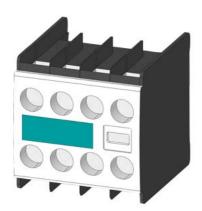
## **SIEMENS**

Data sheet 3RH1911-1HA12



Auxiliary switch block, 22 E 1 NO + 2 NC EN 50012 Screw terminal for motor contactors, 4-pole !!! Phased-out product !!! Successor is SIRIUS 3RH2 Preferred successor type is >>3RH2911-1HA12<<

General technical data	
product brand name	SIRIUS
suitability for use	Contactor relay and power contactor
protection class IP on the front	IP20
ambient temperature	
<ul> <li>during storage</li> </ul>	-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	2
number of NO contacts for auxiliary contacts	
instantaneous 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	
<ul> <li>of auxiliary contacts</li> </ul>	
— 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	
<ul> <li>of auxiliary contacts at DC-12</li> <li>— at 24 V</li> </ul>	10 A
— at 24 V — at 110 V	3 A
— at 110 V — at 220 V	
— at 220 v	1 A

	<ul> <li>with 2 current paths in series at DC-12</li> </ul>			
		10 A		
→ with 3 current paths in series at DC-12         10 A           → at 24 V rated value         10 A           → at 10 V rated value         10 A           → at 10 V rated value         10 A           → at 220 V rated value         3.6 A           → at 44 V value value         2.5 A           → at 600 V rated value         1.8 A           operational current         • of availising contacts at DC-13           → at 24 V         6 A           → at 110 V         1 A           → at 220 V         0.3 A           • with 2 current paths in series at DC-13         10 A           → at 60 V rated value         3.5 A           → at 22 V rated value         0.9 A           → at 22 V rated value         0.9 A           → at 22 V rated value         0.2 A           → at 32 V rated value         0.1 A           → with 3 current paths in series at DC-13         10 A           → at 40 V rated value         0.2 A           → at 32 V rated value         0.1 A           → with 3 current paths in series at DC-13         10 A           → at 600 V rated value         0.2 A           → at 24 V rated value         0.2 A           → at 22 V rated value         0.2 A           → at 22 V rate				
with 3 current paths in series at DC-12				
		0.0071		
		10 A		
A				
operational current				
• of auxiliary contacts at DC-13 - at 24 V		1.071		
at 24 V at 60 V 2 A 2 A 2 A at 100 V 2 A at 110 V at 120 V 0.3 A • with 2 current paths in series at DC-13	•			
at 60 V at 110 V 1A	-	6 A		
at 110 V at 220 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 410 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 450 V rated value at 600 V rated val				
— at 220 V         • with 2 current paths in series at DC-13           — at 24 V rated value         10 A           — at 80 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         0.1 A           — at 60 V rated value         10 A           — at 60 V rated value         4.7 A           — at 110 V rated value         1.2 A           — at 440 V rated value         0.5 A           — at 4300 V rated value         0.5 A           — at 440 V rated value         0.5 A           — at 800 V rated value         0.26 A           Installation/mounting/dimensions         sap-on mounting           fastening method         sap-on mounting           width         36.5 mm           height         37.5 mm           depth         41.5 mm           Connections/ Terminals         type of connectable conductor cross-sections           • for auxiliary contacts         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)           • at AWG cables for auxiliary contacts         2x (20 18), 2x (18 14)           • note         with 3RH1           Centertit				
• 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 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 110 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 460 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 450 V rated value — at 600 V rated value				
at 24 V rated value		0.071		
- at 60 V rated value		10 A		
- at 120 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 220 V rated value  - at 440 V rated value  - at 440 V rated value  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 A  - at 600 V rated value  - at 7.5 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 1110 V rated value     — at 220 V rated value     — at 240 V rated value     — at 440 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 440 V rated value - at 440 V rated value - at 600 V rated value -		0.170		
- at 60 V rated value - at 110 V rated value - at 120 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value	·	10 Δ		
- at 110 V rated value				
- 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 snap-on mounting width 36.5 mm height 41.5 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — finely stranded — 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  product function mirror contact acc. to IEC 60947-4-1 • note with 3RT1  product function positively driven operation acc. to IEC 60947-5-1 • note  General Product Approval  Functional Safety/Safety of Conformity				
Installation/ mounting/ dimensions  fastening method  width  height  depth  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  of or auxiliary contacts  — finely stranded  — with core end processing  at AWG cables for auxiliary contacts  product function mirror contact acc. to IEC 60947-4-1  onote  product function positively driven operation acc. to IEC 60947-5-1  onote  mith arror  with 3RH1  Functional  Safety/Safety of  Positration of  Conformity  Declaration of  Conformity				
Installation/ mounting/ dimensions  fastening method  width  36.5 mm  height  37.5 mm  depth  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — with core end processing  • at AWG cables for auxiliary contacts  product function mirror contact acc. to IEC 60947-4-1  • note  product function positively driven operation acc. to IEC 60947-5-1  • note  Certificates/ approvals  Functional Safety/Safety of  Conformity				
fastening method width 36.5 mm  height 37.5 mm  depth 41.5 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • for auxiliary contacts — finely stranded — with core end processing • at AWG cables for auxiliary contacts  product function mirror contact acc. to IEC 60947-4-1 • note  product function positively driven operation acc. to IEC 60947-5-1 • note  General Product Approval  snap-on mounting 36.5 mm 41.5 mm 27.5 mm 41.5 mm  27.5 mm 41.5 mm  28.7 (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  28.7 (20 16), 2x (18 14)  Yes with 3RT1  Functional Safety/Safety of Conformity		0.2071		
width  height  depth  27.5 mm  depth  41.5 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — with core end processing  • at AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  Safety related data  product function mirror contact acc. to IEC 60947-4-1  • note  product function positively driven operation acc. to IEC 60947-5-1  • note  General Product Approval  Functional Safety/Safety of Conformity		snap on mounting		
height 41.5 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — with core end processing  • at AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  Safety related data  product function mirror contact acc. to IEC 60947-4-1  • note  product function positively driven operation acc. to IEC 60947-5-1  • note  Certificates/ approvals  Functional Safety/Safety of Conformity				
depth 41.5 mm  Connections/ Terminals  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — 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  product function mirror contact acc. to IEC 60947-4-1 Yes  • note with 3RT1  product function positively driven operation acc. to IEC 60947-5-1  • note with 3RH1  Certificates/ approvals  Functional Safety/Safety of Conformity				
type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — with core end processing  • at AWG cables for auxiliary contacts  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  product function mirror contact acc. to IEC 60947-4-1  • note  product function positively driven operation acc. to IEC 60947-5-1  • note  Certificates/ approvals  Functional Safety/Safety of Conformity				
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circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — finely stranded  — with core end processing  • at AWG cables for auxiliary contacts  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  Safety related data  product function mirror contact acc. to IEC 60947-4-1  • note  product function positively driven operation acc. to IEC 60947-5-1  • note  with 3RT1  Yes  Certificates/ approvals  Functional Safety/Safety of Conformity		corow typo terminals		
• for auxiliary contacts     — finely stranded     — with core end processing     • at AWG cables for auxiliary contacts  Safety related data  product function mirror contact acc. to IEC 60947-4-1     • note  product function positively driven operation acc. to IEC 60947-5-1     • note  General Product Approval  • finely stranded  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  2x (20 16), 2x (18 14)  Yes  with 3RT1  Yes  with 3RH1  Functional Safety/Safety of Conformity		screw-type terrimais		
— finely stranded — with core end processing	type of connectable conductor cross-sections			
— finely stranded — with core end processing	for auxiliary contacts			
<ul> <li>with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)</li> <li>2x (20 16), 2x (18 14)</li> <li>Safety related data</li> <li>product function mirror contact acc. to IEC 60947-4-1</li> <li>note</li> <li>with 3RT1</li> <li>product function positively driven operation acc. to IEC 60947-5-1</li> <li>note</li> <li>with 3RH1</li> <li>Certificates/ approvals</li> <li>Functional Safety/Safety of Conformity</li> </ul>	-			
at AWG cables for auxiliary contacts     2x (20 16), 2x (18 14)  Safety related data  product function mirror contact acc. to IEC 60947-4-1     • note     with 3RT1  product function positively driven operation acc. to IEC 60947-5-1     • note     with 3RH1  Certificates/ approvals  Functional Safety/Safety of Conformity  Conformity	•	2x (0.5 1.5 mm²), 2x (0.75	5 2.5 mm²)	
Product function mirror contact acc. to IEC 60947-4-1  onote  in ote  with 3RT1  product function positively driven operation acc. to IEC 60947-5-1  onote  with 3RH1  Certificates/ approvals  Functional Safety/Safety of Conformity	at AWG cables for auxiliary contacts		•	
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note     with 3RT1  product function positively driven operation acc. to IEC 60947-5-1     note     with 3RH1  Certificates/ approvals  Functional Safety/Safety of Conformity  Conformity		Yes		
product function positively driven operation acc. to IEC 60947-5-1  • note  With 3RH1  Certificates/ approvals  Functional Safety/Safety of Conformity	•			
IEC 60947-5-1	product function positively driven operation acc. to	_		
Certificates/ approvals  Functional Safety/Safety of Conformity				
General Product Approval  Functional Safety/Safety of Conformity	• note	with 3RH1		
General Product Approval  Safety/Safety of Conformity	Certificates/ approvals			
General Product Approval  Safety/Safety of Conformity			Functional	Dealesstine f
Machinery	General Product Approval		Safety/Safety of	
			Machinery	













**Declaration of** Conformity

**Test Certificates** 

**Shipping Approval** 

**Miscellaneous** 

**Special Test Certificate** 

Type Test Certificates/Test Report







**Shipping Approval** 

other

Railway



Confirmation

Special Test Certificate

## **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=3RH1911-1HA12

Cax online generator

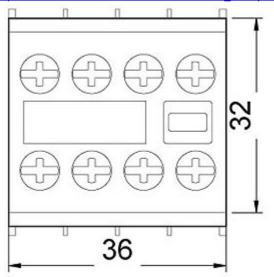
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1911-1HA12

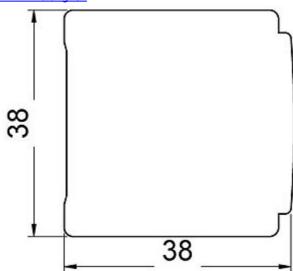
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH1911-1HA12

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH1911-1HA12&lang=en





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