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: 9.3 N (with return spring)
50° Conical: 5.6 N (with return spring)

Coil Insulation
Class “B”: 130°C max. (standard);
other temperature classes available

Coil Termination
250 mm PVC lead wires

Spring Force
0.6 N/mm; 0.8 N latched position

Plunger Pole Face
Flat face with return spring
50° conical with return spring
(other options available)

Plunger Weight
14.2 g

Total Weight
95.9 g

Dimensions
See page I 12

*In no power, latched position

Maximum Duty Cycle

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50%</th>
<th>25%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unlatched</td>
<td>∞</td>
<td>100</td>
<td>36</td>
</tr>
</tbody>
</table>

when pulsed continuously

<table>
<thead>
<tr>
<th>Voltage</th>
<th>25%</th>
<th>50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum ON Time (sec)</td>
<td>180</td>
<td>45</td>
</tr>
<tr>
<td>for single pulse</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage</th>
<th>50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Watts (@ 20°C)</td>
<td>10.8</td>
</tr>
<tr>
<td>Ampere Turns (@ 20°C)</td>
<td>2370</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</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
<th>VDC (Nom)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B14M-LX58-B-4</td>
<td>1.93</td>
<td>421</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>B14M-LX55-B-4</td>
<td>6.90</td>
<td>871</td>
<td>6</td>
<td>8.5</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>B14M-LX56-B-4</td>
<td>17.40</td>
<td>1228</td>
<td>9</td>
<td>13</td>
<td>18</td>
<td>29</td>
</tr>
<tr>
<td>B14M-LX54-B-4</td>
<td>28.60</td>
<td>1791</td>
<td>12</td>
<td>17</td>
<td>24</td>
<td>38</td>
</tr>
<tr>
<td>B14M-LX53-B-4</td>
<td>110.00</td>
<td>3450</td>
<td>24</td>
<td>34</td>
<td>48</td>
<td>76</td>
</tr>
</tbody>
</table>

Coil Polarity

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

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. All specifications subject to change without notice.

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-253-B-4.

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

Force values for reference only.
Ledex® Box Frame Magnetic Latching Dimensions

mm

B14M-L

---

B16M-L

---

All solenoids are illustrated in energised state

All specifications subject to change without notice.

Ledex® Solenoids