SIEMENS

Data sheet

3RH2122-4KB40



Coupling contactor relay, 2 NO + 2 NC, 24 V DC, 0.7 ... 1.25* US, with integrated suppressor diode, Size S00, Ring cable lug connection, suitable for PLC outputs

product brand name	SIRIUS
product designation	Coupling relay for switching auxiliary circuits
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	No
insulation voltage with degree of pollution 3 at AC rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 8g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
no-load switching frequency	
• at AC	10 000 1/h
• at DC	10 000 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.7
full-scale value	1.25
design of the surge suppressor	suppressor diode
closing power of magnet coil at DC	2.8 W

holding power of magnet coil at DC	2.8 W
closing delay	
• at DC	25 130 ms
opening delay	
• at DC	7 20 ms
arcing time	10 15 ms
Auxiliary circuit	10 10 113
	0
number of NC contacts for auxiliary contacts	2
instantaneous contact	2 2
number of NO contacts for auxiliary contacts	2
instantaneous contact	
identification number and letter for switching elements	22 E
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
operational current at 1 current path at DC-12	
at 24 V rated value	10 A
at 110 V rated value	3 A
at 220 V rated value	1A
at 440 V rated value	0.3 A
at 600 V rated value	0.15 A
operational current with 2 current paths in series at	
DC-12	
 at 24 V rated value 	10 A
 at 60 V rated value 	10 A
 at 110 V rated value 	4 A
 at 220 V rated value 	2 A
 at 440 V rated value 	1.3 A
• at 600 V rated value	0.65 A
operational current with 3 current paths in series at DC-12	
at 24 V rated value	10 A
at 60 V rated value	10 A
at 110 V rated value	10 A
at 220 V rated value	3.6 A
at 440 V rated value	2.5 A
at 600 V rated value	1.8 A
operating frequency at DC-12 maximum	1 000 1/h
operational current at 1 current path at DC-13	
at 24 V rated value	10 A
at 110 V rated value	1A
at 220 V rated value	0.3 A
at 440 V rated value	0.14 A
at 600 V rated value	0.1 A
operational current with 2 current paths in series at DC-13	
at 24 V rated value	10 A
at 60 V rated value	3.5 A
at 110 V rated value	1.3 A
at 220 V rated value	0.9 A
• at 440 V rated value	0.2 A
at 600 V rated value	0.1 A
operational current with 3 current paths in series at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	4.7 A
• at 110 V rated value	3 A

+ 000 \ / . / .	value		100		
• at 220 V rated			1.2 A		
• at 440 V rated			0.5 A		
at 600 V rated			0.26 A		
	y at DC-13 maximum	ant alogo it	1 000 1/h	. ^	
protection of the auxi	re circuit breaker for she iliary circuit up to 230 V	ort-Circuit	C characteristic: 6 A; 0.4 kA		
contact reliability of	f auxiliary contacts		1 faulty switching per 100	million (17 V, 1 mA)	
UL/CSA ratings					
contact rating of au	xiliary contacts accore	ding to UL	A600 / Q600		
Short-circuit protecti	on				
design of the fuse lin auxiliary switch requi	k for short-circuit protec	tion of the	fuse gL/gG: 10 A		
Installation/ mounting	g/ dimensions				
mounting position			+/-180° rotation possible c forward and backward by	on vertical mounting surfac +/- 22.5° on vertical mount	e; can be tilted ing surface
fastening method			screw and snap-on mount		
height			57.5 mm		
width			45 mm		
depth			73 mm		
required spacing					
 with side-by-side 	de mounting				
• with side-by-sid — forwards	ac mounting		10 mm		
— upwards	40		10 mm		
- downward			10 mm		
— at the side			0 mm		
 for grounded p 	arts				
— forwards			10 mm		
— upwards			10 mm		
— at the side			6 mm		
- downward	ds		10 mm		
 for live parts 					
— forwards			10 mm		
— upwards			10 mm		
— downward	ds		10 mm		
— at the side			6 mm		
Connections/ Termin	als				
type of electrical con	nection for auxiliary and	control circuit	ring terminal lug connection	n	
Safety related data					
-	demand rate according t	o SN 31920	1 000 000; With 0.3 x le		
proportion of dange		-			
	nd rate according to SN	31920	40 %		
	-		73 %		
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920		100 FIT			
T1 value for proof test interval or service life according to IEC 61508		20 у			
protection class IP on the front according to IEC 60529		IP00			
Certificates/ approva	ls				
General Product A	pproval				
(Sp.		Confirmatio		<u>KC</u>	EHC
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates	

RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Llovd's Register urs	PRS	RINA
Marine / Shipping	other		Dangerous Good		
RMRS	<u>Confirmation</u>		<u>Transport Informa-</u> tion		
Further information Information- and Do	wnloadcenter (Catalog	s, Brochures,)			

https://www.siemens.com/ic10

Cax online generator

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-4KB40

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-4KB40&lang=en

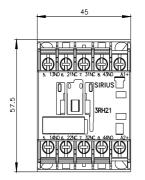
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4KB40

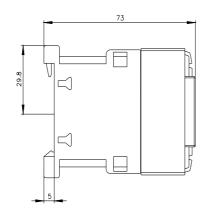
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-4KB40/char

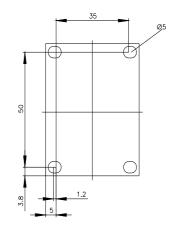
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-4KB40

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

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-4KB40&objecttype=14&gridview=view1







last modified:

1/26/2022 🖸