



Figure similar

Contactor relay, 4 NO, 125 V AC 50/60 Hz Screw terminal size S00 !!!  
 Phased-out product !!! Successor is SIRIUS 3RH2 Preferred successor  
 type is >>3RH2140-1AL00<<

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Auxiliary contactor
<b>General technical data</b>	
<b>size of contactor</b>	S00
product extension auxiliary switch	Yes
insulation voltage with degree of pollution 3 at AC rated value	690 V
<b>degree of pollution</b>	3
<b>surge voltage resistance rated value</b>	6 kV
protection class IP on the front	IP20
<b>shock resistance</b>	10g / 5 ms and 5g / 10 ms
<b>mechanical service life (switching cycles)</b>	
• of contactor typical	30 000 000
• of the contactor with added electronically optimized auxiliary switch block typical	5 000 000
• of the contactor with added auxiliary switch block typical	10 000 000
<b>reference code according to IEC 81346-2</b>	K
<b>Substance Prohibitance (Date)</b>	07/01/2006
<b>Ambient conditions</b>	
installation altitude at height above sea level maximum	2 000 m
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
• during transport	-55 ... +80 °C
<b>Control circuit/ Control</b>	
<b>type of voltage of the control supply voltage</b>	AC
<b>control supply voltage at AC</b>	
• at 50 Hz rated value	125 V
• at 60 Hz rated value	125 V
<b>control supply voltage frequency</b>	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
<b>operating range factor control supply voltage rated value of magnet coil at AC</b>	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1
<b>apparent pick-up power of magnet coil at AC</b>	27 VA
<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 VA
<b>inductive power factor with the holding power of the coil</b>	0.27
<b>Auxiliary circuit</b>	
<b>number of NC contacts for auxiliary contacts</b>	0
• instantaneous contact	0
• delayed switching	0
• lagging switching	0
• make-before-break switching	0
<b>number of NO contacts for auxiliary contacts</b>	4
• instantaneous contact	4
• delayed switching	0
• leading contact	0
• make-before-break switching	0
<b>number of CO contacts</b>	
• for auxiliary contacts	0
• of auxiliary contacts instantaneous contact	0
<b>identification number and letter for switching elements</b>	40 E
operational current at AC-12 maximum	10 A
<b>operational 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>operational 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>operational 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)
<b>Short-circuit protection</b>	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
<b>Installation/ mounting/ dimensions</b>	
<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>fastening method</b>	screw and snap-on mounting
<b>height</b>	57.5 mm
<b>width</b>	45 mm
<b>depth</b>	72 mm
required spacing with side-by-side mounting at the side	0 mm
<b>Connections/ Terminals</b>	
type of electrical connection for auxiliary and control circuit	screw-type terminals
<b>type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
— finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• at AWG cables for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 1x 12
<b>Safety related data</b>	
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x I <sub>e</sub>
<b>proportion of dangerous failures</b>	
• with low demand rate according to SN 31920	40 %
• with high demand rate according to SN 31920	75 %
T1 value for proof test interval or service life according to IEC 61508	20 y
<b>touch protection against electrical shock</b>	finger-safe
<b>contact reliability</b>	one incorrect switching operation of 100 million switching operations (17

## Certificates/ approvals

General Product Approval

Functional Safety/Safety of Machinery


[Confirmation](#)

[Type Examination Certificate](#)

Declaration of Conformity

Test Certificates

Marine / Shipping



EG-Konf.

[Type Test Certificates/Test Report](#)
[Special Test Certificate](#)


ABS



BUREAU VERITAS

Marine / Shipping

other

Railway



RINA



RMRS



DNV-GL

[Confirmation](#)
[Special Test Certificate](#)

## Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH1140-1AL00>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1140-1AL00>

Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-1AL00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1140-1AL00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1140-1AL00&lang=en)
Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current
<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-1AL00/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH1140-1AL00&objecttype=14&gridview=view1>



