

Safety Expansion Unit

- Power requirements—the SR105E will accept 24 VAC/DC
- Outputs—the SR105E has 3 N/O outputs to route power to the coils of power contactors plus 1 N/C auxiliary output for monitoring by the safety monitoring relay
- Expander capability—the SR105E may be used with any other SR Series relay to expand the total available number of N/O outputs to power contactors



Conforms to EN60439-1, EN60947-1/5/7, EN61000-6, EN62061, EN ISO 13849-1
UL and C-UL listed
TÜV Rheinland approved

Specifications

Electrical	All Models
Power Supply:	±10%, 50-60 Hz, 24 VAC/DC
Power Consumption:	Approx. 1 VA
Relay Outputs:	3 N/O + 1 N/C auxiliary monitoring for safety monitoring relay
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:	12 ms (75 ms by removing supply voltage)
Max Output Fuse:	6 A quick-acting or 4 A slow-acting
Mechanical	
Mounting:	35 mm (1.38 in.) DIN rail
Case Material:	Fiber-filled Polyamide PA6.6
Max Wire Size:	1 x 2.5 mm ² (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 VAC: -15 to 40°C (5 to 104°F)
Humidity:	93% RH at 104°C (219°F)
Compliance	
Standards:	EN60439-1, EN60947-1/5/7, EN61000-6, EN62061, EN ISO 13849-1
Approvals/Listings:	CE marked for all applicable directives, UL and C-UL, TÜV Rheinland
Reliability Data	
per EN ISO 13849-1:	Cat 4, PL _e , PFHd 1.19E-08

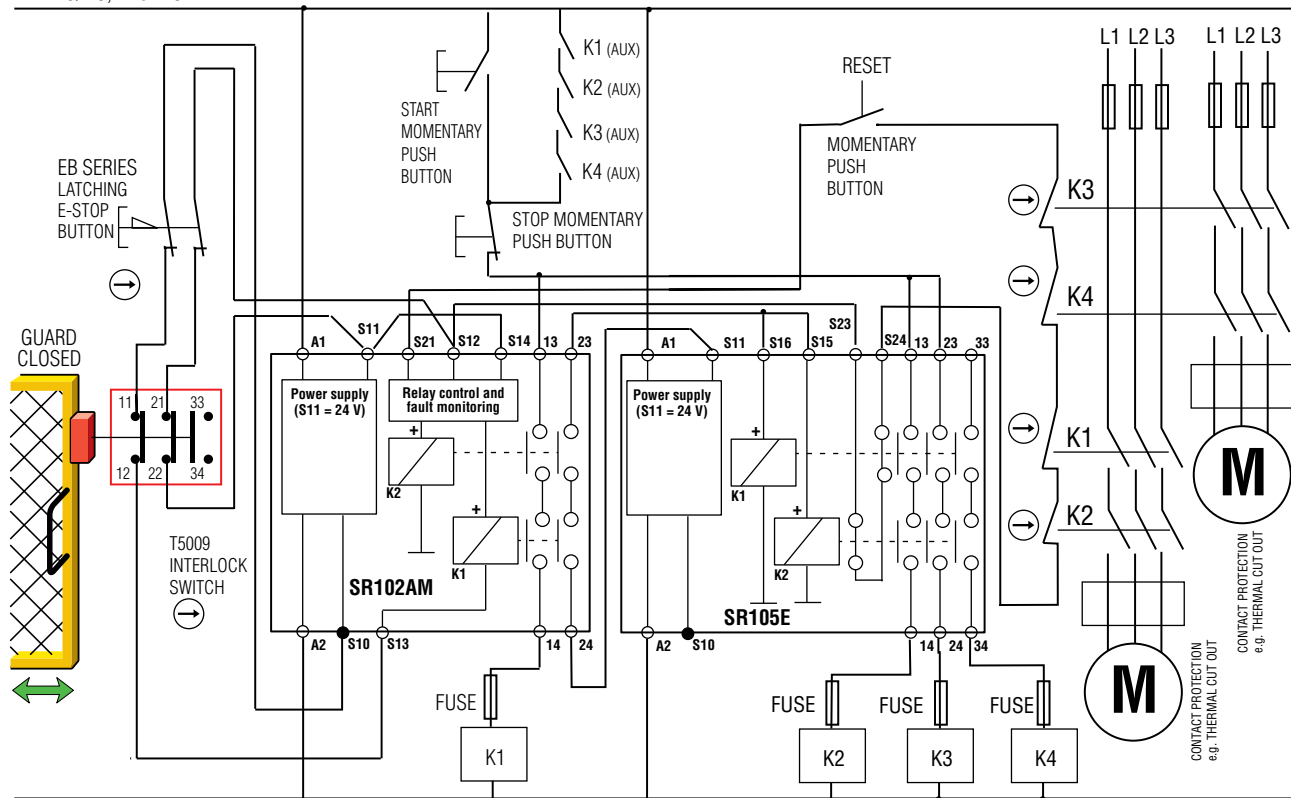
Specifications are subject to change without notice.

Note:

The safety contacts of the 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.

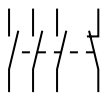
Application

24VAC/DC, 110VAC



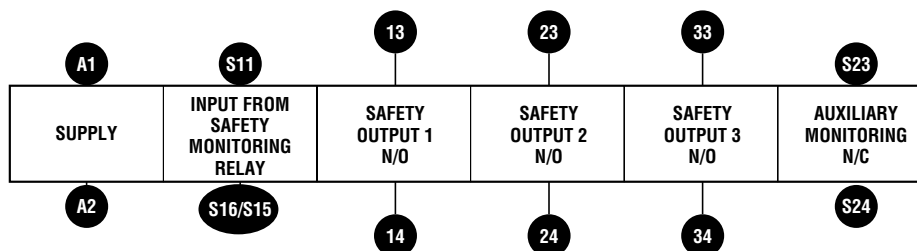
Output Contact Arrangements

Terminal Pin Assignments

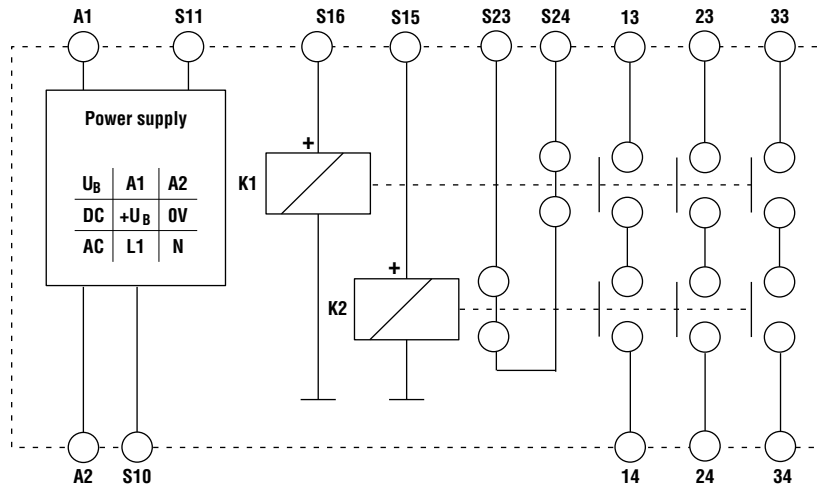


14	13	23	S23
24	13	23	S24
34	13	23	S10
	13	23	A2

Terminal Connections



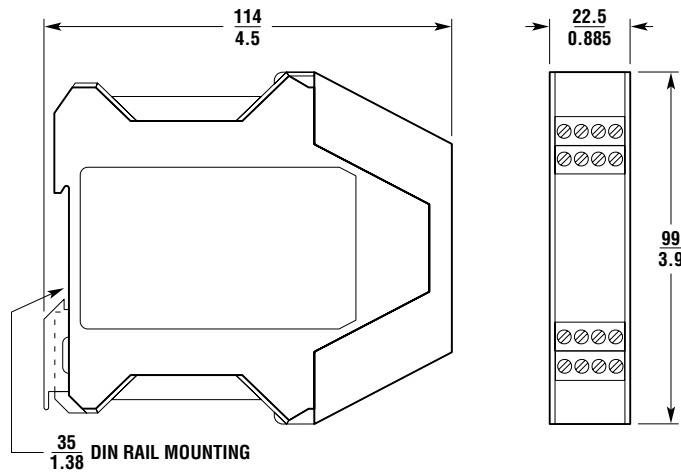
Block Diagram



Dimensions

(mm/in.)

SR105E



Ordering

Model	Supply	Outputs	Auxiliary	Part No.
SR105E01	24 VAC/DC	3 N/O	1 N/C	44510-1051

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