SIEMENS

Product data sheet 3RH1140-1AP00



CONTACTOR RELAY, 4NO, AC 230 V, 50 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		
during transport	°C	-55 + 80
during storage	°C	-55 + 80
during operating	°C	-25 +60
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)
Resistance against shock		10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV	6
Reference code		
• according to DIN EN 61346-2		К
 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		К
according to DIN EN 81346-2		К

Mechanical operating cycles as operating time	
of the contactor / typical	30,000,000
• of the contactor with added auxiliary switch block / typical	10,000,000
 of the contactor with added electronics-compatible auxiliary switch block / typical 	5,000,000

Control circuit:		
Voltage type / of control feed voltage		AC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage		
• at 50 Hz / at AC / rated value	V	230
• at 60 Hz / at AC / rated value	V	230
operating range factor control 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		
• at AC-12 / maximum	Α	10
• at AC-15		
• at 230 V / rated value	Α	6
• at 400 V / rated value	Α	3
• at 500 V / rated value	Α	2
• at 690 V / rated value	Α	1
Operating current / with 1 current path		
• at DC-12		
• at 24 V / rated value	Α	10
• at 110 V / rated value	Α	3
• at 220 V / rated value	Α	1
• at DC-13		
• at 24 V / rated value	Α	10
at 110 V / rated value	Α	1
at 110 v / lated value		
• at 220 V / rated value	A	0.27
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the	A	0.27 fuse gL/gG: 10 A
• at 220 V / rated value Short-circuit:	A	
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the	A	
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required	A	
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions:	A	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position	Mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type		fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width	mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height	mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards Connections: Design of the electrical connection / for auxiliary and control	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5 72 0
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards Connections: Design of the electrical connection / for auxiliary and control current circuit	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5 72 0
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards Connections: Design of the electrical connection / for auxiliary and control current circuit Type of the connectable conductor cross-section	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5 72 0
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards Connections: Design of the electrical connection / for auxiliary and control current circuit Type of the connectable conductor cross-section • for auxiliary contacts	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5 72 0 screw-type terminals
• at 220 V / rated value Short-circuit: Design of the fuse link / for short-circuit protection of the auxiliary switch / required Installation/mounting/dimensions: mounting position Mounting type Width Height Depth Distance, to be maintained, to the ranks assembly / sidewards Connections: Design of the electrical connection / for auxiliary and control current circuit Type of the connectable conductor cross-section • for auxiliary contacts • solid	mm mm mm	fuse gL/gG: 10 A +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting 45 57.5 72 0 screw-type terminals

Certificates/approvals:

Verification of suitability

CSA/UL/CCC/GL/LRS/BV/DNV/RMRS/

RINA

General Product Approval

Functional Safety / Safety of Machinery Declaration of Conformity









Type Examination



Test Certificates

Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













Shipping Approval







<u>other</u> <u>Environmental</u> <u>Confirmations</u>

Safety:		
Proportion of dangerous failures		
 with high demand rate / according to SN 31920 	%	75
• with low demand rate / according to SN 31920	%	40
Protection against electrical shock		finger-safe
T1 value / for proof test interval or service life / according to IEC 61508	а	20
B10 value / with high demand rate		
according to SN 31920		1,000,000
• note		With 0.3 x le

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

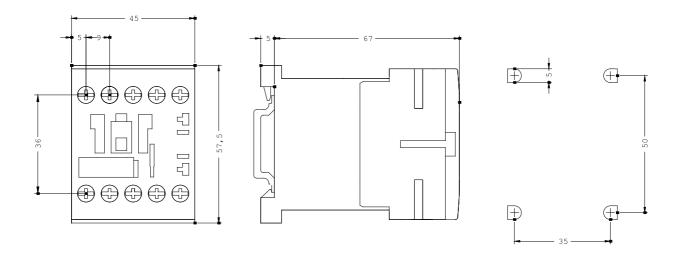
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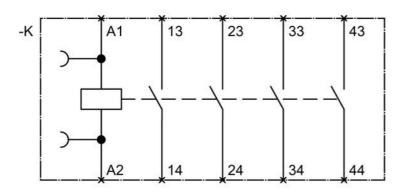
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RH1140-1AP00/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1140-1AP00}$





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