

Figure similar

CONTACTOR RELAY, 4NO+4NC, AC 110 V 50 HZ /  
120 V 60 HZ, SZ S00,RINGCABLE LUG CONNECTION  
PERMANENT AUX. SWITCH, FOR SUVA  
APPLICATIONS

product brand name	SIRIUS
Product designation	contactor relay

### General technical data:

<b>Insulation voltage</b>		
<ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>	V	690
<b>Degree of pollution</b>		3
<b>Surge voltage resistance Rated value</b>	kV	6
<b>Mechanical service life (switching cycles)</b>		
<ul style="list-style-type: none"> <li>of the contactor typical</li> </ul>		10 000 000
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>on the front</li> </ul>		IP20
<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

### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>		AC
<b>Control supply voltage with AC</b>		
<ul style="list-style-type: none"> <li>at 50 Hz Rated value</li> </ul>	V	110
<ul style="list-style-type: none"> <li>at 60 Hz Rated value</li> </ul>	V	120
<ul style="list-style-type: none"> <li>Rated value</li> </ul>	Hz	50
<b>Control supply voltage frequency 2 Rated value</b>	Hz	60
<b>Operating range factor control supply voltage rated value of the magnet coil with 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

Apparent pick-up power of the magnet coil with AC	V·A	37
Apparent holding power of the magnet coil with AC	V·A	5.7
<b>Inductive power factor</b>		
• with closing power of the coil		0.8
• with the holding power of the coil		0.25

#### Auxiliary circuit:

<b>Number of NC contacts</b>		
• for auxiliary contacts		4
— instantaneous contact		4
<b>Number of NO contacts</b>		
• for auxiliary contacts		4
— instantaneous contact		4
<b>Product expansion Auxiliary switch</b>		No
<b>Identification number and letter for switching elements</b>		44 E
<b>Operating current at AC-15</b>		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
<b>Design of the miniature circuit breaker</b>		
• for short-circuit protection of the auxiliary circuit up to 230 V		C characteristic: 6 A; 0.4 kA
<b>Contact reliability of the auxiliary contacts</b>		1 faulty switching per 100 million (17 V, 1 mA)

#### UL/CSA ratings:

<b>Contact rating of the auxiliary contacts acc. to UL</b>		A600 / Q600
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#### Short-circuit:

<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 onto 35 mm standard mounting rail
<b>Height</b>	mm	57.5
<b>Width</b>	mm	45
<b>Depth</b>	mm	116
<b>Required spacing</b>		
• for grounded parts		
— at the side	mm	6
• for live parts		

— at the side

mm 6

#### Connections/ Terminals:

##### Type of electrical connection

- for auxiliary and control current circuit

ring cable connection

#### Safety related data:

##### B10 value with high demand rate acc. to SN 31920

- Note

1 000 000

With  $0.3 \times I_e$

##### Proportion of dangerous failures

- with low demand rate acc. to SN 31920
- with high demand rate acc. to SN 31920

%

40

%

73

##### Failure rate [FIT] with low demand rate acc. to SN 31920

FIT

100

##### T1 value for proof test interval or service life acc. to IEC 61508

y

20

##### Protection against electrical shock

finger-safe

#### Mechanical data:

##### Size of contactor

S00

#### Ambient conditions:

##### Installation altitude at height above sea level maximum

m

2 000

##### Ambient temperature

- during operation
- during storage

°C

-25 ... +60

°C

-55 ... +80

#### Certificates/ approvals:

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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[Type Examination](#)



[Type Test Certificates/Test Report](#)

Test Certificates	Shipping Approval
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[Special Test Certificate](#)



Shipping Approval	other
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[Environmental Confirmations](#)



#### Further information

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator**

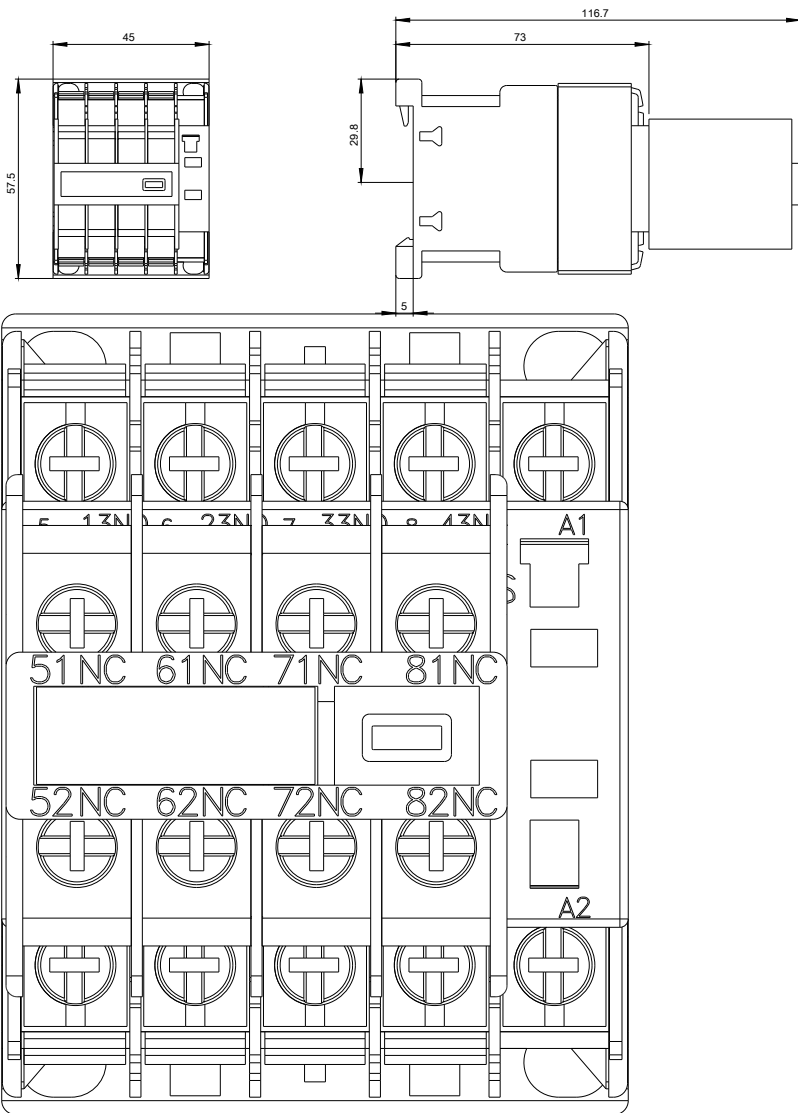
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH22444AK60>

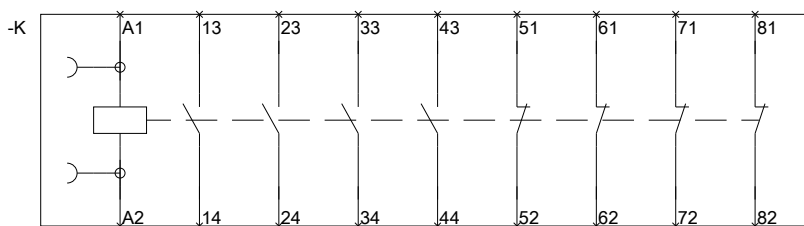
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RH22444AK60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH22444AK60&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH22444AK60&lang=en)





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