SIEMENS

Data sheet

3RH2140-2JB40



Coupling contactor relay, 4 NO, 24 V DC, 0.7 \dots 1.25* US, with integrated diode, Size S00, Spring-type terminal 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 (operating 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	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
	25 150 IIIS
opening delay	2225
• at DC	38 65 ms
arcing time	10 15 ms
Auxiliary circuit	
number of NO contacts for auxiliary contacts	4
instantaneous contact	4
identification number and letter for switching elements	40 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	1 A
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	1 A
• 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	1.00 1/h
operational current at 1 current path at DC-13	
	10.4
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
• at 220 V rated value	1.2 A
• at 440 V rated value	0.5 A
• at 600 V rated value	0.26 A
operating frequency at DC-13 maximum	1 000 1/h
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 auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
· · · · ·	

	otection use link for short-circuit protection o	of the auxiliary	fuse gL/gG: 10 A					
witch required		of the duxinary	1030 gE/g0. 1077					
stallation/ mo	unting/ dimensions							
nounting pos	ounting position			+/-180° rotation possible on vertical mounting surface; can be tilted forward ar backward by +/- 22.5° on vertical mounting surface				
astening method		screw and snap-on mounting onto 35 mm DIN rail						
neight			70 mm					
vidth			45 mm					
depth			73 mm					
equired spac	-							
	e-by-side mounting							
— for			10 mm					
— up\			10 mm					
	wnwards		10 mm					
	he side		0 mm					
 for grour 	•		10					
— for			10 mm 10 mm					
- upv	wards the side		10 mm 6 mm					
	ine side wnwards		6 mm 10 mm					
			10 mm					
 for live p for 			10 mm					
— upv			10 mm					
	wnwards		10 mm					
	the side		6 mm					
onnections/ Te			0 mm					
	al connection for auxiliary and cont	trol circuit	spring-loaded termi	nals				
	ctable conductor cross-sections		spring-loaded term	nais				
		,						
 for auxiliary contacts — solid or stranded 		2x (0,5 4 mm²)						
 — finely stranded with core end processing 		2x (0.5 2.5 mm ²)						
 finely stranded with core end processing finely stranded without core end processing 		2x (0.5 2.5 mm ²)						
 for AWG cables for auxiliary contacts 		2x (0.5 2.5 mm)) 2x (20 12)						
fety related d	-							
	n positively driven operation accord	ding to IEC	Yes					
310 value with	high demand rate according to SN	I 31920	1 000 000; With 0.3 x le					
	dangerous failures							
-	demand rate according to SN 319	20	40 %					
	n demand rate according to SN 319		73 %					
] with low demand rate according		100 FIT					
	oof test interval or service life acco	rding to IEC	20 a					
61508								
	ss IP on the front according to II		IP20					
touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front					
rtificates/ app								
General Prod	uct Approval							
۹. ۱	Confirmation				EHC			
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity	Test Certificates				
~	<u>Type Examination Cer-</u> tificate	~ ~	U	K <u>Type Test Certific</u> ates/Test Report				

Marine / Shipping							
ABS	B U R E A U VER ITAS		Lloyds Register uis	PRS	RINA		
Marine / Shipping	other		Railway	Dangerous Good			
RMAS	<u>Confirmation</u>	VDE	<u>Vibration and Shock</u>	Transport Information			
Further information							
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business							
Please contact your loo	on the renewal of the curr cal Siemens office on the si other than the sanctioned E	tatus of validity of the EA		d to import or offer to supply	these products to an		
Information on the pa			<i>,</i>				

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2140-2JB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2140-2JB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2JB40

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

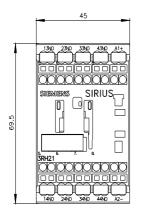
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-2JB40&lang=en

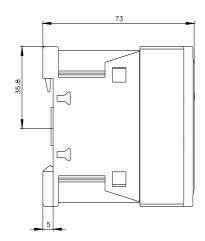
Characteristic: Tripping characteristics, I2t, Let-through current

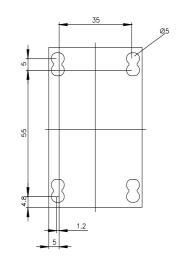
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2JB40/char

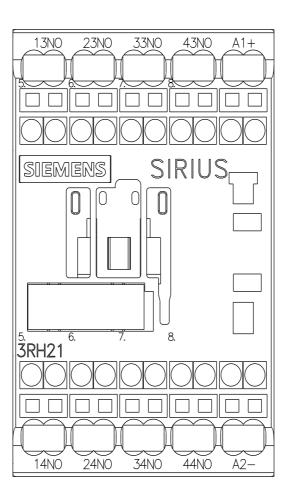
 Further characteristics (e.g. electrical endurance, switching frequency)

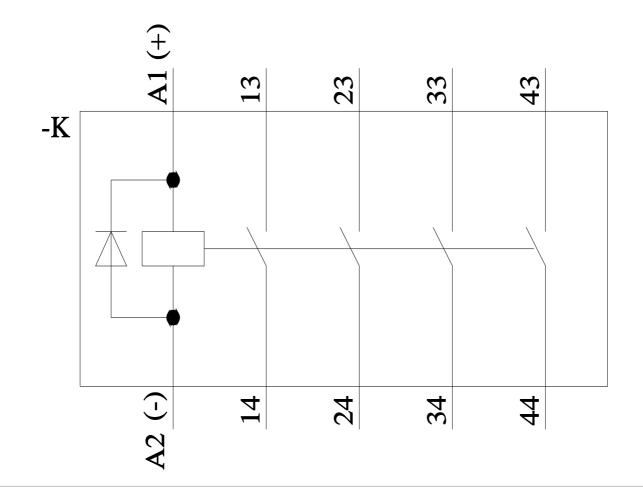
 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2JB40&objecttype=14&gridview=view1











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