

CONTACTOR RELAY, 6NO+2NC, DC 24V,  
 SIZE S00, SCREW TERMINAL,  
 PERMANENT AUX. SWITCH,  
 FOR SUVA APPLICATIONS

General technical data:		
product brand name		SIRIUS
Size of the contactor		S00
Identification number and letter for switching elements		62 E
Product extension / auxiliary switch		No
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
Ambient temperature / during operating	°C	-25 ... +60
Shock resistance		
<ul style="list-style-type: none"> <li>• at rectangular impulse               <ul style="list-style-type: none"> <li>• at DC</li> </ul> </li> <li>• at sine pulse               <ul style="list-style-type: none"> <li>• at DC</li> </ul> </li> </ul>		10g / 5 ms, 5g / 10 ms
		15g / 5 ms, 8g / 10 ms
Impulse voltage resistance / rated value	kV	6
Mechanical operating cycles as operating time		
<ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>		10,000,000
Control circuit:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
<ul style="list-style-type: none"> <li>• for DC / rated value</li> </ul>	V	24
Operating range factor control supply voltage rated value / of the solenoid		
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		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		
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	ms	30 ... 100

<b>Opening delay</b>		
• at DC	ms	25 ... 90
<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>		2
<b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b>		6
<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	6
• 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

<ul style="list-style-type: none"> <li>• with 2 current paths in series / at DC-13               <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 60 V / rated value</li> <li>• at 110 V / rated value</li> <li>• at 220 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 600 V / rated value</li> </ul> </li> <li>• with 3 current paths in series / at DC-13               <ul style="list-style-type: none"> <li>• at 24 V / rated value</li> <li>• at 60 V / rated value</li> <li>• at 110 V / rated value</li> <li>• at 220 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 600 V / rated value</li> </ul> </li> </ul>	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
<b>Off-load operating frequency</b>		
<ul style="list-style-type: none"> <li>• at AC</li> <li>• at DC</li> </ul>	1/h	10,000
	1/h	10,000
<b>Frequency of operation</b>		
<ul style="list-style-type: none"> <li>• at AC-12 / maximum</li> <li>• at AC-14 / maximum</li> <li>• at AC-15 / maximum</li> <li>• at DC-12 / maximum</li> <li>• at DC-13 / maximum</li> </ul>	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:

<b>Built in orientation</b>		vertical
<b>Type of mounting</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
<b>Distance, to be maintained, to the ranks assembly / sideways</b>	mm	0

#### 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



CQC



CSA

[ROSTEST](#)



UL

#### Test Certificates

[Manufacturer](#)

#### 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:

**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 / positively driven operation to IEC 60947-5-1**

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/3RH2262-1BB40/all>

---

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH2262-1BB40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2262-1BB40)

---

**last change:**

Jan 30, 2012