





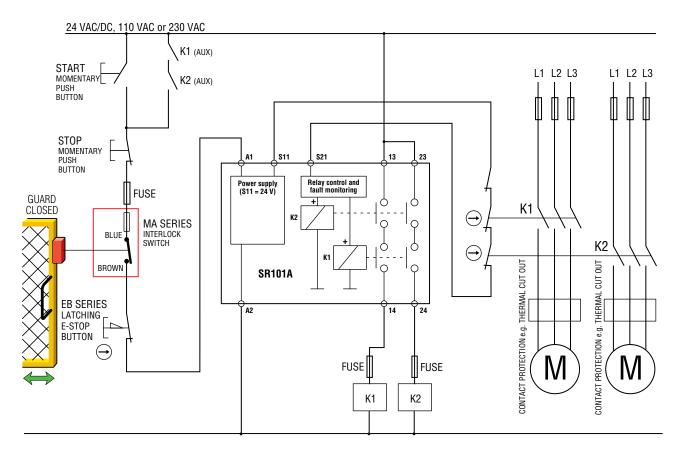
SR101A

Single-Channel Safety Monitoring Relay

- Power requirements—the SR101A will accept 24 VAC/DC, 115 VAC, or 230 VAC
- Inputs—a single N/C input channel, not monitored, is provided
- Outputs—the SR101A has two N/O outputs to route power to the coils of power contactors
- External Device Monitoring (EDM) is provided with a N/C loop between S11 and S21 on the SR101A
- Reset mode—an automatic reset mode is provided with the SR101A



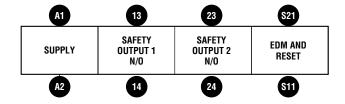
Application



Output Contact Arrangements



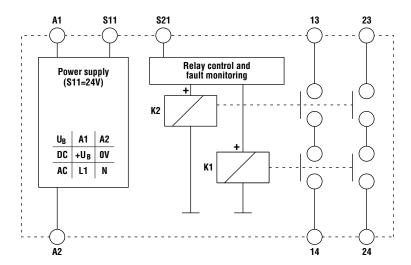
Terminal Connections



Terminal Pin Assignments

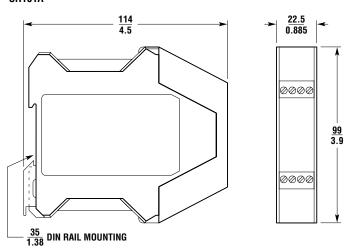
ſ	0	S11	A1	0
	\bigcirc	14	13	
	\bigcirc	24	23	
	0	A2	S21	

■ Block Diagram



■ Dimensions — mm/in.

SR101A



Specifications

Electrical	All Models	SR101A01	SR101A02	SR101A03	
Power Supply:	±10%, 50-60 Hz	24 VAC/DC	115 VAC	230 VAC	
Power Consumption:	Approx. 1 VA				
Safety Inputs:	1 N/C (not monitored)				
Outputs:	2 N/O				
Output Rating AC:	Inductive AC-15, 4 A/230 V				
Output Rating DC:	Inductive DC-13, 2 A/24 V				
Min Switched Current/Voltage:	20 mA/24 V				
Impulse Withstand Voltage:	2500 V				
Max Drop-Out Time:	75 ms				
Max Output Fuse:	6 A quick-acting fuse or 4 A slow-acting				
Reset Mode:	Automatic (S11-S21)				
Contactor Monitoring:	N/C loop S11-S21				
Mechanical					
Mounting:	35 mm (1.38 in.) DIN rail				
Case Material:	Fiber-filled Polyamide PA6.6				
Max Wire Size:	1 x 2.5 mm (14 AWG) stranded				
Weight:	230 g (8.1 oz.)				
Color:	Red				
External Switches:	None				
Indication:	Green = K1 Closed, Green = K2 Closed				
Mechanical Life:	1 x 10 ⁷ operations				
Environmental					
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing				
Operating Temperature:	24 VAC/DC: -15 to 60°C (5 to 140°F)				
	115/230 VAC: -15 to 40°C (-5 to 104°F)				
Humidity:	93% RH at 104°C (219°F)				
Compliance					
Standards:	EN 60204-1: 1998, EN 954-1: 1996, VDE 0113 Part 1: 1998-11				
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL, BG				
Safety Category:	Cat. 3 per EN954-1 (SR101 internal o	peration)			

Specifications are subject to change without notice.

Note: The safety contacts of the Omron STI switches are described as normally closed (N/C)—i.e., with the guard closed, actuator in place, and the machine able to be started.

Ordering

Model	Supply	Inputs	Outputs	Part No.
SR101A01	24 VAC/DC	1 N/C	2 N/O	44510-1011
SR101A02	115 VAC	1 N/C	2 N/O	44510-1012
SR101A03	230 VAC*	1 N/C	2 N/O	44510-1013

^{*230} VAC units are available on special order. Minimum quantities may apply.