

Digital Output 16-Point Processor (continued)

MU-PDOX02

Electro-Mechanical Relay--120 Vac FTA, 125 Vdc FTA															
Parameter	Specification														
FTA Models	MU-TDOR12, MU-TDOR52														
Outputs	16 isolated Form A (SPST/NO) or Form B (SPST/NC) contacts (jumper selectable per output)														
Contact Type	Silver alloy														
Maximum Load Voltage	140 Vac (rms)/140 Vdc														
Maximum Steady-State Load Current	5 A rms @ 120 Vac (resistive) per output 2 A @ 30 Vdc (resistive) per output 0.5 A @ 125 Vdc (resistive) per output 1/8 horsepower per output														
Minimum Load Current ⁽¹⁾	100 mA														
Load Surge Current ⁽²⁾	Overload and Endurance per UL 508														
Isolation	1500 Vac rms or ±1500 Vdc Channel-to-channel, and channel-to-PM/APM/HPM common														
Turn-on Time	10 ms typical, 15 ms maximum														
Turn-off Time	10 ms typical, 15 ms maximum														
Maximum Repetition Rate	360 cycles per hour at rated load														
Contact Life ⁽³⁾	<table border="0"> <thead> <tr> <th><u>Operations</u></th> <th><u>% of Max. Load</u></th> </tr> </thead> <tbody> <tr> <td>350,000</td> <td>100</td> </tr> <tr> <td>450,000</td> <td>80</td> </tr> <tr> <td>750,000</td> <td>60</td> </tr> <tr> <td>1,000,000</td> <td>40</td> </tr> <tr> <td>1,300,000</td> <td>20</td> </tr> <tr> <td>20,000,000</td> <td>0 (Mechanical Life)</td> </tr> </tbody> </table>	<u>Operations</u>	<u>% of Max. Load</u>	350,000	100	450,000	80	750,000	60	1,000,000	40	1,300,000	20	20,000,000	0 (Mechanical Life)
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Contact Suppression (Shunt)	22 Ω/0.1 μF resistor/capacitor snubber across each contact														
Load Fusing on Termination Assembly	6 A 125 V slow-blow (5x20 mm) fuse per output														
Surge withstand capability	ANSI/IEEE C37.90.1-1978														
<p>(1) The power contacts in these relays are not suitable for load currents less than 100 mA.</p> <p>(2) Contact surge rating is limited by fuse opening time. Fuse opening time is 0.5 sec @ 18 A, 1 sec. @ 15 A, 5 sec @ 10 A</p> <p>(3) For resistive loads (power factor = 1.0); derate linearly by 5% at 0.9 load power factor to 50% at 0.1 load power factor.</p>															

(Continued)