SIEMENS

Data sheet 3RH2911-2FA40



AUX.SWITCH BLOCK,FRONT,4NO, CURR.PATH: 1NO, 1NO, 1NO, 1NO, F. CONT. RELAYS A. MOTOR CONT., 3RT2 SPRING-LOADED TERMINAL .3 / .4,.3 / .4,.3 / .4,.3 / .4

General technical data:		
product brand name		SIRIUS
Suitability for use		Contactor relay and power contactor
Protection class IP on the front		IP20
Ambient temperature		
during storage	°C	-55 + 80
 during operation 	°C	-25 +60
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		200 000
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)
Contact reliability of auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Insulation voltage with degree of pollution 3 rated value	V	690
Surge voltage resistance rated value	kV	6

Auxiliary circuit:

Number of NC contacts for auxiliary contacts

• instantaneous contact

0

Number of NO contacts for auxiliary contacts 4 4 1 1 1 1 1 1 1 1	lagging switching		0
● leading contact Operating current of auxiliary contacts at AC-12 ● at 24 V	Number of NO contacts for auxiliary contacts		
Operating current of auxiliary contacts at AC-12 ■ at 24 ∨	 instantaneous contact 		4
• at 24 V • at 230 V • maximum A 10 • maximum A 10 Operating current • of auxiliary contacts — at AC-14 — at 125 V — at 250 V — at AC-15 — at 24 V — at 230 V — at 400 V • at AC-15 at 690 V rated value • with 2 current paths in series at DC-12 — at 24 V rated value — at 110 V rated value — at 40 V rated value — at 600 V rated value — at 220 V rated value — at 600 V rated value — at 110 V rated value — at 220 V rated value — at 240 V rated value — at 240 V rated value — at 240 V rated value — at 220	leading contact		0
• at 230 V A 10 • maximum A 10 Operating current • of auxiliary contacts — at AC-14 — at 250 V A 6 — at 250 V A 6 — at 24 V A 6 — at 230 V A 6 — at 400 V A 3 • at AC-15 at 690 V rated value A 10 Operating current • with 2 current paths in series at DC-12 — at 60 V rated value A 10 — at 60 V rated value A 1.3 — at 40 V rated value A 1.3 — at 40 V rated value A 1.3 — at 40 V rated value A 1.3 — at 60 V rated value A 1.3 — at 20 V rated value A 1.3 — at 20 V rated value A 1.3 — at 20 V rated value A 1.8 Operating current • of auxiliary contacts at DC-13 — at 22 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 110 V A 1 — at 220 V A 10.3	Operating current of auxiliary contacts at AC-12		
• maximum	● at 24 V	Α	10
Operating current ● of auxiliary contacts	● at 230 V	Α	10
of auxiliary contacts — at AC-14 — at 125 V	• maximum	Α	10
- at AC-14 - at 125 V A 6 - at 250 V A 6 - at 250 V A 6 - at AC-15 - at 24 V A 6 - at 230 V A 6 - at 400 V A 3 • at AC-15 at 690 V rated value A 1 Operating current • with 2 current paths in series at DC-12 - at 24 V rated value A 10 - at 110 V rated value A 10 - at 110 V rated value A 2 - at 440 V rated value A 1.3 - at 600 V rated value A 1.3 - at 600 V rated value A 1.3 - at 600 V rated value A 1.0 - at 110 V rated value A 1.3 - at 600 V rated value A 10 - at 110 V rated value A 10 - at 110 V rated value A 10 - at 220 V rated value A 10 - at 220 V rated value A 10 - at 220 V rated value A 1.8 Operating current • of auxiliary contacts at DC-13 - at 24 V A 6 - at 600 V A 2 - at 110 V A 2 - at 110 V A 2 - at 220 V A 3 • with 2 current paths in series at DC-13	Operating current		
- at 125 V	of auxiliary contacts		
- at 250 V - at AC-15 - at 24 V - at 230 V - at 400 V - at 600 V rated value Operating current • with 2 current paths in series at DC-12 - at 24 V rated value - at 60 V rated value - at 110 V rated value - at 440 V rated value - at 400 V rated value - at 400 V rated value - at 600 V rated value - at 60 V rated value - at 22 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 110 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 60 V rated value - at 220 V rated value - at 60 V rated value - at 220 V rated value - at 220 V rated value - at 220 V - at 110 V - at 220 V - with 2 current paths in series at DC-13	— at AC-14		
at AC-15 at 24 V at 230 V at 400 V at 24 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 110 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 60 V rated value at 24 V rated value at 60 V rated value at 220 V rated value at 360 V rated value at 440 V rated value at 440 V rated value at 110 V rated value at 220 V rated value at 3.6 at 440 V rated value at 440 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 450 V rated value at 460 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 220 V rated value	— at 125 V	Α	6
	— at 250 V	Α	6
	— at AC-15		
at 400 V A 1 ■ at AC-15 at 690 V rated value A 1 Operating current ■ with 2 current paths in series at DC-12 at 24 V rated value A 10 at 60 V rated value A 4 at 220 V rated value A 2 at 440 V rated value A 1.3 at 600 V rated value A 1.6 ■ with 3 current paths in series at DC-12 at 24 V rated value A 10 at 20 V rated value A 10 at 110 V rated value A 10 at 220 V rated value A 10 at 220 V rated value A 10 at 440 V rated value A 10 at 440 V rated value A 2.5 at 600 V rated value A 2.5 at 600 V rated value A 1.8 Operating current ■ of auxiliary contacts at DC-13 at 24 V A A 6 at 110 V A 2 at 110 V A 1 at 220 V A 10 ■ with 2 current paths in series at DC-13 ■ at 220 V A 10 ■ with 2 current paths in series at DC-13	— at 24 V	Α	6
● at AC-15 at 690 V rated value Operating current ● with 2 current paths in series at DC-12 — at 24 V rated value A 10 — at 60 V rated value A 4 4 — at 220 V rated value A 1.3 — at 440 V rated value A 1.3 — at 600 V rated value A 1.0 — at 24 V rated value A 10 — at 24 V rated value A 10 — at 110 V rated value A 10 — at 220 V rated value A 10 — at 440 V rated value A 10 — at 440 V rated value A 10 — at 110 V rated value A 3.6 — at 440 V rated value A 3.6 — at 440 V rated value A 1.8 Operating current ● of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V • with 2 current paths in series at DC-13 ● with 2 current paths in series at DC-13	— at 230 V	Α	6
Operating current ● with 2 current paths in series at DC-12 — at 24 V rated value A 10 — at 60 V rated value A 4 — at 220 V rated value A 2 — at 440 V rated value A 1.3 — at 600 V rated value A 0.65 ● with 3 current paths in series at DC-12 A 10 — at 24 V rated value A 10 — at 110 V rated value A 10 — at 220 V rated value A 3.6 — at 440 V rated value A 2.5 — at 600 V rated value A 1.8 Operating current ● of auxiliary contacts at DC-13 A 6 — at 60 V A 2 — at 110 V A 1 — at 220 V A 0.3 ● with 2 current paths in series at DC-13 A 0.3	— at 400 V	Α	3
 with 2 current paths in series at DC-12 at 24 V rated value at 60 V rated value at 110 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 with 3 current paths in series at DC-12 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 3.6 at 440 V rated value at 3.6 Operating current of auxiliary contacts at DC-13 at 24 V at 60 V at 60 V at 110 V at 110 V at 220 V with 2 current paths in series at DC-13 	• at AC-15 at 690 V rated value	Α	1
- at 24 V rated value	Operating current		
at 60 V rated value at 110 V rated value at 220 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 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 24 V at 600 V rated value at 24 V at 220 V at 220 V at 110 V at 220 V at 110 V at 220	 with 2 current paths in series at DC-12 		
— at 110 V rated value A 2 — at 220 V rated value A 2 — at 440 V rated value A 1.3 — at 600 V rated value A 0.65 ■ with 3 current paths in series at DC-12 — at 24 V rated value A 10 — at 110 V rated value A 10 — at 110 V rated value A 10 — at 220 V rated value A 3.6 — at 440 V rated value A 2.5 — at 600 V rated value A 1.8 Operating current ■ of auxiliary contacts at DC-13 — at 24 V A 6 — at 60 V A 2 — at 110 V A 1 — at 220 V A 0.3 ■ with 2 current paths in series at DC-13	— at 24 V rated value	Α	10
— at 220 V rated value — at 440 V rated value A — at 600 V rated value A • with 3 current paths in series at DC-12 — at 24 V rated value A A B — at 10 A A B — at 60 V rated value A A B — at 110 V rated value A A B — at 420 V rated value A A B — at 440 V rated value A A B — at 600 V rated value A A B — at 600 V rated value A B — at 220 V rated value A B — at 600 V rated value A B — at 24 V A B — at 24 V A B — at 24 V A B — at 220 V A B — at 220 V A B — at 220 V A B — at 300 B • with 2 current paths in series at DC-13	— at 60 V rated value	Α	10
- at 440 V rated value A 1.3 - at 600 V rated value A 0.65 ■ with 3 current paths in series at DC-12 - at 24 V rated value A 10 - at 60 V rated value A 10 - at 110 V rated value A 10 - at 220 V rated value A 3.6 - at 440 V rated value A 2.5 - at 60 V rated value A 1.8 Operating current ■ of auxiliary contacts at DC-13 - at 24 V A 6 - at 60 V A 2 - at 110 V A 1 - at 220 V A 0.3 ■ with 2 current paths in series at DC-13	— at 110 V rated value	Α	4
- at 600 V rated value • with 3 current paths in series at DC-12 - at 24 V rated value A 10 - at 60 V rated value A 10 - at 110 V rated value A 10 - at 220 V rated value A 3.6 - at 440 V rated value A 2.5 - at 600 V rated value A 1.8 Operating current • of auxiliary contacts at DC-13 - at 24 V - at 60 V - at 110 V - at 220 V with 2 current paths in series at DC-13	— at 220 V rated value	Α	2
 with 3 current paths in series at DC-12 at 24 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 Operating current of auxiliary contacts at DC-13 at 24 V at 60 V at 60 V at 110 V at 220 V with 2 current paths in series at DC-13 	— at 440 V rated value	Α	1.3
- at 24 V rated value - at 60 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 24 V - at 60 V - at 220 V - at 110 V - at 220 V • with 2 current paths in series at DC-13	— at 600 V rated value	Α	0.65
- at 60 V rated value - 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 600 V rated value - at 24 V - at 60 V - at 60 V - at 220 V - at 110 V - at 220 V with 2 current paths in series at DC-13	 with 3 current paths in series at DC-12 		
 — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value A 1.8 Operating current • of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 60 V — at 110 V — at 220 V • with 2 current paths in series at DC-13 	— at 24 V rated value	Α	10
 — at 220 V rated value — at 440 V rated value — at 600 V rated value A 1.8 Operating current of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V with 2 current paths in series at DC-13 	— at 60 V rated value	Α	10
 — at 440 V rated value — at 600 V rated value A 1.8 Operating current • of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V • with 2 current paths in series at DC-13 	— at 110 V rated value	Α	10
 — at 600 V rated value A 1.8 Operating current of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V with 2 current paths in series at DC-13 	— at 220 V rated value	Α	3.6
Operating current • of auxiliary contacts at DC-13 — at 24 V A 6 — at 60 V A 2 — at 110 V A 1 — at 220 V A 0.3 • with 2 current paths in series at DC-13	— at 440 V rated value	Α	2.5
 of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V with 2 current paths in series at DC-13 	— at 600 V rated value	Α	1.8
 — at 24 V — at 60 V — at 110 V — at 220 V A 0.3 ♦ with 2 current paths in series at DC-13 	Operating current		
 — at 60 V — at 110 V — at 220 V A 1 A 0.3 • with 2 current paths in series at DC-13 	 of auxiliary contacts at DC-13 		
— at 110 V A 1 — at 220 V A 0.3 • with 2 current paths in series at DC-13	— at 24 V	Α	6
 — at 220 V A 0.3 • with 2 current paths in series at DC-13 	— at 60 V	Α	2
• with 2 current paths in series at DC-13	— at 110 V	Α	1
	— at 220 V	Α	0.3
— at 24 V rated value A 10	 with 2 current paths in series at DC-13 		
	— at 24 V rated value	Α	10



— at 60 V rated value	Α	3.5
— at 110 V rated value	Α	1.3
— at 220 V rated value	Α	0.9
— at 440 V rated value	Α	0.2
— at 600 V rated value	Α	0.1
 with 3 current paths in series at DC-13 		
— at 24 V rated value	Α	10
— at 60 V rated value	Α	4.7
— at 110 V rated value	Α	3
— at 220 V rated value	Α	1.2
— at 440 V rated value	Α	0.5
— at 600 V rated value	Α	0.26

Installation/ mounting/ dimensions:		
Mounting type		snap-on mounting
Width	mm	36
Height	mm	41.5
Depth	mm	47.7

Connections/ Terminals:	
Type of electrical connection for auxiliary and control	spring-loaded terminals
current circuit	
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— finely stranded	
— with core end processing	2x (0.5 1.5 mm²)
 — without core end processing 	2x (0.5 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 14)

Safety related data:	
Product function Mirror contact acc. to IEC 60947-4-1	Yes
● Note	with 3RT2
Product function positively driven operation acc. to IEC 60947-5-1	Yes
• Note	with 3RH2

Certificates/ approvals:



General Product Approval

Declaration of Conformity

Test Certificates











spezielle Prüfbescheinigunge n

Test Certificates **Shipping Approval**

Typprüfbescheinigu ng/Werkszeugnis











GL

LRS

Shipping Approval

other







Umweltbestätigung



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

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH29112FA40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RH29112FA40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH29112FA40&lang=en



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