SIEMENS

Data sheet

3RH2911-1HA01



AUX.SWITCH BLOCK,FRONT, 1NC, CURR.PATH: 1NC, F. CONT. RELAYS A. MOTOR CONT., 3RT2 SCREW TERMINAL .1 / .2

product brand name SIRIUS Suitability for use Contactor relay and power contactor Protection class IP on the front IP20 Ambient temperature IP20 • during storage °C -55 +80 • during operation °C -25 +60 Mechanical service life (switching cycles) typical 10 000 000 Electrical endurance (switching cycles) at AC-15 at 230 V typical 200 000 Contact reliability one incorrect switching operation of 100 million switching operations (17 V, 1 mA) Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Insulation voltage with degree of pollution 3 Rated value V 690 Surge voltage resistance Rated value KV 6 Auxiliary circuit: 0 0 Number of NC contacts for auxiliary contacts 1 0 • instantaneous contact 0 0 • lagging switching 0 0 Perating current of the auxiliary contacts at AC-12 0 0 • at 24 V A 10 0	General technical data:		
Protection class IP on the front IP20 Ambient temperature °C -55 +80 • during operation °C -25 +60 Mechanical service life (switching cycles) typical 10 000 000 Electrical endurance (switching cycles) at AC-15 at 230 V typical 200 000 Contact reliability one incorrect switching operation of 100 million switching operations (17 V, 1 mA) Contact reliability of the auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) Insulation voltage with degree of pollution 3 Rated value V 690 Surge voltage resistance Rated value kV 6 Auxiliary circuit: 1 1 Number of NC contacts for auxiliary contacts 1 1 • instantaneous contact 1 0 • instantaneous contact 0 0 • leading contact 0 0 • leading contact 0 0	product brand name		SIRIUS
Ambient temperature ************************************	Suitability for use	-	Contactor relay and power contactor
• during storage • during operation°C-55 +80• during operation°C-25 +60Mechanical service life (switching cycles) typical10 000 000Electrical endurance (switching cycles) at AC-15 at 230 V typical200 000Contact reliabilityone incorrect switching operation of 100 million switching operations (17 V, 1 mA)Contact reliability of the auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:11Number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching10Number of NO contacts for auxiliary contacts • instantaneous contact00• instantaneous contact • leading contact00• instantaneous contact • leading contact00• perating current of the auxiliary contacts at AC-1200	Protection class IP on the front	-	IP20
• during operation°C-25 +60• during operation°C-25 +60Mechanical service life (switching cycles) typical10 000 000Electrical endurance (switching cycles) at AC-15 at 230 V typical200 000Contact reliabilityone incorrect switching operation of 100 million switching operations (17 V, 1 mA)Contact reliability of the auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:Insulation contacts for auxiliary contacts1Number of NC contacts for auxiliary contacts10• instantaneous contact00• instantaneous contact00• leading contact00• leading contact00• leading contact00• leading current of the auxiliary contacts at AC-120	Ambient temperature	_	
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Electrical endurance (switching cycles) at AC-15 at 230 V typical200 000Contact reliabilityone incorrect switching operation of 100 million switching operations (17 V, 1 mA)Contact reliability of the auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:11Number of NC contacts for auxiliary contacts11Insulation synthemic01Number of NO contacts for auxiliary contacts0Instantaneous contact0Instantaneous contact0Instant	 during operation 	°C	-25 +60
230 V typicalImage: contact reliabilityImage: contact reliabilityContact reliabilityone incorrect switching operation of 100 million switching operations (17 V, 1 mA)Contact reliability of the auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:690690Number of NC contacts for auxiliary contacts1• instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts0• instantaneous contact0• lagding contact0• leading contact0	Mechanical service life (switching cycles) typical	-	10 000 000
Contact reliability of the auxiliary contactsswitching operations (17 V, 1 mA)Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:66Number of NC contacts for auxiliary contacts • instantaneous contact • lagging switching1Number of NO contacts for auxiliary contacts • instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts • instantaneous contact0• lagging switching0Operating contact0• leading contact0• leading contact0			200 000
Insulation voltage with degree of pollution 3 Rated valueV690Surge voltage resistance Rated valuekV6Auxiliary circuit:KV6Number of NC contacts for auxiliary contacts1• instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts0• instantaneous contact0• instantaneous contact0• lagging switching0• operating contact0• leading contact0• leading contact0• leading contact0• leading contact0• leading current of the auxiliary contacts at AC-12•	Contact reliability	_	
valueKV6Surge voltage resistance Rated valueKV6Auxiliary circuit:1Number of NC contacts for auxiliary contacts1• instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts0• instantaneous contact0• lagding contact0• instantaneous contact0• instantaneous contact0• leading contact0	Contact reliability of the auxiliary contacts	-	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 • instantaneous contact • instantaneous contact • leading contact Operating current of the auxiliary contacts at AC-12		V	690
Number of NC contacts for auxiliary contacts1• instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts0• instantaneous contact0• leading contact0• Derating current of the auxiliary contacts at AC-120	Surge voltage resistance Rated value	kV	6
• instantaneous contact1• lagging switching0Number of NO contacts for auxiliary contacts0• instantaneous contact0• leading contact0Operating current of the auxiliary contacts at AC-12I	Auxiliary circuit:		
• lagging switching0• lagging switching0• instantaneous contacts for auxiliary contacts0• instantaneous contact0• leading contact0• Operating current of the auxiliary contacts at AC-12•	Number of NC contacts for auxiliary contacts		
Number of NO contacts for auxiliary contacts 0 • instantaneous contact 0 • leading contact 0 Operating current of the auxiliary contacts at AC-12 Image: Contact of the auxiliary contacts at AC-12	 instantaneous contact 		1
• instantaneous contact 0 • leading contact 0 Operating current of the auxiliary contacts at AC-12 •	 lagging switching 		0
leading contact o leading current of the auxiliary contacts at AC-12	Number of NO contacts for auxiliary contacts		
Operating current of the auxiliary contacts at AC-12	 instantaneous contact 		0
	 leading contact 		0
• at 24 V A 10	Operating current of the auxiliary contacts at AC-12		
	• at 24 V	А	10

• at 230 V	А	10
• maximum	А	10
Operating current		
• of the auxiliary contacts		
— at AC-14		
— at 125 V	A	6
— at 250 V	А	6
— at AC-15		
— at 24 V	А	6
— at 230 V	А	6
— at 400 V	А	3
• at AC-15 at 690 V Rated value	А	1
Operating current		
 with 2 current paths in series at DC-12 		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	10
— at 110 V Rated value	А	4
— at 220 V Rated value	А	2
— at 440 V Rated value	А	1.3
— at 600 V Rated value	А	0.65
 with 3 current paths in series at DC-12 		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	10
— at 110 V Rated value	А	10
— at 220 V Rated value	А	3.6
— at 440 V Rated value	А	2.5
— at 600 V Rated value	А	1.8
Operating current		
 of the auxiliary contacts at DC-13 		
— at 24 V	А	6
— at 60 V	А	2
— at 110 V	А	1
— at 220 V	А	0.3
 with 2 current paths in series at DC-13 		
— at 24 V Rated value	А	10
— at 60 V Rated value	А	3.5
— at 110 V Rated value	А	1.3
— at 220 V Rated value	А	0.9
— at 440 V Rated value	А	0.2
— at 600 V Rated value	А	0.1
 with 3 current paths in series at DC-13 		

— at 24 V Rated value	А	10
— at 60 V Rated value	А	4.7
— at 110 V Rated value	А	3
— at 220 V Rated value	А	1.2
— at 440 V Rated value	А	0.5
— at 600 V Rated value	А	0.26

Installation/ mounting/ dimensions:			
Mounting type		snap-on mounting	
Width	mm	36	
Height	mm	37.5	
Depth	mm	43.7	

Connections/ Terminals:			
Type of electrical connection for auxiliary and control	screw-type terminals		
current circuit			
Type of connectable conductor cross-section			
 for auxiliary contacts 			
— finely stranded			
— with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG conductors 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 3RT2		
Product function positively driven operation acc. to	Yes		
IEC 60947-5-1			
Note	with 3RH2		
Cortificates/ approvals:			
Certificates/ approvals:			

General Produc	t Approval			Declaration of Conformity	Test Certificates
	(SA) CSA	EHC		EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>
Test	Shipping App	oroval			
Certificates					
Special Test Certificate	ABS	B U R E A U V E R I T A S		GL	Lloyd's Kegister _{LRS}
Shipping Approval		other			
PRS	RINA	RMRS	Environmental Confirmations		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH29111HA01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH29111HA01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH29111HA01&lang=en

