

Appendix A

Form C Switch Specifications

General					
Module Size / Device Type: C-size VXIbus, Register based, A16/D16, Interrupter (levels 1-7, jumper selectable)		Relay Life (Typical):*			
		<u>Condition</u>	<u>Number of Operations</u>		
Power Requirements: Voltage: <div><div>+5 V</div><div>+12 V</div></div> Peak Module Current (A) <div>0.10</div> <div>0.60**</div> Dynamic Module Current (A) <div>0.10</div> <div>0.01</div>		No Load	5 x 10 ⁷		
		250 Vac, 2A, Resistive	10 ⁶		
		250 Vac, 5A, Resistive	10 ⁵		
		250 Vac, 2A, p.f. = 0.4	10 ⁶		
		250 Vac, 5A, p.f. = 0.4	10 ⁵		
Watts/slot: 10 W Cooling/slot: 0.08 mm H ₂ O @ 0.42 Liter/sec for 10°C rise Operating Temperature: 0° - 55°C Operating Humidity: 65% RH, 0° - 40°C		30 Vdc, 1A, Resistive	>10 ⁶		
		30 Vdc, 5A, Resistive	10 ⁵		
		30 Vdc, 1A, L/R = 7 msec	>10 ⁶		
		30 Vdc, 5A, L/R = 7 msec	10 ⁵		
Terminals: Screw type, maximum wire size 16 AWG					
Input Characteristics					
Maximum Input Voltage: 220 Vdc or 250 Vac _{rms} Terminal to Terminal 220 Vdc or 250 Vac _{rms} Terminal to Chassis		Maximum Switchable Power per Channel: 150 W dc; 1250 VA per switch 1500 W dc; 12,500 VA per module			
Maximum Current per Channel (non-inductive): 5 Adc or ac _{rms}					
DC Performance					
Insulation Resistance (between any two points): >5x10 ⁶ Ω at 40°C, 95% RH >5x10 ⁸ Ω at 25°C, 40% RH		Closed Channel Resistance: >100 mA: <0.250 Ω (<2 Ω at end of relay life) <100 mA: <20 Ω			
Maximum Thermal Offset per Channel: <7 μV (<3 μV typical)					
AC Performance					
Capacitance: <30 pF (Channel to Channel) <40 pF (Channel to Common) <25 pF (Common to Guard)		Crosstalk (db) (for Z1 = Zs =50 Ω):			
		<u>Frequency</u>	<u><10 kHz</u>	<u><100 kHz</u>	<u><1 MHz</u>
		Channel to Channel	<-83	<-63	<-43
		Common to NO or NC	<-80	<-60	<-40
Bandwidth (-3 dB): >10 MHz (typical)		Module to Module	<-100	<-100	<-90

* Relays are subject to normal wearout based on the number of operations.

** Absolute worst case when all relays are closed simultaneously.