC-12

• at 24 V / rated value

A

10

• at 110 V / rated value

A

3

• at 220 V / rated value

A

1

• at 440 V / rated value

A

0.3

• at 600 V / rated value

A

0.15

• 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

<ul style="list-style-type: none"> <li>• at 600 V / rated value</li> </ul>	A	0.65
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-12</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	3.6
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	2.5
<ul style="list-style-type: none"> <li>• at 600 V / rated value</li> </ul>	A	1.8
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• with 1 current path / at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	6
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	1
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	0.3
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.14
<ul style="list-style-type: none"> <li>• at 600 V / rated value</li> </ul>	A	0.1
<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V / rated value</li> </ul>	A	3.5
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	1.3
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	0.9
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.2
<ul style="list-style-type: none"> <li>• at 600 V / rated value</li> </ul>	A	0.1
<ul style="list-style-type: none"> <li>• with 3 current paths in series / at DC-13</li> </ul>		
<ul style="list-style-type: none"> <li>• at 24 V / rated value</li> </ul>	A	10
<ul style="list-style-type: none"> <li>• at 60 V / rated value</li> </ul>	A	4.7
<ul style="list-style-type: none"> <li>• at 110 V / rated value</li> </ul>	A	3
<ul style="list-style-type: none"> <li>• at 220 V / rated value</li> </ul>	A	1.2
<ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul>	A	0.5
<ul style="list-style-type: none"> <li>• at 600 V / rated value</li> </ul>	A	0.26
<b>Off-load operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	1/h	10,000
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	1/h	10,000
<b>Frequency of operation</b>		
<ul style="list-style-type: none"> <li>• at AC-12 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at AC-14 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at AC-15 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at DC-12 / maximum</li> </ul>	1/h	1,000
<ul style="list-style-type: none"> <li>• at DC-13 / maximum</li> </ul>	1/h	1,000

#### Short-circuit:

<b>Design of the fuse link / for short-circuit protection of the auxiliary switch</b> • required		fuse gL/gG: 10 A
<b>Design of the miniature circuit breaker / for short-circuit protection of the auxiliary circuit / up to 230 V</b>		C characteristic: 6 A; 0.4 kA

### Installation/ mounting/ dimensions:

<b>mounting position</b>		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>Mounting type</b>		screw and snap-on mounting onto 35 mm standard mounting rail
<b>Width</b>	mm	45
<b>Height</b>	mm	57.5
<b>Depth</b>	mm	116

### Connections/ terminals:

<b>Design of the electrical connection</b> • for auxiliary and control current circuit		ring cable connection
---	--	-----------------------

### Certificates/ approvals:

<b>General Product Approval</b>	<b>Functional Safety / Safety of Machinery</b>	<b>Declaration of Conformity</b>
 CCC  CSA  EAC  UL	<a href="#">Type Examination</a>	 CE EG-Konf.

### Test Certificates

<a href="#">Special Test Certificate</a>	<a href="#">Type Test Certificates/Test Report</a>
--	--

### Shipping Approval

 ABS  BUREAU VERITAS  DNV  GL  Lloyds Register  PRS
--

<b>Shipping Approval</b>	<b>other</b>
 RINA  RMRS  VDE	<a href="#">Environmental Confirmations</a>

### UL/CSA ratings:

<b>Contact rating designation / for auxiliary contacts / according to UL</b>		A600 / Q600
--	--	-------------

### Safety related data:

<b>B10 value / with high demand rate</b> <ul style="list-style-type: none"> <li>• according to SN 31920</li> <li>• note</li> </ul>		1,000,000 With 0.3 x le
<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] / 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://mall.industry.siemens.com/>

**Cax online generator**

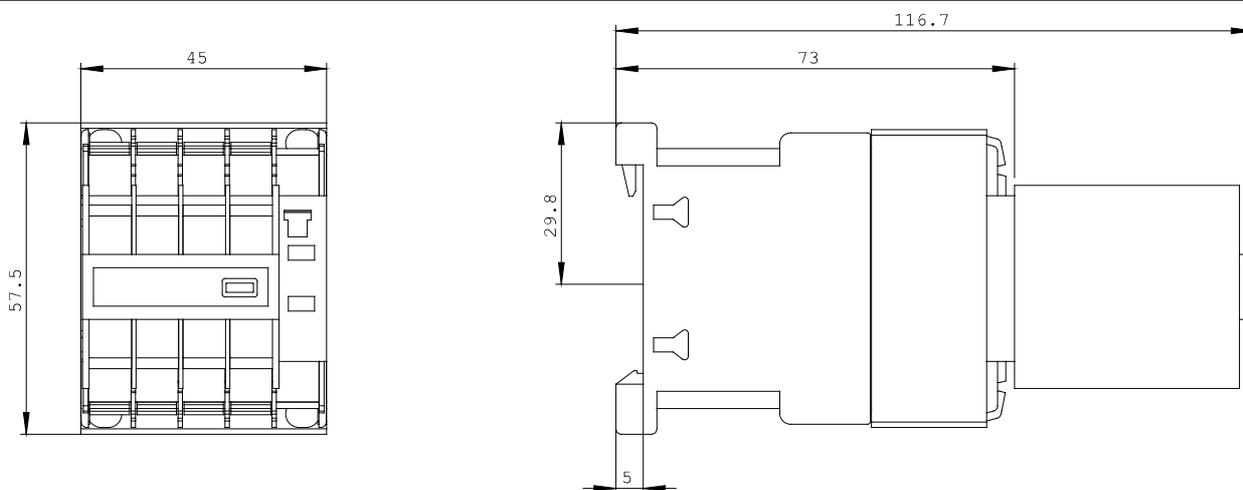
<http://www.siemens.com/cax>

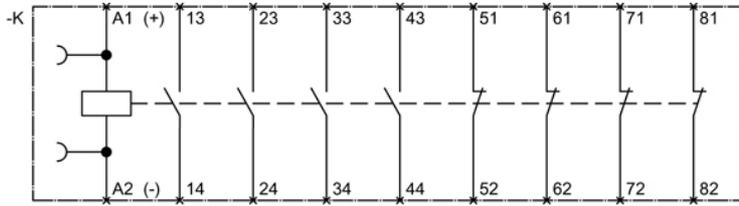
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RH2244-4BG40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH2244-4BG40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2244-4BG40)





last change:

Aug 4, 2014