## **SIEMENS**

Data sheet 3RH2911-1AA10



Auxiliary switch on the front, 1 NO Current path 1 NO Connection from top for 3RH and 3RT screw terminal  $73/74\,$ 

product brand name SIRIUS  suitability for use Protection class IP on the front IP20  ambient temperature  • during storage -55 +80 °C  • during operation Protection class IP on the front IP20  activated a value Protection Class IP on the front IP20  activated value Protection Prot	General technical data	
suitability for use		CIDILIC
Protection class IP on the front   IP20	· · · · · · · · · · · · · · · · · · ·	
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 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 250 V — at 240 V — at 250 V — at 240 V — at 250 V — at 250 V — at 270 V — at 27		
• during storage • during operation • 25 +60 °C • during operation • 10 000 000  200 000  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  0 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 400 V - at 400 V • at AC-15 at 690 V rated value  of auxiliary contacts at DC-12	•	
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 leading contact leading contact operational current of auxiliary contacts at AC-12 at 230 V at 250 V at 250 V  Auxiliary circuit  O  O  O  O  O  O  O  O  O  O  O  O  O	•	
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 insulation voltage switching  number of NC 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 230 V - at 230 V - at 24 V - at 230 V - at 24 V - at 250 V - at 24 V - at 250 V - at 27 V - at 28 V - at 27 V - at 27 V - at 28 V - at 27 V - at 28 V - at 48 V - at 28 V - at 48 V - at 28 V - at 28 V - at 48		
electrical endurance (switching cycles) at AC-15 at 230 V typical   1 faulty switching per 100 million (17 V, 1 mA)		
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 0 operational current of auxiliary contacts at AC-12 • at 24 V • at 230 V • maximum 10 A  operational current • of auxiliary contacts  — at AC-14 — at 125 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 st 690 V rated value  operational current • of auxiliary contacts at DC-12		
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  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 24 V  — at 230 V  — at 40 C  — 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  leading contact  operational current of auxiliary contacts at AC-12  at 24 V  at 230 V  maximum  noperational current  of auxiliary contacts  - at AC-14  - at 125 V  - at 250 V  - at AC-15  - at 24 V  - at 230 V  - 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 AC-15		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 contact  leading contact  operational current of auxiliary contacts at AC-12  at 24 V  at 230 V  amximum  operational current  of auxiliary contacts  — at AC-14  — at 125 V  — at 250 V  — at AC-15  — at 24 V  — at 230 V  — at 24 V  A C AC-15  — at 24 V  A C AC-15  — at 24 V  A C AC-15  — at 250 V  A C AC-15  A		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 maximum lo A operational current of auxiliary contacts — at AC-14 — at 125 V — at 250 V — at 250 V — at 24 V AC-15 — at 24 V AC-15 AC-15 at 690 V rated value of auxiliary contacts at AC-12 AC-15 at 690 V rated value of auxiliary contacts at AC-15 at 690 V rated value of auxiliary contacts at DC-12	surge voltage resistance rated value	6 kV
instantaneous contact     olagging switching     number of NO contacts for auxiliary contacts     instantaneous contact     oleading contact     orerational current of auxiliary contacts at AC-12     oleading contact     orerational current of auxiliary contacts at AC-12     oleading contact     oleading contact     oleading contact orerations of auxiliary contacts at AC-12     oleading contact orerations orerations or at 24 V     oleading contacts	Auxiliary circuit	
lagging switching   0	number of NC contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts	<ul> <li>instantaneous contact</li> </ul>	0
<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 400 V</li> <li>at AC-15 at 690 V rated value</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>	1
■ 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 230 V     — at 400 V     ● at AC-15 at 690 V rated value     ● of auxiliary contacts at DC-12     ■ of auxiliary contacts at DC-12	leading contact	0
<ul> <li>at 230 V</li> <li>maximum</li> <li>operational current</li> <li>of auxiliary contacts</li> <li>— at AC-14</li> <li>— at 250 V</li> <li>— at 250 V</li> <li>— at AC-15</li> <li>— at 24 V</li> <li>— at 230 V</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>	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 24 V         — at 230 V         — at 400 V         • at AC-15 at 690 V rated value         • of auxiliary contacts at DC-12</li> <li>6 A         — AC-15 at 690 V rated value         1 A</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  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 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 AC-15	
— at 400 V  • at AC-15 at 690 V rated value  • of auxiliary contacts at DC-12  3 A  1 A  1 A	— 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** 

Special Test Certificate Type Test
Certificates/Test
Report

<u>KC</u>





**Shipping Approval** 

other









Confirmation



Railway

Special Test Certificate Vibration and Shock

Special Test Certificate 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=3RH2911-1AA10

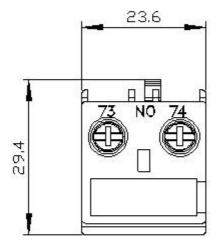
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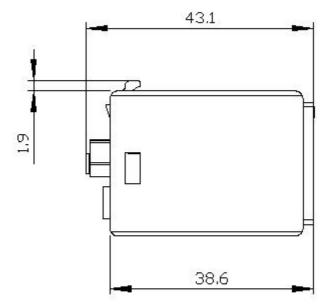
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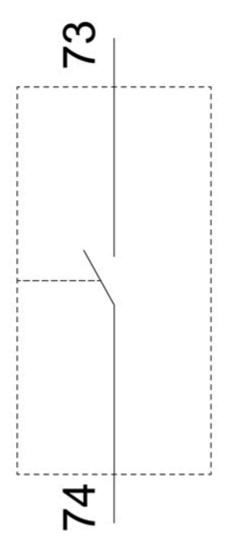
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1AA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2911-1AA10&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2911-1AA10&lang=en</a>







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