SIEMENS

Data sheet

3RH2122-2LF40-0LA0



Contactor relay for railway, 2 NO + 1 NC, 110 V DC, 0.7 \dots 1.25* US, with integrated varistor, 3-pole, Size S00, Spring-type terminal

product brand name SIRUS product brand designation Auxiliary contactor product stension auxiliary switch Yes power loss [V] for rated value of the current without load current share typical S00 insulation voltage with degree of pollution 3 at AC rated value 600 V degree of pollution 3 surge voltage resistance rated value 66 V shock resistance at rectangular impulse 64 V - at DC 10g / 5 ms, 5g / 10 ms shock resistance at rectangular impulse 15g / 5 ms, 8g / 10 ms - of ontactor typical 30 0000 000 - of ontactor typical 30 0000 000 - of ontactor typical 30 0000 000 - of the contactor with adde electronically optimized auxilary switch block typical 1000 0000 - of the contactor with addeel auxilary switch block typical 1000 0000 - reference code according to EC 81346-2 K Substance Prohibitance (Bat) 1000 100000 reference code according to EC 60068-230 95 % relative humidity at history and auxilary mainture 2 000 m - ambient temperature 40 - +70 °C - duri	Al-	
product type designation 3RH2 Content technical data 500 product extension auxiliary switch 900 / Yes power loss [W] for rated value of the current without load current hamer typical 28 W insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 68 V shock resistance at rectangular impulse 10g / 5 ms, 5g / 10 ms - at DC 10g / 5 ms, 5g / 10 ms of on clactor typical 30 000 000 - of on clactor with adde dectonically optimized auxilary switch block typical 30 000 000 - of on clactor with adde dectonically optimized auxilary switch block typical 1000 0000 - of on clactor with adde dectonically optimized auxilary switch block typical 1000 000 - of on clactor with adde auxilary switch block typical 1000 000 - of the contactor with added auxilary switch block typical 1001/2009 - reference code according to IEC 81346-2 K Substance Prohibitance (Date) 1001/2009 - entertor with added auxilary switch block typical 1001/2009 - entertore 70 °C	product brand name	SIRIUS
General technical data S00 size of contactor S00 product extension auxiliary switch Yes share typical 2.8 W insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance rated value 64 V shock resistance at rectangular impulse 64 V e at DC 10g / 5 ms, 5g / 10 ms shock resistance at rectangular impulse 15g / 5 ms, 8g / 10 ms e at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 000 000 of ot contactor with added electronically optimized 3000 000 avuiliary switch block typical 100 0000 reference code according to EIC 81345-2 K Substance Prohibitance (Date) 100/1/2009 Ambient conditions 40 +70 °C induring storage -55 +80 °C relative humidity at 55 °C according to EIC 60068-2-30 maximum 95 % Colobal Warming Potential (CO2 eq) during manufacturing 13 kg Global Warming Potential (CO2 eq) during manufacturing 13 kg Global Warming Potential (CO2 eq) during porestion 132 kg Global Warming Potential (CO2 eq) during operation 132 kg Global Warming Potential (CO2 eq) during porestion 1	product designation	Auxiliary contactor
size of contactor S00 product extension auxiliary switch Yes power toss fly for rated value of the current without load current share typical 28 W insulation voltage with degree of pollution 3 at AC rated value 690 V degree of pollution 3 surge voltage resistance at rectangular impulse 6 kV shock resistance with sine pulse 10g / 5 ms, 5g / 10 ms e at DC 10g / 5 ms, 5g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 reference code according to EEC 81346-2 K Substance Prohibitance (Dato) 1001/12009 Ambient conditions -40 +70 "C • during storage -55 +80 "C relative humidity information 10 % relative humidity at 55 "C according to EEC 60068-2-30 95 % maximum 10 % Environmental Footprint 133 kg Environmental Footprint 133 kg Environmental Footprint 133 kg Global Warming Potential [CO2 eq] during nanufacturin	product type designation	3RH2
product extension auxiliary switch Yes power loss [M] for rated value of the current without load current share typical 2.8 W 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 6 kV • at DC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse 0 000 000 • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 0 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10001/2009 Ambient conditions 2000 m Installation altitude at height above sea level maximum 2 000 m awiling storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2:30 maximum 95 % Environmental footprint 10 % Environmental footprint 13 kg	General technical data	
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share typical Insulation voltage with degree of pollution 3 at AC rated value 6 degree of pollution 3 surge voltage resistance rated value 6 k/V shock resistance at rectangular impulse 6 k/V • 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 with adde detectronically optimized 30 000 000 axiliany switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 8136-2 K Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m entative humidity at babove sea level maximum 2 000 m • during operation -40 + 70 °C • during storage -55 + 80 °C	product extension auxiliary switch	Yes
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Surge voltage resistance rated value 6 kV shock resistance at rectangular impulse 10g / 5 ms, 5g / 10 ms a tDC 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse 15g / 5 ms, 8g / 10 ms a tDC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 30 000 000 • of the contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 efference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009 Ambient conditions - installation altitude at height above sea level maximum 2 000 m ambient conditions - relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Global Warming Potential [CO2 eq] total 133 kg Global Warming Potential [CO2 eq] total 133 kg Global Warming Potential [CO2 eq] total	insulation voltage with degree of pollution 3 at AC rated value	690 V
shock resistance at rectangular impulse 10g / 5 ms, 5g / 10 ms shock resistance with sine pulse 15g / 5 ms, 8g / 10 ms e at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2 000 m ambient temperature -40 +70 °C • during operation -40 +70 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity minimum 10 % Environmental Product Declaration(EPD) Yes Global Warming Potential [CO2 eq] total 133 kg Global Warming Potential [CO2 eq] total 132 kg Global Warming Potential [CO2 eq] during operation 132 kg	degree of pollution	3
• 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 with added electronically optimized auxiliary switch block typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81348-2 K Substance Prohibitance (Date) 10/01/2009 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 95 % maximum 33 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] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation	surge voltage resistance rated value	6 kV
shock resistance with sine pulse 15g / 5 ms, 8g / 10 ms • at DC 15g / 5 ms, 8g / 10 ms mechanical service life (operating cycles) 30 000 000 • of contactor typical 30 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 Preference code according to IEC 81346-2 K Substance Prohibitance (Date) 10/1/2009 Ambient conditions 2 000 m ambient temperature - • during operation -40 +70 °C • during storage -55 +80 °C relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Environmental footprint 10 % Environmental Product Declaration(EPD) Yes Global Warming Potential [CO2 eq] during manufacturing 133 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potent	shock resistance at rectangular impulse	
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• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Environmental footprintYesEnvironmental Product Declaration(EPD)YesGlobal Warming Potential [CO2 eq] total133 kgGlobal Warming Potential [CO2 eq] during manufacturing1.3 kgGlobal Warming Potential [CO2 eq] during operation132 kgGlobal Warming Potential [CO2 eq] after end of life-0.227 kgMain circuitImage: Star Star Star Star Star Star Star Star	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % Environmental footprint 95 % Environmental footprint 10 % 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 -0.227 kg no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h	during operation	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %Environmental footprintYesEnvironmental Product Declaration(EPD)YesGlobal Warming Potential [CO2 eq] total133 kgGlobal Warming Potential [CO2 eq] during manufacturing1.3 kgGlobal Warming Potential [CO2 eq] during operation132 kgGlobal Warming Potential [CO2 eq] after end of life-0.227 kgMain circuitImage: Second	during storage	-55 +80 °C
maximumImage: Construit of the second se	relative humidity minimum	10 %
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 -0.227 kg no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h		95 %
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 -0.227 kg • at AC 10 000 1/h • at DC 10 000 1/h	Environmental footprint	
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 -0.227 kg no-load switching frequency 10 000 1/h • at AC 10 000 1/h • at DC 10 000 1/h	Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] during operation 132 kg Global Warming Potential [CO2 eq] after end of life -0.227 kg Main circuit -0.227 kg no-load switching frequency -0.227 kg • at AC 10 000 1/h • at DC 10 000 1/h	Global Warming Potential [CO2 eq] total	133 kg
Global Warming Potential [CO2 eq] after end of life -0.227 kg Main circuit -0.227 kg no-load switching frequency -0.227 kg • at AC 10 000 1/h • at DC 10 000 1/h	Global Warming Potential [CO2 eq] during manufacturing	1.3 kg
Main circuit no-load switching frequency • at AC • at DC 10 000 1/h	Global Warming Potential [CO2 eq] during operation	132 kg
no-load switching frequency• at AC10 000 1/h• at DC10 000 1/h	Global Warming Potential [CO2 eq] after end of life	-0.227 kg
• at AC 10 000 1/h • at DC 10 000 1/h	Main circuit	
• at DC 10 000 1/h	no-load switching frequency	
	• at AC	10 000 1/h
Control circuit/ Control	• at DC	10 000 1/h
	Control circuit/ Control	

time of violations of the control complexes of	
type of voltage of the control supply voltage	DC
control supply voltage at DC	110.1/
• rated value	110 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	with varistor
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	
number of NC contacts for auxiliary contacts	1
 instantaneous contact 	1
number of NO contacts for auxiliary contacts	2
 instantaneous contact 	2
identification number and letter for switching elements	21
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	1 000 1/h
operational current at 1 current path at DC-13	
at 24 V rated value	10 A
• at 110 V rated value	1 A
• 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				
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				
fastening method	screw and snap-on mounting onto 35 mm DIN rail				
height	70 mm				
width	45 mm				
depth	116 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	0 mm				
type of electrical connection for auxiliary and control circuit	spring-loaded terminals				
type of connectable conductor cross-sections					
for auxiliary contacts	0 (05 4 3)				
— solid or stranded	2x (0,5 4 mm ²)				
 finely stranded with core end processing 	2x (0.5 2.5 mm ²)				
 finely stranded without core end processing 	2x (0.5 2.5 mm²)				
 for AWG cables for auxiliary contacts 	2x (20 12)				
Safety related data					
proportion of dangerous failures					
 with low demand rate according to SN 31920 	40 %				
 with high demand rate according to SN 31920 	73 %				
failure rate [FIT] with low demand rate according to SN 31920	100 FIT				
B10 value with high demand rate according to SN 31920	1 000 000; With 0.3 x le				
product function positively driven operation according to IEC 60947-5-1	Yes				
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						
General Product Appro	oval					
(SP) Can	CE EG-Konf.	UK CA		<u>Confirmation</u>		
General Product Appro	oval	EMV	Test Certificates		Marine / Shipping	
KC	EAC	RCM	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS		Lloyd's Register urs	PRS	RINA	RMRS	
other		Railway	Dangerous Good			
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</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 Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an						

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RH2122-2LF40-0LA0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en\&mlfb=3RH2122-2LF40-0LA0$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2LF40-0LA0

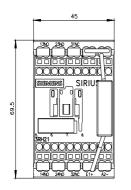
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

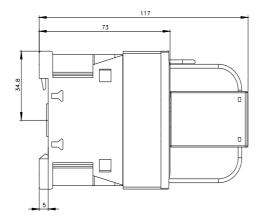
 $\underline{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2122-2LF40-0LA0\&lang=enderseter$

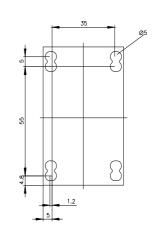
Characteristic: Tripping characteristics, I²t, Let-through current

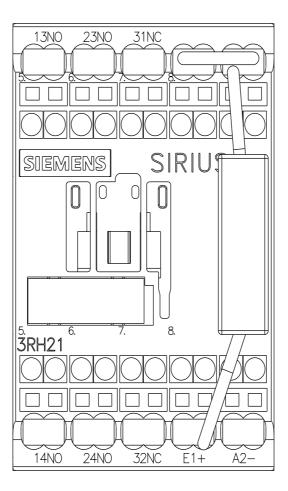
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2LF40-0LA0/char

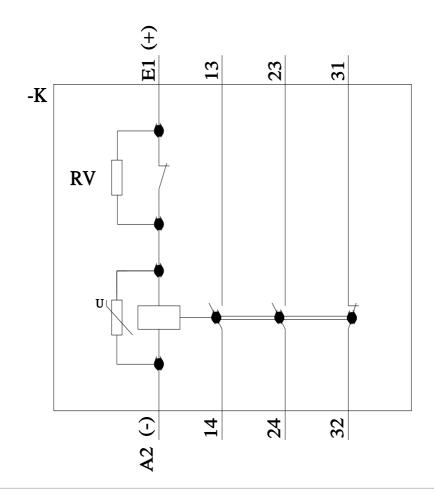
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2LF40-0LA0&objecttype=14&gridview=view1











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10/31/2023 🖸