

BTA® Size 2EV

Part Numbers: Clockwise Rotation 195190-0XX
Counter-Clockwise Rotation 195622-0XX

All products are RoHS Compliant

ROTARY BTA®

Performance

| | 50% | 25% | 10% |
|--|-----|-----|------|
| Maximum Duty Cycle* | 50% | 25% | 10% |
| Maximum ON Time (sec) when pulsed continuously ¹ | 15 | 6 | 2 |
| Maximum ON Time (sec) for single pulse ² | 44 | 15 | 4 |
| Typical Energize Time (msec) ³ | 15 | 11 | 8 |
| Watts (@ 20°C) | 20 | 40 | 100 |
| Ampere Turns (@ 20°C) | 469 | 663 | 1048 |

Specifications

| | |
|-------------------------------|---|
| Dielectric Strength | 1000 VRMS |
| 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 aluminum plate measuring 3-3/8" square by 1/8" thick |
| Thermal Resistance | 10.8 (°C/watt) |
| Rotor Inertia | 2.56 (gm-cm ²) |
| Weight | 3.0 oz (85 gms) |

Coil Data

| awg (0XX) ⁴ | Resistance (@20°C) | # Turns ⁵ | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|---------------------------|-----------------------|-------------------------|--------------|--------------|--------------|
| 24 | 0.47 | 72 | 3.1 | 4.3 | 6.9 |
| 25 | 0.67 | 82 | 3.7 | 5.2 | 8.2 |
| 26 | 0.94 | 92 | 4.3 | 6.1 | 9.7 |
| 27 | 1.33 | 104 | 5.2 | 7.3 | 11.5 |
| 28 | 2.86 | 174 | 7.6 | 10.7 | 16.9 |
| 29 | 4.01 | 195 | 9.0 | 12.7 | 20.0 |
| 30 | 7.69 | 292 | 12.4 | 17.5 | 27.7 |
| 31 | 10.80 | 328 | 14.7 | 20.8 | 32.9 |
| 32 | 19.26 | 460 | 19.6 | 27.8 | 43.9 |
| 33 | 26.96 | 515 | 23.2 | 32.8 | 52.0 |
| 34 | 45.82 | 690 | 30.3 | 42.8 | 68.0 |
| 35 | 63.76 | 768 | 35.7 | 50.0 | 80.0 |

*Not recommended for 100% duty cycle.

- 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 energize time based on a 0.5 oz-in torque load including 14 gm-cm² of inertia
- ⁴ Other coil awg sizes available — please consult factory
- ⁵ Reference number of turns



How to Order

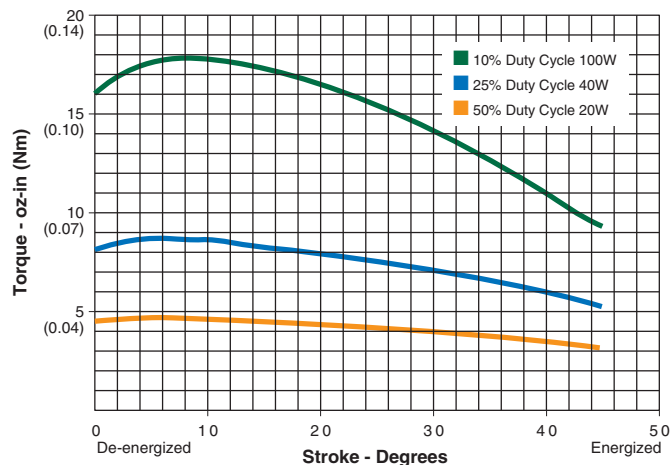
Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle clockwise rotation unit rated at 12.7 VDC, specify 195190-029).

Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

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Typical Torque @ 20°C (see notes)



Notes:

Torque curves shown are without spring.
 Typical standard spring has a torque of 1.0 oz-in.
 Torque values are for reference only.

Dimensions (in)

