

Low Profile Size 4EF/4EC — Push or Pull

LINEAR Low Profile

Size 4EF Short Stroke, Flat Face

Part Number: 129440-0XX

Size 4EC Medium Stroke, Conical Face

Part Number: 129409-0XX

All products are RoHS Compliant

Performance

| Maximum Duty Cycle | 100% | 50% | 25% | 10% |
|---|------|------|------|------|
| Maximum ON Time (sec) when pulsed continuously ¹ | ∞ | 100 | 36 | 9 |
| Maximum ON Time (sec) for single pulse ² | ∞ | 162 | 44 | 10 |
| Watts (@ 20°C) | 12.5 | 25 | 50 | 125 |
| Ampere Turns (@ 20°C) | 714 | 1000 | 1425 | 2250 |

Coil Data

| awg (0XX) ³ | Resistance (@20°C) | # Turns ⁴ | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|------------------------|--------------------|----------------------|-----------|-----------|-----------|-----------|
| 23 | 1.59 | 266 | 4.3 | 6.0 | 8.5 | 13.4 |
| 24 | 2.20 | 301 | 5.2 | 7.3 | 10.4 | 16.4 |
| 25 | 3.54 | 384 | 6.6 | 9.2 | 13.1 | 21.0 |
| 26 | 5.67 | 486 | 8.3 | 11.7 | 16.6 | 26.0 |
| 27 | 8.76 | 600 | 10.4 | 14.6 | 21.0 | 33.0 |
| 28 | 13.80 | 748 | 13.2 | 18.5 | 26.0 | 42.0 |
| 29 | 22.60 | 975 | 16.6 | 23.0 | 33.0 | 52.0 |
| 30 | 34.80 | 1190 | 21.0 | 29.0 | 42.0 | 66.0 |
| 31 | 56.70 | 1520 | 27.0 | 37.0 | 53.0 | 84.0 |
| 32 | 88.30 | 1908 | 33.0 | 46.0 | 66.0 | 104.0 |
| 33 | 138.00 | 2360 | 42.0 | 59.0 | 83.0 | 132.0 |

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

Specifications

| | |
|-------------------------------|---|
| Dielectric Strength | 23-24 awg, 1000 VRMS ; 25-33 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 6 $\frac{1}{4}$ " square by $\frac{1}{8}$ " thick |
| Coil Resistance | 23-33 awg, ±5% |
| Weight | 6.0 oz (170 gms) |
| Holding Force 4EF | 37.0 lb (164.6 N) @ 105°C |
| Holding Force 4EC | 16.0 lb (71.2 N) @ 105°C |

How to Order

Add the coil awg number (0XX) to the part number (for example: to order a 25% duty cycle unit rated at 21 VDC, specify 129440-027).

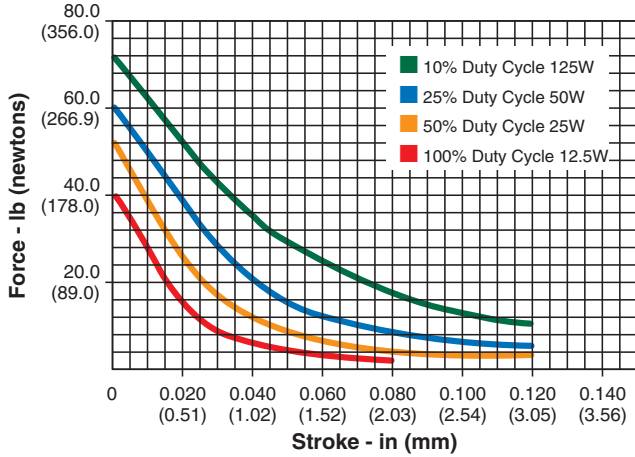
Please see www.johnsonelectric.com for our list of stock products available through distribution.

All specifications subject to change without notice.

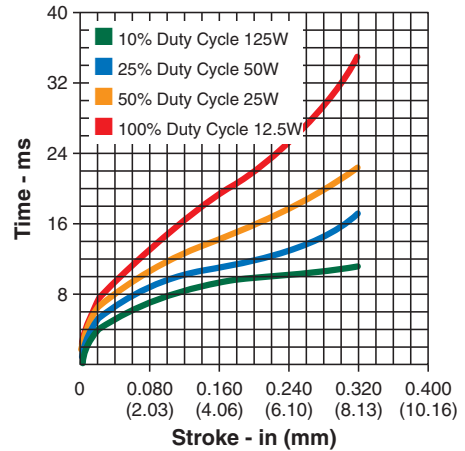


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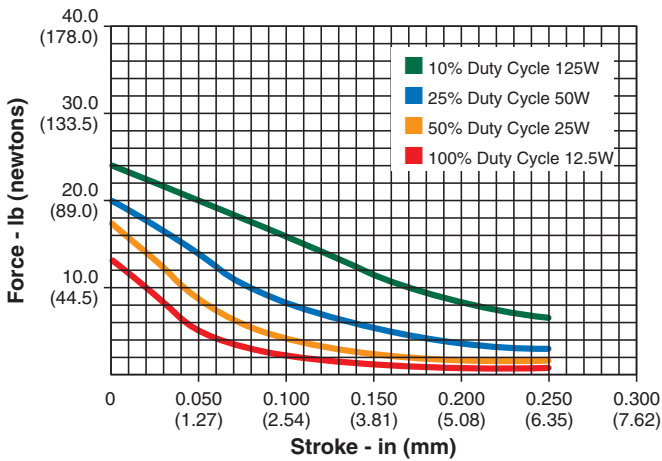
Size 4EF— Typical Force @ 20°C



Size 4EF and 4EC—Typical Speed @ No Load, 20°C



Size 4EC— Typical Force @ 20°C



Force values for reference only.

Dimensions

Inches (mm)

All solenoids are illustrated in energized state

