



AUX.SWITCH BLOCK,FRONT,3NO+1NC,
CURR.PATH: 1NO, 1NC, 1NO, 1NO, FOR
CONTACTOR RELAYS, SZ S00, SCREW TERMINAL
53 / 54,61 / 62,73 / 74,83 / 84

General technical data:

product brand name		SIRIUS
Suitability for use		Contact 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		1
• lagging switching		0
Number of NO contacts for auxiliary contacts		
• instantaneous contact		3
• leading contact		0
Operating current of the auxiliary contacts at AC-12		
• at 24 V	A	10

• at 230 V	A	10
• maximum	A	10
Operating current		
• of the auxiliary contacts		
— at AC-14		
— at 125 V	A	6
— at 250 V	A	6
— at AC-15		
— at 24 V	A	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		
— 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	0.65
• with 3 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	10
— 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 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	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
• with 3 current paths in series at DC-13		

— at 24 V Rated value	A	10
— at 60 V Rated value	A	4.7
— at 110 V Rated value	A	3
— at 220 V Rated value	A	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
Height	mm	37.5
Depth	mm	43.7

Connections/ Terminals:

Type of electrical connection for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — finely stranded — with core end processing • for AWG conductors for auxiliary contacts 		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14)

Safety related data:

Product function Mirror contact acc. to IEC 60947-4-1		No
Product function positively driven operation acc. to IEC 60947-5-1		Yes
<ul style="list-style-type: none"> • Note 		with 3RH2

Certificates/ approvals:

General Product Approval				Declaration of Conformity	Test Certificates
 CCC	 CSA		 UL	 EG-Konf.	Type Test Certificates/Test Report

Test Certificates	Shipping Approval				
Special Test Certificate	 ABS	 BUREAU VERITAS	 DNV	 GL	 LRS

Shipping Approval	other				
 PRS	 RINA	 RMRS	Environmental Confirmations	 VDE	

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=3RH29111GA31>

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

<http://support.automation.siemens.com/WW/view/en/3RH29111GA31/all>

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

<http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RH29111GA31&lang=en>

