Data sheet 3RH2140-2XF40-0LA2



Contactor relay for railway 4 NO DC 72-125V, 0.7...1.25*US, with integrated varistor Size S00, Spring-type terminal suitable for PLC outputs

product brand name	SIRIUS
product designation	Contactor relay for railway applications
product type designation	3RH2
General technical data	
size of contactor	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current without load current share typical	0.75 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
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
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	К
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-40 +70 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	133 kg
Global Warming Potential [CO2 eq] during manufacturing	1.3 kg
Global Warming Potential [CO2 eq] during operation	132 kg
Global Warming Potential [CO2 eq] after end of life	-0.227 kg
Main circuit	
no-load switching frequency	
• at DC	1 500 1/h

type of voltage of the control supply voltage at DC rated value o 72 125 V operating range factor control supply voltage rated value of magnet coil at DC o initial value ofull-scale value 1.25 design of the surge suppressor Varistor inrush current peak 1.1 A duration of inrush current peak 10cked-rotor current mean value locked-rotor current peak 0.04 A locked-rotor current peak 0.04 A duration of locked-rotor current peak 0.04 A locked-rotor eurrent peak 0.05 ms holding current mean value closing power of magnet coil at DC 4.5 W holding power of magnet coil at DC 0.75 W closing delay o at DC 0.70 ms opening delay o at DC 25 45 ms residual current of the electronics for control with signal <0> at DC at 24 V maximum permissible	Control circuit/ Control	
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each or any factor control supply voltage rated value of magnet col at DC 125 1		
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design of the surge suppressor Variation Initia current peak		
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Secked-rotor current mean value 0.04 A 0.	inrush current peak	1.1 A
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Closing power of magnet coil at DC	duration of locked-rotor current	250 ms
holding power of magnet coil at DC 0,75 W closing delay 30 70 ms eat DC 30 70 ms opening delay 4 at DC 25 45 ms arcing time 10 15 ms residual current of the electronics for control with signal <0> at 10 mA 0 15 ms Lat 24 / maximum permissible Late of the electronics for auxiliary contacts of a 10 mA Late of the electronics for auxiliary contacts of a 10 mA Late of NO contacts for auxiliary contacts 4 Interest auxiliary contacts	holding current mean value	7 mA
closing delay	closing power of magnet coil at DC	4.5 W
• at DC 25 45 ms 25 4	holding power of magnet coil at DC	0.75 W
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Modifiary circuit number of NO contacts for auxiliary contacts • Instantaneous contact (dentification number and letter for switching elements operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 400 V rated value • at 600	arcing time	10 15 ms
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Identification number and letter for switching elements 40 E operational current at AC-12 maximum 10 A operational current at AC-15 Image: Company of the Compan	number of NO contacts for auxiliary contacts	4
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• at 400 V rated value 2 A • at 500 V rated value 1 A • at 690 V rated value 1 A operational current at 1 current path at DC-12	operational current at AC-15	
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operational current at 1 current path at DC-12	• at 500 V rated value	2 A
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 at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 22 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 240 V rated value at 25 A at 240 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 24 V rated value	operational current at 1 current path at DC-12	
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	• at 110 V rated value	3 A
• at 600 V rated value 0.15 A operational current with 2 current paths in series at DC-12 10 A • at 24 V rated value 10 A • at 110 V rated value 4 A • at 220 V rated value 2 A • at 440 V rated value 0.65 A • at 600 V rated value 0.65 A operational current with 3 current paths in series at DC-12 10 A • at 24 V rated value 10 A • at 60 V rated value 10 A • at 210 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 1000 1/h operating frequency at DC-12 maximum 1000 1/h operating trade value 1.8 A operating frequency at DC-12 maximum 1000 1/h operating frequency at DC-12 maximum 1000 1/h operating frequency at DC-12 maximum 10 A • at 22 V rated value 10 A • at 22 V rated value 10 A • at 22 V rated value 10 A • at 440 V rated value 10 A <		
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 at 110 V rated value at 220 V rated value at 440 V rated value 0.14 A 		
 at 220 V rated value at 440 V rated value 0.3 A 0.14 A 		
• at 440 V rated value 0.14 A	• at 110 V rated value	1 A
	• at 220 V rated value	0.3 A
at 600 V rated value 0.1 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
Short-circuit protection	
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, standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail
height	70 mm
width	45 mm
depth	73 mm
required spacing	
 with side-by-side mounting 	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	spring-loaded terminals
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or 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 cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for auxiliary contacts	20 12
Safety related data	

product function positively driven operation according to IEC 60947-5-1	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
IEC 61508	
T1 value	
 for proof test interval or service life according to IEC 61508 	20 a
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Approvals Certificates	
Approvais Certificates	

General Product Approval









Confirmation

<u>KC</u>

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Certificate Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other Railway Dangerous Good Environment

Miscellaneous

Confirmation

Special Test Certificate

Transport Information



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RH2140-2XF40-0LA2

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RH2140-2XF40-0LA2}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2XF40-0LA2

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

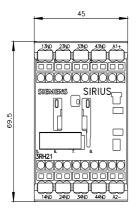
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2140-2XF40-0LA2&lang=en

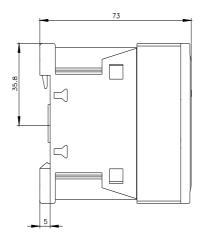
Characteristic: Tripping characteristics, I2t, Let-through current

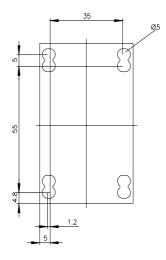
https://support.industry.siemens.com/cs/ww/en/ps/3RH2140-2XF40-0LA2/cha

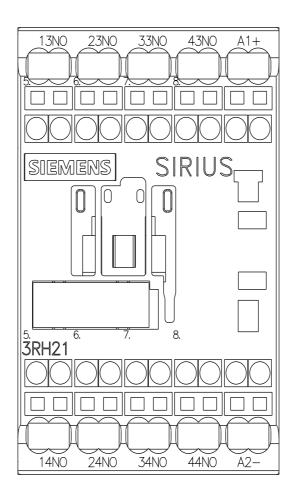
Further characteristics (e.g. electrical endurance, switching frequency)

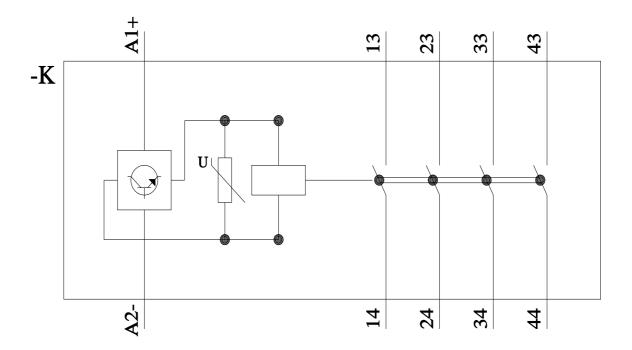
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2140-2XF40-0LA2&objecttype=14&gridview=view1











last modified: 3/11/2024 🖸