

Automation Technology > Industrial Controls > Switching Devices > Contactors and Contactor Assemblies > Contactor Relays > Contactor Relays SIRIUS 3RH1, 4- and 8-pole

3RH1140-1BB40 CONTACTOR RELAY, 4NO, DC 24 V,

Technical / CAx data

Technical Data CAx data



General details:

product brand name	SIRIUS
product designation	contactor relay
Size of the contactor	S00
Protection class IP / on the front	IP20
Degree of pollution	3
Insulation voltage / with degree of pollution 3 / rated value	V 690
Installation altitude / at a height over sea level / maximum	m 2,000
Ambient temperature	
<ul style="list-style-type: none"> during transport 	°C -55...80
<ul style="list-style-type: none"> during storage 	°C -55...80
<ul style="list-style-type: none"> during the operating phase 	°C -25...60
Resistance against shock	10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV 6
Item designation	
<ul style="list-style-type: none"> according to DIN EN 61346-2 	K
<ul style="list-style-type: none"> according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 	K
Mechanical operating cycles as operating time	
<ul style="list-style-type: none"> of the contactor / typical 	30,000,000
<ul style="list-style-type: none"> of the contactor with added auxiliary switch block / typical 	10,000,000
<ul style="list-style-type: none"> of the contactor with added electronics-compatible auxiliary switch block / typical 	5,000,000
Control circuit:	









Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1		
• for DC / rated value	V	24
Working range factor supply voltage rated value / of the magnet coil		
• for DC		0.8...1.1
Pull-in power / of the solenoid / for DC	W	3.2
Holding power / of the solenoid / for DC	W	3.2
Auxiliary circuit:		
Product extension / auxiliary switch		Yes
Identification number and letter for switching elements		40 E
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contacts		0
• delayed switching		0
• instantaneous switching		0
• asynchronous switching		0
• lagging switching		0
Number of NO contacts / for auxiliary contacts		4
• instantaneous switching		4
• delayed switching		0
• asynchronous switching		0
• leading switching		0
Number of changeover contacts		
• for auxiliary contacts		0
• of the auxiliary contacts / instantaneous switching		0
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• at 400 V	A	3
• at 500 V	A	2
• at 690 V	A	1
• with 1 current path		
• at DC-12		
• at 24 V	A	10
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 110 V	A	1
• at 220 V	A	0.22
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 10 A
Installation/mounting/dimensions:		
Built in orientation		with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back

Type of mounting		screw and snap-on mounting
Width	mm	45
Height	mm	57.5
Depth	mm	72
Distance, to be maintained, to the ranks assembly / sidewards	mm	0

Connections:

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

Certificates/approvals:

Verification of suitability		CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA
General Product Approval		Test Certificates
CQC	 	Manufacturer
Shipping Approval		
ABS	 	  PRS
Shipping Approval		
 	other Manufacturer	

Safety:

Proportion of dangerous failures		
<ul style="list-style-type: none"> • with high demand rate / according to SN 31920 • with low demand rate / according to SN 31920 	%	75 40
T1 value / for proof test interval or service life / according to IEC 61508	a	20
Protection against electrical shock		finger-safe
B10 value / with high demand rate / according to SN 31920		1,000,000

Further information:**Information- and Downloadcenter (Catalogs, Brochures,...)**

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

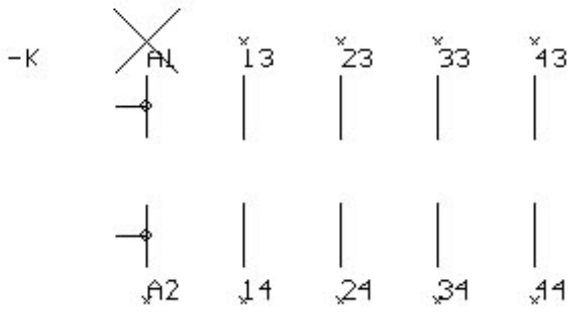
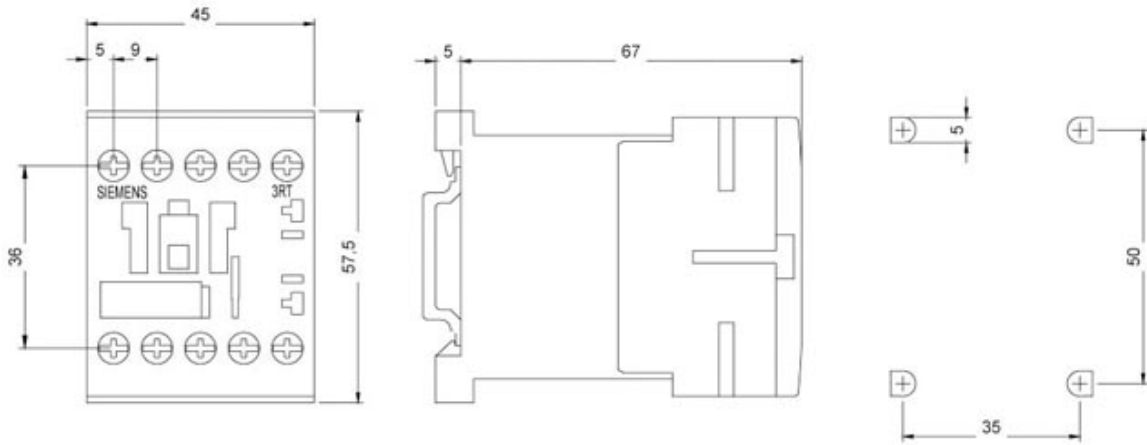
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1140-1BB40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1140-1BB40



last change:

Jan 17, 2011