

# Ledex® Box Frame Size B12

Part Number: B12 - **XXX** - B-3

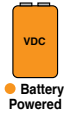
All products are RoHS Compliant

Select from performance chart below

LINEAR Open Frame

## 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           | 7.7 oz. (2.1 N) at 20°C          |
| Coil Insulation         | Class "A": 105°C max.            |
| Coil Termination        | 10" (254 mm) PVC lead wires      |
| Plunger Weight          | 0.05 oz. (1.4 g)                 |
| Total Weight            | 0.30 oz. (8.5 g)                 |



## Performance

| Maximum Duty Cycle                             | 100% | 50% | 25% | 10% |
|--|------|-----|-----|-----|
| Maximum ON Time (sec) when pulsed continuously | ∞    | 84  | 11  | 2   |
| Maximum ON Time (sec) for single pulse         | ∞    | 120 | 34  | 8   |
| Watts (@ 20°C)                                 | 1.3  | 2.6 | 5.2 | 13  |
| Ampere Turns (@ 20°C)                          | 178  | 251 | 355 | 561 |

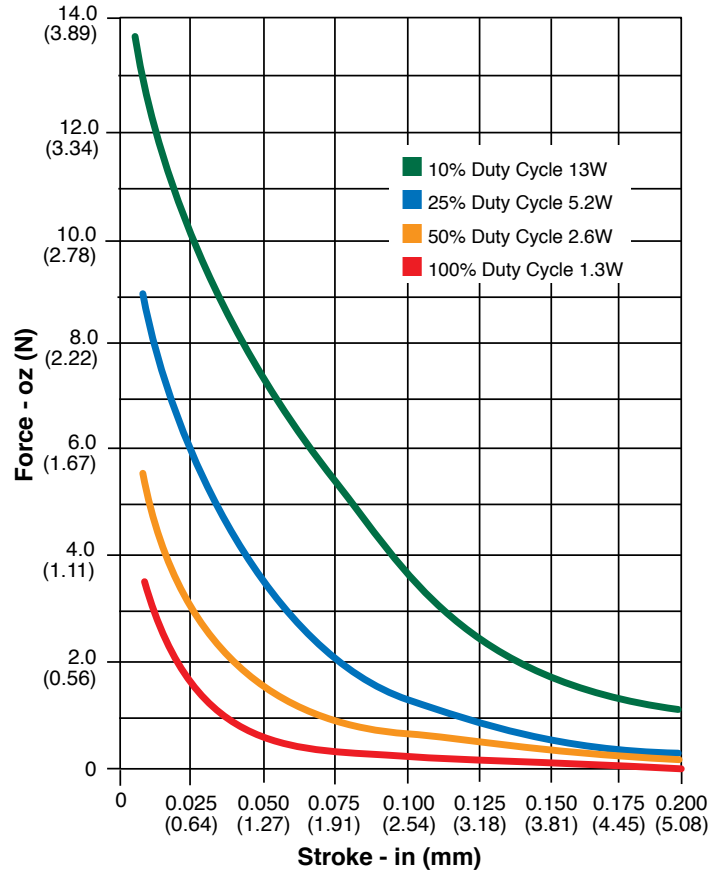
## Coil Data

| Part Number | Resistance (@20°C) | Ref # Turns | VDC (Nom) | VDC (Nom) | VDC (Nom) | VDC (Nom) |
|-------------|--------------------|-------------|-----------|-----------|-----------|-----------|
| B12-258-B-3 | 6.92               | 417         | 3         | 4.24      | 6         | 9.5       |
| B12-255-B-3 | 27.7               | 824         | 6         | 8.5       | 12        | 19        |
| B12-256-B-3 | 62.3               | 1184        | 9         | 13        | 18        | 28.5      |
| B12-254-B-3 | 110.8              | 1632        | 12        | 17        | 24        | 38        |
| B12-253-B-3 | 443.1              | 3336        | 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 heat sink.
- Pull versions standard; push versions available.
- 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 48 VDC, specify B12-253-B-5.

Please see [www.ledex.com](http://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.

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## Dimensions

Inches (mm)

All solenoids are illustrated in energized state

