SIEMENS

Product data sheet 3RH1911-2GA31

AUXILIARY SWITCH BLOCK, 71E, 3NO+1NC, DIN EN50011, CAGE CLAMP CONNECTION FOR CONTACTOR RELAYS, 4-POLE

General technical data:		
product brand name		SIRIUS
Acceptability for application		Contactor relay and power contactor
Protection class IP / on the front		IP20
Ambient temperature		
during storage	°C	-55 + 80
during operating	°C	-25 +60
Mechanical operating cycles as operating time		
• typical		10,000,000
Electrical operating cycles as operating time / at AC-15 / at 230 V		
• typical		200,000
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 5 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
Impulse voltage resistance		
rated value	kV	6

Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		
• instantaneous switching		1
Number of NO contacts / for auxiliary contacts		
• instantaneous switching		3
Operating current / of the auxiliary contacts / at AC-12		
• at 24 V	Α	10
• at 230 V	Α	10
• maximum	Α	10
Operating current		
of the auxiliary contacts		
• at AC-14		

- at 250 \ - at AC-15 - at 24 \ - at 230 \ A	• at 125 V	Α	6
- at 24 V	• at 250 V	Α	6
- at 230 V - at 400 V - at 400 V - at 400 V - at 400 V - at 650 V Describing current - with 2 current paths in series / at DC-12 - at 24 V / rated value - at 60 V / rated value - at 400 V / rated value - at 400 V / rated value - at 400 V / rated value - at 440 V / rated value - at 60 V / rated value - at 20 V / rated value - at 600 V / rated value - at 60 V	• at AC-15		
- at 400 V - at AC-15 / at 690 V Operating current - with 2 current paths in series / at DC-12 - at 24 V / rated value - at 60 V / rated value - at 600 V / rated value - at 600 V / rated value - at 60 V / rated value - a	• at 24 V	А	6
• at AC-15 / at 690 V Operating current • with 2 current paths in series / at DC-12 • at 24 V / rated value • at 60 V / rated value • at 100 V / rated value • at 220 V / rated value • at 220 V / rated value • at 600 V / rated value • at 100 V / rated value • at 200 V / rated value • at 600 V	• at 230 V	А	6
Operating current • with 2 current paths in series / at DC-12 • at 24 V / rated value A 10 • at 60 V / rated value A 10 • at 110 V / rated value A 4 • at 220 V / rated value A 2 • at 440 V / rated value A 1.3 • at 600 V / rated value A 10 • at 24 V / rated value A 10 • at 220 V / rated value A 10 • at 220 V / rated value A 10 • at 220 V / rated value A 2.5 • at 440 V / rated value A 1.8 • of the auxiliary contacts / at DC-13 A 1.8 • at 600 V / rated value A 2 • at 110 V A 1 • at 220 V A 0.3 • with 2 current paths in series / at DC-13 A 1.0 • at 24 V / rated value A 1.3 • at 220 V / rated value A 1.3 • at 110 V / rated value A 1.0 •	• at 400 V	Α	3
• with 2 current paths in series / at DC-12 • at 24 V / rated value • at 60 V / rated value • at 100 / rated value • at 110 V / rated value • at 110 V / rated value • at 220 V / rated value • at 220 V / rated value • at 220 V / rated value • at 600 V / rated value • at 110 V / rated value • at 110 V / rated value • at 440 V / rated value • at 440 V / rated value • at 440 V / rated value • at 600 V / rated value • at 220 V	• at AC-15 / at 690 V	Α	1
• at 24 V / rated value	Operating current		
• at 60 V / rated value	• with 2 current paths in series / at DC-12		
• at 110 V / rated value	• at 24 V / rated value	Α	10
• at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-12 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 110 V / rated value • at 220 V / rated value • at 600 V / rated value • at 60 V / rated value • at 110 V • at 220 V • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 40 V / rated value • at 60 V / rated value	• at 60 V / rated value	Α	10
• at 440 V / rated value	• at 110 V / rated value	Α	4
• at 600 V / rated value • with 3 current paths in series / at DC-12 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • of the auxiliary contacts / at DC-13 • at 24 V • at 60 V • at 110 V • at 220 V • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 440 V / rated value • at 600 V / rat	• at 220 V / rated value	Α	2
 with 3 current paths in series / at DC-12 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 110 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value at 600 V / rated value at 600 V / rated value at 24 V at 60 V at 110 V at 110 V at 220 V at 110 V at 220 V with 2 current paths in series / at DC-13 at 24 V / rated value at 24 V / rated value at 3.5 at 24 V / rated value at 110 V / rated value at 110 V / rated value at 110 V / rated value at 220 V / rated value at 110 V / rated value at 220 V / rated value at 220 V / rated value at 24 V / rated value at 24 V / rated value at 220 V / rated value at 24 V / rated value at 25 V / rated value at 26 V / rated value at 27 V / rated value at 27 V / rated value at 28 V / rated value at 29 V / rated value at 29 V / rated value at 20 V / rated value at 20 V / rated value at 21 V / rated value at 21 V /	• at 440 V / rated value	Α	1.3
• at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • of the auxiliary contacts / at DC-13 • at 24 V • at 60 V • at 110 V • at 220 V • at 110 V • at 220 V • at 110 V • at 220 V • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 440 V / rated value • at 440 V / rated value • at 440 V / rated value • at 600 V / rated value • at 110 V / rated value • at 600 V / rated value • at 110 V / rated value	• at 600 V / rated value	Α	0.65
* at 60 V / rated value	• with 3 current paths in series / at DC-12		
 * at 110 V / rated value * at 220 V / rated value * at 440 V / rated value * at 600 V / rated value * of the auxiliary contacts / at DC-13 * at 24 V * at 600 V * at 110 V * at 110 V * at 220 V * with 2 current paths in series / at DC-13 * at 24 V / rated value * at 110 V / rated value * at 110 V / rated value * at 20 V / rated value * at 20 V / rated value * at 10 V / rated value * at 10 V / rated value * at 20 V / rated value * at 440 V / rated value * at 600 V / rated value * at 600 V / rated value * at 24 V / r	• at 24 V / rated value	Α	10
 at 220 V / rated value at 440 V / rated value at 600 V / rated value A 1.8 Operating current of the auxiliary contacts / at DC-13 at 24 V at 60 V at 110 V at 220 V with 2 current paths in series / at DC-13 at 24 V / rated value at 10 V / rated value at 110 V / rated value at 20 V / rated value at 20 V / rated value at 10 V / rated value at 20 V / rated value at 440 V / rated value at 60 V / rated value at 60 V / rated value at 24 V / rated value at 3 	• at 60 V / rated value	Α	10
at 440 V / rated value at 600 V / rated value A 1.8 Operating current of the auxiliary contacts / at DC-13 at 24 V A 6 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 3.5 at 110 V / rated value A 1.3 at 20 V / rated value A 0.9 at 440 V / rated value A 0.9 at 440 V / rated value A 0.1 with 3 current paths in series / at DC-13 at 42 V / rated value A 0.1 at 460 V / rated value A 0.2 at 460 V / rated value A 0.1 with 3 current paths in series / at DC-13 at 60 V / rated value A 0.1 with 3 current paths in series / at DC-13 at 60 V / rated value A 0.1 at 60 V / rated value A 0.1	• at 110 V / rated value	Α	10
• at 600 V / rated value Operating current • of the auxiliary contacts / at DC-13 • at 24 V • at 60 V • at 110 V • at 220 V • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 20 V / rated value • at 20 V / rated value • at 440 V / rated value • at 600 V / rated value • at 400 V / rated value • at 600 V / rated value • at 400 V / rated value • at 600 V / rated value • at 60 V / rated value • at 110 V / rated value • at 3	• at 220 V / rated value	Α	3.6
Operating current • of the auxiliary contacts / at DC-13 • at 24 V A 6 • 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 A 10 • at 24 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 • with 3 current paths in series / at DC-13 A 10 • at 24 V / rated value A 10 • at 60 V / rated value A 4.7 • at 110 V / rated value A 4.7 • at 110 V / rated value A 3	• at 440 V / rated value	Α	2.5
of the auxiliary contacts / at DC-13 at 24 V at 60 V A 2 at 110 V at 220 V 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 0.9 at 440 V / rated value A 0.9 at 600 V / rated value A 0.1 with 3 current paths in series / at DC-13 at 24 V / rated value A 0.9 at 600 V / rated value A 0.4 at 600 V / rated value A 0.5 at 110 V / rated value A 0.1 with 3 current paths in series / at DC-13 at 24 V / rated value A 0.1 at 110 V / rated value A 10 at 60 V / rated value A 10 at 60 V / rated value A 10 at 60 V / rated value A 10 at 110 V / rated value A 10 A 10	• at 600 V / rated value	Α	1.8
 at 24 V at 60 V at 110 V at 220 V with 2 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 220 V / rated value at 240 V / rated value at 600 V / rated value at 600 V / rated value at 24 V / rated value at 3 at 24 V / rated value at 3 at 24 V / rated value at 3 at 3 at 3 at 3 at 4.7 at 110 V / rated value at 3 	Operating current		
 at 60 V at 110 V A 1 at 220 V 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 with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value A 10 at 60 V / rated value A 4.7 at 110 V / rated value A 3 	• of the auxiliary contacts / at DC-13		
 at 110 V at 220 V with 2 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 220 V / rated value at 220 V / rated value at 60 V / rated value at 60 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 110 V / rated value at 3 	• at 24 V	Α	6
• at 220 V • with 2 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 220 V / rated value • at 220 V / rated value • at 220 V / rated value • at 440 V / rated value • at 600 V / rated value • with 3 current paths in series / at DC-13 • at 24 V / rated value • at 60 V / rated value • A • A 4.7	• at 60 V	Α	2
 with 2 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 60 V / rated value at 110 V / rated value at 110 V / rated value at 3 	• at 110 V	Α	1
 at 24 V / rated value at 60 V / rated value at 110 V / rated value at 220 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 60 V / rated value at 10 at 110 V / rated value at 110 V / rated value at 3 	• at 220 V	Α	0.3
 at 60 V / rated value at 110 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 60 V / rated value at 110 V / rated value at 3.5 A 0.9 A 0.1 With 3 current paths in series / at DC-13 A 10 A 4.7 A 3 	 with 2 current paths in series / at DC-13 		
 at 110 V / rated value at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 60 V / rated value at 110 V / rated value at 3 	• at 24 V / rated value	А	10
 at 220 V / rated value at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value A 3 	• at 60 V / rated value	Α	3.5
 at 440 V / rated value at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value A 3 	• at 110 V / rated value	Α	1.3
 at 600 V / rated value with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value A 3 	• at 220 V / rated value	A	0.9
 with 3 current paths in series / at DC-13 at 24 V / rated value at 60 V / rated value at 110 V / rated value A 3 	• at 440 V / rated value	Α	0.2
 at 24 V / rated value at 60 V / rated value at 110 V / rated value A 3 	• at 600 V / rated value	Α	0.1
 at 60 V / rated value at 110 V / rated value A 3 	• with 3 current paths in series / at DC-13		
• at 110 V / rated value A 3	• at 24 V / rated value	Α	10
	• at 60 V / rated value	A	4.7
• at 220 V / rated value A 1.2	at 110 V / rated value	A	3
	• at 220 V / rated value	Α	1.2

• at 440 V / rated value A 0.5

• at 600 V / rated value A 0.26

Installation/ mounting/ dimensions:		
Mounting type		snap-on mounting
Width	mm	36.5
Height	mm	37.5
Depth	mm	46

Connections/ terminals:	
Design of the electrical connection	
for auxiliary and control current circuit	spring-loaded terminals
Type of the connectable conductor cross-section	
for auxiliary contacts	
finely stranded	
 with conductor end processing 	2x (0.5 1.5 mm²)
 without conductor final cutting 	2x (0.5 2.5 mm²)
• for AWG conductors / for auxiliary contacts	2x (20 14)

Safety:	
Product function / mirror contact to IEC 60947-4-1	Yes
• comment	with 3RT1
Product function / positively driven operation to IEC 60947-5-1	Yes
• comment	with 3RH1

Certificates/ approvals:

General Product Approval

Functional Safety / Safety of Machinery Declaration of Conformity









Type Examination



Test Certificates

Special Test Certificate

Shipping Approval







Lloyd Registe





other

other

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/industrial-controls/mall

Cax online generator

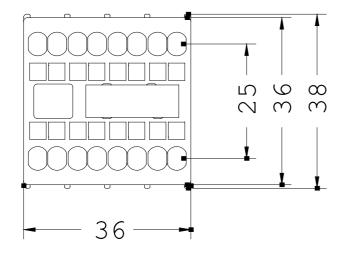
http://www.siemens.com/cax

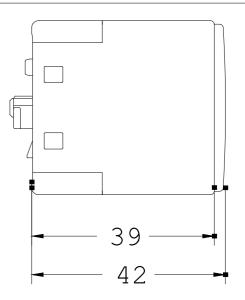
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RH1911-2GA31/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1911-2GA31





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