

BTA® Size 5EVM

Part Numbers: Clockwise Rotation 195930-0XX
Counter-Clockwise Rotation 195939-0XX

All catalogue products manufactured after April 1, 2006 are RoHS Compliant

ROTARY BTA®

Performance

| Maximum Duty Cycle | 100% | 50% | 25% | 10% | | |
|---|--------------------|----------------------|-----------|-----------|-----------|-----------|
| Maximum ON Time (sec) | ∞ | 40 | 15 | 4 | | |
| when pulsed continuously ¹ | | | | | | |
| Maximum ON Time (sec) | ∞ | 109 | 36 | 10 | | |
| for single pulse ² | | | | | | |
| Typical Energise Time (msec) ³ | 27 | 18 | 14 | 10 | | |
| Watts (@ 20°C) | 21 | 42 | 84 | 210 | | |
| Ampere Turns (@ 20°C) | 621 | 878 | 1242 | 1964 | | |
| Coil Data | | | | | | |
| awg (0XX) ⁴ | Resistance (@20°C) | # Turns ⁵ | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
| 23 | 1.05 | 128 | 4.7 | 6.6 | 9.4 | 14.8 |
| 24 | 2.24 | 213 | 6.9 | 9.7 | 13.7 | 21.7 |
| 25 | 3.16 | 240 | 8.1 | 11.5 | 16.3 | 25.8 |
| 26 | 4.45 | 270 | 9.7 | 13.7 | 19.3 | 30.6 |
| 27 | 8.50 | 404 | 13.4 | 18.9 | 26.7 | 42.2 |
| 28 | 11.90 | 452 | 15.8 | 22.3 | 31.6 | 50.0 |
| 29 | 21.10 | 630 | 21.0 | 29.7 | 42.1 | 67.0 |
| 30 | 29.50 | 705 | 24.9 | 35.2 | 49.8 | 78.7 |
| 31 | 50.30 | 948 | 32.5 | 46.0 | 65.0 | 103.0 |
| 32 | 82.70 | 1232 | 41.7 | 59.0 | 83.0 | 132.0 |
| 33 | 134.00 | 1576 | 53.0 | 75.0 | 106.0 | 168.0 |

Specifications

| | |
|-------------------------------|--|
| Dielectric Strength | 1000 VRMS (23 awg); 1200 VRMS (24-33 awg) |
| Recommended Minimum Heat Sink | Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminium plate measuring 191 mm square by 3.2 mm thick |
| Thermal Resistance | 5.36 (°C/watt) |
| Rotor Inertia | 30.36 (gm-cm ²) |
| Weight | 382 gms |
| Dimensions | See page C10 |

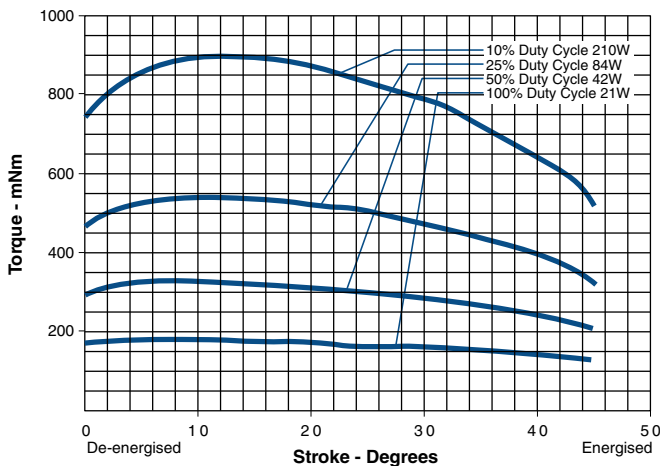
How to Order

Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle clockwise rotation unit rated at 26.7 VDC, specify 195950-027).

Please see www.ledex.com (click on Stock Products tab) for our list of stock products available through our distributors.

- ¹ Continuously pulsed at stated watts and duty cycle
- ² Single pulse at stated watts (with coil at ambient room temperature 20°C)
- ³ Typical energise time based on a 35.3 mNm torque load including 1.4 x 10⁻⁶ kgm² of inertia
- ⁴ Other coil awg sizes available — please consult factory
- ⁵ Reference number of turns

Size 5EVM — Typical Torque @ 20°C



Notes:

- Torque curves shown are without spring.
- Typical standard spring has a torque of 28.3 mNm..
- Torque values are for reference only.

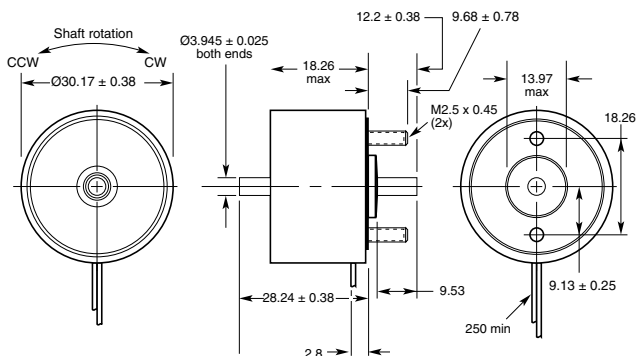
All specifications subject to change without notice.

BTA® Dimensions

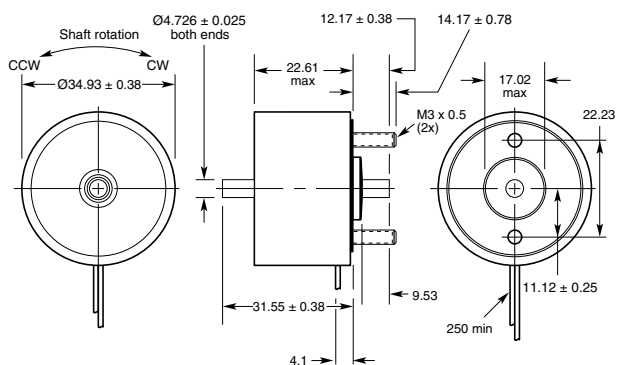
inches (mm)

ROTARY BTA®

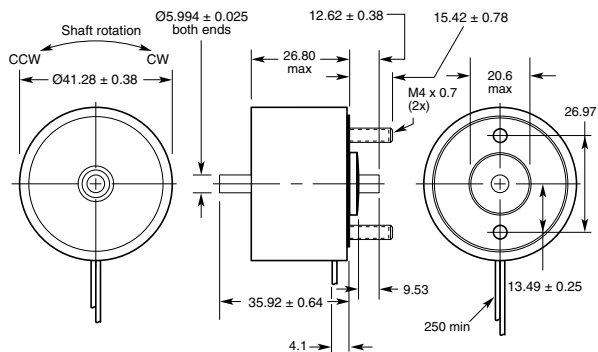
Size 2EVM



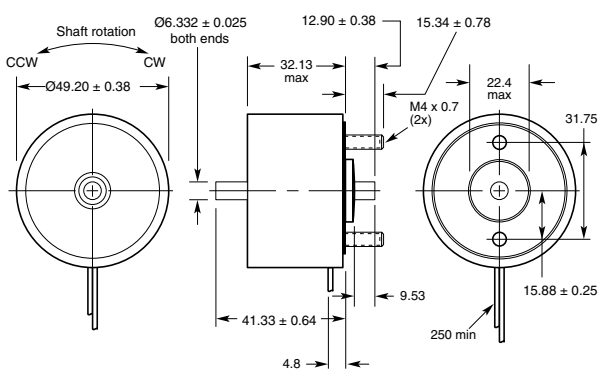
Size 3EVM



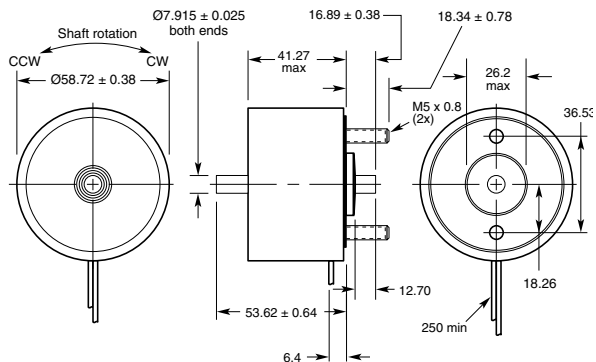
Size 4EVM



Size 5EVM



Size 6EVM



All specifications subject to change without notice.