**Ledex® Magnetic Latching** Box Frame Size B12P-L

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

**Specifications**

- **Operation:** Push
- **Dielectric Strength:** 500 VRMS for one second
- **Unlatch Voltage:** See schematic and coil data below
- **Magnet Hold Force**:
  - 9.34 oz (@20°C) (with return spring)
- **Coil Insulation**:
  - Class "A": 105°C max. (standard); other temperature classes available
- **Coil Termination**:
  - 10" PVC lead wires
- **Spring Force**:
  - 8.80 oz/in; 2.1 oz latched position
- **Plunger Pole Face**:
  - Flat face (other options available)
- **Plunger Weight**:
  - 0.05 oz (1.418 g)
- **Total Weight**:
  - 0.30 oz (8.505 g)
- **Dimensions**:
  - See page I 11

*In no power, latched position

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

<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</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>

**Coil Polarity**

- **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 12 VDC, specify B12-L-154-B-3.)

Please see www.ledex.com (click on Stock Products tab) 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.

**Force values for reference only.**

**All specifications subject to change without notice.**
Ledex® Box Frame Dimensions

Inches (mm)

B12-L

1-72 UNF threads - (2X)

#26 awg PVC

Red

Black

Marked “M” this side

B12P-L

1-72 UNF threads - (2X)

#26 awg PVC

Red

Black

Marked “M” this side