

Safety Monitoring Relays

SR223SMT

Safety Module Timer Unit

- Power requirements—the SR223SMT will accept 24 VAC/DC or 115 VAC
- Delayed outputs—the SR223SMT has 1 N/O on-delay output, plus 2 N/C off-delay outputs (selectable from 1 second to 31 seconds) to provide delayed unlocking of solenoid locking switches; the delay time begins when power is applied to the SR223SMT
- Monitoring outputs—the SR223SMT has 2 solid-state signaling outputs
- External Device Monitoring (EDM) is provided with a N/C loop between Y1 and Y2 on the SR223SMT
- Diagnostic LEDs provide status indication of supply power, safety outputs, feedback loop, and time delay



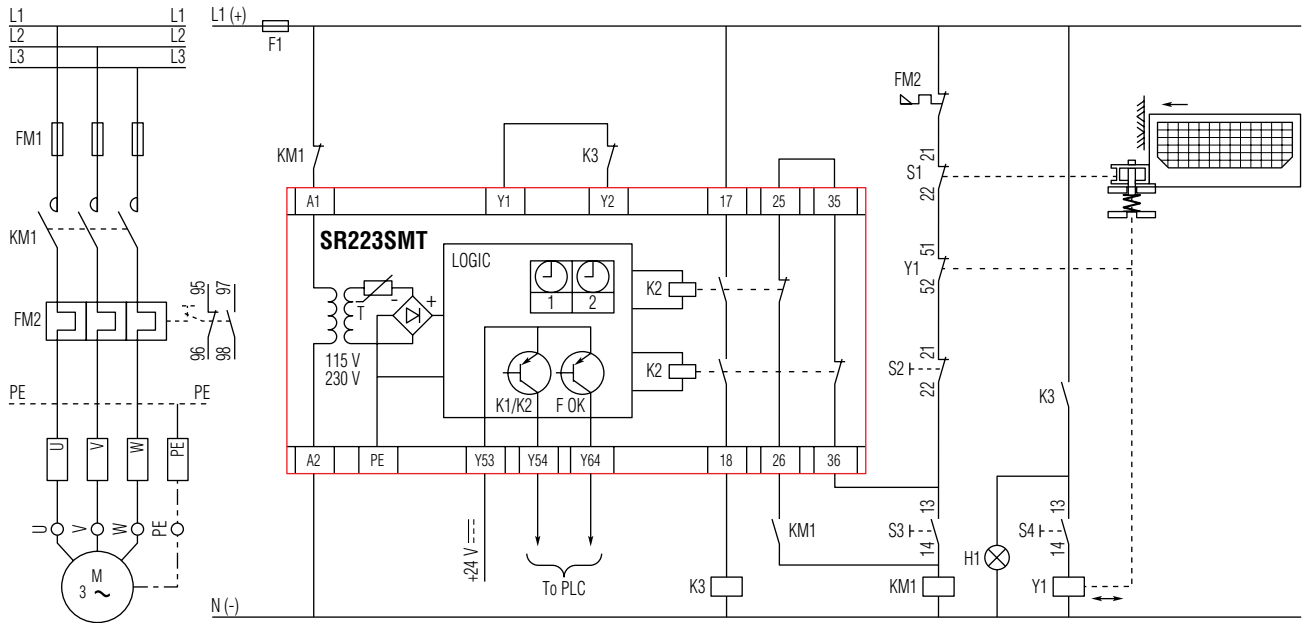
Conforms to EN60947-1/5, EN61000-6, EN62061, EN ISO 12100-2, EN ISO 13849-1/2
UL and C-UL listed
CSA and TÜV Rheinland approved

Specifications

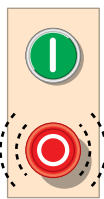
Electrical	All Models	SR223SMT01	SR223SMT02
Power Supply:	±10%	24 VAC/DC	115 VAC
Power Consumption:		≤ 4.3 VA/2.3 W	≤ 6.5 VA
Internal Fuse:	Electronic		
Safety Inputs:	None		
Relay Outputs:	1 N/O + 2 N/C switched at preset time delay (1-31 sec.)		
Auxiliary Outputs:	2 solid state for signaling		
Max. 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:	n/a		
Max Output Fuse:	4 A slow-acting or 6 A fast-acting		
Reset Mode:	Time function is reset only by interrupting the supply voltage		
External Device Monitoring (EDM):	N/C loop between Y1 and Y2		
Mechanical			
Mounting:	35 mm (1.38 in.) DIN rail		
Case Material:	Polyamide PA6.6		
Max Wire Size:	2 x 1.5 mm (16 AWG) stranded		
Weight:	AC version: 360 g (12.7 oz.); DC version: 250 g (8.8 oz.)		
Color:	Red with black body		
External Adjustment:	Time delay via 2 potentiometers		
Indication:	Green: Power on, Green: Outputs activated Green: Feedback closed, Green: Timer activated		
Environmental			
Enclosure Protection:	IP20 terminals, IP40 (NEMA 1) housing		
Operating Temperature:	-10 to 55°C (14 to 131°F)		
Compliance			
Standards:	EN60947-1/5, EN61000-6, EN62061, EN ISO 12100-2, EN ISO 13849-1/2/8		
Approvals/Listings:	CE-marked for all applicable directives, UL and C-UL, CSA, TÜV Rheinland		
Reliability Data			
per EN ISO 13849-1:	Cat. 3, PLd, PFHd 1.30E-07		

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



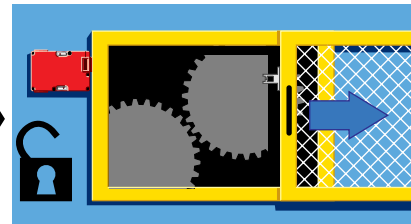
Operation



Stop signal
to SR223SMT
Power is applied
to SR223SMT

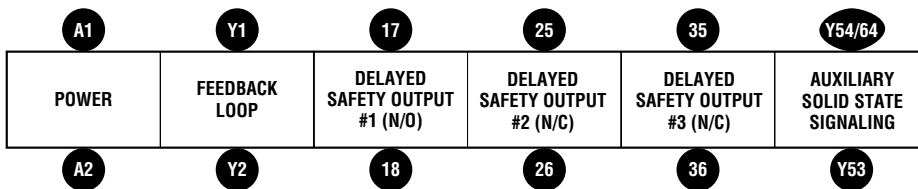


SR223SMT times down to a
preset time then signals guard
locking switch to unlock



Guard locking switch unlocks guard
allowing safe access to machine

Terminal Connections



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