

Low Profile Size 1EC — Push or Pull

LINEAR Low Profile

Size 1EC Medium Stroke, Conical Face

Part Number: 123421-0XX

All products are RoHS Compliant

Performance

| Maximum Duty Cycle | 100% | 50% | 25% | 10% |
|---|------|-----|-----|------|
| Maximum ON Time (sec) when pulsed continuously ¹ | ∞ | 100 | 36 | 7 |
| Maximum ON Time (sec) for single pulse ² | ∞ | 162 | 44 | 8 |
| Watts (@ 20°C) | 5 | 10 | 20 | 50 |
| Ampere Turns (@ 20°C) | 340 | 480 | 680 | 1075 |

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" square by 1/8" thick |
| Coil Resistance | 25-35 awg, ±5%; 36 awg, ±10% |
| Weight | 1.50 oz (42.5 gms) |
| Holding Force | 5.4 lb (24.0 N) @ 105°C |

Coil Data

| awg (0XX) ³ | Resistance (@20°C) | # Turns ⁴ | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|------------------------|--------------------|----------------------|-----------|-----------|-----------|-----------|
| 25 | 0.83 | 140 | 2.1 | 2.9 | 4.1 | 6.5 |
| 26 | 1.38 | 186 | 2.6 | 3.7 | 5.2 | 8.2 |
| 27 | 1.91 | 210 | 3.2 | 4.5 | 6.3 | 10.1 |
| 28 | 3.17 | 273 | 4.1 | 5.7 | 8.1 | 12.8 |
| 29 | 5.17 | 352 | 5.1 | 7.2 | 10.2 | 16.2 |
| 30 | 8.25 | 441 | 6.5 | 9.2 | 13.0 | 21.0 |
| 31 | 12.95 | 550 | 8.2 | 11.6 | 16.4 | 26.0 |
| 32 | 20.71 | 682 | 10.6 | 14.9 | 21.0 | 34.0 |
| 33 | 30.60 | 828 | 12.7 | 18.2 | 26.0 | 41.0 |
| 34 | 50.95 | 1078 | 16.5 | 23.0 | 33.0 | 52.0 |
| 35 | 83.92 | 1392 | 21.0 | 30.0 | 42.0 | 67.0 |
| 36 | 112.00 | 1500 | 26.0 | 37.0 | 52.0 | 83.0 |

¹ Continuously pulsed at stated watts and duty cycle

² Single pulse at stated watts (with coil at ambient room temperature 20°C)

³ Other coil awg sizes available — please consult factory

⁴ 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 unit rated at 6.3 VDC, specify 124910-027).

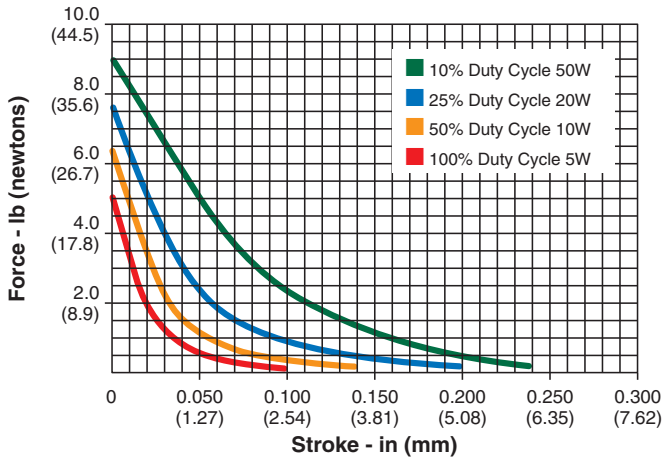
Please see www.johnsonelectric.com for our list of stock products available through distribution.



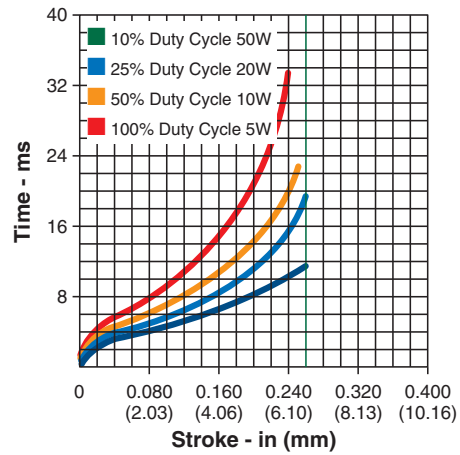
All specifications subject to change without notice.

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Typical Force @ 20°C



Typical Speed @ No Load, 20°C



Force values for reference only.

Dimensions

Inches (mm)

All solenoids are illustrated in energized state

