

Safety Monitoring Relays

SR202AM

SpeedSPEC

www.sti.com

SR202AM

For full product information, visit www.sti.com. Use the SpeedSpec Code for quick access to the specific web page.

Dual-Channel Safety Monitoring Relay

- Power requirements—the SR202AM will accept 24 VAC/DC
- Selectable inputs—Dual or single N/C input channels are selectable
- Outputs—the SR202AM has 3 N/O outputs to route power to the coils of power contactors
- External Device Monitoring (EDM) is provided with a N/C loop between S33, S34, or S39 on the SR202AM
- Selectable reset modes—monitored manual or automatic/manual reset mode is selectable on the SR202AM
- The SR202AM has removable terminals



Conforms to EN60204-1, EN954-1, EN292, EN418, and EN1088
UL and C-UL listed, CSA and BG approved

Specifications

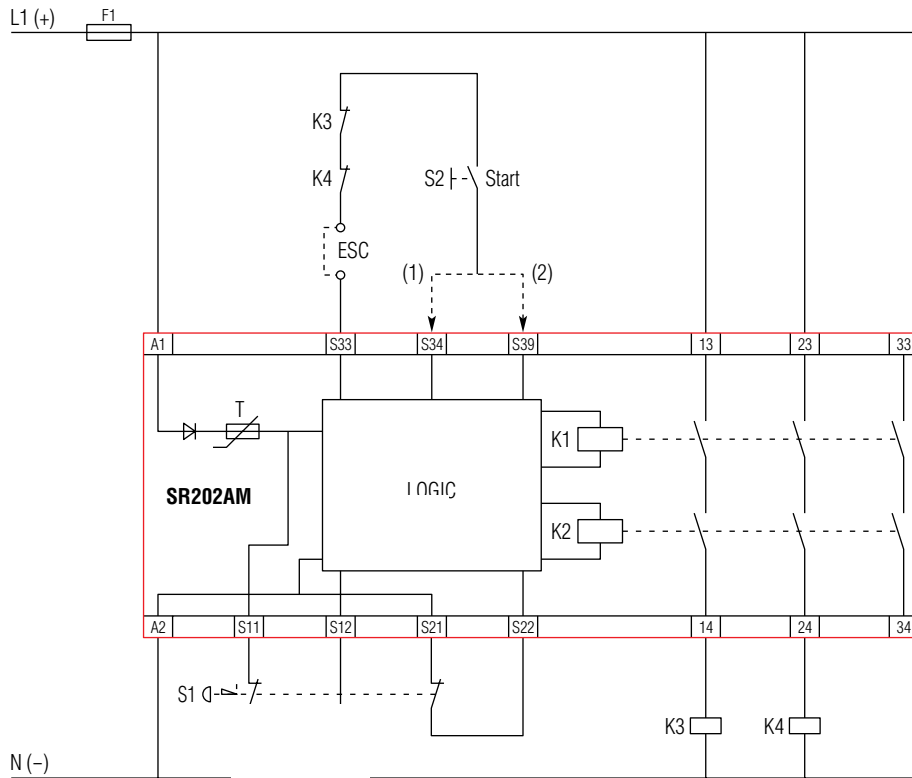
Electrical	All Models
Power Supply:	±10%, 24 VAC/DC
Power Consumption:	≤5 VA
Internal Fuse:	Electronic
Safety Inputs:	1 N/C or 2 N/C
Relay Outputs:	3 N/O
Max Switched AC:	Inductive AC-15, 1800 VA inrush, 180 VA maintained
Max Switched DC:	Inductive DC-13, 1.5 A/24 V
Min Switched Current/Voltage:	10 mA/17 V (provided that the contact has never been used with higher loads)
Impulse Withstand Voltage:	4000 V
Max Drop-Out Time:	20 ms
Max Output Fuse:	4 A slow-acting fuse or 6 A quick-acting fuse
Reset Mode:	Monitored manual or automatic/manual
External Device Monitoring (EDM):	N/C loop between S33, S34, or S39
Mechanical	
Mounting:	35 mm (1.38 in.) DIN rail
Case Material:	Polyamide PA6.6
Max Wire Size:	0.2 to 1.5 mm ² (24 to 16 AWG)
Weight:	250 g (8.8 oz.)
Color:	Red
Indication:	Green = Power on, Green = K2 closed, Green = K1 closed
Mechanical Life:	1 x 10 ⁶ operations
Environmental	
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing
Operating Temperature:	-10 to 55°C (14 to 131°F)
Compliance	
Standards:	EN418, EN1088, EN954-1, EN292, EN60204-1
Approvals/Listings:	CE-marked for all applicable directives, UL and C-UL, CSA, BG
Safety Category:	Cat. 4 per EN954-1 (SR202AM internal operation)

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.

Application



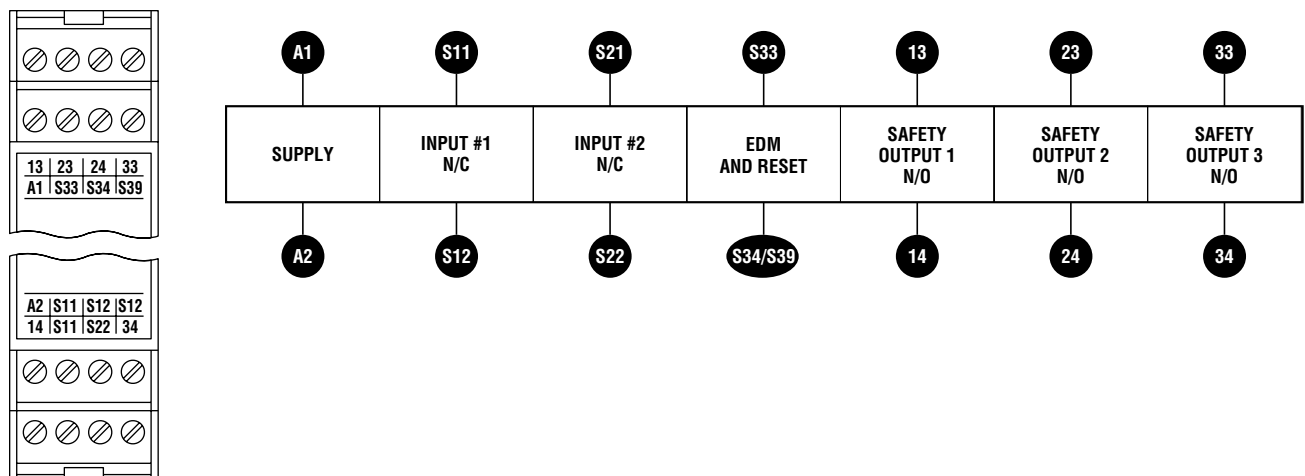
ESC: External Start Conditions

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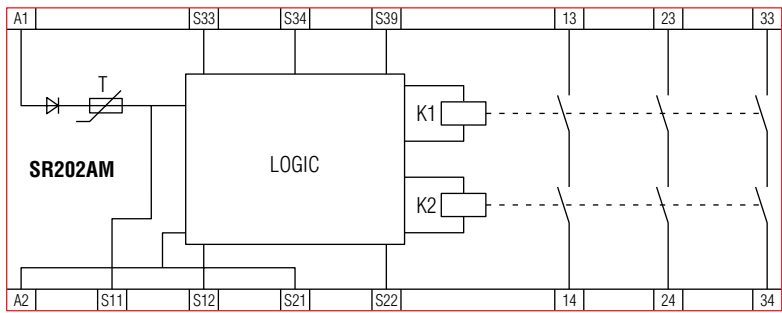
Output Contact Arrangements



Terminal Connections

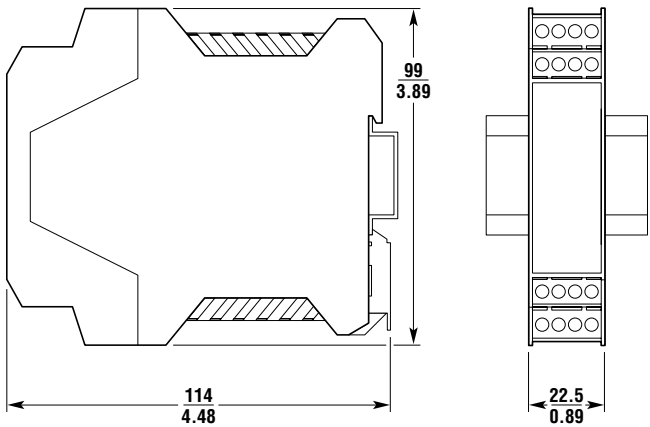


Block Diagram



Dimensions

(mm/in.)



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Ordering

Model	Supply	Inputs	Outputs	Part No.
SR202AM01	24 VAC/DC	2 N/C	3 N/O	44510-2021