SIEMENS

Data sheet

3RH2911-1FA22-0MA0



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

product brand nameSIRIUSsuitability for useContactor relay and power contactorprotection class IP on the frontIP20ambient temperature• during storage $-55 \dots +80$ °C• during operation $-25 \dots +80$ °Cmechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at200 000230 V typical0000 000contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC rated value6 kVAuxiliary circuit0number of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0• unstantaneous contact2• lading contact2• instantaneous contact2• lading contact2• at 230 V10 A• at 230 V10 A• maximum10 A• operational current6 A• at 250 V6 A• at AC-156 A	General technical data	
protection class IP on the frontIP20ambient temperature-• during storage-55 +80 °C• during operation-25 +60 °Cmechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at200 000230 V typical200 000contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC690 Vrated value6 kVAuxiliary circuit0number of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0• unstantaneous contact2• ladging contact0• ladging contact0• at 24 V10 A• at 230 V10 A• at 24 V10 A• at 250 V10 A• at 250 V6 A- at 125 V6 A- at 250 V6 A- at AC-156 A	product brand name	SIRIUS
ambient temperature-55 +80 °C• during storage-55 +60 °C• during operation-25 +60 °Cmechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at200 000230 Vtypical600 Vcontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC690 Vrated value6 kVAuxiliary circuitnumber of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0number of NC contacts for auxiliary contacts2• lading contact2• lading contact2• lading contact2• lading contact0operational current of auxiliary contacts at AC-120• at 230 V10 A• at 230 V10 A• of auxiliary contacts	suitability for use	Contactor relay and power contactor
• during storage-55 +80 °C• during operation-25 +60 °Cmechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at200 000230 V typical200 000contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC690 Vattact value6 kVAuxiliary circuit0number of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0number of NO contacts for auxiliary contacts2• instantaneous contact2• ladging contact0operational current of auxiliary contacts at AC-120• leading contact0• at 230 V10 A• at 230 V10 A• maximum10 A• operational current6 A• of auxiliary contacts6 A• at 250 V6 A• at 250 V6 A• at 250 V6 A• at 250 V6 A• at AC-156 A	protection class IP on the front	IP20
• during operation $-25 \dots +60 \ ^{\circ}C$ mechanical service life (operating cycles) typical10 000 000electrical endurance (operating cycles) at AC-15 at200 000230 V typicalcontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value6 kVAuxiliary circuit690 Vnumber of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0number of NO contacts for auxiliary contacts2• instantaneous contact2• ladging contact0operational current of auxiliary contacts at AC-120• at 230 V10 A• at 230 V10 A• of auxiliary contacts-10 A• of auxiliary contacts-10 A• at 250 V6 A	ambient temperature	
terms of NC contacts for auxiliary contacts $a t 230 V$ 10 000 000 $a t 230 V$ $b A$ $a t 125 V$ $b A$ $a t 125 V$ $b A$ $a t 250 V$ $b A$ $a t AC-15$ $b A$ </th <th> during storage </th> <th>-55 +80 °C</th>	 during storage 	-55 +80 °C
electrical endurance (operating cycles) at AC-15 at 230 V typical200 000230 V typical1 faulty switching per 100 million (17 V, 1 mA)insulation voltage with degree of pollution 3 at AC rated value690 Vsurge voltage resistance rated value 6 kV Auxiliary circuit 6 kV number of NC contacts for auxiliary contacts • instantaneous contact2• lagging switching • instantaneous contact0• instantaneous contact2• ladding contact0operational current of auxiliary contacts at AC-120• at 24 V10 A• at 230 V10 A• maximum10 A• of auxiliary contacts • maximum6A- at 250 V - at 250 V - at 250 V6A- at AC-156A	 during operation 	-25 +60 °C
230 V typical 1 faulty switching per 100 million (17 V, 1 mA) insulation voltage with degree of pollution 3 at AC 690 V surge voltage resistance rated value 6 kV Auxiliary circuit 6 kV number of NC contacts for auxiliary contacts 2 instantaneous contact 2 isigging switching 0 number of NC contacts for auxiliary contacts 2 isigating switching 0 number of NO contacts for auxiliary contacts 2 isigating switching 0 number of NC contacts for auxiliary contacts 2 isigating switching 0 operational current of auxiliary contacts at AC-12 0 at 24 V 10 A at 230 V 10 A eat 230 V 10 A operational current 0 of auxiliary contacts 6 A - at 125 V 6 A - at 250 V 6 A - at 250 V 6 A - at AC-15 6 A	mechanical service life (operating cycles) typical	10 000 000
insulation voltage with degree of pollution 3 at AC 690 ∨ surge voltage resistance rated value 6 k∨ Auxiliary circuit 6 k∨ number of NC contacts for auxiliary contacts 2 • lagging switching 0 number of NO contacts for auxiliary contacts 0 • instantaneous contact 2 • lagging switching 0 number of NO contacts for auxiliary contacts 0 • instantaneous contact 2 • ladging contact 0 operational current of auxiliary contacts at AC-12 0 • at 24 ∨ 10 A • at 230 ∨ 10 A • maximum 10 A • of auxiliary contacts - • of auxiliary contacts - • at 250 ∨ 6 A - at 125 ∨ 6 A - at 250 ∨ 6 A - at AC-15 6 A		200 000
rated value6 kVAuxiliary circuitnumber of NC contacts for auxiliary contacts• instantaneous contact2• lagging switching0number of NO contacts for auxiliary contacts• instantaneous contact2• lagging switching0number of NO contacts for auxiliary contacts2• instantaneous contact2• leading contact0operational current of auxiliary contacts at AC-120• at 24 V10 A• at 230 V10 A• maximum10 Aoperational current- at AC-14- at AC-14- at 125 V- at 250 V6 A- at AC-156 A		1 faulty switching per 100 million (17 V, 1 mA)
Auxiliary circuit number of NC contacts for auxiliary contacts • instantaneous contact 2 • lagging switching 0 number of NO contacts for auxiliary contacts 0 • instantaneous contact 2 • ladding contact 0 operational current of auxiliary contacts at AC-12 0 • at 24 V 10 A • at 230 V 10 A • maximum 10 A operational current - at AC-14 - at AC-14 - at 125 V - at 250 V 6 A - at AC-15 6 A		690 V
number of NC contacts for auxiliary contacts2• instantaneous contact2• lagging switching0number of NO contacts for auxiliary contacts2• instantaneous contact2• leading contact0operational current of auxiliary contacts at AC-120• at 24 V10 A• at 230 V10 A• maximum10 A• of auxiliary contacts- at AC-14- at AC-14- at 125 V• at 250 V6 A- at AC-156 A	surge voltage resistance rated value	6 kV
\bullet instantaneous contact2 \bullet lagging switching0 number of NO contacts for auxiliary contacts 2 \bullet instantaneous contact2 \bullet leading contact0 operational current of auxiliary contacts at AC-12 10 A \bullet at 24 V10 A \bullet at 230 V10 A \bullet maximum10 A operational current - \bullet of auxiliary contacts- $-$ at 125 V6 A $-$ at 250 V6 A $-$ at AC-15-	Auxiliary circuit	
\bullet lagging switching0number of NO contacts for auxiliary contacts $\bullet instantaneous contact2\bullet leading contact0operational current of auxiliary contacts at AC-12\bullet at 24 V10 A\bullet at 230 V10 A\bullet maximum10 Aoperational current- at AC-14- at 125 V- at 250 V6 A- at 250 V6 A- at AC-15<$	number of NC contacts for auxiliary contacts	
number of NO contacts for auxiliary contacts2• instantaneous contact2• leading contact0operational current of auxiliary contacts at AC-1210 A• at 24 V10 A• at 230 V10 A• maximum10 Aoperational current10 A• of auxiliary contacts6 A- at 125 V6 A- at 250 V6 A- at AC-156 A		
\bullet instantaneous contact2 \bullet leading contact0operational current of auxiliary contacts at AC-1210 A \bullet at 24 V10 A \bullet at 230 V10 A \bullet maximum10 Aoperational current10 A \bullet of auxiliary contacts10 A $-$ at AC-14- at 125 V $-$ at 250 V6 A $-$ at AC-156 A		0
elading contact0operational current of auxiliary contacts at AC-1210 A• at 24 V10 A• at 230 V10 A• maximum10 A• operational current10 A• of auxiliary contacts at AC-14 at 125 V6 A- at 250 V6 A- at AC-15-		
operational current of auxiliary contacts at AC-1210 A• at 24 V10 A• at 230 V10 A• maximum10 Aoperational current10 A• of auxiliary contacts- at AC-14- at 125 V6 A- at 250 V6 A- at AC-156 A		
$ \begin{array}{c} 10 \ \text{A} \\ \hline \begin{array}{c} \text{operational current} \\ \text{of auxiliary contacts} \\ - \text{at AC-14} \\ - \text{at } 125 \ \text{V} \\ - \text{at } 250 \ \text{V} \\ - \text{at } 250 \ \text{V} \\ - \text{at } AC-15 \end{array} $	0	0
 at 230 V maximum operational current of auxiliary contacts - at AC-14 - at 125 V - at 250 V - at AC-15 6 A 		
 maximum operational current of auxiliary contacts - at AC-14 - at 125 V - at 250 V - at AC-15 6 A 		
operational current • of auxiliary contacts — at AC-14 — at 125 V — at 250 V — at AC-15		
 of auxiliary contacts at AC-14 at 125 V at 250 V AC-15 		10 A
- at AC-14 - at 125 V 6 A - at 250 V 6 A - at AC-15	•	
- at 125 V 6 A - at 250 V 6 A - at AC-15		
— at 250 V 6 A — at AC-15		
— at AC-15		
		o A
— at 24 V 6 A		6.4
at 230 V 6 A		
- at 230 V 6 A		
• at AC-15 at 690 V rated value 1 A		
operational current		
of auxiliary contacts at DC-12	•	
- at 24 V 10 A		10 Δ
— at 110 V 3A		
— at 10 V 3A		
• with 2 current paths in series at DC-12		
- at 24 V rated value 10 A		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	10.1	
— 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	6 A	
— at 24 V — 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 	0.0 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 440 V rated value	0.2 A	
— at 600 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		
Installation/ mounting/ dimensions fastening method	snap-on mounting	
Installation/ mounting/ dimensions fastening method width	snap-on mounting 36 mm	
fastening method width		
fastening method	36 mm	
fastening method width height depth	36 mm 37.5 mm	
fastening method width height depth Connections/ Terminals	36 mm 37.5 mm 43.7 mm	
fastening method width height depth	36 mm 37.5 mm	
fastening method width height depth Connections/ Terminals type of electrical connection for auxiliary and control	36 mm 37.5 mm 43.7 mm	
fastening method width height depth Connections/ Terminals type of electrical connection for auxiliary and control circuit	36 mm 37.5 mm 43.7 mm	
fastening method width height depth Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	36 mm 37.5 mm 43.7 mm	
fastening method width height 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	36 mm 37.5 mm 43.7 mm	
fastening method width height depth Connections/ Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • for auxiliary contacts — finely stranded	36 mm 37.5 mm 43.7 mm screw-type terminals	
fastening method width height 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	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
fastening method width height 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	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
fastening method width height 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 Safety related data	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14)	
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) Yes with 3RT2	
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes	
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes	
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) Yes with 3RT2	
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fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes	EMC
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note Certificates/ approvals	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes	EMC
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note Certificates/ approvals	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes with 3RH2	EMC
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note Certificates/ approvals General Product Approval	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes with 3RH2	EMC
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fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note Certificates/ approvals General Product Approval	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes with 3RH2	EMC
fastening method width height depth Connections/Terminals type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections e for auxiliary contacts - finely stranded - with core end processing e at AWG cables for auxiliary contacts Safety related data product function mirror contact according to IEC 60947-4-1 e note product function positively driven operation according to IEC 60947-5-1 e note Certificates/ approvals General Product Approval Image: Confirmation Image: Confirmation	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes with 3RH2	RCM
fastening method width height 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 Safety related data product function mirror contact according to IEC 60947-4-1 • note product function positively driven operation according to IEC 60947-5-1 • note Certificates/ approvals General Product Approval	36 mm 37.5 mm 43.7 mm screw-type terminals 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) Yes with 3RT2 Yes with 3RH2	EMC EMC Marine / Shipping

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Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RH2911-1FA22-0MA0

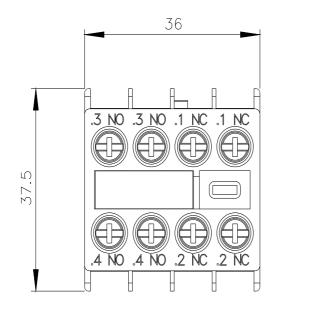
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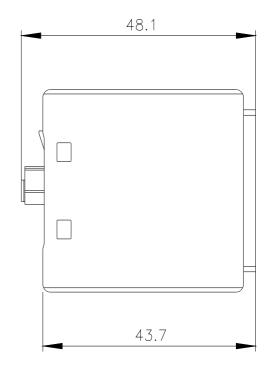
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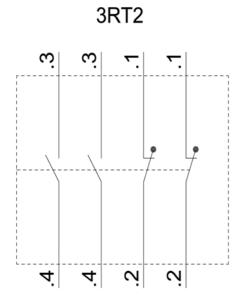
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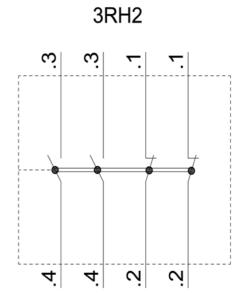
https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1FA22-0MA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH2911-1FA22-0MA0&lang=en</u>









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