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Find the *Ledex H-2744-031* at our website: ***Click HERE***

Ledex® Rotary Solenoids Size 2E Precision Elongated Coil

Performance Specifications

Stroke	Holding Torque[2] (lb-in)	Starting Torque (lb-in)[1] @ 20°C Maximum Duty Cycle 100%	50%	25%	10%	5%
25°	0.5	0.2	0.4	0.7	1.4	1.7
35°	*	0.2	0.3	0.5	1.1	1.3
45°	0.3	0.1	0.2	0.4	0.7	0.9

All data is at 20°C coil temperature. Force (torque) outputs degrade with elevated temperatures.

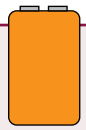
[1] Gross starting torques are shown. For net available starting torque, subtract return spring torque of 0.06 lb.-in. ±20%.

[2] Holding torque is shown at the stabilized temperature of 105°C and continuous duty.

* Consult factory.

- Well-suited for battery operation.

See the "Battery Operated Solenoids" section for complete information.

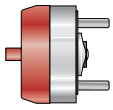
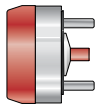
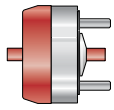


All catalog products manufactured after April 1, 2006 are RoHS Compliant

How to Order

1. Using the Performance Chart to the left, select one of the five columns which provides the appropriate duty cycle for your application. Reading down this column locate the torque for the stroke you need. For net available starting torque, subtract return spring torque of 0.06 lb.-in. ±20% (if torque is insufficient go to next larger solenoid size).
2. Use the chart below to select the model number corresponding to your desired design, stroke and direction of rotation (as viewed from armature end, opposite mounting studs).
3. Using the Specification Chart to the right, select the same duty cycle column. Follow down the column into the VDC ratings. Select the voltage which most closely matches your supply voltage. Read across to the left to select the coil awg suffix.
4. Replace the last two digits of the model number (XX) with the coil awg number to complete the part number.

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

	• Armature cover • Armature end shaft • Return spring		• Armature cover • Base end shaft • Return spring		• Armature cover • Double shaft • Return spring	
						
Stroke/ Direction*	Nom. Axial Stroke	Standard	Long Life	Standard	Long Life	Standard	Long Life
25° CW	0.025"	H-1244-0XX	L-1244-0XX	H-1024-0XX	L-1024-0XX	H-2390-0XX	L-2390-0XX
25° CCW	0.025"	H-3259-0XX	L-3259-0XX	H-2452-0XX	L-2452-0XX	H-2389-0XX	L-2389-0XX
35° CW	0.025"	H-1294-0XX	L-1294-0XX	H-2116-0XX	L-2116-0XX	H-3405-0XX	L-3405-0XX
35° CCW	0.025"	H-1159-0XX	L-1159-0XX	H-15004-0XX	L-15004-0XX	H-15111-0XX	L-15111-0XX
45° CW	0.025"	H-2264-0XX	L-2264-0XX	H-2117-0XX	L-2117-0XX	H-1344-0XX	L-1344-0XX
45° CCW	0.025"	H-2265-0XX	L-2265-0XX	H-2450-0XX	L-2450-0XX	H-15046-0XX	L-15046-0XX

* Direction of rotation (cw – clockwise or ccw – counterclockwise) is viewed from the armature end of the solenoid opposite the mounting studs.

Note: The XX in the part number suffix must be filled in with the awg of your choice.

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Ledex® Rotary Solenoids Size 2E Precision Elongated Coil

Coil Specifications

Maximum Duty Cycle	100%	50%	25%	10%	5%
Maximum ON Time (sec) when pulsed continuously[1]	∞	100	36	7	2.5
Maximum ON Time (sec) for single pulse[2]	∞	162	44	8	2.8
Watts (@ 20°C)	7	14	28	70	140
Ampere Turns (@ 20°C)	425	602	849	1350	1904

Coil Data

awg (0XX)[3]	Resistance (@20°C)	# Turns[4]	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
24	0.68	130	2.2	3.2	4.5	7.1	10.0
25	1.16	174	2.8	4.0	5.7	9.0	12.7
26	1.96	231	3.6	5.1	7.2	11.5	16.2
27	3.16	296	4.5	6.4	9.0	14.4	20.0
28	5.10	378	5.7	8.1	11.5	18.2	26.0
29	6.94	423	7.0	9.9	13.9	22.0	31.0
30	11.03	530	8.8	12.5	17.7	28.0	40.0
31	16.85	649	11.0	15.6	22.0	35.0	49.0
32	28.15	858	13.9	19.8	28.0	44.0	63.0
33	42.75	1036	17.5	25.0	35.0	56.0	79.0
34	69.56	1312	23.0	32.0	45.0	72.0	101.0
35	112.00	1674	29.0	40.0	57.0	91.0	128.0

General Specifications

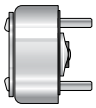
Dielectric Strength	1000 VRMS, all coils
Recommended Minimum Heat Sink	Maximum watts dissipated by solenoid are based on an unrestricted flow of air at 20°C, with solenoid mounted on the equivalent of an aluminum plate measuring 3 3/8" square by 1/8" thick.
Coil Resistance	±5% tolerance
Starting Torque	Gross torque values are shown. For net starting torque, subtract return spring torque
Return Spring Torque	0.06 pound-inches ±20%
Weight	2 oz (56.7 gms)
Dimensions	See page D29

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, consult factory.
4 Reference number of turns.

All specifications subject to change without notice.

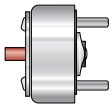
ROTARY Solenoids

- No shafts
- 3 tapped holes
- Return spring



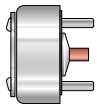
Standard	Long Life
H-2168-0XX	L-2168-0XX
H-2346-0XX	L-2346-0XX
H-2193-0XX	L-2193-0XX
H-2483-0XX	L-2483-0XX
H-1079-0XX	L-1079-0XX
H-2744-0XX	L-2744-0XX

- Armature end shaft
- 3 tapped holes
- Return spring



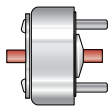
Standard	Long Life
H-1094-0XX	L-1094-0XX
H-2670-0XX	L-2670-0XX
H-2685-0XX	L-2685-0XX
H-15094-0XX	L-15094-0XX
H-2362-0XX	L-2362-0XX
H-3112-0XX	L-3112-0XX

- Base end shaft
- 3 tapped holes
- Return spring



Standard	Long Life
H-2933-0XX	L-2933-0XX
H-2748-0XX	L-2748-0XX
H-1088-0XX	L-1088-0XX
H-15615-0XX	L-15615-0XX
H-3265-0XX	L-3265-0XX
H-2436-0XX	L-2436-0XX

- Double shaft
- 3 tapped holes
- Return spring



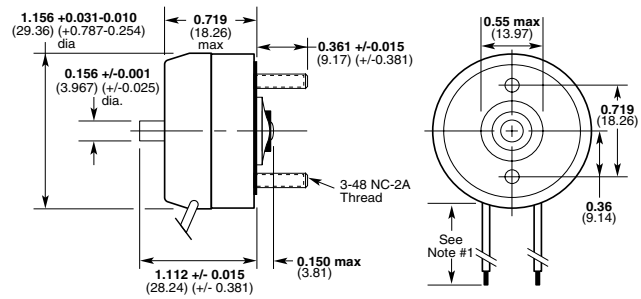
Standard	Long Life
H-2411-0XX	L-2411-0XX
H-2537-0XX	L-2537-0XX
H-2994-0XX	L-2994-0XX
H-15220-0XX	L-15220-0XX
H-3244-0XX	L-3244-0XX
H-3245-0XX	L-3245-0XX

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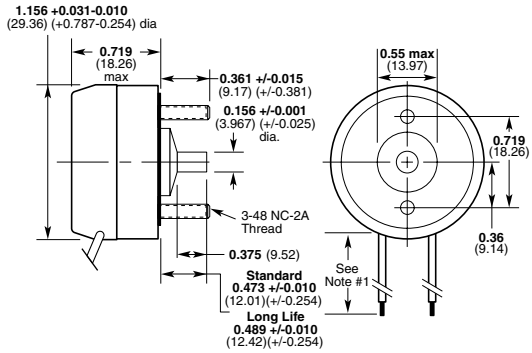
Ledex® Rotary Solenoids 2E Dimensions

Inches (mm)

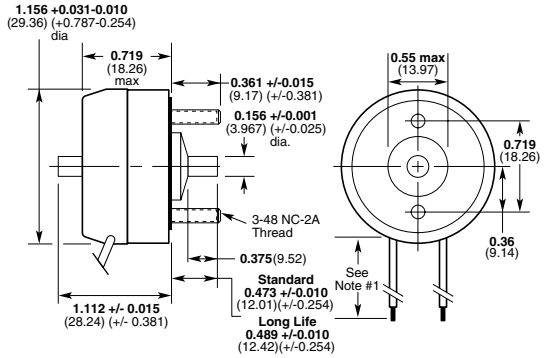
Armature Cover Configuration — Armature End Shaft



Armature Cover Configuration — Base End Shaft



Armature Cover Configuration — Double Shaft



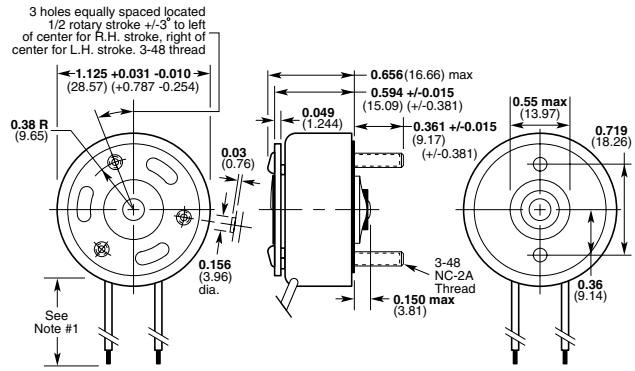
Notes:

1) All configurations have 10" (254 mm) minimum leads, 24 awg, PVC insulation.

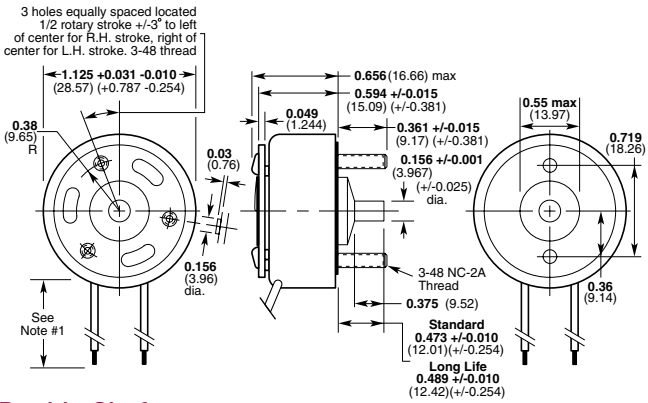
2) For electrical specs and performance charts, see pages D12-D13.

All specifications subject to change without notice.

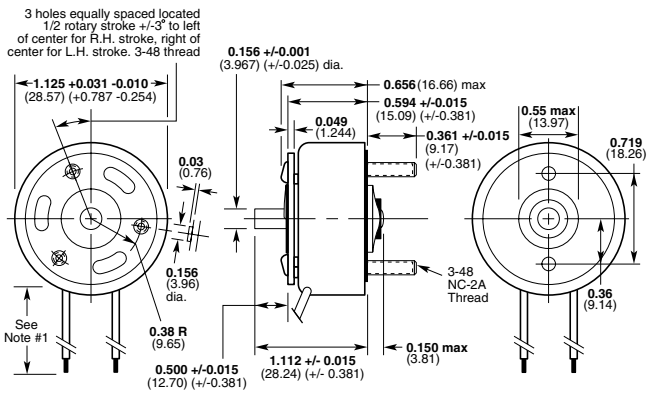
No Shaft



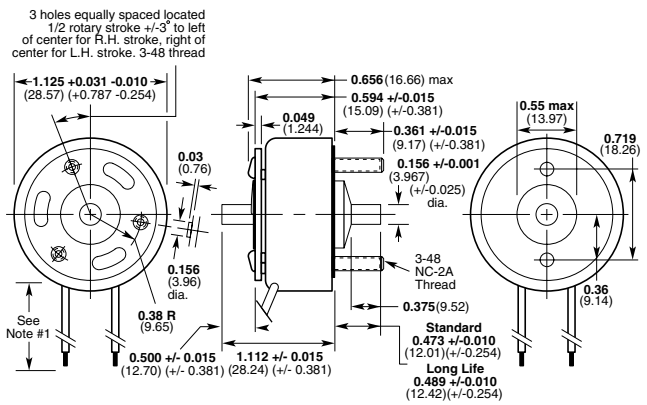
Base End Shaft



Armature End Shaft



Double Shaft



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