

# 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 <sup>1</sup>	∞	100	36	7
Maximum ON Time (sec) for single pulse <sup>2</sup>	∞	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) <sup>3</sup>	Resistance (@20°C)	# Turns <sup>4</sup>	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

<sup>1</sup> Continuously pulsed at stated watts and duty cycle

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

<sup>3</sup> Other coil awg sizes available — please consult factory

<sup>4</sup> 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).

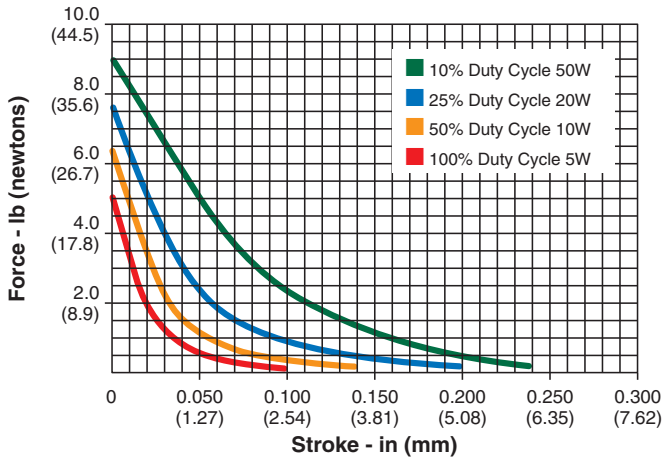
Please see [www.johnsonelectric.com](http://www.johnsonelectric.com) for our list of stock products available through distribution.

All specifications subject to change without notice.

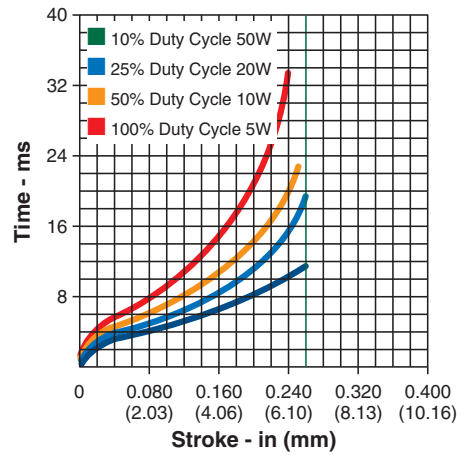


# Low Profile Size 1EC — Push or Pull

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

