Ledex®
Open Frame Solenoids

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>Force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4.5</td>
<td>2.5</td>
</tr>
<tr>
<td>9</td>
<td>5.0</td>
</tr>
<tr>
<td>13.5</td>
<td>7.5</td>
</tr>
<tr>
<td>18</td>
<td>10.0</td>
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<tr>
<td>22.5</td>
<td>12.5</td>
</tr>
<tr>
<td>27</td>
<td>15.0</td>
</tr>
</tbody>
</table>

- 50% Duty Cycle: 52.2W
- 25% Duty Cycle: 20.8W
- 50% Duty Cycle: 10.4W
- 100% Duty Cycle: 5.2W
The open frame solenoid is the simplest solenoid device consisting of an open iron frame, an overmolded or taped coil, and a movable plunger in the centre of the coil. Open frame solenoids are the most economical of all the solenoid types, and are typically selected for applications in which extremely long life and precise positioning are not critical.

Applications for Ledex® DC open frame devices are numerous. As with all types of solenoids, open frame models are well suited for applications which require either locking or latching functions.

Applications for DC open frame solenoids include residential and commercial door locks, credit card key “smart” locks, pharmaceutical compartment locks, circuit breakers, pinch valves, and many more.

**Principle of Operation**

The open frame solenoid consists of an open iron frame, a coil, and a movable plunger in the centre of the coil.

**Selection Overview**

Use the selection charts on the following page to determine which model offers the desired performance and mechanical specifications.

Refer to the individual frame size specification pages for complete performance and mechanical data.

Even with our many standard solenoid designs, our customers often require a product with unique features or performance capabilities. If you don’t find what you’re looking for in the catalogue, please give us a call and talk to one of our application engineers.
Design Considerations

Construction

Open frame solenoids are designed with two frame styles, the C Frame style, in which the coil is enclosed on one side, and the Box Frame style in which the coil is enclosed on two sides. The Box Frame style provides slightly higher force output and is more rugged in design.

Tapped mounting holes are used for easy installation and interchangeability.

Most models have slotted and cross drilled plungers for easy load attachment.

The plunger is plated for corrosion resistance, and provides a low coefficient of friction and long life.

Over molded coils are available in both Box Frame and C Frame solenoids and offer excellent protection from moisture and humidity. Some solenoids are UL recognised. Most have UL recognised coil insulation systems.

Life

When selecting an open frame solenoid, as with any other solenoid style, it is important to consider the effects of heat, since an increase in coil temperature reduces the work output and the life of the unit. Life ratings extend to 5 million cycles depending on the product size and application. Consult the factory for longer life of 500,000 or more cycles, and other special requirements.

Duty Cycle

Duty cycle is determined by solenoid ON time/(ON + OFF time).

For example: a solenoid is actuated for 30 seconds, then off for 90 seconds.

\[
\text{Duty Cycle} = \frac{30 \text{ sec ON}}{30 \text{ sec ON} + 90 \text{ sec OFF}} = \frac{30}{120} = 1/4 \text{ or 25% duty cycle.}
\]

Performance Curves

The Force/Stroke performance curves in this section serve as guides to determine the solenoid size needed to produce a desired force at a given stroke, duty cycle, and power source. All Force/Stroke curves are performed under standard test conditions: ambient temperature of 20°C. A design safety factor of 1.3 to 1.5 is recommended. For example, when a 20 N pull force is required, select a model with a safety factor of 1.5 to 1.5 times (26.3 N).
On-Off DC Open Frame Solenoids

DC actuated units are available in box frame and C frame design styles in a variety of models and sizes.

Models are available for continuous use and intermittent duty.

For low duty cycle applications, consider a magnetic latching open frame.

Box Frame
This solenoid has a 4-sided closed box frame and solid plunger and is, therefore, more electrically efficient than the C Frame solenoid. The closed, box frame also provides improved mechanical strength.

C Frame
C Frame solenoids consist of a formed C-shaped steel frame and solid plunger. Therefore, these solenoids are less efficient and less costly than their Box Frame counterparts.

---

<table>
<thead>
<tr>
<th>Size</th>
<th>Frame Type</th>
<th>Coil Type(1)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Max. Stroke (mm)</th>
<th>Nominal Stroke (mm)</th>
<th>Typical Force (N) Nominal Stroke (10%) and 100% Rated Voltage @ 25% Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>B12M</td>
<td>Box</td>
<td>T</td>
<td>10.2</td>
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<td>16.0</td>
<td>5.0</td>
<td>1.9</td>
<td>0.10 0.6</td>
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<td>C5M</td>
<td>C</td>
<td>T</td>
<td>11.7</td>
<td>10.4</td>
<td>23.8</td>
<td>5.0</td>
<td>2.5</td>
<td>0.45 1.9</td>
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<td>0.4 1.7</td>
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<td>15.0</td>
<td>5.0</td>
<td>2.2 8.5</td>
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<tr>
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<td>5.0</td>
<td>2.2 8.8</td>
</tr>
<tr>
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<td>5.0</td>
<td>2.2 8.8</td>
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<td>2.2 6.0</td>
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<td>2.0 11.0</td>
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<td>OM</td>
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<td>33.3</td>
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<td>10.0</td>
<td>5.8 12.6</td>
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<td>3.6 15.0</td>
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<td>B41M</td>
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<td>25.0</td>
<td>12.5</td>
<td>12.0 49.0</td>
</tr>
</tbody>
</table>

(1) OM = Overmolded; T = Taped
(2) Using flat face plunger

All specifications subject to change without notice. Force values for reference only.
Magnetic Latching DC Open Frame Solenoids

Magnetic latching solenoids are designed for low duty cycle applications where the solenoid’s energised position is needed for an extended period of time.

When power is applied to the solenoid, the plunger moves to its energised position. The plunger latches magnetically in this position and remains there, consuming no power, until a negative electrical pulse is applied to allow the plunger to unlatch.

The reverse voltage applied is dependent on the load attached to the plunger but must be well below the initial energizing value.

While continuous duty, on/off solenoids tend to develop heat, magnetic latching solenoids do not since no power is consumed in the energised state.

Since magnetic latching solenoids are typically used in low duty cycle applications, they are also perfect candidates for battery operation. These products are therefore catalogued as standard as low as 3-6 volts.

Typical applications for magnetic latching solenoids include door closers, locks, latches and security devices. Almost any solenoid type can be developed as a magnetic latching version. We offer open frame and tubular varieties as catalogue standard products.

### Magnetic Latching DC Open Frame Solenoids

<table>
<thead>
<tr>
<th>Size</th>
<th>Frame Type</th>
<th>Coil Type(1)</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Length (mm)</th>
<th>Max. Stroke (mm)</th>
<th>Nominal Stroke (mm)</th>
<th>Typical Force (N) Nominal Stroke (2) and 100% Rated Voltage @ 25% Duty</th>
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</thead>
<tbody>
<tr>
<td>B12-L</td>
<td>Box-Latching</td>
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<td>8.0</td>
<td>10.2</td>
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<td>3.5</td>
<td>1.0</td>
<td>1.3</td>
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<tr>
<td>B12P-L</td>
<td>Box-Latching</td>
<td>T</td>
<td>8.0</td>
<td>10.2</td>
<td>16.0</td>
<td>3.5</td>
<td>1.0</td>
<td>0.9</td>
</tr>
<tr>
<td>C5M-L</td>
<td>C - Latching</td>
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<td>11.7</td>
<td>10.4</td>
<td>23.8</td>
<td>4.5</td>
<td>1.5</td>
<td>1.4</td>
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<tr>
<td>B17M-L</td>
<td>Box - Latching</td>
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<td>15.1</td>
<td>13.0</td>
<td>20.0</td>
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<td>2.0</td>
<td>0.6</td>
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<td>C8M-L</td>
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<td>OM</td>
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<td>19.1</td>
<td>28.6</td>
<td>12.5</td>
<td>5.0</td>
<td>2.7</td>
</tr>
<tr>
<td>B14M-L</td>
<td>Box - Latching</td>
<td>T</td>
<td>26.0</td>
<td>20.0</td>
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<td>125</td>
<td>3.8</td>
<td>7.0</td>
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<td>B14HD-L</td>
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<td>20.0</td>
<td>37.0</td>
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<td>16.5</td>
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<td>B14HDP-L</td>
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<td>26.0</td>
<td>20.0</td>
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<td>125</td>
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<td>16.5</td>
</tr>
<tr>
<td>B22M-L</td>
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<td>OM</td>
<td>37.3</td>
<td>33.3</td>
<td>40.9</td>
<td>12.5</td>
<td>5.0</td>
<td>9.4</td>
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</table>

(1) OM = Overmolded; T = Taped
(2) Using flat face plunger

All specifications subject to change without notice.
Ledex® Box Frame Size B4HDM

Part Number: B4HDM - XXX - M- 36

Select from performance chart below

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Pull</th>
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<tbody>
<tr>
<td>Dielectric Strength</td>
<td>1500 VRMS for one second</td>
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<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>52 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “A”: 105°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>3/16” QC</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>66.6 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>382.7 g</td>
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</tbody>
</table>

Holding Force 52 N at 20°C
Coil Insulation Class “A”: 105°C max.
Coil Termination 3/16” QC
Plunger Weight 66.6 g
Total Weight 382.7 g

Performance

Maximum Duty Cycle

<table>
<thead>
<tr>
<th>Maximum ON Time (sec) when pulsed continuously</th>
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<tr>
<td>100%</td>
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<tr>
<td>50%</td>
</tr>
<tr>
<td>25%</td>
</tr>
<tr>
<td>10%</td>
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Maximum ON Time (sec) for single pulse

<table>
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<tr>
<th>Watts (@ 20°C)</th>
<th>12.5</th>
<th>25</th>
<th>50</th>
<th>125</th>
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<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>1536</td>
<td>2174</td>
<td>3073</td>
<td>4860</td>
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Coil Data

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<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<td>B4HDM-255-M-36</td>
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<td>96</td>
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<td>B4HDM-251-M-36</td>
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<td>14239</td>
<td>120</td>
<td>170</td>
<td>240</td>
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</tbody>
</table>

Notes:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.
5. Other coil terminations available.

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 B4HDM-253-M-36.

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Force values for reference only.
Ledex® Box Frame Size B4HDM

Dimensions

All solenoids are illustrated in energised state

mm

9.09 Ref.

11.89 Typ.

23.8 Typ.

18.42 Typ.

20.62 ± 0.254

21.13 ± 0.762

23.88 ± 0.381

4.75 ± 0.381

4.75 x 0.508

Q.C. Terminals (2X)

53.85 ± 0.762

27.48 ± 0.762

55.25 ± 0.508

12.7 Typ.

2.38 Typ.

4.75 x 0.8

(8 Places)

12.7 ± 0.4

41.28 ± 0.508

20.62

± 0.254

23.8

Typ.

4.75 ± 0.4

Ø12.7

12.7

Typ.

4.75 ± 0.4

Ø3.05 /3.15

18.42

Typ.

23.88

4.75 ± 0.508

Q.C. Terminals (2X)

53.85 ± 0.762

27.48 ± 0.762

55.25 ± 0.508

12.7 Typ.

2.38 Typ.

4.75 x 0.8

(8 Places)

12.7 ± 0.4

41.28 ± 0.508

20.62

± 0.254

23.8

Typ.

4.75 ± 0.4

Ø12.7

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Ø12.7

12.7

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18.42

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23.88

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(8 Places)

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23.8

Typ.

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Ø12.7

12.7

Typ.

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18.42

Typ.

23.88

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55.25 ± 0.508

12.7 Typ.

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(8 Places)

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41.28 ± 0.508

20.62 ± 0.254

23.8

Typ.

4.75 ± 0.4

Ø12.7

12.7

Typ.

4.75 ± 0.4

Ø3.05 /3.15

18.42

Typ.

23.88

4.75 ± 0.508

Q.C. Terminals (2X)

53.85 ± 0.762

27.48 ± 0.762

55.25 ± 0.508

12.7 Typ.

2.38 Typ.

4.75 x 0.8

(8 Places)

12.7 ± 0.4

41.28 ± 0.508
Ledex® Box Frame

Size B11HDM

Part Number: B11HDM - XXX - B- 3

Specifications

- Operation: Pull
- Dielectric Strength: 1500 VRMS for one second
- Continuous Duty Cycle: 100% at 20°C ambient temperature
- Intermittent Duty Cycle: See below
- Minimum Heat Sink: None
- Holding Force: 34.5 N at 20°C
- Coil Resistance: ±5% tolerance
- Coil Insulation: Class “B”; 130°C max.
- Coil Termination: 254 mm PVC lead wires
- Plunger Weight: 38 g
- Total Weight: 192.8 g

Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec) when pulsed continuously</td>
<td>∞</td>
<td>382</td>
<td>71</td>
<td>21</td>
</tr>
<tr>
<td>Maximum ON Time (sec) for single pulse</td>
<td>∞</td>
<td>528</td>
<td>164</td>
<td>48</td>
</tr>
<tr>
<td>Watts @ 20°C</td>
<td>9</td>
<td>18</td>
<td>36</td>
<td>90</td>
</tr>
<tr>
<td>Ampere Turns @ 20°C</td>
<td>1119</td>
<td>1582</td>
<td>2238</td>
<td>3539</td>
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Coil Data

<table>
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<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<td>12.3</td>
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<td>78</td>
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<tr>
<td>B11HDM-252-B-3</td>
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<td>72</td>
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<td>160</td>
</tr>
<tr>
<td>B11HDM-251-B-3</td>
<td>1710</td>
<td>14973</td>
<td>124</td>
<td>176</td>
<td>248</td>
<td>382</td>
</tr>
</tbody>
</table>

Performance Chart

Typical Force @ 20°C

- 10% Duty Cycle 90W
- 25% Duty Cycle 36W
- 50% Duty Cycle 18W
- 100% Duty Cycle 9W

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 49 VDC, specify B11HDM-255-B-3.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.

All specifications subject to change without notice.

Force values for reference only.

www.ledex.com 1.937.454.2345 Fax: 1.937.898.8624
**Ledex® Box Frame Size B11HDM**

**Dimensions**

All solenoids are illustrated in energised state.

### Dimensions mm

- **Ø3.25**
- **50.8 ± 0.51**
- **17.4 ± 0.25**
- **4.75 ± 0.38**
- **Ø11.1**
- **31.75 ± 0.51**
- **23.88**
- **250 min leads, #24 awg PVC**
- **M5 x 0.8 (2X)**
- **8–32 UNC (2X)**
- **15.88**
- **20.62**
- **35.05 ± 0.76**
- **19.05 ± 0.51**

**Ledex® Solenoids**

www.ledex.com  1.937.454.2345  Fax: 1.937.898.8624
Ledex® Box Frame Size B12M

Part Number: B12M - XXX - B- 3

Select from performance chart below

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>500 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>2.1 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class ‘A’: 105°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC lead wires</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>1.4 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>8.5 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Duty Cycle</th>
<th>Maximum Duty Cycle</th>
<th>Maximum ON Time (sec)</th>
<th>Maximum ON Time (sec) when pulsed continuously</th>
<th>Watts (@ 20°C)</th>
<th>Ampere Turns (@ 20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100%</td>
<td>∞</td>
<td>84</td>
<td>1.3</td>
<td>178</td>
</tr>
<tr>
<td></td>
<td>50%</td>
<td>84</td>
<td>11</td>
<td>2.6</td>
<td>251</td>
</tr>
<tr>
<td></td>
<td>25%</td>
<td>84</td>
<td>2</td>
<td>5.2</td>
<td>355</td>
</tr>
<tr>
<td></td>
<td>10%</td>
<td>84</td>
<td>2</td>
<td>13</td>
<td>561</td>
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Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance @20°C</th>
<th>Ref #</th>
<th>Turns</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B12M-258-B-3</td>
<td>6.92</td>
<td>417</td>
<td>3</td>
<td>4.24</td>
<td>6</td>
<td>9.5</td>
<td></td>
</tr>
<tr>
<td>B12M-255-B-3</td>
<td>27.7</td>
<td>824</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>B12M-256-B-3</td>
<td>62.3</td>
<td>1184</td>
<td>9</td>
<td>13</td>
<td>18</td>
<td>28.5</td>
<td></td>
</tr>
<tr>
<td>B12M-254-B-3</td>
<td>110.8</td>
<td>1632</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>B12M-253-B-3</td>
<td>443.1</td>
<td>3336</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
<td></td>
</tr>
</tbody>
</table>

Performance Chart

Typical Force @ 20°C

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 B12M-255-B-5.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.
5. Magnetic latching version available.

All specifications subject to change without notice.
Ledex® Box Frame Size B12M

Dimensions

All solenoids are illustrated in energised state

- 5.0 ± 0.20
- 4.0 ± 0.20
- Ø1.5 ± 0.08 - 0.00
- M2 x 0.4 threads - (2X)
  Marked "M" this side
- 10.2 ± 0.38
- 16.0 ± 0.38
- Ø4.0 ± 0.08
- 8.0 ± 0.38
- 250 min leads, #28 awg PVC
- 4.0 ± 0.20
- 5.0 ± 0.20
- 9.0 ± 0.76
- 1-72 UNF-2B threads - (2X)

PVC

M

mm
Ledex® Box Frame Size B14M

Part Number: B14M - XXX - B- 1

Select from performance chart below

All products are RoHS Compliant

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Strength</td>
<td>1000 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>15.6 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “B”; 130°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC lead wires</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>12 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>90 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>100</td>
<td>36</td>
<td>7</td>
</tr>
</tbody>
</table>

when pulsed continuously

<table>
<thead>
<tr>
<th>Maximum ON Time (sec)</th>
<th>∞</th>
<th>480</th>
<th>180</th>
<th>45</th>
</tr>
</thead>
</table>

for single pulse

<table>
<thead>
<tr>
<th>Watts (°C)</th>
<th>5.2</th>
<th>10.4</th>
<th>20.8</th>
<th>52.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ampere Turns (°C)</td>
<td>750</td>
<td>1060</td>
<td>1500</td>
<td>2370</td>
</tr>
</tbody>
</table>

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14M-255-B-1</td>
<td>6.9</td>
<td>871</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>B14M-254-B-1</td>
<td>28.6</td>
<td>1791</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td>B14M-253-B-1</td>
<td>110</td>
<td>3450</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

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 B14M-255-B-1.

Please see www.ledex.com for our list of stock products available through our North American distributors.

Notes:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.
5. Magnetic latching version available.

All specifications subject to change without notice.

Force values for reference only.
Ledex® Box Frame Size B14M

Dimensions

All solenoids are illustrated in energised state

- Diameter (Dia.): 2.1 ± 0.3
- Length: 26.0 ± 0.254
- Hole Diameter (Ø3.09 / 2.99 Thru)
- Mounting Holes: M4 x 0.7 (4) (Same Holes Rear Side)
- Wire Dia.: 8.0 +0.038/-0.076
- Min. Length: 250 min.
Ledex® Box Frame Size B14HD

Part Number: B14HD - 2 XX - B- X

- 4 - 254 mm leads
- 6 - Terminals
- 2 - Conical Pole Configuration

All products are RoHS Compliant

Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1000 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>28.4 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “B”, 130°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC lead wires or terminal</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>24.4 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>98.4 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>100</td>
<td>27</td>
<td>7</td>
</tr>
<tr>
<td>when pulsed continuously</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>326</td>
<td>100</td>
<td>28</td>
</tr>
<tr>
<td>for single pulse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Watts @ 20°C</td>
<td>5.5</td>
<td>11</td>
<td>22</td>
<td>55</td>
</tr>
<tr>
<td>Ampere Turns @ 20°C</td>
<td>663</td>
<td>938</td>
<td>1326</td>
<td>2097</td>
</tr>
</tbody>
</table>

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance @20°C</th>
<th>Ref #</th>
<th>VDC Nom</th>
<th>VDC Nom</th>
<th>VDC Nom</th>
<th>VDC Nom</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14HD-258-BX</td>
<td>1.45</td>
<td>321</td>
<td>3.0</td>
<td>4.3</td>
<td>6.1</td>
<td>9.7</td>
</tr>
<tr>
<td>B14HD-257-BX</td>
<td>7.0</td>
<td>750</td>
<td>6.0</td>
<td>8.7</td>
<td>12.4</td>
<td>19.6</td>
</tr>
<tr>
<td>B14HD-256-BX</td>
<td>14.2</td>
<td>1068</td>
<td>9.0</td>
<td>12.5</td>
<td>17.6</td>
<td>27.9</td>
</tr>
<tr>
<td>B14HD-254-BX</td>
<td>27.5</td>
<td>1470</td>
<td>12.0</td>
<td>17.4</td>
<td>24.6</td>
<td>38.9</td>
</tr>
<tr>
<td>B14HD-253-BX</td>
<td>110.2</td>
<td>2920</td>
<td>24.0</td>
<td>34.8</td>
<td>49.2</td>
<td>77.8</td>
</tr>
</tbody>
</table>

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.
5. Magnetic latching version available.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 46.1 VDC with 254 mm lead wires, specify B14HD-258-B4.

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Force values for reference only.
Ledex® Box Frame Size B14HD

Dimensions

All solenoids are illustrated in energised state

Lead Wire Models

Terminal Connection Models
Ledex® Box Frame Size B14HDP

Part Number: B14HDP - 2 XX - B- X

4 - 254 mm leads
6 - Terminals
2 - Conical Pole Configuration

Specifications

Operation
Push
Dielectric Strength 1000 VRMS for one second

Continuous Duty Cycle
100% at 20°C ambient temperature

Intermittent Duty Cycle
See below

Holding Force
28.4 N at 20°C

Coil Insulation
Class “B”: 130°C max.

Coil Termination
254 mm PVC lead wires or terminal

Plunger Weight
25.8 g

Total Weight
100.1 g

Performance

Maximum Duty Cycle
100% 50% 25% 10%

Maximum ON Time (sec)
∞ 100 27 7
when pulsed continuously

Maximum ON Time (sec)
∞ 326 100 28
for single pulse

Watts (@ 20°C)
5.5 11 22 55

Ampere Turns (@ 20°C)
663 938 1326 2097

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14HDP-258-BX</td>
<td>1.45</td>
<td>321</td>
<td>3.0</td>
<td>4.3</td>
<td>6.1</td>
<td>9.7</td>
</tr>
<tr>
<td>B14HDP-257-BX</td>
<td>7.0</td>
<td>750</td>
<td>6.0</td>
<td>8.7</td>
<td>12.4</td>
<td>19.6</td>
</tr>
<tr>
<td>B14HDP-256-BX</td>
<td>14.2</td>
<td>1068</td>
<td>9.0</td>
<td>12.5</td>
<td>17.6</td>
<td>27.9</td>
</tr>
<tr>
<td>B14HDP-254-BX</td>
<td>27.5</td>
<td>1470</td>
<td>12.0</td>
<td>17.4</td>
<td>24.6</td>
<td>38.9</td>
</tr>
<tr>
<td>B14HDP-253-BX</td>
<td>110.2</td>
<td>2920</td>
<td>24.0</td>
<td>34.8</td>
<td>49.2</td>
<td>77.8</td>
</tr>
</tbody>
</table>

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.
5. Magnetic latching version available.

Typical Force @ 20°C

How to Order
Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 46.1 VDC with 254 mm lead wires, specify B14HDP-258-B4.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Force values for reference only.
**Ledex® Box Frame Size B14HDP**

**Dimensions**

All solenoids are illustrated in energised state.

**Lead Wire Models**

![Diagram of Lead Wire Models]

**Terminal Connection Models**

![Diagram of Terminal Connection Models]
Ledex® Box Frame Size B17M

Part Number: B17M - XXX - A- 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
- Holding Force: 3.9 N at 20°C
- Coil Insulation: Class “B”: 130°C max.
- Coil Termination: 254 mm PVC lead wires
- Plunger Weight: 2.84 g
- Total Weight: 18.4 g

Typical Force @ 20°C

- 10% Duty Cycle: 16W
- 25% Duty Cycle: 6.4W
- 50% Duty Cycle: 3.2W
- 100% Duty Cycle: 1.6W

Performance

- Maximum Duty Cycle: 100% 50% 25% 10%
- Maximum ON Time (sec) when pulsed continuously: ∞ 15 6 2
- Maximum ON Time (sec) for single pulse: ∞ 112 36 10.5
- Watts (20°C): 1.6 3.2 6.4 16
- Ampere Turns (20°C): 292 414 584 923

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance @20°C</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B17M-258-A-1</td>
<td>5.40</td>
<td>556</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>B17M-255-A-1</td>
<td>21.93</td>
<td>1112</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>B17M-256-A-1</td>
<td>50.2</td>
<td>1540</td>
<td>9</td>
<td>12</td>
<td>18</td>
<td>28.3</td>
</tr>
<tr>
<td>B17M-254-A-1</td>
<td>88.95</td>
<td>2208</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td>B17M-253-A-1</td>
<td>337</td>
<td>3687</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
<tr>
<td>B17M-252-A-1</td>
<td>1465</td>
<td>9177</td>
<td>48</td>
<td>68</td>
<td>96</td>
<td>153</td>
</tr>
</tbody>
</table>

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.
5. Magnetic latching version available.

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 B17M-253-A-1.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Force values for reference only.
Ledex® Box Frame Size B17M

Dimensions

All solenoids are illustrated in energised state

Plunger Detail

4.83 ± 0.076

1.6 ± 0.3

2.01

4.75 ± 0.3

2.05 / 2.15 Dia.

#26 AWG PVC Lead Wires

19.99 ± 0.381

24.0 ± 0.762

250 Min.

7.01 ± 0.203

8.0 ± 0.203

7.92 ± 0.635

13.0 ± 0.381

M3 X 0.5 (3 places)

15.08 ± 0.38
Ledex® Box Frame Size B20M

Part Number: B20M - XXX - A- 3

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1000 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>10.2 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class &quot;A&quot;: 105°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC lead wires</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>16.4 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>61.6 g</td>
</tr>
</tbody>
</table>

Typical Force @ 20°C

- 10% Duty Cycle 45W
- 25% Duty Cycle 18W
- 50% Duty Cycle 9W
- 100% Duty Cycle 4.5W

Stroke - mm

<table>
<thead>
<tr>
<th>Force - N</th>
<th>4.5</th>
<th>9.0</th>
<th>13.5</th>
<th>22.5</th>
<th>27</th>
<th>Max. 12.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts (@ 20°C)</td>
<td>4.5</td>
<td>9.0</td>
<td>18.0</td>
<td>45.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>429</td>
<td>608</td>
<td>858</td>
<td>1358</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 B20M-255-A-3.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.

All specifications subject to change without notice.

Force values for reference only.
Ledex® Box Frame Size B20M

Dimensions

All solenoids are illustrated in energised state

---

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.8 ± 0.381 mm</td>
<td>(11.89 ± 0.381) mm</td>
</tr>
<tr>
<td>28.96 ± 0.381 mm</td>
<td>(19.05 ± 0.762) mm</td>
</tr>
<tr>
<td>20.62 ± 0.381 mm</td>
<td>5.54 ± 0.254 mm</td>
</tr>
<tr>
<td>12.7 mm</td>
<td>(10.69 ± 0.381) mm</td>
</tr>
<tr>
<td>9.5 ± 0.4 mm</td>
<td>(3.96 ± 0.381) mm</td>
</tr>
<tr>
<td>(Ø3.05 / 3.15) Hole Thru</td>
<td>(Ø9.53) mm</td>
</tr>
</tbody>
</table>

250 Min 24 AWG PVC Lead Wires

M4 x 0.7 (2 Places)
Ledex® Box Frame Size B22M

Part Number: B22M - XXX - M- 36

Select from performance chart below

All products are RoHS Compliant

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1500 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temp</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>35.6 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “A”: 105°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>3/16” QC</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>39.7 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>212.6 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Duty Cycle (%)</th>
<th>Maximum ON Time (sec) when pulsed continuously</th>
<th>Maximum ON Time (sec) for single pulse</th>
<th>Watts (@ 20°C)</th>
<th>Ampere Turns (@ 20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>∞</td>
<td>∞</td>
<td>9.9</td>
<td>1046</td>
</tr>
<tr>
<td>50%</td>
<td>52</td>
<td>167</td>
<td>19.8</td>
<td>1482</td>
</tr>
<tr>
<td>25%</td>
<td>23</td>
<td>47</td>
<td>39.6</td>
<td>2093</td>
</tr>
<tr>
<td>10%</td>
<td>9</td>
<td>47</td>
<td>99</td>
<td>3314</td>
</tr>
</tbody>
</table>

Watts (@ 20°C)

<table>
<thead>
<tr>
<th>Duty Cycle (%)</th>
<th>Maximum ON Time (sec) when pulsed continuously</th>
<th>Maximum ON Time (sec) for single pulse</th>
<th>Watts (@ 20°C)</th>
<th>Ampere Turns (@ 20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>∞</td>
<td>∞</td>
<td>9.9</td>
<td>1046</td>
</tr>
<tr>
<td>25%</td>
<td>52</td>
<td>167</td>
<td>19.8</td>
<td>1482</td>
</tr>
<tr>
<td>50%</td>
<td>23</td>
<td>47</td>
<td>39.6</td>
<td>2093</td>
</tr>
<tr>
<td>100%</td>
<td>9</td>
<td>47</td>
<td>99</td>
<td>3314</td>
</tr>
</tbody>
</table>

Performance Chart

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>Force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>10</td>
<td>18</td>
</tr>
<tr>
<td>15</td>
<td>27</td>
</tr>
<tr>
<td>20</td>
<td>36</td>
</tr>
<tr>
<td>25</td>
<td>45</td>
</tr>
<tr>
<td>30</td>
<td>54</td>
</tr>
<tr>
<td>35</td>
<td>63</td>
</tr>
<tr>
<td>40</td>
<td>72</td>
</tr>
</tbody>
</table>

Typical Force @ 20°C

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B22M-255-M-36</td>
<td>3.64</td>
<td>635</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>B22M-254-M-36</td>
<td>14.55</td>
<td>1300</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td>B22M-253-M-36</td>
<td>58.18</td>
<td>2578</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
<tr>
<td>B22M-252-M-36</td>
<td>232.73</td>
<td>5103</td>
<td>48</td>
<td>68</td>
<td>96</td>
<td>152</td>
</tr>
<tr>
<td>B22M-251-M-36</td>
<td>1493</td>
<td>12744</td>
<td>120</td>
<td>172</td>
<td>240</td>
<td>385</td>
</tr>
</tbody>
</table>

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.
5. Other coil terminations available.

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 B22M-253-M-36.

Please see www.ledex.com for our list of stock products available through our North American distributors.
 Ledex® Box Frame Size B22M

Dimensions

All solenoids are illustrated in energised state

mm

33.32 ± 0.381
25.4
12.7

10.7
Approx.

4.75
QC Terminals

M5 x 0.8
(2 Holes)

21.46 ± 0.762

3.05 / 3.15
Dia. (2 holes)

37.29 ± 0.381

14.99
Ref.

40.87 ± 0.381

3.6 ± 0.4

9.5 ± 0.4

12.7 Dia.
Ledex® Box Frame Size B28M

Part Number: B28M - XXX - B-4

All products are RoHS Compliant

Specifications

<table>
<thead>
<tr>
<th>Operation</th>
<th>Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Strength</td>
<td>1500 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>18.7 N at 20°C</td>
</tr>
<tr>
<td>Coil Resistance</td>
<td>±5% tolerance</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “B”; 130°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC leads</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>13.4 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>110.6 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>242</td>
<td>54</td>
<td>16</td>
</tr>
<tr>
<td>when pulsed continuously</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>441</td>
<td>130</td>
<td>38</td>
</tr>
<tr>
<td>for single pulse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Watts ( @ 20°C)</td>
<td>5.2</td>
<td>10.4</td>
<td>20.8</td>
<td>52</td>
</tr>
<tr>
<td>Ampere Turns ( @ 20°C)</td>
<td>695</td>
<td>983</td>
<td>1390</td>
<td>2197</td>
</tr>
</tbody>
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Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance ( @20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B28M-255-B-4</td>
<td>7.8</td>
<td>891</td>
<td>6.4</td>
<td>9</td>
<td>12.7</td>
</tr>
<tr>
<td>B28M-254-B-4</td>
<td>28.7</td>
<td>1656</td>
<td>12.2</td>
<td>17</td>
<td>24</td>
</tr>
<tr>
<td>B28M-253-B-4</td>
<td>115</td>
<td>3281</td>
<td>24</td>
<td>35</td>
<td>49</td>
</tr>
<tr>
<td>B28M-252-B-4</td>
<td>454</td>
<td>6408</td>
<td>48</td>
<td>69</td>
<td>97</td>
</tr>
<tr>
<td>B28M-251-B-4</td>
<td>2718</td>
<td>15096</td>
<td>119</td>
<td>168</td>
<td>238</td>
</tr>
</tbody>
</table>

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 49 VDC, specify B28M-255-B-4.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.

All specifications subject to change without notice.

Ledex® Solenoids

www.ledex.com  1.937.454.2345  Fax: 1.937.898.8624
Ledex® Box Frame Size B28M

Dimensions

All solenoids are illustrated in energised state

~2.44
1.98 ± 0.38
21.84 ± 0.76
10.3
28.70 ± 0.51
30.23 ± 0.51
23.88 ± 0.51
0.625
15.88
10.16 ± 0.51
254 min
Leads 24 AWG PVC

M4 x 0.7 (2X)
6-32 UNC (2X)
Ledex® Box Frame Size B28HDM

Part Number: B28HDM - XXX - B- 4

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1500 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>27.8 N at 20°C</td>
</tr>
<tr>
<td>Coil Resistance</td>
<td>±5% tolerance</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class &quot;B&quot;: 130°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC leads</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>23.8 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>141.8 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Duty Cycle</th>
<th>Maximum On Time (sec) when pulsed continuously</th>
<th>Maximum On Time (sec) for single pulse</th>
<th>Watts (@ 20°C)</th>
<th>Ampere Turns (@ 20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100%</td>
<td>∞</td>
<td>∞</td>
<td>6.2</td>
<td>621</td>
</tr>
<tr>
<td>50%</td>
<td>159</td>
<td>477</td>
<td>12.4</td>
<td>878</td>
</tr>
<tr>
<td>25%</td>
<td>36</td>
<td>123</td>
<td>24.8</td>
<td>1242</td>
</tr>
<tr>
<td>10%</td>
<td>10</td>
<td>32</td>
<td>62</td>
<td>1963</td>
</tr>
</tbody>
</table>

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B28HDM-255-B-4</td>
<td>6</td>
<td>624</td>
<td>6.1</td>
<td>8.6</td>
<td>12.2</td>
<td>19</td>
</tr>
<tr>
<td>B28HDM-254-B-4</td>
<td>25</td>
<td>1273</td>
<td>12.4</td>
<td>18</td>
<td>25</td>
<td>39</td>
</tr>
<tr>
<td>B28HDM-253-B-4</td>
<td>99</td>
<td>2524</td>
<td>25</td>
<td>35</td>
<td>50</td>
<td>78</td>
</tr>
<tr>
<td>B28HDM-252-B-4</td>
<td>375</td>
<td>4791</td>
<td>48</td>
<td>68</td>
<td>96</td>
<td>153</td>
</tr>
<tr>
<td>B28HDM-251-B-4</td>
<td>2250</td>
<td>11257</td>
<td>119</td>
<td>167</td>
<td>236</td>
<td>374</td>
</tr>
</tbody>
</table>

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 50 VDC, specify B28HDM-253-B-4.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.
4. Pull versions standard; push versions available.
Ledex® Box Frame Size B28HDM

Dimensions

All solenoids are illustrated in energised state

M4 x 0.7 (2X)
6-32 UNC (2X)

254 min
Leads 24 AWG
PVC
Ledex® Box Frame Size B41M

Part Number: B41M - [XXX] - B- 1

All specifications subject to change without notice. Force values for reference only.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation</td>
<td>Pull</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>1000 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Holding Force</td>
<td>71.2 N at 20°C</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “A”: 105°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>254 mm PVC leads</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>158.8 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>878.9 g</td>
</tr>
</tbody>
</table>

Performance

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>95</td>
<td>60</td>
<td>14</td>
</tr>
</tbody>
</table>

when pulsed continuously

| Maximum ON Time (sec) | ∞ | 1548 | 491 | 139 |

for single pulse

<table>
<thead>
<tr>
<th>Watts (@ 20°C)</th>
<th>19</th>
<th>38</th>
<th>76</th>
<th>190</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>1981</td>
<td>2807</td>
<td>3963</td>
<td>6274</td>
</tr>
</tbody>
</table>

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (Ω)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B41M-255-B-1</td>
<td>1.84</td>
<td>608</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
</tr>
<tr>
<td>B41M-254-B-1</td>
<td>7.67</td>
<td>1432</td>
<td>12</td>
<td>17</td>
<td>24</td>
</tr>
<tr>
<td>B41M-253-B-1</td>
<td>30.19</td>
<td>2814</td>
<td>24</td>
<td>34</td>
<td>48</td>
</tr>
<tr>
<td>B41M-252-B-1</td>
<td>121.5</td>
<td>5610</td>
<td>48</td>
<td>68</td>
<td>96</td>
</tr>
<tr>
<td>B41M-251-B-1</td>
<td>793.46</td>
<td>14259</td>
<td>120</td>
<td>173</td>
<td>240</td>
</tr>
</tbody>
</table>

Performance Chart

\[ \text{Typical Force @ 20°C} \]

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 B41M-255-B-1.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Pull versions standard; push versions available.
**Ledex® Box Frame Size B41M**

**Dimensions**

All solenoids are illustrated in energised state

---

**Ledex® Solenoids**

www.ledex.com  1.937.454.2345  Fax: 1.937.898.8624
**Ledex® C Frame Size C5M**

Part Number: C5M - **XXX** - B- 1

---

**Specifications**

<table>
<thead>
<tr>
<th>Operation</th>
<th>Pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Strength</td>
<td>500 VRMS for one second</td>
</tr>
<tr>
<td>Continuous Duty Cycle</td>
<td>100% at 20°C ambient temperature</td>
</tr>
<tr>
<td>Intermittent Duty Cycle</td>
<td>See below</td>
</tr>
<tr>
<td>Coil Insulation</td>
<td>Class “B”: 130°C max.</td>
</tr>
<tr>
<td>Coil Termination</td>
<td>0.025&quot; square pin terminals</td>
</tr>
<tr>
<td>Plunger Pole Face</td>
<td>60° conical</td>
</tr>
<tr>
<td>Plunger Weight</td>
<td>2.2 g</td>
</tr>
<tr>
<td>Total Weight</td>
<td>11.9 g</td>
</tr>
</tbody>
</table>

**Performance**

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>100%</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>∞</td>
<td>145</td>
<td>47</td>
<td>14</td>
</tr>
<tr>
<td>Watts (@ 20°C)</td>
<td>3</td>
<td>6</td>
<td>12</td>
<td>30</td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>422</td>
<td>564</td>
<td>844</td>
<td>1268</td>
</tr>
</tbody>
</table>

**Coil Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C5M-273-B-1</td>
<td>2.88</td>
<td>406</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>C5M-272-B-1</td>
<td>11.52</td>
<td>795</td>
<td>6</td>
<td>8</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>C5M-271-B-1</td>
<td>25.77</td>
<td>1222</td>
<td>9</td>
<td>12</td>
<td>18</td>
<td>28</td>
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<tr>
<td>C5M-270-B-1</td>
<td>48.65</td>
<td>1642</td>
<td>12</td>
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</tr>
<tr>
<td>C5M-269-B-1</td>
<td>72.84</td>
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<td>15</td>
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</tr>
<tr>
<td>C5M-268-B-1</td>
<td>152.20</td>
<td>2860</td>
<td>21</td>
<td>30</td>
<td>43</td>
<td>68</td>
</tr>
<tr>
<td>C5M-267-B-1</td>
<td>191.73</td>
<td>3202</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

**NOTES:**

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Other coil terminations available.
5. Pull versions standard; push versions available.

---

**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 C5M-267-B-1.

Please see www.ledex.com for our list of stock products available through our North American distributors.
Ledex® C Frame Size C5M

Dimensions

All solenoids are illustrated in energised state

<table>
<thead>
<tr>
<th>Dimensions mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1</td>
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<tr>
<td>3.6</td>
</tr>
<tr>
<td>10.4</td>
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<td>10.6</td>
</tr>
<tr>
<td>10.4</td>
</tr>
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<td>20.3</td>
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<tr>
<td>31.5</td>
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<td>23.8</td>
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<tr>
<td>12.7</td>
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<tr>
<td>5.6</td>
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<tr>
<td>Ø1.6 +0.08</td>
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<tr>
<td>Ø4.0</td>
</tr>
<tr>
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</tr>
<tr>
<td>5.0</td>
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<td>5.8</td>
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<td>11.7</td>
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<td>20.3</td>
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<td>31.5</td>
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<td>23.8</td>
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<tr>
<td>12.7</td>
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<td>5.6</td>
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<td>5.0</td>
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<tr>
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<tr>
<td>5.0</td>
</tr>
<tr>
<td>0.9</td>
</tr>
<tr>
<td>11.7</td>
</tr>
</tbody>
</table>

M2 X 0.4 Thru (2) Holes "A"

M2 X 0.4 Thru (2) Holes "B"
Ledex® C Frame Size C8M

Part Number: C8M - XXX - M- 36

Specifications

- **Operation**: Pull
- **Dielectric Strength**: 500 VRMS for one second
- **Continuous Duty Cycle**: 100% at 20°C ambient temperature
- **Intermittent Duty Cycle**: See below
- **Holding Force**: 9.96 N at 20°C
- **Coil Insulation**: Class “A”: 105°C max.
- **Coil Termination**: 3/16” QC
- **Plunger Weight**: 11.3 g
- **Total Weight**: 45.4 g

Performance

- **Maximum Duty Cycle**: 100% 50% 25% 10%
- **Maximum ON Time (sec)**: ∞ 19 9 3 when pulsed continuously
- **Maximum ON Time (sec)**: ∞ 286 92 27 for single pulse
- **Watts (@ 20°C)**: 3.6 7 14 35
- **Ampere Turns (@ 20°C)**: 464 657 929 1470

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref # VDC (Nom)</th>
<th>VDC VDC VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>C8M-276-M-36</td>
<td>2.56</td>
<td>404</td>
<td>3 4.2 5.9 9.3</td>
</tr>
<tr>
<td>C8M-273-M-36</td>
<td>9.30</td>
<td>752</td>
<td>6 8.5 12 19</td>
</tr>
<tr>
<td>C8M-274-M-36</td>
<td>23.2</td>
<td>1252</td>
<td>9 12.7 18 28.5</td>
</tr>
<tr>
<td>C8M-272-M-36</td>
<td>37.12</td>
<td>1484</td>
<td>12 17 24 38</td>
</tr>
<tr>
<td>C8M-271-M-36</td>
<td>150.73</td>
<td>2736</td>
<td>24 34 48 76</td>
</tr>
<tr>
<td>C8M-270-M-36</td>
<td>621.54</td>
<td>5544</td>
<td>48 68 96 152</td>
</tr>
<tr>
<td>C8M-269-M-36</td>
<td>3824</td>
<td>15035</td>
<td>120 164 231 366</td>
</tr>
</tbody>
</table>

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 C8M-271-M-56.

Please see www.ledex.com for our list of stock products available through our North American distributors.

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Magnetic latching versions available.
5. Pull versions standard; push versions available.
6. Other coil terminations available.

All specifications subject to change without notice.

Force values for reference only.
Ledex® C Frame Size C8M

Dimensions

All solenoids are illustrated in energised state

mm

25.91
Ref.

16.81

25.91
Ref.

16.81

11.1 ± 0.381

19.05

11.1 ± 0.381

19.05

4.75
Q.C. Terminals

5.94

5.94

3.56
Min.

3.56

28.58 ± 0.381

20.62 ± 0.381

M4 x 0.7 (2) Places

11.13

4.75 ± 0.381

12.4

1.85
1.70
Dia. (2) Holes

6.35

2.77
Ledex® Magnetic Latching

Box Frame Size B12-L

**Part Number:** B12 - L - [XX] - B- 3

- **Coil Selection**
  - (from performance chart below)
- **Pole Configuration**
  - 1 Flat Face

### Specifications

**Operation**
- Pull

**Dielectric Strength**
- 500 VRMS for one second

**Unlatch Voltage**
- See schematic and coil data below

**Magnet Hold Force**
- 3.2 N (@20°C)

**Coil Insulation Class**
- “A”: 105°C max.

**Coil Termination**
- 254 mm PVC lead wires

**Spring Force**
- 62.1 N/mm; 0.588 N latched position

**Plunger Pole Face**
- Flat face

**Plunger Weight**
- 1.13 g

**Total Weight**
- 8.22 g

* In no power, latched position, with return spring

### Performance

**Maximum Duty Cycle**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts (@ 20°C)</td>
<td>1.3</td>
<td>2.6</td>
<td>5.2</td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>178</td>
<td>251</td>
<td>355</td>
</tr>
</tbody>
</table>

### Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>Unlatch VDC (Nom)</th>
<th>VDC</th>
<th>VDC</th>
<th>VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>B12-L-158-B-3</td>
<td>6.92</td>
<td>417</td>
<td>3</td>
<td>4.2</td>
<td>6</td>
<td>9.5</td>
</tr>
<tr>
<td>B12-L-155-B-3</td>
<td>27.70</td>
<td>824</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>B12-L-156-B-3</td>
<td>62.30</td>
<td>1184</td>
<td>9</td>
<td>13</td>
<td>18</td>
<td>28.5</td>
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<tr>
<td>B12-L-154-B-3</td>
<td>110.80</td>
<td>1632</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td>B12-L-153-B-3</td>
<td>443.10</td>
<td>3336</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

**NOTES:**
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

### Typical Force @ 20°C – Flat Face Plunger (net with spring)

**How to Order**

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 12 VDC, specify B12-L-155-B-3.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

---

All specifications subject to change without notice. Force values for reference only.
Dimensions

All solenoids are illustrated in energised state.

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø1.50 mm</td>
<td>± 0.08 - 0.00</td>
</tr>
<tr>
<td>9.0 mm</td>
<td>± 0.76</td>
</tr>
<tr>
<td>4.0 mm</td>
<td>± 0.20</td>
</tr>
<tr>
<td>10.2 mm</td>
<td>± 0.38</td>
</tr>
<tr>
<td>Ø4.0 mm</td>
<td>± 0.08</td>
</tr>
<tr>
<td>16.0 mm</td>
<td>± 0.38</td>
</tr>
<tr>
<td>Ø4.0 mm</td>
<td>± 0.20</td>
</tr>
<tr>
<td>4.5 mm</td>
<td>± 0.25</td>
</tr>
<tr>
<td>5.0 mm</td>
<td>± 0.20</td>
</tr>
</tbody>
</table>

#26 awg PVC

Red
Black

1/2-28 UNF threads - (2X)

M2 x 0.4 threads - (2X)
Marked “M” this side

Min leads 254 mm
**Ledex® Magnetic Latching** Box Frame Size B12P-L

Part Number: B12P - L - 1 [XX] - B- 3

**Specifications**

- **Operation**: Push
- **Dielectric Strength**: 500 VRMS for one second
- **Unlatch Voltage**: See schematic and coil data below
- **Magnet Hold Force**: 2.6 N (20°C)
- **Coil Insulation**: Class 'A': 105°C max.
- **Coil Termination**: 254 mm PVC lead wires
- **Spring Force**: 62.1 N/mm; 0.588 N latched position
- **Plunger Pole Face**: Flat face
- **Plunger Weight**: 1.42 g
- **Total Weight**: 8.51 g

*In no power, latched position, with return spring*

**Performance**

**Maximum Duty Cycle**

<table>
<thead>
<tr>
<th>Unlatch Voltage</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts (20°C)</td>
<td>1.3</td>
<td>2.6</td>
<td>5.2</td>
</tr>
<tr>
<td>Ampere Turns (20°C)</td>
<td>178</td>
<td>251</td>
<td>355</td>
</tr>
</tbody>
</table>

**Coil Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (Ω @ 20°C)</th>
<th>Ref #</th>
<th>Unlatch VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B12P-L-158-B-3</td>
<td>6.92</td>
<td>417</td>
<td>3</td>
<td>4.2</td>
<td>6</td>
</tr>
<tr>
<td>B12P-L-155-B-3</td>
<td>27.70</td>
<td>824</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
</tr>
<tr>
<td>B12P-L-156-B-3</td>
<td>62.30</td>
<td>1184</td>
<td>9</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>B12P-L-154-B-3</td>
<td>110.80</td>
<td>1632</td>
<td>12</td>
<td>17</td>
<td>24</td>
</tr>
<tr>
<td>B12P-L-153-B-3</td>
<td>443.10</td>
<td>3336</td>
<td>24</td>
<td>34</td>
<td>48</td>
</tr>
</tbody>
</table>

**NOTES:**
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

**Coil Polarity**

- **Latch**: A+ B- [Red]
- **Unlatch**: A- B+ [Black]

**How to Order**

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 12 VDC, specify B12-L-155-B-3.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice. Force values for reference only.

Ledex® Solenoids

www.ledex.com 1.937.454.2345  Fax: 1.937.898.8624
**Ledex® Magnetic Latching** Box Frame Size B12P-L

**Dimensions**

All solenoids are illustrated in energised state

1-72 UNF threads - (2X)

#26 awg PVC

Ø4.0 ± 0.08

Ø4.0 ± 0.20

Ø1.5 ± 0.03

M2 x 0.4 threads - (2X)

Marked “M” this side

254 min leads

Ø4.0 ± 0.20

8.0 ± 0.38

16.0 ± 0.38

10.2 ± 0.38

5.0 ± 0.38

4.5 ± 0.25

4.0 ± 0.20

4.45 ± 0.38

4.5 ± 0.25

5.0 ± 0.20

5.0 ± 0.38

4.0 ± 0.20

10.2 ± 0.38

5.0 ± 0.20

4.0 ± 0.20

5.0 ± 0.20

4.5 ± 0.25

8.0 ± 0.38

4.45 ± 0.38

5.0 ± 0.38

4.5 ± 0.25

5.0 ± 0.20

#26 awg PVC

All solenoids are illustrated in energised state
**Ledex® Magnetic Latching**

**Box Frame Size B14M-L**

**Part Number:** B14M - L - XX - B- 4

Coil Selection (from performance chart below)

Pole Configuration
1. Flat Face
2. 50° Conical

**Specifications**

- **Operation**: Pull
- **Dielectric Strength**: 500 VRMS for one second
- **Unlatch Voltage**: See schematic and coil data below
- **Magnet Hold Force***: Flat Face: 5.3 N, 50° Conical: 1.3 N
- **Coil Insulation**: Class “B”: 130°C max.
- **Coil Termination**: 254 mm PVC lead wires
- **Spring Force**: 0.6 N/mm; 0.8 N latched position
- **Plunger Pole Face**: Flat face or 50° conical
- **Plunger Weight**: 14.2 g
- **Total Weight**: 95.9 g

*In no power, latched position, with return spring

**Performance**

<table>
<thead>
<tr>
<th>Maximum Duty Cycle</th>
<th>Unlatch Voltage</th>
<th>50% Watts (@20°C)</th>
<th>25% Watts (@20°C)</th>
<th>10% Watts (@20°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Max ON Time (sec)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Watts (@20°C)</td>
<td>5.2</td>
<td>10.4</td>
<td>20.8</td>
<td>52.2</td>
</tr>
<tr>
<td>Ampere Turns (@20°C)</td>
<td>750</td>
<td>1060</td>
<td>1500</td>
<td>2370</td>
</tr>
</tbody>
</table>

**Coil Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>Unlatch VDC (Nom)</th>
<th>Latch VDC (Nom)</th>
<th>Unlatch VDC (Nom)</th>
<th>Latch VDC (Nom)</th>
<th>Unlatch VDC (Nom)</th>
<th>Latch VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14M-L-X58-B-4</td>
<td>1.93</td>
<td>480</td>
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<td></td>
</tr>
<tr>
<td>B14M-L-X55-B-4</td>
<td>6.90</td>
<td>871</td>
<td>6</td>
<td>8.5</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>B14M-L-X56-B-4</td>
<td>17.40</td>
<td>1408</td>
<td>9</td>
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<td>18</td>
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</tr>
<tr>
<td>B14M-L-X54-B-4</td>
<td>28.60</td>
<td>1791</td>
<td>12</td>
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<td>24</td>
<td>38</td>
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</tr>
<tr>
<td>B14M-L-X53-B-4</td>
<td>110.00</td>
<td>3450</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

**How to Order**

Select the part number from the table provided. (For example, to order a 25% duty cycle unit rated at 48 VDC with a 50° Conical Armature, specify B14M-L-255-B-4.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

---

**Typical Force @ 20°C – Flat Face Armature**

(net with spring)

**Typical Force @ 20°C – 50° Conical Armature**

(net with spring)

**Coil Polarity**

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

Force values for reference only.
**Ledex® Magnetic Latching**

**Box Frame Size B14M-L**

**Dimensions**

All solenoids are illustrated in energised state

---

**Plunger Detail**

8.0 ± 0.2

2.1 ± 0.3

8.0 +0.038/-0.076 Dia.

3.51 ± 0.203

17.96 ± 0.51

19.99 ± 0.203

36.8 ± 0.203

47.93 ± 0.51

Ø3.09 / 2.99 Thru

19.99 ± 0.15

250 Min.

M4 x 0.7 (4) (Same Holes Rear Side)

8.0 ± 0.203

---

2.1 ± 0.3

8.0 ± 0.2

See Plunger Detail

Black

Red

Red

Black

26.0 ± 0.254

---
Ledex® Magnetic Latching

Box Frame Size B14HD-L

Specifications

Operation: Pull
Dielectric Strength: 1000 VRMS for one second
Unlatch Voltage: See schematic and coil data below
Magnetic Holding Force*: Conical: 38 N
Flat Face: 56 N
Coil Insulation: Class “B”: 130°C max.
Coil Termination: 254 mm PVC lead wires or terminal
Plunger Pole Face: Flat face or conical
Plunger Weight: 24.4 g
Total Weight: 98.4 g
* In no power, latched position, with return spring

Performance

Maximum Duty Cycle

Recommended Max ON Time (sec) 1 1 1 1
Watts (@ 20°C) 11 11 22 55
Ampere Turns (@ 20°C) 940 938 1326 2097

Typical Force @ 20°C – Conical (net with spring)

Typical Force @ 20°C – Flat Face (net with spring)

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14HD-L-X58-B-X</td>
<td>1.45</td>
<td>321</td>
<td>4.4</td>
<td>4.3</td>
<td>6.1</td>
<td>9.7</td>
</tr>
<tr>
<td>B14HD-L-X57-B-X</td>
<td>7.0</td>
<td>750</td>
<td>8.9</td>
<td>8.7</td>
<td>12.4</td>
<td>19.6</td>
</tr>
<tr>
<td>B14HD-L-X56-B-X</td>
<td>14.2</td>
<td>1068</td>
<td>12.7</td>
<td>12.5</td>
<td>17.6</td>
<td>27.9</td>
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<tr>
<td>B14HD-L-X54-B-X</td>
<td>27.5</td>
<td>1470</td>
<td>17.7</td>
<td>17.4</td>
<td>24.6</td>
<td>38.9</td>
</tr>
<tr>
<td>B14HD-L-X53-B-X</td>
<td>110.2</td>
<td>2920</td>
<td>35.4</td>
<td>34.8</td>
<td>49.2</td>
<td>77.8</td>
</tr>
</tbody>
</table>

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit with a conical pole configuration rated at 6.1 VDC with 254 mm lead wires, specify B14HD-L-258-B-4).

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Ledex® Magnetic Latching

Box Frame Size B14HD-L

Specifications

Operation: Pull
Dielectric Strength: 1000 VRMS for one second
Unlatch Voltage: See schematic and coil data below
Magnetic Holding Force*: Conical: 38 N
Flat Face: 56 N
Coil Insulation: Class “B”: 130°C max.
Coil Termination: 254 mm PVC lead wires or terminal
Plunger Pole Face: Flat face or conical
Plunger Weight: 24.4 g
Total Weight: 98.4 g
* In no power, latched position, with return spring

Performance

Maximum Duty Cycle

Recommended Max ON Time (sec) 1 1 1 1
Watts (@ 20°C) 11 11 22 55
Ampere Turns (@ 20°C) 940 938 1326 2097

Typical Force @ 20°C – Conical (net with spring)

Typical Force @ 20°C – Flat Face (net with spring)

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14HD-L-X58-B-X</td>
<td>1.45</td>
<td>321</td>
<td>4.4</td>
<td>4.3</td>
<td>6.1</td>
<td>9.7</td>
</tr>
<tr>
<td>B14HD-L-X57-B-X</td>
<td>7.0</td>
<td>750</td>
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<td>8.7</td>
<td>12.4</td>
<td>19.6</td>
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<tr>
<td>B14HD-L-X56-B-X</td>
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<td>12.7</td>
<td>12.5</td>
<td>17.6</td>
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<tr>
<td>B14HD-L-X54-B-X</td>
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<td>B14HD-L-X53-B-X</td>
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<td>2920</td>
<td>35.4</td>
<td>34.8</td>
<td>49.2</td>
<td>77.8</td>
</tr>
</tbody>
</table>

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit with a conical pole configuration rated at 6.1 VDC with 254 mm lead wires, specify B14HD-L-258-B-4).

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Ledex® Magnetic Latching

Box Frame Size B14HD-L

Specifications

Operation: Pull
Dielectric Strength: 1000 VRMS for one second
Unlatch Voltage: See schematic and coil data below
Magnetic Holding Force*: Conical: 38 N
Flat Face: 56 N
Coil Insulation: Class “B”: 130°C max.
Coil Termination: 254 mm PVC lead wires or terminal
Plunger Pole Face: Flat face or conical
Plunger Weight: 24.4 g
Total Weight: 98.4 g
* In no power, latched position, with return spring

Performance

Maximum Duty Cycle

Recommended Max ON Time (sec) 1 1 1 1
Watts (@ 20°C) 11 11 22 55
Ampere Turns (@ 20°C) 940 938 1326 2097

Typical Force @ 20°C – Conical (net with spring)

Typical Force @ 20°C – Flat Face (net with spring)

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<tbody>
<tr>
<td>B14HD-L-X58-B-X</td>
<td>1.45</td>
<td>321</td>
<td>4.4</td>
<td>4.3</td>
<td>6.1</td>
<td>9.7</td>
</tr>
<tr>
<td>B14HD-L-X57-B-X</td>
<td>7.0</td>
<td>750</td>
<td>8.9</td>
<td>8.7</td>
<td>12.4</td>
<td>19.6</td>
</tr>
<tr>
<td>B14HD-L-X56-B-X</td>
<td>14.2</td>
<td>1068</td>
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<td>12.5</td>
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<td>27.9</td>
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<td>B14HD-L-X54-B-X</td>
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<td>17.7</td>
<td>17.4</td>
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</tr>
<tr>
<td>B14HD-L-X53-B-X</td>
<td>110.2</td>
<td>2920</td>
<td>35.4</td>
<td>34.8</td>
<td>49.2</td>
<td>77.8</td>
</tr>
</tbody>
</table>

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit with a conical pole configuration rated at 6.1 VDC with 254 mm lead wires, specify B14HD-L-258-B-4).

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.
Dimensions

All solenoids are illustrated in energised state

Lead Wire Models

Terminal Connection Models
Ledex® Magnetic Latching  Box Frame Size B14HDP-L

Specifications

- **Operation**: Push
- **Dielectric Strength**: 1000 VRMS for one second
- **Unlatch Voltage**: See schematic and coil data below
- **Magnetic Holding Force**: Conical: 38 N, Flat Face: 56 N
- **Coil Insulation**: Class “B”, 130°C max.
- **Coil Termination**: 254 mm PVC lead wires or terminal
- **Plunger Pole Face**: Flat face or conical
- **Plunger Weight**: 24.4 g
- **Total Weight**: 93.5 g

- *In no power, latched position, with return spring*

Performance

- **Maximum Duty Cycle**
  - **Voltage**: 50% 25% 10%
  - **Recommended Max ON Time (sec)**: 1 1 1
  - **Watts (@ 20°C)**: 11 11 22 55
  - **Ampere Turns (@ 20°C)**: 940 938 1326 2097

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref # VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<td>B14HDP-L-X57-B-X</td>
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<tr>
<td>B14HDP-L-X54-B-X</td>
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<td>1470</td>
<td>17.7</td>
<td>17.4</td>
<td>24.6</td>
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<td>B14HDP-L-X53-B-X</td>
<td>110.2</td>
<td>2920</td>
<td>35.4</td>
<td>34.8</td>
<td>49.2</td>
</tr>
</tbody>
</table>

**NOTES:**
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heat sink.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit with a conical pole configuration rated at 6.1 VDC with 254 mm lead wires, specify B14HDP-L-258-B-4.

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.
All solenoids are illustrated in energised state

**Dimensions**

**Lead Wire Models**

![Energized Position Diagram]

**Non-Energized Position**

**Terminal Connection Models**

![Energized Position Diagram]
**Ledex® Magnetic Latching**

**Box Frame Size B17M-L**

**Specifications**

- **Operation**: Pull
- **Dielectric Strength**: 500 VRMS for one second
- **Unlatch Voltage**: See schematic and coil data below
- **Magnet Hold Force**: 2.5 N
- **Coil Insulation**: Class "B": 130°C max.
- **Coil Termination**: 254 mm PVC lead wires
- **Spring Force**: 0.175 N/mm; 0.67 N latched position
- **Plunger Pole Face**: Flat face (other options available)
- **Plunger Weight**: 2.46 g
- **Total Weight**: 19.85 g
- **Unlatch Voltage**: See schematic and coil data below
- **Magnet Hold Force**: In no power, latched position, with return spring

**Performance**

- **Maximum Duty Cycle**
  - 10% Duty Cycle 16W
  - 25% Duty Cycle 6.4W
  - 50% Duty Cycle 3.2W
- **Recommended Max ON Time (sec)**
  - 10%: 1 sec
  - 25%: 1 sec
  - 50%: 1 sec

**Coil Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>Unlatch VDC</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<td>19</td>
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<tr>
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<td>1540</td>
<td>9</td>
<td>12</td>
<td>18</td>
<td>28.3</td>
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<td>B17M-L-154-B-3</td>
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<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
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<td>76</td>
</tr>
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<td>B17M-L-152-B-3</td>
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<td>9177</td>
<td>48</td>
<td>68</td>
<td>96</td>
<td>153</td>
</tr>
</tbody>
</table>

**NOTES:**

1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

**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 B17M-L-153-B-3.)

Please see www.ledex.com for our list of stock products available through our North American distributors.
Ledex® Magnetic Latching Box Frame Size B17M-L

Dimensions

All solenoids are illustrated in energised state

See Plunger Detail

2.05 / 2.15

Ø2.05 / 2.15

1.6 ± 0.3

4.75 ± 0.3

2.01

3.86 ± 0.178

0.74 ± 0.076 ± 0.000

4.83 ± 0.076 Dia.

E-Ring

Spring

M3 x 0.5 (3 places)

326 AWG PVC Lead Wires

Black

Red

28.45 ± 0.762

250 Min.

19.99 ± 0.381

8.00 ± 0.203

11.94 ± 0.635

7.01 ± 0.203

13.0 ± 0.381

4.75 ± 0.3

7.01

8.00

11.94

13.0

250 Min.

1.6

4.75

2.01

3.86

0.74 ± 0.076 ± 0.000

4.83 ± 0.076

19.99

8.00

11.94

7.01

13.0

28.45

250 Min.

19.99 ± 0.381

8.00 ± 0.203

11.94 ± 0.635

7.01 ± 0.203

13.0 ± 0.381

4.75 ± 0.3

7.01

8.00

11.94

250 Min.

19.99

8.00

11.94

7.01

13.0

28.45

250 Min.
Ledex® Magnetic Latching Box Frame Size B22M-L

Part Number: B22M - L - [X] [XX] - M - 36

Coil Selection (from performance chart below)
Pole Configuration
1. Flat Face
2. 60° Conical

Specifications
Operation Pull
Dielectric Strength 1500 VRMS for one second
Unlatch Voltage See schematic and coil data below
Magnet Hold Force* Flat Face: 22 N
60° Conical: 4.5 N
Coil Insulation Class “B”, 130°C max.
Coil Termination (1) 3/16” QC, (1) 1/4” QC
Spring Force 0.31 N/mm; 4.8 N latched position
Plunger Pole Face Flat face or 60° conical
Plunger Weight 35.2 g
Total Weight 212.8 g

* In no power, latched position, with return spring

Performance

Maximum Duty Cycle

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Max ON Time (sec)</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Watts (@ 20°C)</td>
<td>9.9</td>
<td>19.8</td>
<td>39.6</td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>1046</td>
<td>1482</td>
<td>2093</td>
</tr>
</tbody>
</table>

Coil Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>Unlatch VDC</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<tbody>
<tr>
<td>B22M-L-X55-M-36</td>
<td>3.64</td>
<td>635</td>
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<td>19</td>
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<td>B22M-L-X54-M-36</td>
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<td>38</td>
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<td>34</td>
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<td>B22M-L-X52-M-36</td>
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<td>B22M-L-X51-M-36</td>
<td>1493.00</td>
<td>12744</td>
<td>120</td>
<td>172</td>
<td>240</td>
<td>385</td>
</tr>
</tbody>
</table>

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

How to Order
Select the part number from the table provided. (For example, to order a 25% duty cycle flat face unit rated at 48 VDC, specify B22M-L-155-M-56.

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.
**Ledex® Magnetic Latching**

**Box Frame Size B22M-L**

**Dimensions**

All solenoids are illustrated in energised state.

---

**mm**

- **3.05 / 3.15** Dia. (2 holes)
- **M5 x 0.8** (2 Holes)
- **28.45 ± 0.381**
- **12.7 Dia.**
- **14.99 Ref.**
- **40.87 ± 0.381**
- **3.6 ± 0.4**
- **9.53 ± 0.4**
- **A 3/16” QC Terminal**
- **B 1/4” QC Terminal**

---

**Ledex® Solenoids**

www.ledex.com 1.937.454.2345 Fax: 1.937.898.8624
Ledex® Magnetic Latching C Frame Size C5M-L

Part Number: C5M - L - XXX - B - 1

Select from performance chart below

**Specifications**

- **Operation**: Pull
- **Dielectric Strength**: 500 VRMS for one second
- **Unlatch Voltage**: See schematic and coil data below
- **Magnet Hold Force***: 5.7 N (with return spring)
- **Coil Insulation**: Class “B”; 130°C max.
- **Coil Termination**: 0.025” square pin terminals
- **Plunger Pole Face**: Flat face (other options available)
- **Spring Force**: 0.1 N/mm; 0.7 N latched position
- **Plunger Weight**: 2.8 g
- **Total Weight**: 11.9 g

*In no power, latched position, with return spring

**Performance**

- **Maximum Duty Cycle**
  - Voltage: 50% 25% 10%
  - Recommended Max ON Time (sec): 1 1 1
  - Watts (@ 20°C): 3 6 12 30
- **Ampere Turns (@ 20°C)**: 422 564 844 1268

**Coil Data**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resistance (@20°C)</th>
<th>Ref #</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
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<tbody>
<tr>
<td>C5M-L-273-B-1</td>
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<td>191.73</td>
<td>3202</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

**NOTES:**
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.
4. Other coil terminations available.

**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 C5M-L-267-B-1.)

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.

Ledex® Solenoids

www.ledex.com  1.937.454.2345  Fax: 1.937.898.8624
**Ledex® Magnetic Latching C Frame Size C5M-L**

**Dimensions**

All solenoids are illustrated in energised state

![Diagram of the C Frame Size C5M-L solenoid](image-url)

- **Terminals**
  - Square terminals
  - "A" This side
  - "B" Back Side

- **Dimensions**
  - **Height**: 10.4 mm
  - **Width**: 7.1 mm
  - **Depth**: 3.6 mm

- **Holes**
  - M2 X 0.4 Thru
  - (2) Holes "A"
  - (2) Holes "B"

- **Other Measurements**
  - Ø1.6 +0.08
  - Ø4.0
  - 7.93 Ref.
  - 5.0
  - 5.8
  - 3.2
  - 11.7
  - 1.8
  - 9.2
  - 1.0
  - 12.7
  - 5.6
  - 31.5
  - 20.3
Ledex® Magnetic Latching
C Frame Size C8M-L

Part Number: C8M-L - X XX - M-36

Select coil from performance chart below

Plunger pole face:
1. Flat Face
2. 40° Reverse Conical

All products are RoHS Compliant

Specifications

Operation Pull
Dielectric Strength 500 VRMS for one second
Unlatch Voltage See schematic and coil data below
Magnet Holding Force* Flat Face: 7.12 N
40° Reverse Conical: 5.56 N
Spring Force 0.093 N/mm; 1.16 N latched operation
Coil Insulation Class “B”; 130°C max.
Coil Termination (1) – 1/4” QC; (1) – 3/16” QC
Plunger Pole Face Flat face or 40° reverse conical
Plunger Weight 11.3 g
Total Weight 45.4 g

* In no power, latched position, with return spring

Performance

Maximum Duty Cycle Unlatch Voltage 50% 25% 10%
Recommended Max ON Time (sec) 1 1 1 1
Watts (20°C) 3.6 7 14 35
Ampere Turns (20°C) 464 657 929 1470

Typical Force with Flat Face (net with spring @ 20°C)

Typical Force with 40° Reverse Conical
(net with spring @ 20°C)

Coil Data

Part Number Resistance (20°C) Ref # VDC VDC VDC VDC
C8M-L-X76-M-36 2.56 404 3 4.2 5.9 9.3
C8M-L-X73-M-36 9.30 752 6 8.5 12 19
C8M-L-X74-M-36 23.2 1252 9 12.7 18 28.5
C8M-L-X72-M-36 37.12 1484 12 17 24 38
C8M-L-X71-M-36 150.73 2736 24 34 48 76
C8M-L-X70-M-36 621.54 5544 48 68 96 152
C8M-L-X69-M-36 3824 15035 120 164 231 366

NOTES:
1. All data is typical.
2. Force testing is done with the solenoid in the horizontal position.
3. All data reflects operation with no heatsink.

How to Order

Select the part number from the table provided. (For example, to order a 25% duty cycle unit with a 40° reverse conical plunger pole face rated at 48 VDC, specify C8M-L-271-M-36.

Please see www.ledex.com for our list of stock products available through our North American distributors.

All specifications subject to change without notice.
Ledex® Magnetic Latching C Frame Size C8M-L

Dimensions

All solenoids are illustrated in energised state.