SIEMENS

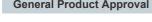
Data sheet 3RH2911-1HA13



Auxiliary switch on the front, 1 NO + 3 NC Current path 1 NC, 1 NC, 1 NC, 1 NO for 3RH and 3RT screw terminal .1/.2, .1/.2, .1/.2, .3/.4

Product brand name SIRUS Contactor relay and power contactor IP20 IP2	General technical data	
P20 P20 P20 P20	product brand name	SIRIUS
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 • 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 • at AC-14 — at 125 V — at 250 V - at 4C-15 — at 24 V — at 230 V • at AC-15 — at 24 V — at 230 V • at AC-15 — at 24 V — at 230 V • at AC-15 — at 24 V — at 230 V • at AC-15 — at 24 V — at 230 V • of auxiliary contacts at DC-12 • at 24 V — at 20 V • of auxiliary contacts at DC-12 • at 24 V — at 20 V • at AC-15 — at 24 V — at 20 V • at AC-15 at 900 V rated value operational current • of auxiliary contacts at DC-12 • at 24 V — at 110 V — at 220 V • with 2 current paths in series at DC-12	suitability for use	Contactor relay and power contactor
• 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 • 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 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 — at 24 V • at 230 V • at AC-15 at 690 V rated value operational current • of auxiliary contacts at DC-12 — at 24 V • at 220 V • with 2 current paths in series at DC-12 • with 2 current paths in series at DC-12 • with 2 current paths in series at DC-12	protection class IP on the front	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 voitage with degree of pollution 3 at AC rated value auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact lagging switching lagging 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 maximum of auxiliary contacts of auxiliary contacts —at 25 L. +60 °C 10 0000000 10 0000000 10 0000000 10 0000000 10 0000000 10 00000000	ambient temperature	
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 insulantaneous contact insulantaneous c	 during storage 	-55 +80 °C
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 66 kV Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 3 algaging switching 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	 during operation 	-25 +60 °C
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 instantaneous conta	mechanical service life (switching cycles) typical	10 000 000
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 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 250 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 30 V — at AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 — at 24 V — at 110 V — at 110 V — at 110 V — at 120 V with 2 current paths in series at DC-12		200 000
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 0 operational current of auxiliary contacts — at AC-14 — at 125 V — at 250 V — at 250 V — 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 24 V — at 250 V at 400 V at AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 — at 24 V — at 24 V — at 250 V — at 400 V at AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 — at 24 V — at 250 V — at 220 V at 20 V output load 1 A output load l	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts for auxiliary contacts		690 V
number of NC contacts for auxiliary contacts	surge voltage resistance rated value	6 kV
instantaneous contact ilagging switching number of NO contacts for auxiliary contacts instantaneous contact instantaneous contacts instantaneo	Auxiliary circuit	
• lagging switching number of NO contacts for auxiliary contacts • instantaneous contact 1 • leading contact 0 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 250 V 6 A — at 230 V 6 A — at 230 V 3 A • at AC-15 at 690 V rated value 1 A operational current • of auxiliary contacts at DC-12 — at 220 V 10 A — at 220 V 1 A • with 2 current paths in series at DC-12	number of NC contacts for auxiliary contacts	
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 4C-14 — at 125 V — at 250 V 6 A — at 250 V 6 A — at 250 V 6 A — at 400 V 9 at 400 V 3 A • at AC-15 at 690 V rated value operational current • of auxiliary contacts at DC-12 — at 24 V 9 at 10 A operational current • of auxiliary contacts at DC-12 — at 220 V 10 A 10 A 11 A 12 A 13 A 14 A 15 A 16 A 17 A 18	 instantaneous contact 	3
 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 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 24 V — at 24 V operational current of auxiliary contacts at DC-12 — at 220 V with 2 current paths in series at DC-12 	 lagging switching 	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 • 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 400 V • at AC-15 at 690 V rated value of auxiliary contacts at DC-12 — at 24 V — at 220 V • with 2 current paths in series at DC-12	 instantaneous contact 	1
 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 AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 — at 24 V of auxiliary contacts at DC-12 — at 24 V owith 2 current paths in series at DC-12 	 leading contact 	0
 at 230 V maximum operational current of auxiliary contacts — at AC-14 — at 250 V — at AC-15 — at 24 V — at 400 V at AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 — at 24 V — at 24 V 0 A 10 A 11 A with 2 current paths in series at DC-12 	operational current of auxiliary contacts at AC-12	
• maximum operational current • of auxiliary contacts — at AC-14 — at 125 V 6 A — at 250 V 6 A — at 24 V 6 A — at 230 V 6 A — at 400 V 3 A • at AC-15 at 690 V rated value of auxiliary contacts at DC-12 — at 24 V 10 A operational current • of auxiliary contacts at DC-12 — at 220 V 1 A • with 2 current paths in series at DC-12	● at 24 V	10 A
operational current	• at 230 V	10 A
• 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 — at 24 V — at 220 V • with 2 current paths in series at DC-12 6 A 6 A 7 6 A 7 7 8 A 10 A 7 8 A 10 A A A A A A A A A A A A A A A A A A A	• maximum	10 A
- 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 operational current • of auxiliary contacts at DC-12 - at 24 V - at 110 V - at 120 V • with 2 current paths in series 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 - at 24 V 10 A - at 110 V 3 A - at 220 V • with 2 current paths in series at DC-12	,	
- 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 24 V - at 110 V - at 220 V with 2 current paths in series at DC-12	— at AC-14	
- 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 24 V - at 110 V - at 220 V • with 2 current paths in series at DC-12		
- 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		6 A
- at 230 V - 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 - at 110 V - at 220 V ■ with 2 current paths in series at DC-12		
— at 400 V ■ at AC-15 at 690 V rated value operational current ■ of auxiliary contacts at DC-12 — at 24 V — at 110 V — at 120 V ■ with 2 current paths in series at DC-12		
 at AC-15 at 690 V rated value operational current of auxiliary contacts at DC-12 at 24 V at 110 V at 220 V with 2 current paths in series at DC-12 		
operational current		
 of auxiliary contacts at DC-12 — at 24 V — at 110 V — at 220 V with 2 current paths in series at DC-12 		1 A
 — at 24 V — at 110 V — at 220 V ■ with 2 current paths in series at DC-12 	•	
 — at 110 V — at 220 V • with 2 current paths in series at DC-12 		
 — at 220 V • with 2 current paths in series at DC-12 		
• with 2 current paths in series at DC-12		
·		1 A
at 24 V rated value	·	
— at 24 v rated value	— 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		
 with 3 current paths in series at DC-12 			
— 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			
of auxiliary contacts at DC-13			
— at 24 V	6 A		
— at 60 V	2 A		
— at 110 V	1 A		
— at 220 V	0.3 A		
 with 2 current paths in series at DC-13 	0.071		
— 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		
with 3 current paths in series at DC-13	0.174		
— 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	0.2071		
	e e		
fastening method	snap-on mounting		
width	36 mm		
height	37.5 mm		
depth	43.7 mm		
Connections/ Terminals			
type of electrical connection for auxiliary and control	screw-type terminals		
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 according to IEC 60947-4-1	Yes		
• note	with 3RT2		
product function positively driven operation according to IEC 60947-5-1	Yes		
• note	with 3RH2		
Certificates/ approvals			
General Product Approval			
Concrair Foddot Approval			







Confirmation







EMC Functional Safety/Safety of	Test Certificates	Marine / Shipping
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Type Examination Certificate

Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other

Railway

Environmental Confirmations



Type Test Certificates/Test Report

Vibration and Shock **Special Test Certific-**<u>ate</u>

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=3RH2911-1HA13

Cax online generator

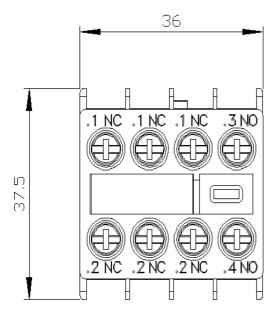
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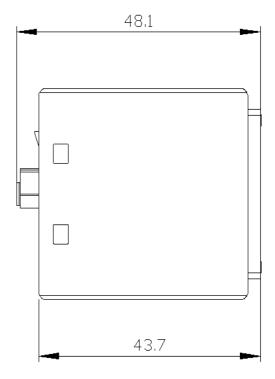
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1HA13

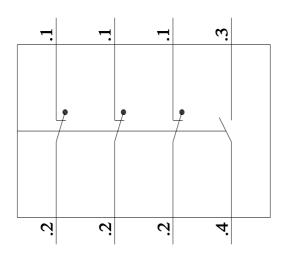
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

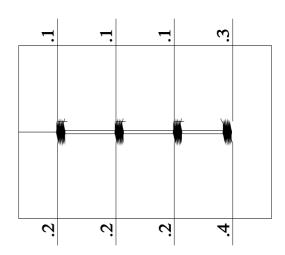
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3RT2 3RH2





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