

Dormeyer® Open Frame Solenoids

Selection – DC Operation

| Size | Frame Type | Coil Type ⁽¹⁾ | 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 ⁽¹⁾ | 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 |

⁽¹⁾ OM = Overmolded; T = Taped

All specifications subject to change without notice.

Dormeyer® Size C5 — DC Operation

Part Number: C5 - - B- 1

Select from performance chart below

Specifications

| | |
|-------------------------|---|
| Operation | Pull |
| Dielectric Strength | 500 VRMS for one second |
| Continuous Duty Cycle | 100% At 20°C ambient temperature |
| Intermittent Duty Cycle | See 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 | 60° conical |
| Plunger Weight | 0.08 oz. (2.2 g) |
| Total Weight | 0.42 oz. (11.9 g) |
| Dimensions | See page G44 |

Performance

| Maximum Duty Cycle | 100% | 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 |

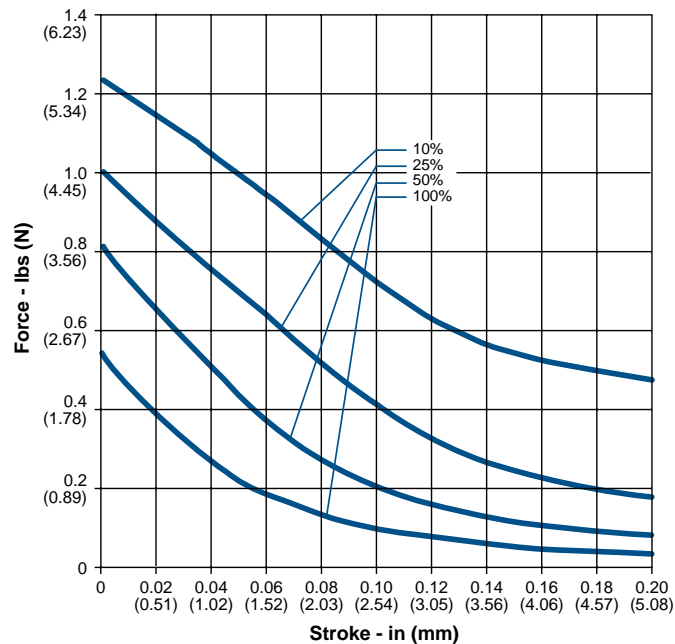
Coil Data

| Part Number | Resistance (@20°C) | Ref # Turns | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|-------------|--------------------|-------------|-----------|-----------|-----------|-----------|
| C5-273-B-1 | 2.88 | 406 | 3 | 4 | 6 | 9 |
| C5-272-B-1 | 11.52 | 795 | 6 | 8 | 12 | 19 |
| C5-271-B-1 | 25.77 | 1222 | 9 | 12 | 18 | 28 |
| C5-270-B-1 | 48.65 | 1642 | 12 | 17 | 24 | 38 |
| C5-269-B-1 | 72.84 | 1968 | 15 | 21 | 30 | 47 |
| C5-268-B-1 | 152.20 | 2860 | 21 | 30 | 43 | 68 |
| C5-267-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 (Gross, Without Spring)



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 C5-267-B-1.

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

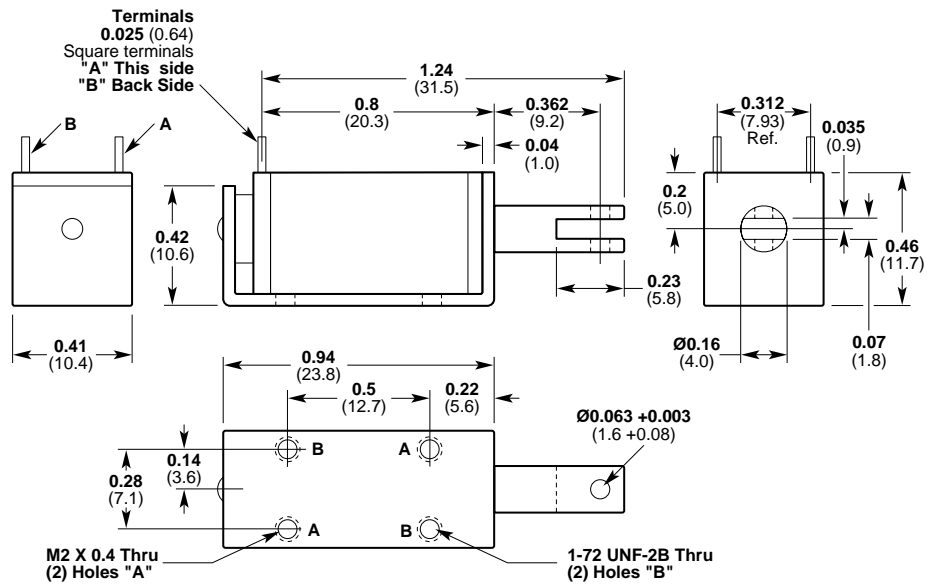
Dormeyer® C Frame Dimensions

Inches (mm)

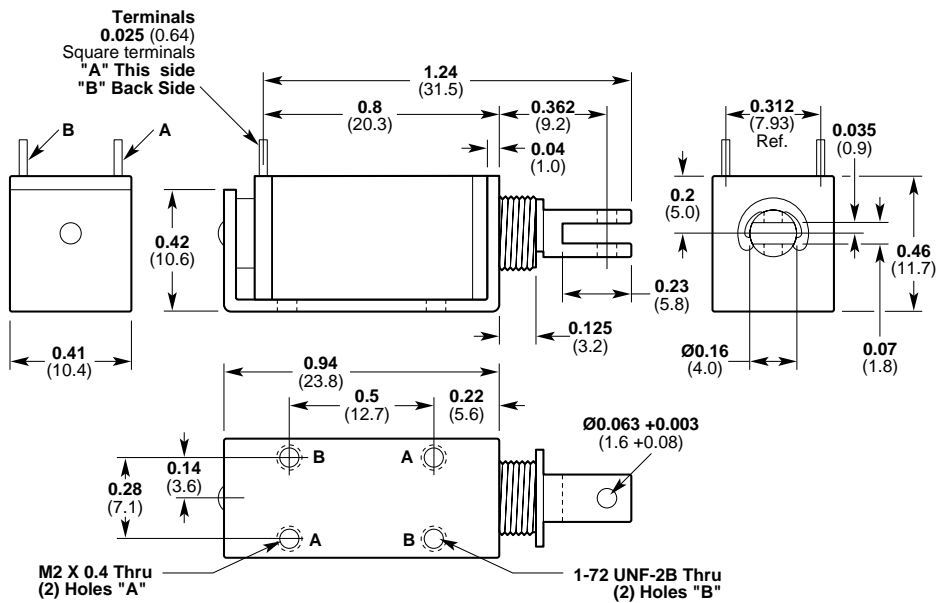
All specifications subject to change without notice.

All solenoids are illustrated in energized state

C5



C5-L



LINEAR Open Frame