

Contactor relay, 2 NO + 2 NC 24 V DC Screw terminal size S00 !!!
Phased-out product !!! Successor is SIRIUS 3RH2 Preferred
successor type is >>3RH2122-1BB40<<



Figure similar

Product brand name	SIRIUS
Product designation	Auxiliary contactor
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
Shock resistance	10g / 5 ms and 5g / 10 ms
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

• of the contactor with added auxiliary switch block typical	10 000 000
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

Ambient conditions

Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C
• during transport	-55 ... +80 °C

Control circuit/ Control

Type of voltage of the control supply voltage	DC
Control supply voltage at DC	
• rated value	24 V
Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Closing power of magnet coil at DC	3.2 W
Holding power of magnet coil at DC	3.2 W

Auxiliary circuit

Number of NC contacts for auxiliary contacts	2
• instantaneous contact	2
• delayed switching	0
• lagging switching	0
• make-before-break switching	0
Number of NO contacts for auxiliary contacts	2
• instantaneous contact	2
• delayed switching	0
• leading contact	0
• make-before-break switching	0
Number of CO contacts	
• for auxiliary contacts	0
• of auxiliary contacts instantaneous contact	0
Identification number and letter for switching elements	22 E
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A

<ul style="list-style-type: none"> • at 500 V rated value • at 690 V rated value 	2 A 1 A
Operating current at 1 current path at DC-12	
<ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	10 A 3 A 1 A
Operating current at 1 current path at DC-13	
<ul style="list-style-type: none"> • at 24 V rated value • at 110 V rated value • at 220 V rated value 	10 A 1 A 0.27 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

Short-circuit protection

Design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A

Installation/ mounting/ dimensions

Mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting
Height	57.5 mm
Width	45 mm
Depth	72 mm
Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting — at the side 	0 mm

Connections/Terminals

Type of electrical connection	
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts — solid — finely stranded with core end processing • at AWG conductors for auxiliary contacts 	2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 1x 12

Safety related data




B10 value	
<ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 	1 000 000; With 0.3 x I _e
Proportion of dangerous failures	
<ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 • with high demand rate acc. to SN 31920 	40 % 75 %

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

20 y

Certificates/approvals

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
				Type Examination Certificate	
CCC	CSA	UL			EG-Konf.

Declaration of Conformity	Test Certificates	Marine / Shipping
Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate
		 ABS
		 BUREAU VERITAS
		 LRS

Marine / Shipping	other
 PRS	Miscellaneous
 RINA	Confirmation
 RMRS	
 DNV-GL	

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=3RH1122-1BB40>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1122-1BB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1122-1BB40>

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

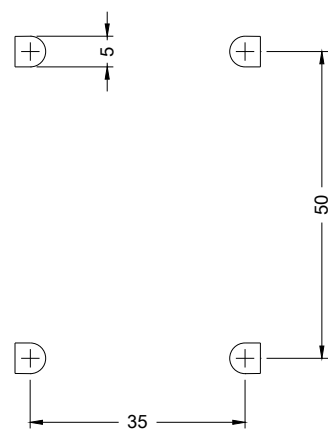
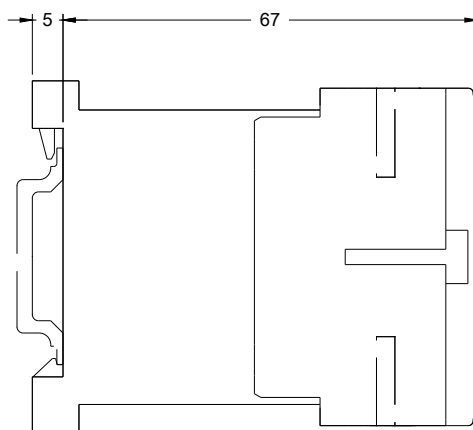
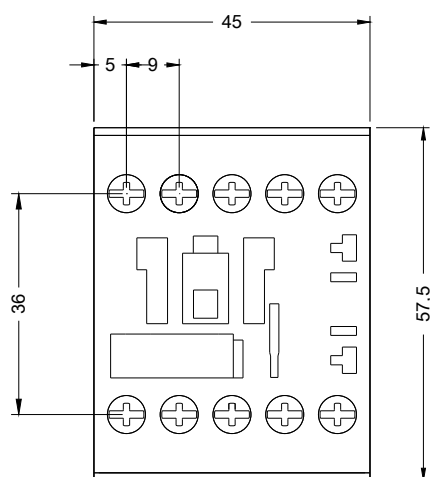
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1122-1BB40&lang=en

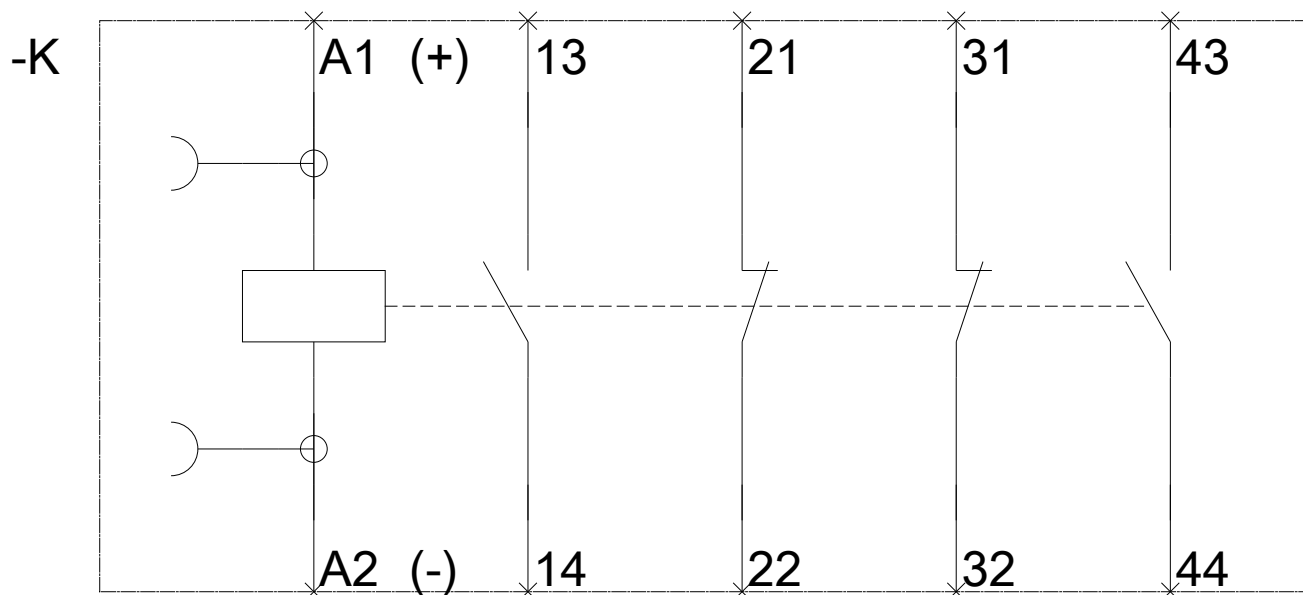
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1122-1BB40/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH1122-1BB40&objecttype=14&gridview=view1>





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