SIEMENS

Data sheet 3RH2122-2KJ80-0LA0

CONTACT.RELAY F. RAILW.,2NO+2NC DC 72V, 0.7...1.25*US, W.SUPPRESSORDIODE INTEGRATED, SIZE S00, SPRING-TYPE TERM.

product brand name		SIRIUS
Product designation		contactor relay

General technical data:		
Insulation voltage		
• with degree of pollution 3 Rated value	V	690
Degree of pollution		3
Surge voltage resistance Rated value	kV	6
Mechanical service life (switching cycles)		
• of the 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
Protection class IP		
• on the front		IP20
Equipment marking		
• acc. to DIN EN 61346-2		K
• acc. to DIN EN 81346-2		K

Control circuit/ Control:		
Type of voltage of the control supply voltage		DC
Control supply voltage for DC		
• Rated value	V	72
Operating range factor control supply voltage rated value of the magnet coil for DC		0.7 ... 1.25
Design of the surge suppressor		with suppressor diode

Closing power of the magnet coil for DC	W	13
Holding power of the magnet coil for DC	W	4
Auxiliary circuit:		
Number of NC contacts		
• for auxiliary contacts		1
— instantaneous contact		1
Number of NO contacts		
• for auxiliary contacts		2
— instantaneous contact		2
Product expansion Auxiliary switch		Yes
Identification number and letter for switching elements		21
Operating current at AC-15		
• at 230 V Rated value	A	10
• at 400 V Rated value	A	3
• at 690 V Rated value	A	1
Design of the miniature circuit breaker		
• for short-circuit protection of the auxiliary circuit up to 230 V		C characteristic: 6 A; 0.4 kA
Contact reliability of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		A600 / Q600
Short-circuit:		
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 onto 35 mm standard mounting rail
Height	mm	70
Width	mm	45
Depth	mm	123
Required spacing		
• for grounded parts		
— at the side	mm	6
• for live parts		
— at the side	mm	6
Connections/ Terminals:		

Type of electrical connection		
• for auxiliary and control current circuit		spring-loaded terminals
Type of connectable conductor cross-section		
• for auxiliary contacts		
— single or multi-stranded		2x (0,5 ... 4 mm²)
— finely stranded with core end processing		2x (0.5 ... 2.5 mm²)
— finely stranded without core end processing		2x (0.5 ... 2.5 mm²)
• for AWG conductors for auxiliary contacts		2x (20 ... 12)
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
• Note		With 0.3 x Ie
Proportion of dangerous failures		
• with low demand rate acc. to SN 31920	%	40
• with high demand rate acc. to SN 31920	%	73
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	100
T1 value for proof test interval or service life acc. to IEC 61508	y	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-40 ... +70
• during operation Note		Railway application: See catalog for rated conditions
• during storage	°C	-55 ... +80
Certificates/ approvals:		

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

Test Certificates	Shipping Approval				
Special Test Certificate	ABS	BUREAU VERITAS	DNV	GL	LRS

Shipping Approval			other	
PRS	RINA	RMRS	Environmental Confirmations	VDE

Further information

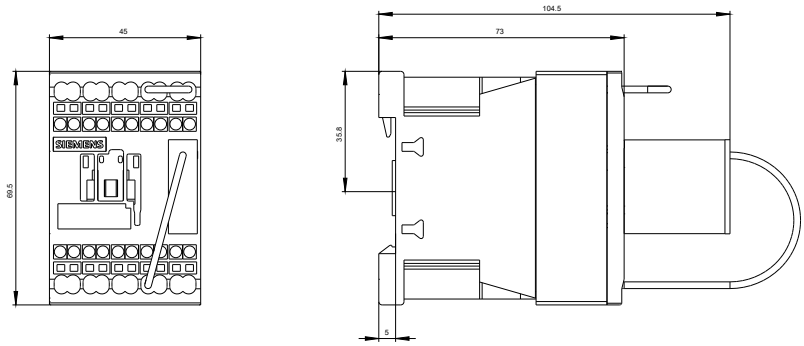
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH21222KJ800LA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RH21222KJ800LA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH21222KJ800LA0&lang=en



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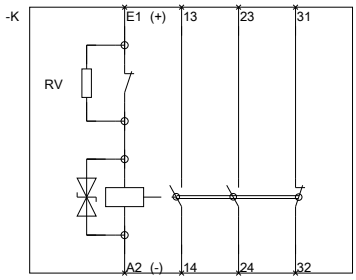

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