

# Dormeyer® Open Frame Solenoids

## Selection – DC Operation

Size	Frame Type	Coil Type <sup>(1)</sup>	Height (inches)	Width (inches)	Length (inches)	Max. Stroke (inches)	Nominal Stroke (inches)	Typical Force (lbs)		Page
								Nominal Stroke and 100% Rated Voltage @ 100% Duty	25% Duty	
B4HD	Box	OM	1.63	1.45	2.18	1.00	0.50	0.8	3.5	G6
B11	Box	OM	1.18	0.94	1.86	0.80	0.40	0.2	1.0	G7
B14	Box	T	1.02	0.79	1.45	0.60	0.20	0.5	1.9	G8
B16	Box	T	0.48	0.39	0.99	0.15	0.05	0.1	0.3	G9
B17	Box	T	0.59	0.51	0.95	0.18	0.05	0.2	0.6	G10
B20	Box	T	0.94	0.81	1.14	0.50	0.25	0.1	0.4	G11
B21	Box	T	1.31	1.31	1.20	0.50	0.25	0.6	2.2	G12
B22	Box	OM	1.47	1.31	1.61	1.00	0.40	0.6	2.2	G13
B27	Box	T	0.94	0.81	1.63	0.40	0.20	0.9	1.5	G1 Addendum
B41	Box	T	2.03	1.73	3.05	1.00	0.50	3.0	11.0	G14
B75	Box	T	1.10	1.00	1.63	0.60	0.20	1.1	3.4	G15
C5	C	T	0.46	0.41	0.94	0.20	0.05	0.7	0.2	G16
C5-L	Latching	T	0.46	0.41	0.94	0.20	0.05	n/a	0.4	G17
C8	C	OM	0.81	0.75	1.13	0.50	0.25	0.05	0.7	G18
C9	C	OM	1.25	1.38	1.06	0.50	0.25	0.3	1.0	G19
C15	C	T	1.00	1.06	1.14	0.50	0.25	0.1	0.6	G20
C26	C	OM	1.06	0.85	1.73	0.75	0.50	0.1	0.5	G21
C33	C	OM	1.14	1.31	1.36	0.50	0.25	0.3	1.1	G22
C34	C	OM	1.44	1.31	1.66	1.00	0.50	0.2	1.0	G23

## Selection – AC Operation

Size	Frame Type	Coil Type <sup>(1)</sup>	Height (inches)	Width (inches)	Length (inches)	Max. Stroke (inches)	Nominal Stroke (inches)	Typical Force (lbs)		Page
								Nominal Stroke and 100% Rated Voltage @ 100% Duty	20% Duty	
B4HD	Box	OM	1.63	1.45	2.18	1.00	0.50	1.3	5.0	G24
B11	Box	OM	1.18	0.94	1.86	1.00	0.40	0.7	1.3	G25
B20	Box	T	0.94	0.81	1.14	0.50	0.25	0.2	0.5	G26
B21	Box	T	1.31	1.31	1.20	0.63	0.25	0.9	1.6	G27
B22	Box	OM	1.47	1.31	1.61	1.00	0.40	1.2	2.6	G28
C8	C	OM	0.81	0.75	1.13	0.50	0.25	0.2	0.4	G29
C9	C	OM	1.25	1.38	1.06	0.50	0.25	1.3	2.5	G30
C15	C	T	1.00	1.06	1.14	0.50	0.25	0.6	0.8	G31
C26	C	OM	1.06	0.85	1.73	1.00	0.50	0.3	0.7	G32
C33	C	OM	1.14	1.31	1.36	0.50	0.25	0.6	1.2	G33
C34	C	OM	1.44	1.31	1.66	1.00	0.50	1.1	2.1	G34
1000	1/2" Stack	OM	1.44	1.19	1.61	0.75	0.375	2.0	3.0	G35
1000	3/4" Stack	T	1.43	1.44	1.61	0.75	0.375	2.5	4.0	G36
2000	3/4" Stack	OM	2.06	1.81	2.50	1.00	0.50	6.3	7.8	G37
2000	1" Stack	OM	2.06	2.06	2.50	1.00	0.50	9.1	11.9	G38
3000	1" Stack	OM	2.94	2.38	2.97	1.25	0.50	11.9	20.0	G39

<sup>(1)</sup> OM = Overmolded; T = Taped

All specifications subject to change without notice.

# Dormeyer® Size C5-L — DC Operation

Part Number: C5 - L XXX - B - 1

## Magnetic Latching

Select from performance chart below

### Specifications

Operation	Pull
Dielectric Strength	500 VRMS for one second
Unlatch Voltage	See schematic and coil data below
Coil Insulation	Class "B": 130°C max. temperature standard. Other temperature classes are available
Coil Termination	0.025 inch square pin terminals
Plunger Pole Face	Flat face with return spring (other options available upon request)
Spring Force	12.34 oz-in; 2.40 oz latched position
Plunger Weight	0.10 oz. (2.8 g)
Total Weight	0.42 oz. (11.9 g)
Dimensions	See page G44

### Performance

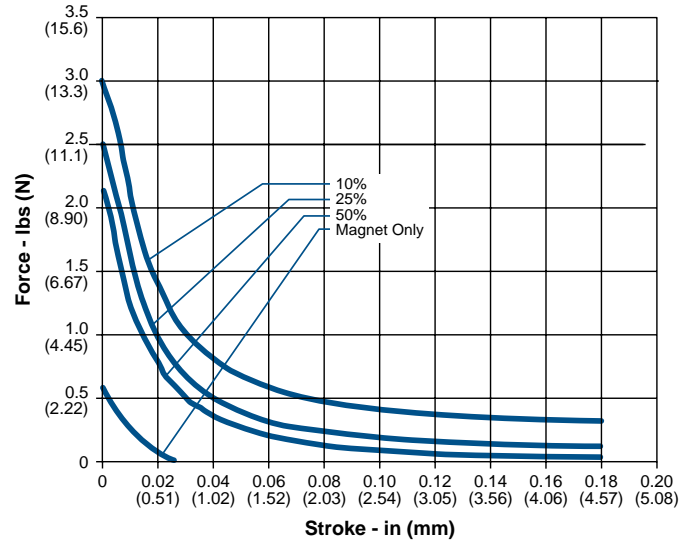
Maximum Duty Cycle	Unlatch Voltage			
	50%	25%	10%	
Maximum ON Time (sec)	∞	145	47	14
Watts (@ 20°C)	3	6	12	30
Ampere Turns (@ 20°C)	422	564	844	1268

Coil Data						
Part Number	Resistance (@20°C)	Ref # Turns	VDC (Nom)	VDC (Nom)	VDC (Nom)	VDC (Nom)
C5-L273-B-1	2.88	406	3	4	6	9
C5-L272-B-1	11.52	795	6	8	12	19
C5-L271-B-1	25.77	1222	9	12	18	28
C5-L270-B-1	48.65	1642	12	17	24	38
C5-L269-B-1	72.84	1968	15	21	30	47
C5-L268-B-1	152.20	2860	21	30	43	68
C5-L267-B-1	191.73	3202	24	34	48	76

#### NOTES:

- All data is typical.
- Force testing is done with the solenoid in the horizontal position.
- All data reflects operation with no heatsink.
- Other coil terminations available.
- All specifications subject to change without notice.

### Force (Net, With Spring)



### Coil Polarity Schematic

Latch: A+ B-  
Unlatch: A- B+



### How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 48 VDC, specify C5-L-267-B-1.

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.

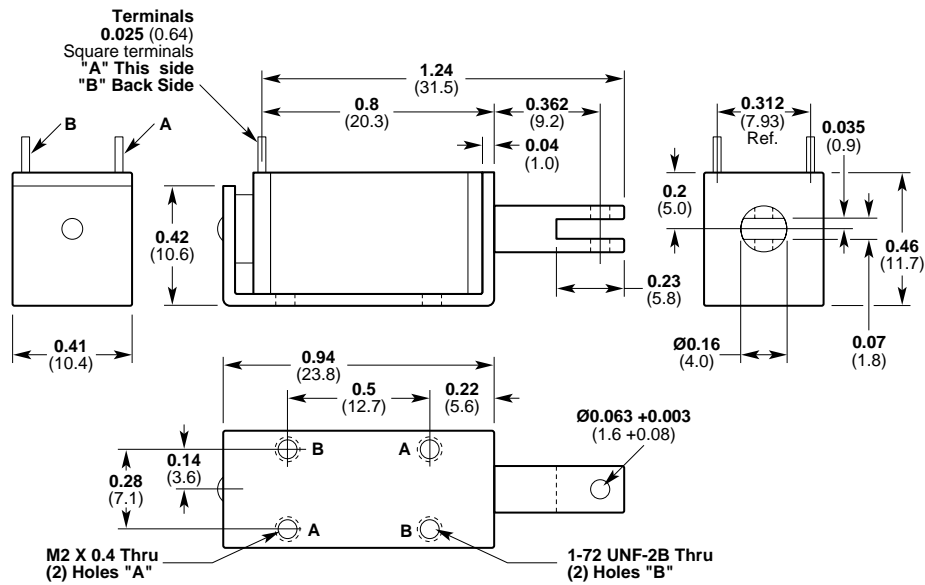
# Dormeyer® C Frame Dimensions

Inches (mm)

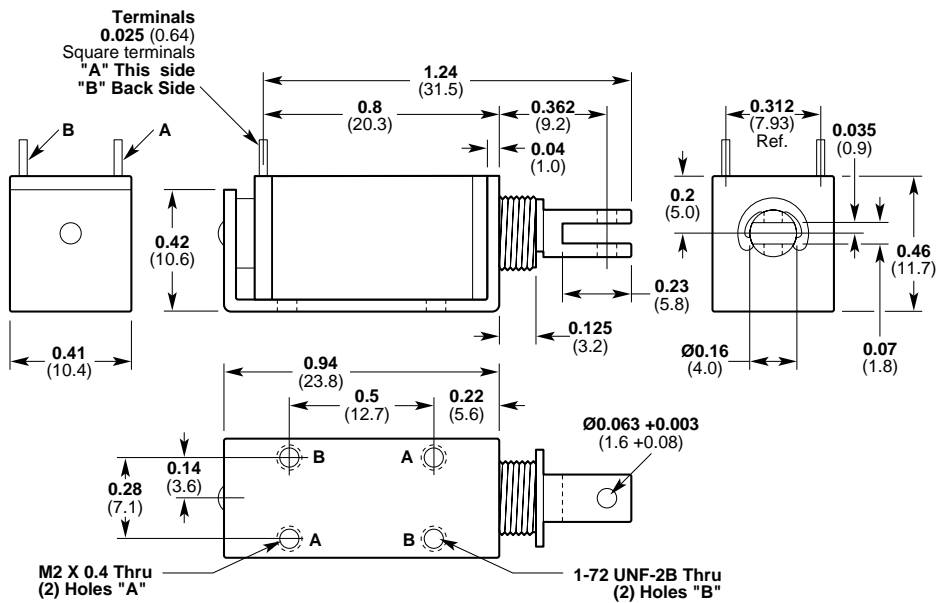
All specifications subject to change without notice.

All solenoids are illustrated in energized state

C5



C5-L



LINEAR Open Frame