

DC Tubular Push Solenoid

Model TP6x12



1425 Lake Avenue, Woodstock, IL 60098

Features:

- High performance construction
- Available return spring kit
- DC applications only
- See T6x12 for pull applications
- RoHS Compliant
- UL Recognized
- Coil Termination: 6.5" Wire leads
- 26 AWG (standard)



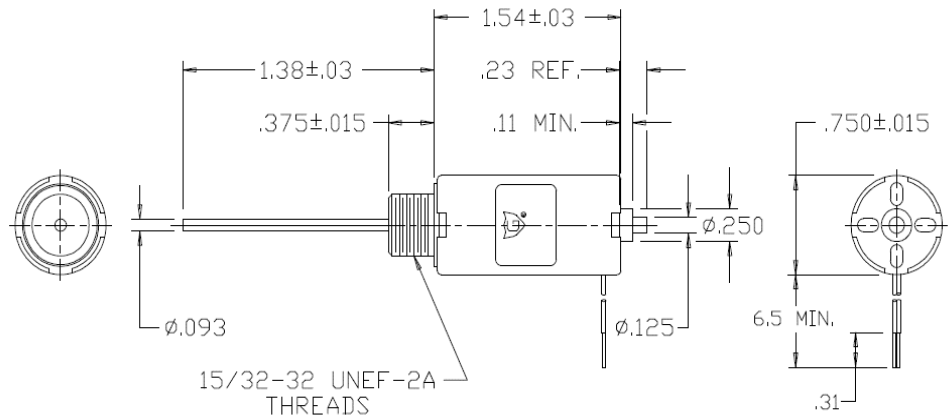
Electrical:

- 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: 1.54" (L) x .75" (D)
- Plunger Diameter: 0.093"
- Plunger Guide Material: Plastic
- Mounting: Hex Nut
- Weight: Plunger .4 oz, Total 2.3 oz
- Life Expectancy: 1 Million Cycles¹

¹ - Dependent on load conditions



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

Standard Part Numbers

| Model | Part Number | Duty Cycle | Voltage | Resistance ² (Ω) | Power (W) | Current |
|-------------|----------------|------------|---------|-----------------------------|-----------|---------|
| TP6x12-C-12 | A420-066091-00 | Cont. | 12VDC | 31.7 | 4.8 | 379 mA |
| TP6x12-I-12 | A420-066092-00 | Inter. | 12VDC | 12.1 | 12.5 | 992 mA |
| TP6x12-C-24 | A420-066093-00 | Cont. | 24VDC | 121 | 5 | 198 mA |
| TP6x12-I-24 | A420-066094-00 | Inter. | 24VDC | 60.6 | 10.1 | 399 mA |

² - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles

Available Customization:

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

| Stroke (in.) | Typical Push Force Ounces [N] @ 20°C (68°F) (Distance from fully extended position) | | | | | | HOLDING FORCE Ounces [N] | Power (W) |
|-------------------------------|--|------------|----------|----------|-----------|-----------|--------------------------|-----------|
| | 0.050 | 0.125 | 0.250 | 0.375 | 0.500 | 0.625 | | |
| Continuous 100% | 13 [3.6] | 7 [1.9] | 4 [1.1] | 2 [0.6] | N/A | N/A | 38 [10.6] | 5 |
| Intermittent 25% | 19 [5.3] | 10 [2.8] | 7 [1.9] | 5 [1.4] | N/A | N/A | 43 [12] | 11 |
| Intermittent 10% ³ | 35 [9.7] | 23.5 [6.5] | 16 [4.4] | 12 [3.3] | 9.5 [2.6] | 4.5 [1.3] | 104 [28.9] | 37.2 |
| Pulse 1% ³ | 45 [12.5] | 34 [9.5] | 25 [7] | 18 [5] | 13 [3.6] | 10 [2.8] | N/A | 69.4 |

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

Optional Return Spring Kit

A490-367460-13



www.kelcoind.com

Information contained in this specification sheet subject to change without notice. Guardian Electric ©

