

CONTACTOR RELAY, 2NO+2NC, AC 110 V, 50 HZ, CAGE CLAMP CONNECTION, SIZE S00



Figure similar

product brandname	SIRIUS
Product designation	contactor relay
General technical data	
Size of contactor	S00
Product extension	
• Auxiliary switch	Yes
Insulation voltage	
• with degree of pollution 3 rated value	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Mechanical service life (switching cycles)	
• of contactor typical	30 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical	5 000 000

<ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
<b>Equipment marking</b>	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	K
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	K

#### Ambient conditions

<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +60 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-55 ... +80 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-55 ... +80 °C

#### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	AC
<b>Control supply voltage at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>	110 V
<ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>	110 V
<b>Operating range factor control supply voltage rated value of magnet coil at AC</b>	
<ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>	0.8 ... 1.1
<ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>	0.85 ... 1.1
<b>Apparent pick-up power of magnet coil at AC</b>	27 V·A
<b>Inductive power factor with closing power of the coil</b>	0.8
<b>Apparent holding power of magnet coil at AC</b>	4.6 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.27

#### Auxiliary circuit

<b>Number of NC contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	2
<ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>	2
<ul style="list-style-type: none"> <li>— delayed switching</li> </ul>	0
<ul style="list-style-type: none"> <li>— lagging switching</li> </ul>	0
<ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul>	0
<b>Number of NO contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	2
<ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>	2
<ul style="list-style-type: none"> <li>— delayed switching</li> </ul>	0
<ul style="list-style-type: none"> <li>— leading contact</li> </ul>	0
<ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul>	0
<b>Number of CO contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	0
<ul style="list-style-type: none"> <li>• of auxiliary contacts instantaneous contact</li> </ul>	0

<b>Identification number and letter for switching elements</b>	22 E
<b>Operating current at AC-12 maximum</b>	10 A
<b>Operating current at AC-15</b>	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
<b>Operating current at 1 current path at DC-12</b>	
• at 24 V rated value	10 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
<b>Operating current at 1 current path at DC-13</b>	
• at 24 V rated value	10 A
• at 110 V rated value	1 A
• at 220 V rated value	0.27 A
<b>Contact reliability of auxiliary contacts</b>	1 faulty switching per 100 million (17 V, 1 mA)

#### Short-circuit protection

<b>Design of the fuse link</b>	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A

#### 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
<b>Height</b>	60 mm
<b>Width</b>	45 mm
<b>Depth</b>	73 mm
<b>Required spacing</b>	
• with side-by-side mounting — at the side	0 mm

#### Connections/Terminals







<b>Type of electrical connection</b>	
• for auxiliary and control current circuit	Cage Clamp terminals
<b>Type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.25 ... 2.5 mm²)
— finely stranded with core end processing	2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing	2x (0.25 ... 2.5 mm²)
• at AWG conductors for auxiliary contacts	2x (24 ... 14)



## Safety related data

<b>B10 value</b>	
• with high demand rate acc. to SN 31920	1 000 000; With 0.3 x I <sub>e</sub>
<b>Proportion of dangerous failures</b>	
• with low demand rate acc. to SN 31920	40 %
• with high demand rate acc. to SN 31920	75 %
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	20 y

## Certificates/approvals

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

Test Certificates	Shipping Approval
<a href="#">Typprüfbescheinigung/Werkszeugnis</a>	 ABS
<a href="#">spezielle Prüfbescheinigung</a>	 BUREAU VERITAS
 RINA	 LRS
 RMRS	 PRS

Shipping Approval	other
 RINA	<a href="#">Umweltbestätigung</a>
 RMRS	<a href="#">sonstig</a>
	<a href="#">Bestätigungen</a>

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH1122-2AF00>

### Cax online generator

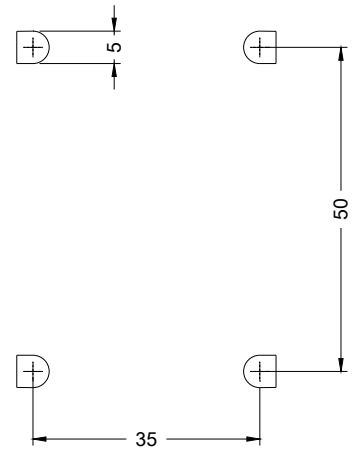
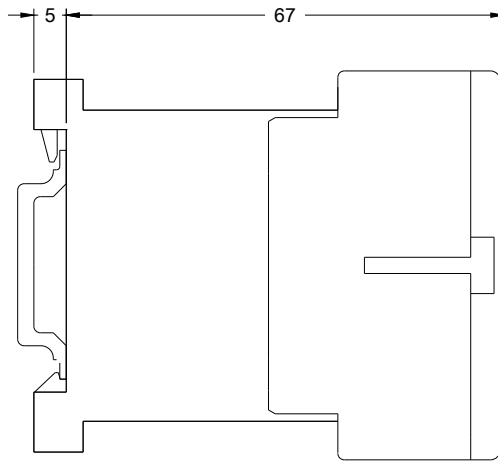
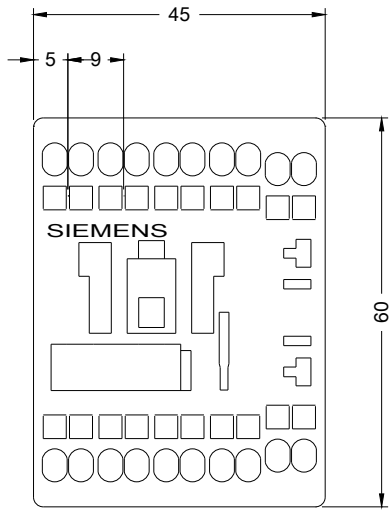
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1122-2AF00>

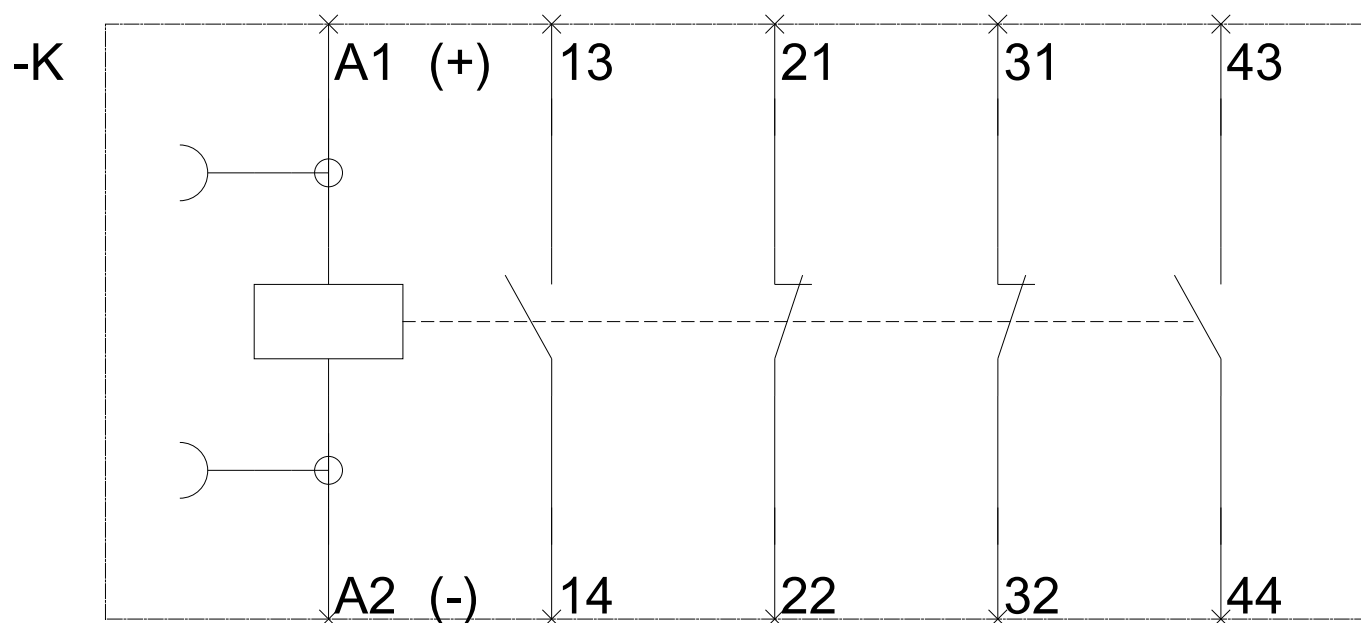
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1122-2AF00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1122-2AF00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1122-2AF00&lang=en)





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