Safety Monitoring Relays

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 inducation of supply power, safety outputs, feedback loop, and time delay





CSA and TÜV Rheinland approved

Specifications

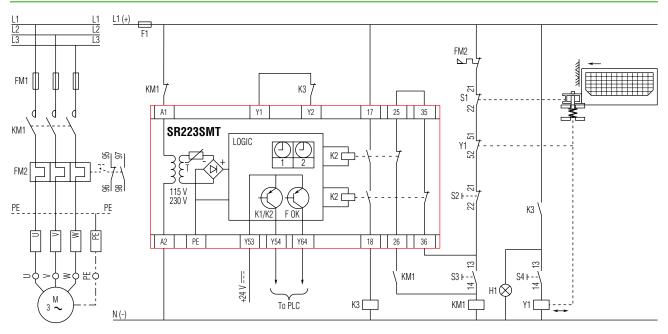
Electrical	All Models	SR223SMT01	SR223SMT02		
Power Supply:	±10%	24 VAC/DC	115 VAC		
Power Consumption:		≤ 4.3 VA/2.3 W	≤ 6.5 VA		
Internal Fuse:	Electronic				
Safety Inputs:	None				
Relay Outputs:	1 N/O + 2 N/C switched at preset time delay (1-31 sec.)				
Auxiliary Outputs:	2 solid state for signaling				
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 13849-1/28				
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.

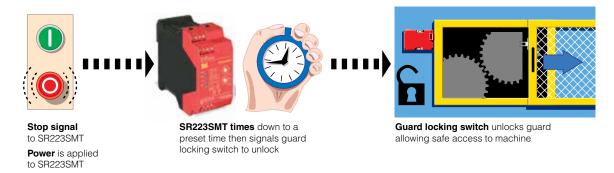




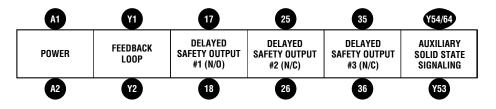
Application



Operation



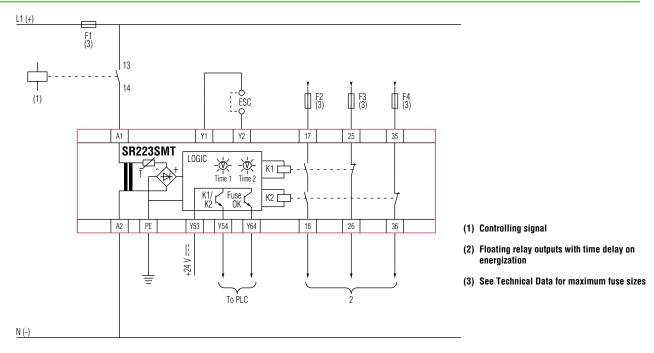
Terminal Connections



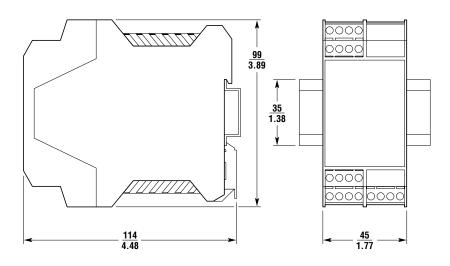




Block Diagram



Dimensions



Ordering

Model	Supply	Delayed Outputs	Auxiliary	Part No.
SR223SMT01	24 VAC/DC	1 N/O + 2 N/C	2 Solid State	44510-2231
SR223SMT02	115 VAC	1 N/O + 2 N/C	2 Solid State	44510-2232





(mm/in.)

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