SIEMENS

Data sheet 3RH2122-2QB40



COUPLING CONTACTOR RELAY, 2NO+2NC, DC 24V, 0.7...1.25*US, W/ PLUGGED-ON VARISTOR, SZ S00, SPRING-LOADED TERMINAL

product brand name	SIRIUS
Product designation	Coupling relay for switching auxiliary circuits

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	
Protection class IP			
• on the front		IP20	
Equipment marking			
• acc. to DIN EN 61346-2		К	
• acc. to DIN EN 81346-2		К	

Control circuit/ Control:			
Type of voltage of the control supply voltage		DC	
Control supply voltage for DC			
Rated value	V	24	
Operating range factor control supply voltage rated		0.7 1.25	
value of the magnet coil for DC			
Design of the surge suppressor		with varistor	
Closing power of the magnet coil for DC	W	2.8	
Holding power of the magnet coil for DC	W	2.8	

Auxiliary circuit

Number of NC contacts		
for auxiliary contacts		2
instantaneous contact		2
Number of NO contacts		
for auxiliary contacts		2
— instantaneous contact		2
Product expansion Auxiliary switch		No
Identification number and letter for switching elements		22 E
Operating current at AC-15		
● at 230 V Rated value	Α	10
● at 400 V Rated value	Α	3
● at 690 V Rated value	Α	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	73
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	2x (0.5 2.5 mm²)
processing	
 for AWG conductors for auxiliary contacts 	2x (20 12)

To rive conductors for duxinary contacts		()
Safety related data:		
B10 value with high demand rate acc. to SN 31920		1 000 000
• Note		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	%	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	У	20
Protection against electrical shock		finger-safe
Mechanical data:		
Size of contactor		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-25 + 60

°C

-55 ... +80

Certif	icates.	/ ani	nrova	ıle:
OCILII	loates,	, ap	PIOVE	IIO.

• during storage

General Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination



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Shipping Approval

Certificates

Special Test Certificate













LRS

Shipping Approval

other







Environmental Confirmations



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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH21222QB40}$

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

http://support.automation.siemens.com/WW/view/en/3RH21222QB40/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=3RH21222QB40&lang=en



