

Low Profile Size 3EF/3EC — Push or Pull

LINEAR Low Profile

Size 3EF Short Stroke, Flat Face

Part Number: 124912-0XX

All products are RoHS Compliant

Size 3EC Medium Stroke, Conical Face

Part Number: 123423-0XX

Performance

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

Coil Data

awg (0XX) ³	Resistance (@20°C)	# Turns ⁴	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

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	23-27 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 ⁵ / ₈ " 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

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).

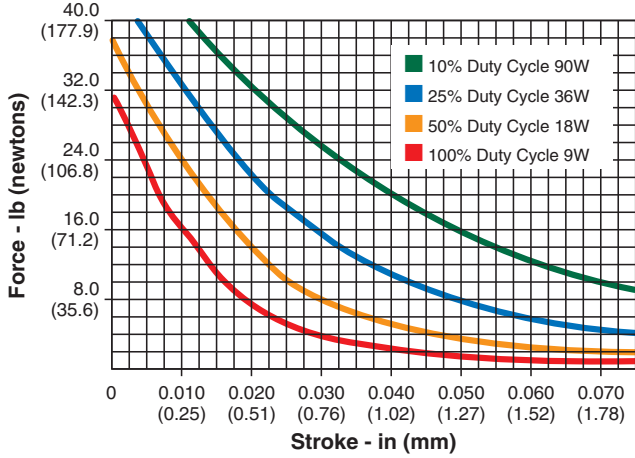
Please see www.johnsonelectric.com for our list of stock products available through distribution.



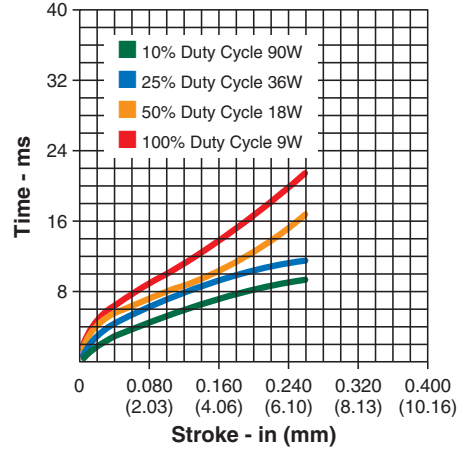
All specifications subject to change without notice.

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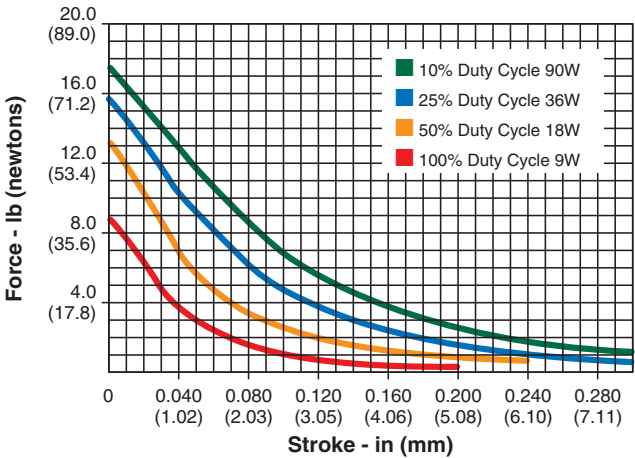
Size 3EF— Typical Force @ 20°C



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



Size 3EC— Typical Force @ 20°C



Force values for reference only.

Dimensions

Inches (mm)

All solenoids are illustrated in energized state

