

MSR5T

Specifications

Safety Ratings					
Standards	IEC 60204-1, ISO 13849-1, (EN 954-1)				
Safety Classification	Category 4, PL e per EN ISO 13849				
Functional Safety Data * Note: For up-to-date information, visit http://www.ab.com/safety/	PFH _D : 7.80E-10 MTTFd: 900 years Suitable for performance levels Pl e (according to ISO 13849-1:2006) and for use in SIL3 systems (according to IEC 62061) depending on the architecture and application characteristics				
Certifications	CE Marked for all applicable directives, cULus, c-Tick, TÜV, and CCC				
Power Supply					
Input Power Entry	—				
Power Consumption	<4V A				
Inputs					
Safety Inputs	1 N.C.				
Encoders Supported ‡					
Input Simultaneity	Infinite				
Input Resistance, Max.	200 Ω				
Reset	Auto/Manual or Manual Monitored				
Power ON Delay Time	—				
Motor Voltage, Max.	—				
Outputs					
Safety Contacts § (Immediate)					
Safety Contacts (Delayed)					
Auxiliary Contacts (Immediate)					
Auxiliary Contacts (Delayed)					
Timed Off-Delay ‡					
Timed On-Delay ‡					
Timed One Shot ‡					
Thermal Current I_{th}	10 A				
Rated Impulse withstand Voltage	2500V				
Rated Insulation Voltage	(Ui) 500V				
Switching Current @ Voltage, Min.	5 mA @ 5V DC				
Contact Material	—				
Switched Current/Voltage/Load, Min.	=1,1061191				
Fuses, Output (External)	5 A quick acting				
Electrical Life	220V AC/4A/880VA $\cos\phi = 0.35$ - 100,000 operations 220V AC/1.7A/375VA $\cos\phi = 0.6$ - 500,000 operations 30V DC/2A/60W - 1,000,000 operations 10V DC/0.01A/0.1W - 2,000,000 operations				
Mechanical Life	2,000,000 operations				
Utilization Category					
A600/AC-15	(Ue)	600V	500V	240V	120V
	(Ie)	1.2 A	1.4 A	3 A	6 A
N600/DC-13	(Ue)	600V	500V	250V	120V
	(Ie)	0.4 A	0.55 A	1.1 A	2.2 A
Operating Characteristics					
Response Time	—				
Recovery Time	—				
Status Indicator	Green = Output				
Environmental					
Enclosure Type Rating	IP20				
Terminal Protection	IP20, DIN 0470				
Relative Humidity	90%				
Pollution Degree	3				

Operating Temperature [C (F)]	-20...+80° (-4...+176°)
Vibration	0.75 mm (0.30 in.) peak, 10...55 Hz
Shock	30 g, 11 ms half-sine
Installation Group	C in accordance with VDE 0110
Physical Characteristics	
Mounting	35 mm DIN Rail
Weight [g (lb)]	520 (1.15)
Conductor Size, Max.	—
Torque Settings, Max. (Terminal Screws)	1 N•m (8.85 lb•in)

* Usable for ISO 13849-1:2006 and IEC 62061. Data is based on the following assumptions:

- Usage rate of 1op/10 mins., 24 hrs/day, 360 days/year, representing 51840 operations per year
- Mission time/Proof test interval of 20 years—actual values to be decided
- Power cycled once per 8 hrs

‡
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Product Selection

Inputs	Safety Outputs	Auxiliary Outputs	Power Supply	Cat. No.
1 N.C.	3 N.O.	1 N.C.	24V AC/DC ±15% 50/60 Hz	440R-B23020