

BTA® Size 3EVM

Part Numbers: Clockwise Rotation 195928-0XX
Counter-Clockwise Rotation 195937-0XX

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)	∞	10	3	1
when pulsed continuously ¹				
Maximum ON Time (sec)	∞	26	10	4
for single pulse ²				
Typical Energise Time (msec) ³	25	17	12	9
Watts (@ 20°C)	13	26	52	130
Ampere Turns (@ 20°C)	362	512	729	1,144

Coil Data

awg (0XX) ⁴	Resistance (@20°C)	# Turns ⁵	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
23	0.26	44	1.9	2.6	3.7	5.9
24	0.38	50	2.2	3.1	4.4	7.0
25	0.53	56	2.6	3.7	5.2	8.3
26	1.54	126	4.5	6.3	9.0	14.2
27	2.15	140	5.3	7.5	10.6	16.7
28	3.04	158	6.3	8.9	12.6	19.9
29	4.24	176	7.4	10.5	14.9	23.5
30	9.16	297	10.9	15.4	21.8	34.5
31	12.90	333	12.9	18.3	25.9	40.9
32	18.04	372	15.3	21.6	30.6	48.4
33	34.10	552	21.0	29.8	42.1	66.5
34	47.70	616	25.0	35.2	49.8	78.7

Specifications

Dielectric Strength	1,000 VRMS (23-28 awg); 1,200 VRMS (29-34 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 117 mm square by 3.2 mm thick
Thermal Resistance	8.53 (°C/watt)
Rotor Inertia	9.14 (gm-cm ²)
Weight	142 g
Dimensions	See page C10

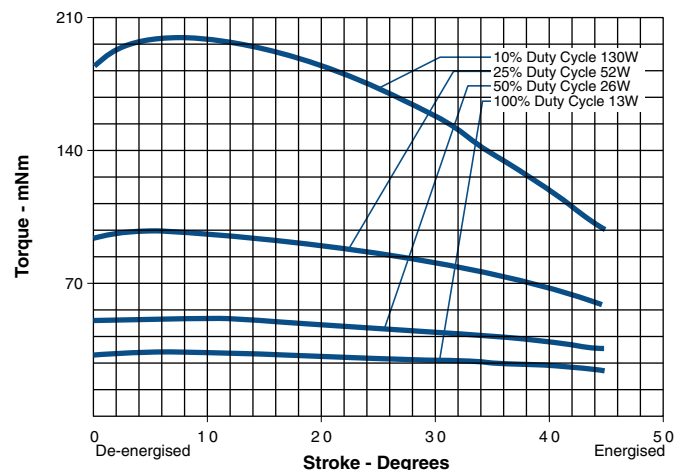
How to Order

Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle clockwise rotation unit rated at 25.9 VDC, specify 195928-051).

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 5.65 mNm torque load including 1.4×10^{-6} kgm² of inertia
- ⁴ Other coil awg sizes available — please consult factory
- ⁵ Reference number of turns

Size 3EVM — Typical Torque @ 20°C



Notes:

- Torque curves shown are without spring.
- Typical standard spring has a torque of 13.4 mNm
- Torque values are for reference only.

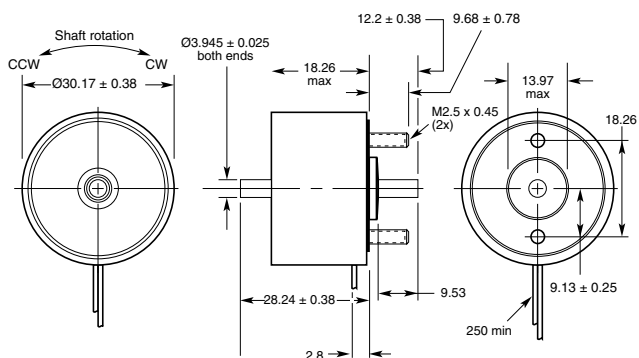
All specifications subject to change without notice.

BTA® Dimensions

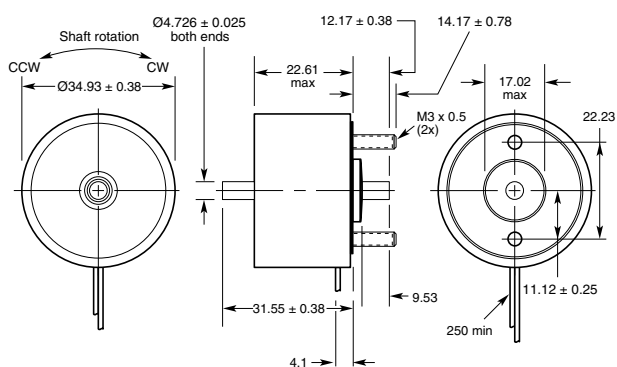
inches (mm)

ROTARY BTA®

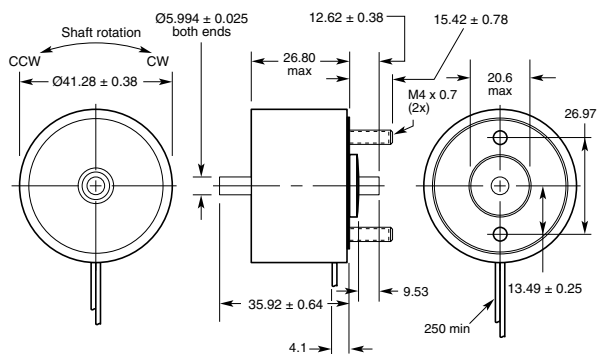
Size 2EVM



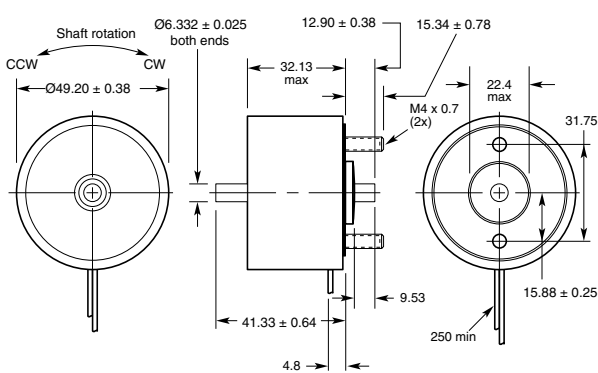
Size 3EVM



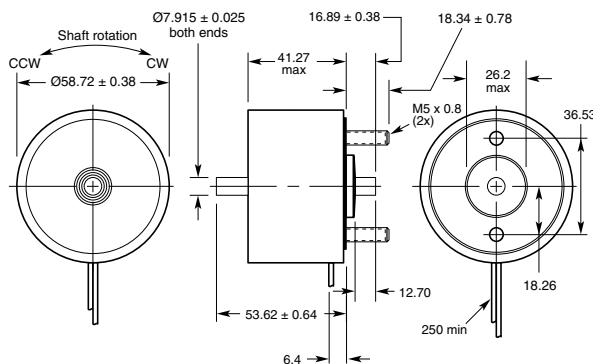
Size 4EVM



Size 5EVM



Size 6EVM



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