

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

3RH1140-1AK60 CONTACTOR RELAY, 4 NO,

Technical / CAx data

Technical Data CAx data



CONTACTOR RELAY, 4 NO, AC 110 V 50 HZ / 120 V 60 HZ
SCREW CONNECTION, SIZE S00

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		AC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage / 1		
• at 50 Hz		
• for AC / rated value	V	110
• at 60 Hz		
• for AC / rated value	V	120
Working range factor supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8...1.1
• at 60 Hz		
• for AC		0.85...1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.6
Inductive power factor		
• with the pull-in power of the coil		0.8
• with the pull-in power of the coil		0.27
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
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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 / sideways	mm	0

Connections:

Design of the electrical connection / for auxiliary and control current circuit	screw-type terminals
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Type of the connectable conductor cross-section	
<ul style="list-style-type: none"> • for auxiliary contacts • solid • finely stranded • 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	Functional Safety / Safety of Machinery	Test Certificates	
CQC  	SUVA	Manufacturer	
Shipping Approval			PRS
ABS  	other		
Shipping Approval	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

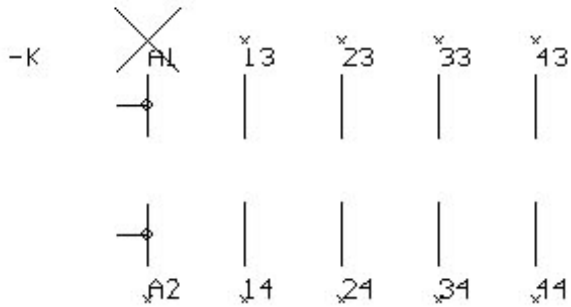
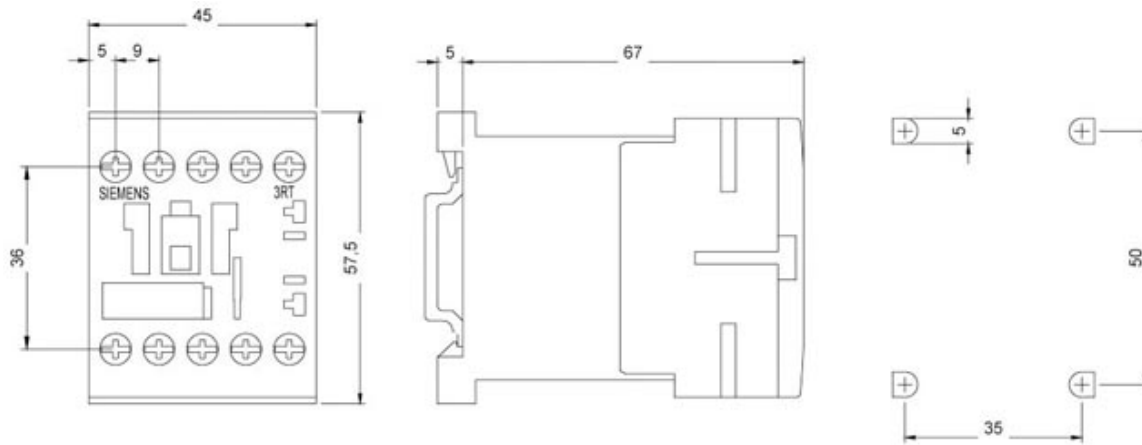
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1140-1AK60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1140-1AK60



last change:

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