## **SIEMENS**

Data sheet 3RH2911-1AA01



Auxiliary switch on the front, 1 NC Current path 1 NC Connection from top for 3RH and 3RT screw terminal 71/72

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 230 V typical 230 V typical 240 vision of the contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) 200 vision of the contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) 200 vision of the contact reliability contacts 200 vision of the contact 200 vision	Canaval tachnical data	
suitability for use protection class IP on the front IP20  ambient temperature	General technical data	OIDILIO
Protection class IP on the front   Protection   Protection class IP on the front	<u> </u>	
ambient temperature		
• during storage • during operation mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical contact reliability of auxiliary contacts insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value  Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching 0 number of NO contacts for auxiliary contacts • instantaneous contact • leading contact • leading contact • leading contact • leading contact • operational current of auxiliary contacts at AC-12 • at 24 V • at 230 V • maximum  operational current • of auxiliary contacts  - at AC-14 - at 125 V - at 250 V - at 240 V - at 230 V - at 240 V - at 250 V - at 270 V - at	•	IP20
• during operation	•	
mechanical service life (switching cycles) typical electrical endurance (switching cycles) at AC-15 at 230 V typical contact reliability of auxiliary contacts insulation voltage with degree of pollution 3 at AC rated value  Auxiliary circuit  number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact leading switching  number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact leading contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V at 230 V at 230 V at 250 V at 260 V at 260 V at 270 V	5 5	
electrical endurance (switching cycles) at AC-15 at 230 V typical  contact reliability of auxiliary contacts  insulation voltage with degree of pollution 3 at AC rated value  6 kV  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  leading contact  leading contact  operational current of auxiliary contacts at AC-12  at 24 V  at 230 V  maximum  operational current  of auxiliary contacts  — at AC-14  — at 125 V — at 250 V — at AC-15  — at 24 V — at 230 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15  — at 24 V — at 250 V — at AC-15 at 690 V rated value  operational current  of auxiliary contacts at DC-12		
230 V typical contact reliability of auxiliary contacts insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact   lagging switching   0   number of NO contacts for auxiliary contacts  instantaneous contact   0   leading contact   0   operational current of auxiliary contacts at AC-12  at 24 V   10 A   maximum   10 A   operational current  of auxiliary contacts  — at AC-14   — at 125 V   6 A   — at 250 V   — at 24 V   — at 230 V   — at 24 V   0 A		
insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  leading contact  oleading contact  operational current of auxiliary contacts at AC-12  at 24 V  at 230 V  maximum  operational current  of auxiliary contacts  — at AC-14  — at 125 V  — at 250 V  — at 250 V  — at 24 V  — at 230 V  — at 24 V  — at 250 V  — at 250 V  — at 250 V  — at 24 V  — at 250 V  — at 24 V  — at 250 V  — at 24 V  — at 250 V  — at	` ,	200 000
rated value  surge voltage resistance rated value  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  lagging switching  number of NO contacts for auxiliary contacts  instantaneous contact  leading contact  operational current of auxiliary contacts at AC-12  at 24 V  at 230 V  maximum  operational current  of auxiliary contacts  — at AC-14  — at 125 V — at 250 V — at 250 V — at AC-15 — at 24 V — at 230 V — at 240 V  at 240 V  at 250 V AC-15 AC-1	·	1 faulty switching per 100 million (17 V, 1 mA)
Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact lagging switching  number of NO contacts for auxiliary contacts instantaneous contact leading contacts le		690 V
number of NC contacts for auxiliary contacts  instantaneous contact lagging switching  number of NO contacts for auxiliary contacts instantaneous contact leading contact leading contact operational current of auxiliary contacts at AC-12 at 24 V at 230 V at 230 V amaximum load operational current of auxiliary contacts — at AC-14 — at 125 V — at 250 V — at 250 V — at 24 V  at 24 V  at 250 V A at 250 V A at 250 V A at 24 V A at 250 V A at	surge voltage resistance rated value	6 kV
instantaneous contact     ilagging switching     number of NO contacts for auxiliary contacts     instantaneous contact     instantaneous contacts at AC-12	Auxiliary circuit	
● lagging switching  number of NO contacts for auxiliary contacts  ● instantaneous contact  ● leading contact  O  operational current of auxiliary contacts at AC-12  ● at 24 V  ● at 230 V  ● maximum  Operational current  ● of auxiliary contacts  — at AC-14  — at 125 V — at 250 V — at 250 V — at 24 V — at 230 V — at 24 V — at 250 V — at 4 C-15 — at 24 V — at 230 V — at 400 V — at 400 V  Operational current  ● of auxiliary contacts at AC-12  AC-15 at 690 V rated value  Operational current  ● of auxiliary contacts at DC-12	number of NC contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts	<ul> <li>instantaneous contact</li> </ul>	1
<ul> <li>instantaneous contact</li> <li>leading contact</li> <li>operational current of auxiliary contacts at AC-12</li> <li>at 24 V</li> <li>at 230 V</li> <li>maximum</li> <li>operational current</li> <li>of auxiliary contacts</li> <li>— at AC-14</li> <li>— at 125 V</li> <li>— at 250 V</li> <li>— at AC-15</li> <li>— at 24 V</li> <li>— at 230 V</li> <li>— at 24 V</li> <li>— at 250 V</li> <li>A</li> <li>— at 26 A</li> <li>— at 27 A</li> <li>— at 27 A</li> <li>— at 28 A</li> <li>— at 27 A</li> <li>— at 27 A</li> <li>— at 27 A</li> <li>— at 28 A</li> <li>— at 29 A</li> <li>— at 400 V</li> <li>— at AC-15 at 690 V rated value</li> <li>operational current</li> <li>of auxiliary contacts at DC-12</li> </ul>	<ul> <li>lagging switching</li> </ul>	0
● leading contact  operational current of auxiliary contacts at AC-12  ● at 24 V	number of NO contacts for auxiliary contacts	
operational current of auxiliary contacts at AC-12	<ul> <li>instantaneous contact</li> </ul>	0
■ at 24 V     ■ at 230 V     ■ maximum     10 A      operational 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 400 V         ● at AC-15 at 690 V rated value     ● of auxiliary contacts at DC-12	leading contact	0
■ at 230 V     ■ maximum     10 A     10 A     10 A      operational current     ● of auxiliary contacts     — at AC-14     — at 125 V     — at 250 V     — at 250 V     — at AC-15     — at 24 V     — at 230 V     — at 400 V     ● at AC-15 at 690 V rated value     operational current     ● of auxiliary contacts at DC-12	operational current of auxiliary contacts at AC-12	
	• at 24 V	10 A
operational current	• at 230 V	10 A
<ul> <li>of auxiliary contacts         — at AC-14         — at 125 V         — at 250 V         — at AC-15         — at AC-15         — at 24 V         — at 230 V         — at 400 V         — at 400 V         • at AC-15 at 690 V rated value         of auxiliary contacts at DC-12</li> </ul>	maximum	10 A
- 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	operational current	
— 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	<ul> <li>of auxiliary contacts</li> </ul>	
— at 250 V — at AC-15 — at 24 V — at 230 V — at 400 V  • at AC-15 at 690 V rated value  operational current • of auxiliary contacts at DC-12	— at AC-14	
— at AC-15 — at 24 V 6 A — at 230 V 6 A — at 400 V 3 A	— at 125 V	6 A
— at 24 V 6 A — at 230 V 6 A — at 400 V 3 A	— at 250 V	6 A
— at 230 V — at 400 V 3 A	— at AC-15	
— at 400 V  • at AC-15 at 690 V rated value  1 A  operational current  • of auxiliary contacts at DC-12	— at 24 V	6 A
at AC-15 at 690 V rated value     operational current     of auxiliary contacts at DC-12	— at 230 V	6 A
operational current  • of auxiliary contacts at DC-12	— at 400 V	3 A
• of auxiliary contacts at DC-12	at AC-15 at 690 V rated value	1 A
	operational current	
— at 24 V	<ul> <li>of auxiliary contacts at DC-12</li> </ul>	
	— at 24 V	10 A

— at 110 V	3 A	
— at 220 V	1 A	
<ul> <li>with 2 current paths in series at DC-12</li> </ul>		
— 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	
<ul> <li>with 3 current paths in series at DC-12</li> </ul>		
— 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	
operational current	1.0 A	
of auxiliary contacts at DC-13		
	6. A	
— at 24 V	6 A	
— at 60 V	2 A	
— at 110 V	1 A	
— at 220 V	0.3 A	
<ul> <li>with 2 current paths in series at DC-13</li> </ul>		
— 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	
<ul> <li>with 3 current paths in series at DC-13</li> </ul>		
— 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		
fastening method	snap-on mounting	
width	23.6 mm	
height	27.5 mm	
depth	38.6 mm	
Connections/ Terminals		
type of electrical connection for auxiliary and control circuit	screw-type terminals	
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	(-0 10), (10 11)	
product function mirror contact acc. to IEC 60947-4-1	Yes	
• note	with 3RT2	
product function positively driven operation acc. to	Yes	
IEC 60947-5-1	160	
• note	with 3RH2	
Certificates/ approvals		
General Product Approval		EMC
Collectal Froduct Approval		LINO











**Declaration of Conformity** 

**Test Certificates** 

**Shipping Approval** 

**Miscellaneous** 



Type Test Certificates/Test Report

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

<u>KC</u>





**Shipping Approval** 





Confirmation

other

Vibration and Shock

Railway

Railway

**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=3RH2911-1AA01

Cax online generator

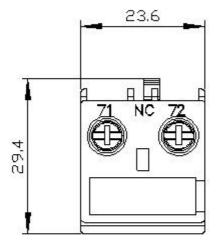
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2911-1AA01

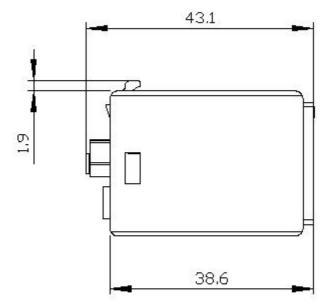
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

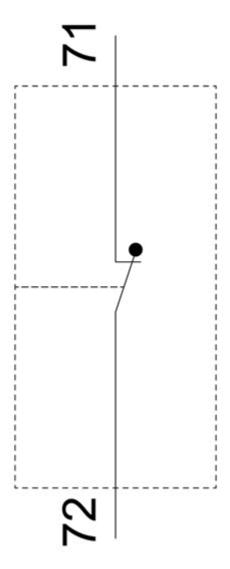
https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1AA01

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2911-1AA01&lang=en







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