Model 3762 10-channel High Voltage Multiplexer Card

Specifications

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SPECIFICATION CONDITIONS

This document contains specifications information for the Model 3762 10-channel High Voltage Multiplexer Card. Specifications are the standards against which the Model 3762 is tested. Upon leaving the factory, the Model 3762 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 A with user selectable shield or driven guard	
Connector type	Screw terminals, No. 16 AWG maximum wire size with .092 inch O.D. 33 conductors (wires) per card maximum	
Maximum signal levels	Voltage: 1000 V peak	
	Carry current: 1 A, peak or DC	
	Switching current: 0.5 A, RMS or DC	
	Switching power: 10 W	
Contact life	$>10^8$ closures (cold switching); $>1 \times 10^6$ closures (at 1000 V/1 mA)	
Contact resistance	<200 mΩ initial, 2 Ω to rated life	
Contact potential	<35 µV per contact pair	
Channel-to-channel isolation	$>10^{10}$ Ω, <10 pF	
Input isolation	**Differential**	$>10^9$ Ω, <10 pF
	Common mode	$>10^9$ Ω, <150 pF
Common mode voltage	1000 V peak	
Volt-hertz limit	8×10^7	

Category	General specification
Warm up	One hour to rated accuracies
Actuation time	<2 ms, exclusive of mainframe
Relay type	2 Form A dry reed
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	0.99 kg (2.2 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

3762 Simplified schematic

