Model 3760 10-channel High Current Multiplexer Card

Specifications

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SPECIFICATION CONDITIONS

This document contains specifications information for the Model 3760 10-channel High Current Multiplexer Card. Specifications are the standards against which the Model 3760 is tested. Upon leaving the factory, the Model 3760 meets these specifications. Typical and characteristic values are nonwarranted, apply at 23 °C (73 °F), and are provided solely as useful information. Measurement accuracies are specified under these conditions: 23 °C ±5 °C, 5 percent to 70 percent relative humidity, non-condensing.

Category	Specification	
Channel configuration	1 x 10 double-pole multiplexer	
Contact configuration	2 Form C with common guard; unselected inputs are shorted (HI to LO) using the removable jumpers	
Connector type	Screw terminals, No. 16 AWG maximum wire size with .092 inch O.D.; 33 conductors (wires) per card maximum	
Maximum signal level	Switching voltage: 300 V peak	
	Operating voltage: 500 V peak	
	Switching current: 5 A	
	Switching power: 100 VA (resistive load only)	
Contact life	$>10^7$ closures (cold switching); $>10^5$ closures (at maximum signal level)	
Contact resistance	0.15 Ω maximum to rated life, measured at 1 A DC	
Contact potential	1 mV maximum	
Channel-to-channel isolation	$>10^9$ Ω, <50 pF	
Input isolation	**Differential**	$>10^7$ Ω, <150 pF
	Common mode	
Common mode voltage	500 V peak	
Volt-hertz limit	8 x 10^7	

Category	General specification
Warm up	One hour to rated accuracies
Actuation time	<15 ms, exclusive of mainframe
Relay type	2 Form C nonlatching electromechanical
Relay drive current	80 mA per relay (typical)
Relay drive scheme	Direct
Environment	**Indoor use only.** **Operating:** 0 °C to 50 °C (32 °F to 122 °F), 70% relative humidity up to 35 °C (95 °F); derate 3% relative humidity per °C, 35 °C to 50 °C, noncondensing **Storage:** −25 °C to 65 °C (-13 °F to 149 °F) **Altitude:** 0 to 2000 m (0 to 6562 feet) above sea level **Pollution degree:** 2
Dimensions	25.40 mm high x 166.12 mm wide x 263.40 mm long (1.00 in. x 6.54 in. x 10.37 in.)
Weight	1.13 kg (2.5 lb)
Safety	NRTL listed to UL61010-1 and CAN/CSA C22.2 NO. 61010-1-12; UL 61010-2-030 and CAN/CSA-22.2 NO.61010-2-030-12. Conforms with European Union Low Voltage Directive
EMC	Conforms to European Union EMC Directive

3760 Simplified schematic

