

# Ledex® Low Profile Size 3EF/3EC — Push or Pull

Size 3EF Short Stroke, Flat Face

Part Number: 124912-0XX

Size 3EC Medium Stroke, Conical Face

Part Number: 123423-0XX

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

## Performance

| Maximum Duty Cycle  | 100% | 50% | 25%  | 10%  |
|---|------|-----|------|------|
| Maximum ON Time (sec) when pulsed continuously <sup>1</sup> | ∞    | 100 | 36   | 8    |
| Maximum ON Time (sec) for single pulse <sup>2</sup>         | ∞    | 162 | 44   | 9    |
| Watts (@ 20°C)  | 9    | 18  | 36   | 90   |
| Ampere Turns (@ 20°C)                                       | 535  | 756 | 1070 | 1690 |

### Coil Data

| awg (0XX) <sup>3</sup> | Resistance (@20°C) | # Turns <sup>4</sup> | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|------------------------|--------------------|----------------------|-----------|-----------|-----------|-----------|
| 23                     | 0.70               | 145                  | 2.6       | 3.7       | 5.2       | 8.2       |
| 24                     | 1.18               | 192                  | 3.3       | 4.6       | 6.6       | 10.4      |
| 25                     | 1.97               | 252                  | 4.2       | 5.9       | 8.4       | 13.2      |
| 26                     | 3.26               | 328                  | 5.3       | 7.5       | 10.6      | 16.8      |
| 27                     | 5.04               | 405                  | 6.7       | 9.4       | 13.3      | 21.0      |
| 28                     | 8.02               | 510                  | 8.4       | 11.9      | 16.8      | 27.0      |
| 29                     | 12.21              | 627                  | 10.4      | 14.7      | 21.0      | 33.0      |
| 30                     | 19.20              | 780                  | 13.2      | 18.6      | 26.0      | 42.0      |
| 31                     | 31.84              | 1008                 | 16.9      | 24.0      | 34.0      | 53.0      |
| 32                     | 46.97              | 1215                 | 21.0      | 29.0      | 41.0      | 65.0      |
| 33                     | 75.30              | 1530                 | 26.0      | 37.0      | 53.0      | 83.0      |

- Continuously pulsed at stated watts and duty cycle
- Single pulse at stated watts (with coil at ambient room temperature 20°C)
- Other coil awg sizes available — please consult factory
- Reference number of turns

## Specifications

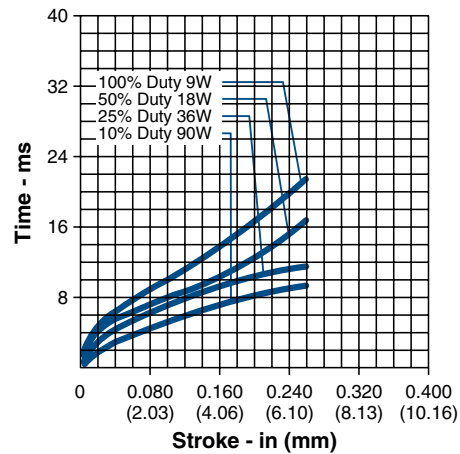
|                               |  |
|-------------------------------|--|
| Dielectric Strength           | 23-27 awg, 1000 VRMS ; 28-33 awg, 1200 VRMS  |
| Recommended Minimum Heat Sink | Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminum plate measuring 4 <sup>5</sup> / <sub>8</sub> " square by 1/8" thick |
| Coil Resistance               | 23-33 awg, ±5%   |
| Weight                        | 3.75 oz (106.3 gms)  |
| Holding Force 3EF             | 26.0 lb (115.6 N) @ 105°C  |
| Holding Force 3EC             | 12.0 lb (53.4 N) @ 105°C   |
| Dimensions                    | Ø1.312" x 0.690" L (See page 32)   |

## How to Order

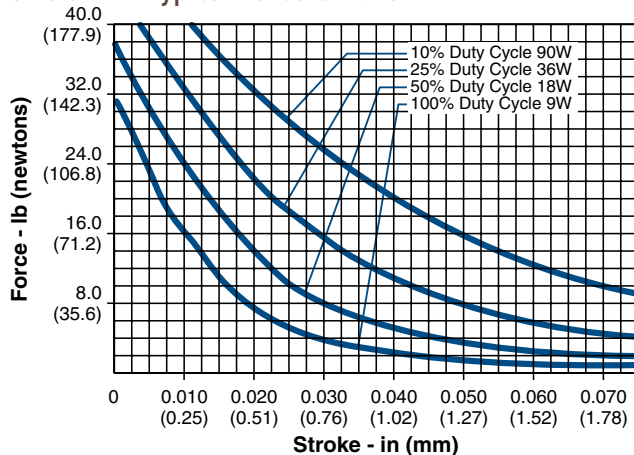
Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle unit rated at 13.3 VDC, specify 124912-027).

Please see [www.ledex.com](http://www.ledex.com) (click on Stock Products tab) for our list of stock products available through our North American distributors.

## Size 3EF and 3EC – Typical Speed @ No Load, 20°C

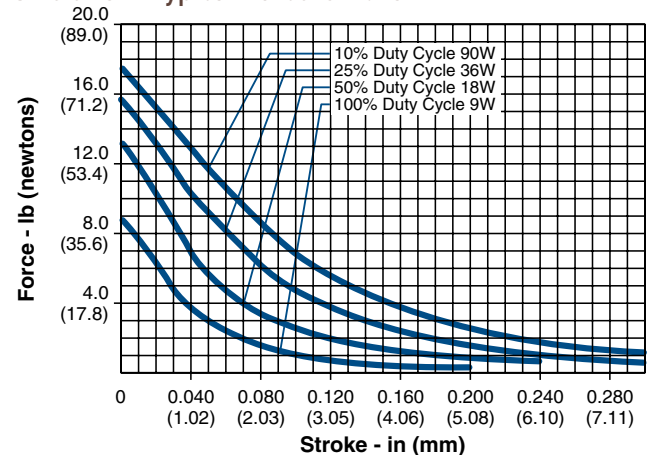


## Size 3EF— Typical Force @ 20°C



Force values for reference only.

## Size 3EC— Typical Force @ 20°C



All specifications subject to change without notice.

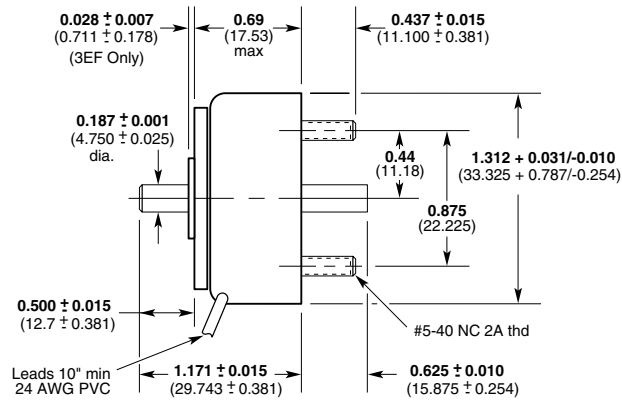
High Speed Solenoids

# Ledex® Low Profile Dimensions

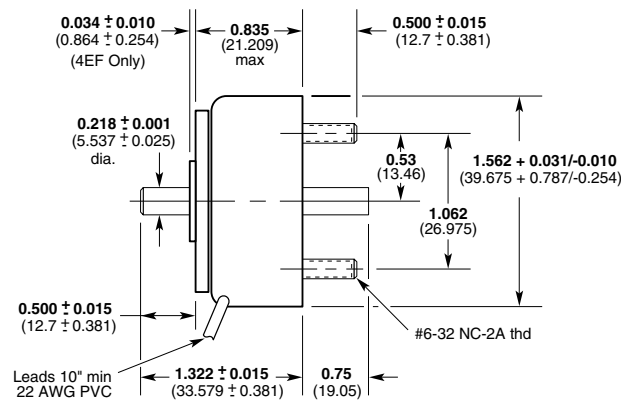
Inches (mm)

All solenoids are illustrated in energized state

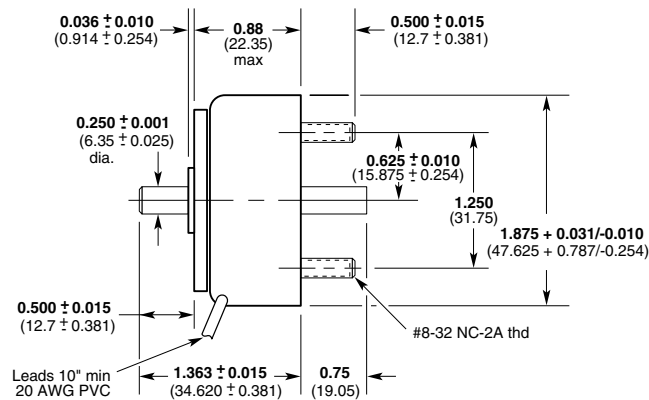
## Size 3EF/3EC



## Size 4EF/4EC



## Size 5SF



High Speed Solenoids

All solenoids are illustrated in energized state

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