SIEMENS

Data sheet

3RH2911-4GA22



AUX.SWITCH BLOCK,FRONT,2NO+2NC, CURR.PATH: 1NO, 1NC, 1NC, 1NO, FOR CONTACTOR RELAYS, SZ S00, RING CABLE LUG CONNECTION 53 / 54,61 / 62,71 / 72,83 / 84

General technical data:		
product brand name		SIRIUS
Suitability for use	-	Contactor relay
Protection class IP on the front	-	IP20
Ambient temperature		
 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:		
Number of NC contacts for auxiliary contacts		
 instantaneous contact 		2
 lagging switching 		0
Number of NO contacts for auxiliary contacts		
 instantaneous contact 		2
 leading contact 		0
Operating current of the auxiliary contacts at AC-12		
• at 24 V	А	10

• at 230 V A 10 • maximum A 10 Operating current - at AC-14 - at AC-14 - at 125 V A 6 - at 25 V A 6 - at 20 V A 6 - at 400 V A 6 - at 20 V Rated value A 10 - at 20 V Rated value A 05 - at 40 V Rated value A 10 - at 20 V Rated value <th></th> <th></th> <th></th>			
Operating current Image: contacts - of the auxiliary contacts - - at AC-14 A - at 25 V A - at 25 V A - at AC-15 - - at AC-15 - - at AC-15 - - at 230 V A - at 230 V A - at 400 V A - at 400 V A - at 400 V Rated value A - at 400 V Rated value A - at 400 V Rated value A - at 24 V Rated value A - at 24 V Rated value A - at 24 V Rated value A - at 400 V Rated value A - at 400 V Rated value A - at 400 V Rated value A - at 20 V Rated value A - at 400 V Rated value A - at 60 V Rated value A - at 400 V Rated value A - at 20 V Rated value A - at 20 V Rated value A - at 400 V Rated value	• at 230 V	A	10
• of the auxiliary contacts		A	10
-at AC.14 A 6 $-at 250 V$ A 6 $-at 250 V$ A 6 $-at 250 V$ A 6 $-at 24 V$ A 6 $-at 230 V$ A 6 $-at 230 V$ A 6 $-at 400 V$ A 3 $-at 400 V$ A 3 $-at 400 V$ Rated value A 1 Operating current A 10 $-at 24 V$ Rated value A 10 $-at 60 V$ Rated value A 10 $-at 240 V$ Rated value A 10 $-at 200 V$ Rated value A 1.3 $-at 600 V$ Rated value A 0.655 $-at 600 V$ Rated value A 10 $-at 600 V$ Rated value A 10 $-at 410 V$ Rated value A 10 $-at 410 V$ Rated value A 10 $-at 420 V$ Rated value A 1.3 $-at 600 V$ Rated value A 1.4 $-at 600 V$ Rated value A 1.4			
at 125 VA6at 250 VA6at 250 VA6at 24 VA6at 230 VA3at 240 VA3at 400 VA3at 400 VA1Operating oursertA10at 24 V Rated valueA10at 24 V Rated valueA10at 24 V Rated valueA10at 24 V Rated valueA2at 440 V Rated valueA10at 500 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA10at 24 V Rated valueA10at 200 V Rated valueA18at 600 V Rated valueA18at 600 V Rated valueA6at 600 V Rated valueA10at 220 VA0.3at 220 VA0.3at 424 V Rated valueA6at 600 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA10at 600 V Rated valueA <td>-</td> <td></td> <td></td>	-		
	— at AC-14		
	— at 125 V	А	6
- at 24 VA6- at 230 VA6- at 400 VA3• at AC:15 at 690 V Rated valueA1Operating current-• with 2 current paths in series at DC-12 at 24 V Rated valueA10- at 60 V Rated valueA10- at 110 V Rated valueA4- at 220 V Rated valueA2- at 440 V Rated valueA0.65• with 3 current paths in series at DC-12 at 60 V Rated valueA10- at 60 V Rated valueA10- at 440 V Rated valueA10- at 440 V Rated valueA10- at 60 V Rated valueA10- at 40 V Rated valueA10- at 20 V Rated valueA18Operating current• of the auxiliary contacts at DC-13 at 20 VA2- at 110 VA1- at 220 VA0.3• with 2 current paths in series at DC-13 at 220 VA10- at 220 VA10- at 220 V Rated valueA10- at 220 V Rated valueA1.3- at 220 V Rated valueA1.3- at 220 V Rated valueA1.3- at 220 V Rated valueA1.3 <td>— at 250 V</td> <td>А</td> <td>6</td>	— at 250 V	А	6
at 230 V A 6 at 400 V A 3 • at AC-15 at 690 V Rated value A 1 Operating current • with 2 current paths in series at DC-12 A 10 at 24 V Rated value A 10 at 60 V Rated value A 4 at 220 V Rated value A 4 at 220 V Rated value A 2 at 400 V Rated value A 0.655 • with 3 current paths in series at DC-12 - - at 600 V Rated value A 10 at 410 V Rated value A 10 at 600 V Rated value A 10 at 600 V Rated value A 10 at 600 V Rated value A 2.5 at 600 V Rated value A 6 at 600 V Rated value A 6 at 60 V A 2 at 60 V A 2 at 60 V A 1 at 60	— at AC-15		
	— at 24 V	А	6
• at AC-15 at 690 V Rated valueA1Operating current• with 2 current paths in series at DC-12 at 24 V Rated valueA10- at 60 V Rated valueA10- at 10 V Rated valueA2- at 440 V Rated valueA1.3- at 440 V Rated valueA0.65• with 3 current paths in series at DC-12 at 24 V Rated valueA10- at 24 V Rated valueA10- at 24 V Rated valueA10- at 40 V Rated valueA10- at 24 V Rated valueA10- at 24 V Rated valueA10- at 60 V Rated valueA10- at 60 V Rated valueA10- at 220 V Rated valueA3.6- at 440 V Rated valueA1.8Operating current• of the auxiliary contacts at DC-13 at 220 VA6- at 220 VA0.3• at 220 VA0.3• at 420 VA6- at 60 VA1- at 220 VA0.3• with 2 current paths in series at DC-13 at 220 VA10- at 220 VA10- at 220 VA3.5- at 220 VA3.5- at 220 VA10- at 220 V Rated valueA3.5- at 110 V Fated valueA3.5- at 120 V Rated va	— at 230 V	А	6
Operating currentA• with 2 current paths in series at DC-12A- at 24 V Rated valueA- at 60 V Rated valueA- at 100 V Rated valueA- at 110 V Rated valueA- at 220 V Rated valueA- at 440 V Rated valueA- at 600 V Rated valueA- at 220 V Rated valueA- at 600 V Rated valueA- at 24 VA- at 60 V- at 24 VA- at 220 V- at 110 VA- at 220 V- at 220 VA- at 220 V- at 60 V Rated value- at 220 V- at 60 V Rated value- at 60 V Rated value- at 220 V- at 60 V Rated value- at 60 V Rated value- at 60 V Rated value- at 220 V- at 60 V Rated value- at 60 V Rated value- at 60 V Rated value- at 220 V- at 60 V Rated value- at	— at 400 V	А	3
• with 2 current paths in series at DC-12I $-$ at 24 V Rated valueA10 $-$ at 60 V Rated valueA4 $-$ at 220 V Rated valueA2 $-$ at 440 V Rated valueA1.3 $-$ at 600 V Rated valueA0.65• with 3 current paths in series at DC-12- $-$ at 24 V Rated valueA10 $-$ at 24 V Rated valueA10 $-$ at 600 V Rated valueA10 $-$ at 440 V Rated valueA10 $-$ at 24 V Rated valueA10 $-$ at 24 V Rated valueA10 $-$ at 24 V Rated valueA10 $-$ at 200 V Rated valueA10 $-$ at 440 V Rated valueA2.5 $-$ at 600 V Rated valueA1.8Operating current $-$ at 24 VA6 $-$ at 60 VA2 $-$ at 24 VA6 $-$ at 220 VA0.3 $-$ at 220 VA1 $-$ at 220 VA1 $-$ at 24 VA6 $-$ at 24 VA6 $-$ at 24 VA1 $-$ at 24 VA1 $-$ at 24 VA1 $-$ at 220 VA1 $-$ at 220 VA3.5 $-$ at 110 V Rated valueA1.3 $-$ at 220 V Rated valueA1.3 $-$ at 220 V Rated valueA1.3 $-$ at 220 V Rated valueA0.9	 at AC-15 at 690 V Rated value 	А	1
$-$ at 24 V Rated valueA10 $-$ at 60 V Rated valueA4 $-$ at 110 V Rated valueA4 $-$ at 220 V Rated valueA2 $-$ at 440 V Rated valueA1.3 $-$ at 600 V Rated valueA0.65 \cdot with 3 current paths in series at DC-12 $ -$ at 24 V Rated valueA10 $-$ at 60 V Rated valueA10 $-$ at 60 V Rated valueA10 $-$ at 60 V Rated valueA3.6 $-$ at 440 V Rated valueA2.5 $-$ at 440 V Rated valueA1.8 $-$ at 24 VA6 $-$ at 24 VA6 $-$ at 24 VA1.1 $-$ at 24 VA3.5 $-$ at 24 VA1.1 $-$ at 220 V Rated valueA1.1 $-$ at 24 VA6 $-$ at 20 VA0.3 $-$ at 20 VA1.1 $-$ at 20 VA1.1 $-$ at 20 V Rated valueA1.1 $-$ at 20 VA0.3 $-$ at 60 V Rated valueA1.1 $-$ at 21 V V Rated valueA1.1 $-$ at 220 V Rated valueA1.1 $-$ at 220 V Rated valueA1.1 $-$ at 220 V Rated valueA1.3 $-$ at 440 V Rated valueA1.3 $-$ at 440 V Rated valueA1.3 $-$ at 440 V Rated valueA0.9 $-$ at 440 V Rated valueA0.9	Operating current	-	
	 with 2 current paths in series at DC-12 		
In the formation of the	— at 24 V Rated value	А	10
$-at 220 \vee$ Rated valueA2 $-at 440 \vee$ Rated valueA1.3 $-at 600 \vee$ Rated valueA0.65• with 3 current paths in series at DC-12- $-at 24 \vee$ Rated valueA10 $-at 60 \vee$ Rated valueA10 $-at 60 \vee$ Rated valueA10 $-at 110 \vee$ Rated valueA3.6 $-at 440 \vee$ Rated valueA2.5 $-at 60 \vee$ Rated valueA1.8Operating current $-at 22 \vee$ A6 $-at 60 \vee$ A2 $-at 60 \vee$ A2 $-at 60 \vee$ A1 $-at 24 \vee$ A6 $-at 20 \vee$ A0.3 $+ with 2 current paths in series at DC-13--at 20 \veeA3.5-at 21 \veeA10-at 220 \veeA0.3+ with 2 current paths in series at DC-13--at 220 \veeA0.3+ with 2 current paths in series at DC-13--at 21 \vee Vated valueA10-at 220 \veeA0.3+ with 2 current paths in series at DC-13--at 20 \vee Rated valueA1.3-at 20 \vee Rated valueA1.3-at 20 \vee Rated valueA0.9-at 40 \vee Rated valueA0.9-at 440 \vee Rated valueA0.2-at 440 \vee Rated valueA0.2-at 440 \vee Rated valueA0.2-at 440 \vee Rated valueA<$	— at 60 V Rated value	А	10
$-at 440 \vee Rated value$ A1.3 $-at 600 \vee Rated value$ A0.65• with 3 current paths in series at DC-12- $-at 24 \vee Rated value$ A10 $-at 60 \vee Rated value$ A10 $-at 60 \vee Rated value$ A10 $-at 110 \vee Rated value$ A3.6 $-at 440 \vee Rated value$ A2.5 $-at 600 \vee Rated value$ A1.8Operating current $-at 24 \vee$ A6 $-at 24 \vee$ A6 $-at 60 \vee Rated value$ A1 $-at 60 \vee Rated value$ A6 $-at 24 \vee$ A6 $-at 60 \vee$ A2 $-at 110 \vee$ A1 $-at 20 \vee$ A0.3 $+ with 2 current paths in series at DC-13--at 220 \veeA0.3-at 20 \veeA10-at 220 \veeA0.3+ with 2 current paths in series at DC-13--at 24 \vee Rated valueA10-at 20 \veeA0.3+ with 2 current paths in series at DC-13--at 20 \veeA10-at 21 \vee V Rated valueA1.3-at 22 \vee V Rated valueA1.3-at 22 \vee V Rated valueA1.3-at 440 \vee Rated valueA0.9-at 440 \vee Rated valueA0.2-at 440 \vee Rated valueA0.2-at 440 \vee Rated valueA0.1$	— at 110 V Rated value	А	4
	— at 220 V Rated value	А	2
 with 3 current paths in series at DC-12 at 24 V Rated value at 60 V Rated value at 10 V Rated value at 10 V Rated value at 10 V Rated value at 220 V Rated value A 3.6 at 440 V Rated value A 2.5 at 600 V Rated value A 1.8 Operating current of the auxiliary contacts at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 220 V A Current paths in series at DC-13 at 424 V Rated value A Current paths in series at DC-13 A A Current paths in series at DC-13 A Current paths in series at DC-13 A A Current paths in series at DC-13 Current paths in series at DC-13 Current paths in se	— at 440 V Rated value	А	1.3
- at 24 V Rated valueA10- at 60 V Rated valueA10- at 110 V Rated valueA3.6- at 220 V Rated valueA2.5- at 440 V Rated valueA1.8Operating current at 24 VA6- at 60 VA2- at 60 VA2- at 60 VA1- at 220 VA0.3- at 220 VA1- at 220 VA3.5- at 60 V Rated valueA1.3- at 220 VA3.5- at 60 V Rated valueA1.3- at 220 V Rated valueA1.3- at 220 V Rated valueA1.3- at 110 V Rated valueA1.3- at 220 V Rated valueA1.3- at 400 V Rated valueA1.3- at 220 V Rated valueA0.9- at 110 V Rated valueA0.9- at 400 V Rated valueA0.2- at 400 V Rated valueA0.2- at 400 V Rated valueA0.1	— at 600 V Rated value	А	0.65
at 60 V Rated valueA10 at 110 V Rated valueA10 at 220 V Rated valueA3.6 at 440 V Rated valueA2.5 at 600 V Rated valueA1.8Operating current at 24 VA6 at 60 VA2 at 60 VA2 at 60 VA1 at 110 VA1 at 220 VA0.3 at 24 V Rated valueA10 at 24 V Rated valueA10 at 24 V Rated valueA1.3 at 24 V Rated valueA3.5 at 110 V Rated valueA1.3 at 24 V Rated valueA0.9 at 24 V Rated valueA0.9 at 240 V Rated valueA0.2 at 240 V Rated valueA0.1	 with 3 current paths in series at DC-12 		
at 110 V Rated valueA10 at 220 V Rated valueA3.6 at 440 V Rated valueA2.5 at 600 V Rated valueA1.8Operating current	— at 24 V Rated value	А	10
- at 220 V Rated valueA3.6- at 440 V Rated valueA2.5- at 600 V Rated valueA1.8Operating current-• of the auxiliary contacts at DC-13 at 24 VA6- at 60 VA2- at 110 VA1- at 220 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA10- at 24 V Rated valueA3.5- at 24 V Rated valueA1.3- at 24 V Rated valueA0.9- at 440 V Rated valueA0.2- at 440 V Rated valueA0.2- at 600 V Rated valueA0.2	— at 60 V Rated value	А	10
- at 440 V Rated valueA2.5- at 600 V Rated valueA1.8Operating current-• of the auxiliary contacts at DC-13 at 24 VA6- at 60 VA2- at 110 VA1- at 220 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA3.5- at 20 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA10- at 24 V Rated valueA3.5- at 110 V Rated valueA1.3- at 20 V Rated valueA0.9- at 440 V Rated valueA0.2- at 600 V Rated valueA0.2- at 600 V Rated valueA0.1	— at 110 V Rated value	А	10
- at 600 V Rated valueA1.8Operating current • of the auxiliary contacts at DC-13 at 24 VA6- at 24 VA2- at 60 VA2- at 110 VA1- at 220 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA10- at 20 V Rated valueA3.5- at 20 V Rated valueA1.3- at 20 V Rated valueA0.9- at 440 V Rated valueA0.2- at 440 V Rated valueA0.2- at 600 V Rated valueA0.1	— at 220 V Rated value	А	3.6
Operating currentImage: Constraint of the auxiliary contacts at DC-13Image: Constraint of the auxiliary contacts at DC-13- at 24 VA6- at 60 VA2- at 10 VA1- at 220 VA0.3• with 2 current paths in series at DC-13	— at 440 V Rated value	А	2.5
 of the auxiliary contacts at DC-13 - at 24 V - at 60 V - at 110 V - at 110 V - at 220 V A 0.3 • with 2 current paths in series at DC-13 - at 24 V Rated value A 10 - at 60 V Rated value A 3.5 - at 110 V Rated value A 1.3 - at 220 V Rated value A 0.9 - at 440 V Rated value A 0.2 - at 600 V Rated value A 0.1 	— at 600 V Rated value	А	1.8
- at 24 V A 6 - at 60 V A 2 - at 10 V A 1 - at 220 V A 0.3 • with 2 current paths in series at DC-13 - - at 24 V Rated value A 10 - at 60 V Rated value A 3.5 - at 110 V Rated value A 1.3 - at 220 V Rated value A 0.9 - at 440 V Rated value A 0.2 - at 600 V Rated value A 0.2	Operating current		
at 60 V A 2 at 110 V A 1 at 220 V A 0.3 • with 2 current paths in series at DC-13 - at 24 V Rated value A 10 at 60 V Rated value A 3.5 at 110 V Rated value A 1.3 at 220 V Rated value A 0.9 at 440 V Rated value A 0.2 at 600 V Rated value A 0.1	 of the auxiliary contacts at DC-13 		
at 110 VA1 at 220 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA10 at 60 V Rated valueA3.5 at 110 V Rated valueA1.3 at 220 V Rated valueA0.9 at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	— at 24 V	А	6
- at 220 VA0.3• with 2 current paths in series at DC-13 at 24 V Rated valueA- at 24 V Rated valueA- at 60 V Rated valueA- at 110 V Rated valueA- at 220 V Rated valueA- at 440 V Rated valueA- at 440 V Rated valueA- at 600 V Rated valueA at 600 V Rated valueA	— at 60 V	А	2
 with 2 current paths in series at DC-13 at 24 V Rated value at 60 V Rated value A 3.5 at 110 V Rated value A 1.3 at 220 V Rated value A 0.9 at 440 V Rated value A 0.2 at 600 V Rated value A 0.1 	— at 110 V	А	1
at 24 V Rated valueA10 at 60 V Rated valueA3.5 at 110 V Rated valueA1.3 at 220 V Rated valueA0.9 at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	— at 220 V	А	0.3
at 60 V Rated valueA3.5 at 110 V Rated valueA1.3 at 220 V Rated valueA0.9 at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	 with 2 current paths in series at DC-13 		
at 110 V Rated valueA1.3 at 220 V Rated valueA0.9 at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	— at 24 V Rated value	А	10
at 220 V Rated valueA0.9 at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	— at 60 V Rated value	А	3.5
at 440 V Rated valueA0.2 at 600 V Rated valueA0.1	— at 110 V Rated value	А	1.3
— at 600 V Rated value A 0.1	— at 220 V Rated value	А	0.9
	— at 440 V Rated value	А	0.2
• with 3 current paths in series at DC-13	— 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 current circuit	ring cable connection
Safety related data:	
Product function Mirror contact acc. to IEC 60947-4-1	No
Product function positively driven operation acc. to	Yes
IEC 60947-5-1	

Note

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Certificates/ approvals:

CSA

General Product Approval				Declaration of	Test
				Conformity	Certificates
					Special Test
(\mathbf{m})	(SP)	LUI	(U ₁)	(Certificate

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with 3RH2

EG-Konf.

Certificates Type Test	CAN				
Type Test	CAN D				
Certificates/Test Report	ABS	BUREAU VERITAS	ĴÅ DNV DNV	GL GL	Lloyd's Register LRS
Shipping Approva	l		other		



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