SIEMENS

Data sheet 3RH2911-1FB22



Auxiliary switch 11 U, on the front, 2 NO + 2 NC Current path 1 NO, 1 NC, 1 NC, 1 NO for 3RH and 3RT screw terminal .3/.4, .1/.2, .5/.6, .7/.8

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 	-55 +80 °C
during operation	-25 +60 °C
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	200 000
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
 instantaneous contact 	1
lagging switching	1
number of NO contacts for auxiliary contacts	
 instantaneous contact 	1
leading contact	1
operational current of auxiliary contacts at AC-12	
• at 24 V	10 A
• at 230 V	10 A
maximum	10 A
operational current	
 of auxiliary contacts 	
— at AC-14	
— at 125 V	6 A
— at 250 V	6 A
— at AC-15	
— at 24 V	6 A
— at 230 V	6 A
— at 400 V	3 A
at AC-15 at 690 V rated value	1 A
operational current	
of auxiliary contacts at DC-12	
— at 24 V	10 A
— at 110 V	3 A
— at 220 V	1 A

• with 2 current paths in series at DC-12		
at 60 V rated value	 with 2 current paths in series at DC-12 	
at 110 V rated value 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 3 A 3	— at 24 V rated value	10 A
at 220 V rated value	— at 60 V rated value	10 A
- at 440 V rated value	— at 110 V rated value	4 A
 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 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — 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 24 V rated value — at 60 V rated value — at 110 V rated value — at 20 V rated value — at 110 V rated value — at 20 V rated value — at 40 V rated value — at 60 V rated value — at 60 V rated value — at 20 V rated value — at 60 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 60 V rated value	— at 220 V rated value	2 A
 with 3 current paths in series at DC-12 — at 24 V rated value — at 10 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 600 V rated value — at 24 V — at 600 V — at 110 V — at 110 V — at 220 V • with 2 current paths in series at DC-13 — at 24 V rated value — at 60 V rated value — at 24 V rated value — at 24 V rated value — at 60 V rated value — at 20 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 24 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 600 V rated value — at 600 V rated value — at 440 V rated value — at 60 V rated value — at 600 V rated value	— at 440 V rated value	1.3 A
at 24 V rated value	— at 600 V rated value	0.65 A
- at 60 V rated value 10 A - at 110 V rated value 3.6 A - at 220 V rated value 2.5 A - at 440 V rated value 1.8 A operational current ● of auxiliary contacts at DC-13 - at 24 V 6 A - at 60 V 1 A - at 110 V 1 A - at 220 V 0 0.3 A ● with 2 current paths in series at DC-13 - at 24 V rated value 1.3 A - at 24 V rated value 3.5 A - at 110 V 1.3 A - at 220 V 0.3 A ● with 2 current paths in series at DC-13 - at 24 V rated value 1.3 A - at 220 V rated value 2.5 A - at 110 V rated value 1.3 A - at 220 V rated value 0.9 A - at 440 V rated value 0.9 A - at 440 V rated value 0.1 A ● with 3 current paths in series at DC-13 - at 22 V rated value 1.3 A - at 220 V rated value 0.9 A - at 460 V rated value 0.1 A ● with 3 current paths in series at DC-13 - at 24 V rated value 1.2 A - at 60 V rated value 3.5 A - at 22 V rated value 1.2 A - at 40 V rated value 3.5 A - at 60 V rated value 3.5 A - at 22 V vated value 3.5 A - at 22 V vated value 3.5 A - at 440 V rated value 3.5 A - at 440 V rated value 3.5 A - at 440 V rated value 0.5 A - at 600 V rated value 0.26 A Installation/ mounting/ dimensions fastening method snap-on mounting	 with 3 current paths in series at DC-12 	
at 110 V rated value 3.6 A at 220 V rated value 2.5 A at 440 V rated value 1.8 A at 600 V at 110 V at 220 V at 110 V rated value 1.3 A at 24 V rated value 1.3 A at 220 V rated value 0.9 A at 600 V rated value 0.2 A at 600 V rated value 0.1 A at 60 V rated value 0.5 A at 60 V rated value 0.5 A at 600 V	— at 24 V rated value	10 A
- at 220 V rated value 2.5 A 1.8 A operational current of auxiliary contacts at DC-13 - at 24 V 6 A - at 60 V - at 110 V 1 A - at 220 V - at 24 V at 20 V - at 110 V rated value 1.3 A - at 220 V rated value 1.3 A - at 24 V rated value 1.3 A - at 220 V rated value 1.3 A - at 600 V rated value 1.3 A - at 600 V rated value 1.4 A - at 600 V rated value 1.4 A - at 600 V rated value 1.5 A - at 24 V rated value 1.5 A - at 24 V rated value 1.7 A - at 24 V rated value 1.2 A - at 440 V rated value 1.2 A - at 440 V rated value 1.2 A - at 440 V rated value 1.2 A - at 4600 V rated value 1.2 A - at 4600 V rated value 1.2 A - at 4600 V rated value 1.2 A - at 600 V rated value 1.2 A - at	— at 60 V rated value	10 A
- at 440 V rated value - at 600 V rated value operational current	— at 110 V rated value	10 A
— at 600 V rated value 1.8 A operational current of auxiliary contacts at DC-13 — at 24 V — at 60 V — at 110 V — at 220 V o.3 A 0.3 A • with 2 current paths in series at DC-13 10 A — at 24 V rated value 10 A — at 60 V rated value 3.5 A — at 110 V rated value 0.9 A — at 440 V rated value 0.9 A — at 600 V rated value 0.1 A • with 3 current paths in series at DC-13 10 A — at 24 V rated value 4.7 A — at 110 V rated value 4.7 A — at 220 V rated value 1.2 A — at 440 V rated value 0.5 A — at 440 V rated value 0.5 A — at 600 V rated value 0.26 A Installation/ mounting/ dimensions fastening method	— at 220 V rated value	3.6 A
operational current	— at 440 V rated value	2.5 A
of auxiliary contacts at DC-13 — at 24 V	— at 600 V rated value	1.8 A
- at 24 V - at 60 V - at 110 V - at 220 V 0.3 A ■ with 2 current paths in series at DC-13 - at 24 V rated value - 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 0.1 A ■ with 3 current paths in series at DC-13 - at 20 V rated value 0.1 A ■ with 3 current paths in series at DC-13 - at 24 V rated value 10 A - at 60 V rated value 11 A ■ at 20 V rated value 12 A - at 110 V rated value 13 A - at 220 V rated value 14.7 A - at 110 V rated value 15 A - at 440 V rated value 17 A - at 440 V rated value 18 A - at 220 V rated value 19 A - at 440 V rated value 10 A - at 600 V rated value 11 A - at 600 V rated value 12 A - at 600 V rated value 13 A - at 600 V rated value 14 A - at 600 V rated value 15 A - at 600 V rated value 17 A - at 600 V rated value 18 A - at 600 V rated value 19 A - at 600 V rated value 10 A - at 600 V rated value	operational current	
- at 60 V	 of auxiliary contacts at DC-13 	
- at 110 V - at 220 V 0.3 A ■ with 2 current paths in series at DC-13 - at 24 V rated value 10 A - at 60 V rated value 1.3 A - at 220 V rated value 2.9 A - at 440 V rated value 2.1 A - at 600 V rated value 2.2 A - at 600 V rated value 2.2 A - at 600 V rated value 3.5 A 10 A - at 220 V rated value 3.5 A 10 A - at 440 V rated value 10 A ■ 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 3 A - at 220 V rated value 3 A - at 220 V rated value 1.2 A - at 440 V rated value 3 A - at 440 V rated value 3 A - at 450 V rated value 9.5 A - at 600 V rated v	— at 24 V	6 A
 — at 220 V ● with 2 current paths in series at DC-13 — at 24 V rated value — 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 — with 3 current paths in series at DC-13 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	— at 60 V	2 A
 with 2 current paths in series at DC-13 — 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 • with 3 current paths in series at DC-13 — 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 110 V	1 A
— 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 600 V rated value 0.1 A • with 3 current paths in series at DC-13 — 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 440 V rated value — at 600 V rated value 	— at 220 V	0.3 A
— at 60 V rated value 3.5 A — at 110 V rated value 0.9 A — at 220 V rated value 0.9 A — at 440 V rated value 0.1 A • 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 Installation/ mounting/ dimensions snap-on mounting	 with 2 current paths in series at DC-13 	
 — 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-13 — 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 440 V rated value — at 600 V rated value — a	— at 24 V rated value	10 A
- at 220 V rated value 0.9 A - at 440 V rated value 0.1 A ■ 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 3.5 A - at 600 V rated value 3.6 A - at 600 V rated value 3.7 A - at 320 V rated value 3.8 A - at 220 V rated value 3.9 A - at 440 V rated value 3.9 A - at 600 V rated value 3.0 A - at 600 V rated value 4.7 A - at 600 V rated value 5.0 A - at 600 V rated value 6.0 A - at 600 V rated value 7.0 A - at 600 V rated value 8.0 A - at 6	— at 60 V rated value	3.5 A
 — at 440 V rated value — at 600 V rated value ● with 3 current paths in series at DC-13 — 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 440 V rated value — at 600 V rated value — a	— at 110 V rated value	1.3 A
 — at 600 V rated value ● with 3 current paths in series at DC-13 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 240 V rated value — at 440 V rated value — at 600 V rated value — a	— at 220 V rated value	0.9 A
 with 3 current paths in series at DC-13 — 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 6	— at 440 V rated value	0.2 A
— 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 Installation/ mounting/ dimensions snap-on mounting	— at 600 V rated value	0.1 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 Installation/ mounting/ dimensions snap-on mounting	 with 3 current paths in series at DC-13 	
— 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 Installation/ mounting/ dimensions snap-on mounting	— at 24 V rated value	10 A
- at 220 V rated value - at 440 V rated value 0.5 A - at 600 V rated value 0.26 A Installation/ mounting/ dimensions fastening method 1.2 A 0.5 A snap-on mounting	— at 60 V rated value	4.7 A
- at 440 V rated value 0.5 A - at 600 V rated value 0.26 A Installation/ mounting/ dimensions fastening method snap-on mounting	— at 110 V rated value	3 A
— at 600 V rated value 0.26 A Installation/ mounting/ dimensions fastening method snap-on mounting	— at 220 V rated value	1.2 A
Installation/ mounting/ dimensions fastening method snap-on mounting	— at 440 V rated value	0.5 A
fastening method snap-on mounting	— at 600 V rated value	0.26 A
	Installation/ mounting/ dimensions	
	fastening method	snap-on mounting
wiath 36 mm	width	36 mm
height 37.5 mm	height	37.5 mm
depth 43.7 mm		43.7 mm
Connections/ Terminals	·	
type of electrical connection for auxiliary and control screw-type terminals circuit	type of electrical connection for auxiliary and control	screw-type terminals
type of connectable conductor cross-sections	type of connectable conductor cross-sections	
for auxiliary contacts	for auxiliary contacts	
— finely stranded	— finely stranded	
— with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	— with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
• at AWG cables for auxiliary contacts 2x (20 16), 2x (18 14)		
Safety related data	Safety related data	
product function mirror contact according to IEC No 60947-4-1		No
product function positively driven operation according to IEC 60947-5-1		No
Certificates/ approvals	Certificates/ approvals	
General Product Approval	0 10 1 14	



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Test Certificates

Marine / Shipping



Type Examination Certificate

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway

Environmental Confirmations



Vibration and Shock **Special Test Certific-**

<u>ate</u>

Type Test Certificates/Test Report

Further information

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=3RH2911-1FB22

Cax online generator

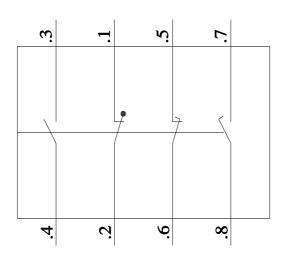
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2911-1FB22

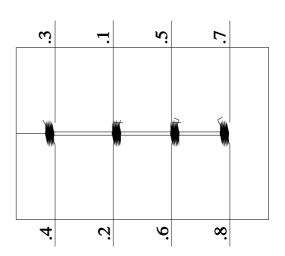
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1FB22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1FB22&lang=en

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last modified: 12/21/2020 ☑