Control Parts

SIEMENS

Call to Order: 717-209-72100 http://controlparts.com/siemens.siriusp/3rh1140-1ab00.htm

Data sheet 3RH1140-1AB00

CONTACTOR RELAY, 4NO, AC 24 V, 50 HZ, SCREW CONNECTION, SIZE 800



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		

 of the contactor with added auxiliary switch block typical 	10 000 000
Equipment marking	
• acc. to DIN EN 61346-2	К
• acc. to DIN EN 81346-2	κ
Ambient conditions	
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	AC
Control supply voltage at AC	
● at 50 Hz rated value	24 V
● at 60 Hz rated value	24 V
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	27 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	4.6 V·A
Inductive power factor with the holding power of the coil	0.27
Auxiliary circuit	
Number of NC contacts	
 for auxiliary contacts 	0
instantaneous contact	0
delayed switching	0
— lagging switching	0
 make-before-break switching 	0
Number of NO contacts	
 for auxiliary contacts 	4
— instantaneous contact	4
— 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	40 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
● at 500 V rated value	2 A
• at 690 V rated value	1 A
Operating current at 1 current path at DC-12	
• at 24 V rated value	10 A
● at 110 V rated value	3 A
● at 220 V rated value	1 A
Operating current at 1 current path at DC-13	
• at 24 V rated value	10 A
• at 110 V rated value	1 A
• at 220 V rated value	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

• 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	
with side-by-side mounting	
— at the side	0 mm

Connections/Terminals	
Type of electrical connection	
 for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12

Safety related data

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

Certificates/approvals

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General Product Approval		Functional Safety/Safety	Declaration of Conformity		
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Test Certificates

CCC

Shipping Approval

UL

Typprüfbescheinigu ng/Werkszeugnis

<u>spezielle</u> Prüfbescheinigunge n

OFS







EG-Konf.

Shipping Approval

other





Umweltbestätigung

Sonstige

Bestätigungen

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=3RH1140-1AB00

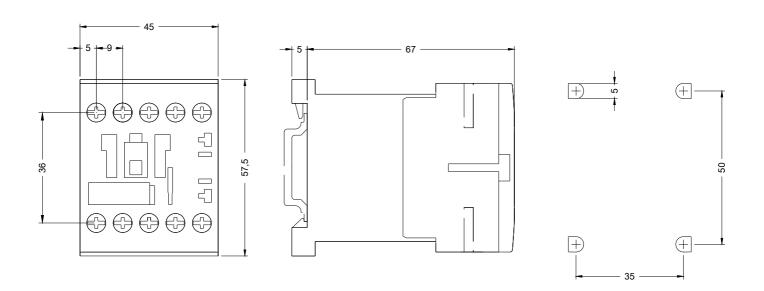
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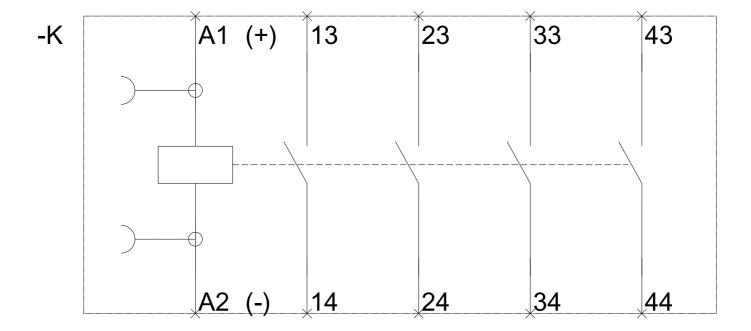
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1140-1AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-1AB00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1140-1AB00&lang=en





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