DC Tubular Push Solenoid

Model TP12x13



Features:

High performance construction Available return spring kit DC applications only See T12x13 for pull applications **RoHS** Compliant **UL** Recognized Coil Termination: 6.5" Wire leads 22 AWG (standard)

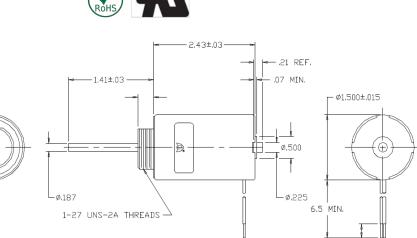
Electrical:

Coil Voltages: 6, 12, 24, 48, 110 VDC standard Duty Cycle: 100% Continuous, 25% Intermittent, 10% Intermittent, 1% Pulse Coil treatment: Tape Wrapped Insulation Class: Class A Rating - 105° C (221° F) Dielectric Strength: 1500V 60 Hz

Mechanical:

Size: 2.43" (L) x 1.5"(D) Plunger Diameter: 0.187" Plunger Guide Material: Plastic Mounting: Hex Nut Weight: Plunger 1.7 oz, Total 10.2 oz Life Expectancy: 1 Million Cycles¹ ¹ - Dependent on load conditions

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Solenoid shown energized with plunger fully seated in extended position Supplied with mounting bracket, hex nut and lock washer shipped loose

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Available Customization:

Plunger

- Lead and Connector
- DC Voltage / Duty Cycle .
 - Termination
 - Insulation systems up to class H 180° C (356° F) * Minimum quantities apply

Contact us for custom voltages or duty cycles

| | Typical Push Force Ounces [N] @ 20°C (68°F) (Distance from fully extended position) | | | | | | | | Power (W) |
|-------------------------------|--|------------|------------|------------|------------|-----------|-----------|-------------|--------------|
| Stroke (in.) | 0.050 | 0.125 | 0.250 | 0.375 | 0.500 | 0.625 | 0.750 | Ounces [N] | |
| Continuous 100% | 64 [17.8] | 32 [8.9] | 12 [3.36] | 9 [2.5] | 4 [1.1] | 2 [0.6] | 1 [0.3] | 146 [40.6] | 6.6 |
| Intermittent 25% | 112 [31.1] | 84 [23.4] | 44 [12.2] | 28 [7.8] | 16 [4.4] | 12 [3.3] | 5 [1.4] | 168 [46.7] | 21 |
| Intermittent 10% ³ | 203 [56.4] | 163 [45.3] | 125 [34.8] | 90 [25] | 60 [16.7] | 35 [9.7] | 25 [7.] | 502 [139.6] | 62 |
| Pulse 1% ³ | 281 [78.1] | 260 [72.3] | 220 [61.2] | 178 [49.5] | 137 [38.1] | 92 [25.6] | 62 [17.2] | N/A | 198.2 |



Continuous Duty 100% = 100% On Time

Intermittent Duty 25% = 25% On Time (100 Seconds On Max Followed By 300 Seconds Off) Intermittent Duty 10% = 90% On Time (10 Seconds On Max Followed By 90 Seconds Off)

Pulse Duty 1% = 99% On Time (1 Second On Max Followed By 99 Seconds Off)

3 - Calculated force values to be verified in application



Standard Part Numbers

| | Model | Part Number | Duty Cycle | Voltage | Resistance ² (Ω) | Power (W) | Current | | |
|--------------------------------------|--------------|----------------|------------|---------|--------------------------------|--------------|---------|--|--|
| | TP12x13-C-12 | A422-064103-04 | Cont. | 12VDC | 22.8 | 6.6 | 526 mA | | |
| | TP12x13-I-12 | A422-064103-03 | Inter. | 12VDC | 7.3 | 20.7 | 1.64 A | | |
| | TP12x13-C-24 | A422-064103-02 | Cont. | 24VDC | 90.4 | 6.7 | 265 mA | | |
| | TP12x13-I-24 | A422-064103-01 | Inter. | 24VDC | 28.4 | 21.3 | 845 mA | | |
| 2 - Coil resistance tolerance +/- 5% | | | | | | | | | |