

# Enclosed Isolators

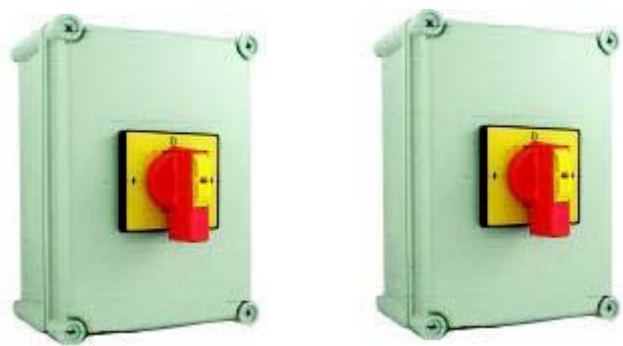


## 3, 4, 6 and 8 Poles

Box 1 (20 to 40 A):    Box 2 (63 to 80 A) and (25 to 40 A 4PBB):



Box 3 (100 to 125 A):    Change Over Box:



| Rotary Isolator (Load Break Switch) Dimensions |        |       |       |                             |
|------------------------------------------------|--------|-------|-------|-----------------------------|
| Box Size                                       | Height | Width | Depth | Depth<br>(Including Switch) |
| 1<br>(20 to 40 A)                              | 125    | 100   | 70    | 118                         |
| 2<br>(63 to 80 A) and 25 to 40 A 4PBB)         | 175    | 125   | 90    | 134                         |
| 3<br>(100 to 125 A)                            | 280    | 190   | 130   | 190                         |
| Change Over Box                                |        |       |       |                             |

AC-21 Switch Ratings

Dimensions : Millimetres

|                             |                                          |  |
|-----------------------------|------------------------------------------|--|
| Canadian Standards:         | CAN / CSA-C22.2 No.14                    |  |
| American Standards:         | UL508                                    |  |
| IEC and European Standards: | IEC 60947-1 and 3, EN60947, VDE 0660-107 |  |



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| Isolator Rating (AC-21)                                 |                              | Measure      | Switch Code | LB20 | LB25 | LB32 | LB40 | LB63 | LB80 | LB100 | LB125 |
|---------------------------------------------------------|------------------------------|--------------|-------------|------|------|------|------|------|------|-------|-------|
| Rated Operational Voltage, UE                           |                              |              |             |      |      |      |      |      |      |       |       |
| IEC / EN / VDE                                          |                              | Volts        | V           | 690  | 690  | 690  | 690  | 690  | 690  | 690   | 690   |
| UL / CSA                                                |                              |              |             | 600  | 600  | 600  | 600  | 600  | 600  | 600   | 600   |
| Main Switch:<br>Isolating Voltage up to                 |                              |              |             | 750  | 750  | 750  | 750  | 750  | 750  | 750   | 750   |
| Resistance to Surge<br>Pulse Voltage, Uimp              |                              |              | KV          | 6    | 6    | 6    | 6    | 6    | 6    | 6     | 6     |
| Rated Uninterrupted<br>Current, Iu                      |                              | Amperes      | A           | 16   | 20   | 25   | 32   | 40   | 63   | 100   | 125   |
| Rated Uninterrupted Current, Ie                         |                              |              |             |      |      |      |      |      |      |       |       |
| IEC / EN /<br>VDE                                       | AC-22                        | Amperes      | A           | 16   | 20   | 25   | 32   | 40   | 63   | 100   | 125   |
|                                                         | AC-21 A                      |              |             | 20   | 25   | 32   | 40   | 63   | 80   |       |       |
|                                                         | AC-1                         |              |             |      |      |      |      |      |      |       |       |
| UL / CSA                                                |                              |              |             | 16   | 20   | 25   | 32   | 40   | 63   |       |       |
| Rated Operational Power at 50 to 60 Hz (IEC / EN / VDE) |                              |              |             |      |      |      |      |      |      |       |       |
| IEC / EN /<br>VDE                                       | AC-23 A<br>3 Phase<br>3 Pole | 220 to 240 V | kW          | 3    | 4    | 5.5  | 7.5  | 11   | 15   | 22    | 30    |
|                                                         |                              | 380 to 440 V |             | 5.5  | 7.5  | 11   | 15   | 18.5 | 30   | 37    | 45    |
|                                                         |                              | 500 to 690 V |             | 7.5  | 11   |      |      | 22   |      | 45    | 55    |
|                                                         | AC-3 A<br>3 Phase<br>3 Pole  | 220 to 240 V |             | 2    | 3    | 4    | 5.5  | 7.5  | 11   | 18.5  | 22    |
|                                                         |                              | 380 to 440 V |             | 3    | 5.5  | 7.5  | 11   | 18.5 | 22   | 30    | 37    |
|                                                         |                              | 500 to 690 V |             | 5.5  | 7.5  | 11   |      |      |      | 37    | 45    |
| Short Circuit Capacity (IEC / EN / VDE)                 |                              |              |             |      |      |      |      |      |      |       |       |
| Maximum Fuse Size<br>(Type gL)                          |                              | Amperes      | A           | 16   | 25   | 25   | 32   | 40   | 63   | 100   | 125   |
| Rated Fused Short<br>Circuit Current                    |                              |              | kA          | 5    | 5    | 30   | 30   | 30   | 30   | 30    | 30    |
| UL / CSA Power Rating                                   |                              |              |             |      |      |      |      |      |      |       |       |
| DOL                                                     | 3 Phase,<br>3 Pole           | 120 V        | HP          | 1.5  | 1.5  | 3    | 3    | 5    | 7.5  | 7.5   | 7.5   |
|                                                         |                              | 240 V        |             | 3    | 3    | 7.5  | 7.5  | 10   | 15   | 15    | 15    |
|                                                         |                              | 480 V        |             | 7.5  | 7.5  | 15   | 20   | 20   | 25   | 30    | 40    |
|                                                         |                              | 600 V        |             | 10   | 10   | 20   | 25   | 30   | 30   | 40    | 50    |
|                                                         | 1 Phase                      | 120 V        |             | 0.5  | 0.5  | 1.5  | 2    | 3    | 4.5  | 3     | 3     |
|                                                         |                              | 240 V        |             | 1.5  | 1.5  | 2    | 3    | 4    | 6    | 7.5   | 7.5   |

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| Isolator Rating (AC-21)                            | Measure | Switch Code     | LB20 | LB25 | LB32   | LB40 | LB63 | LB80 | LB100 | LB125 |
|----------------------------------------------------|---------|-----------------|------|------|--------|------|------|------|-------|-------|
| <b>Short Circuit Capacity (UL / CSA)</b>           |         |                 |      |      |        |      |      |      |       |       |
| <b>Maximum Fuse Size</b>                           | Amperes | A               | 25   | 25   | 50     | 50   | 70   | 70   | 100   | 125   |
| <b>Fuse (Being Certified with J Type Fuses)</b>    | Type    | -               | J    | J    | J, RK5 |      |      |      | J     | J     |
| <b>Rated Fuse Short Circuit Current</b>            | Amperes | kA              | 5    | 5    | 5      | 5    | 5    | 5    | 10    | 10    |
| <b>Terminal Cross Section</b>                      |         |                 |      |      |        |      |      |      |       |       |
| <b>Single / Multiple Strand Wire</b>               | Minimum | mm <sup>2</sup> | 1.5  | 1.5  | 1      | 1    | 4    | 4    | 6     | 6     |
|                                                    | Maximum |                 | 6    | 6    | 10     | 10   | 16   | 16   | 70    | 70    |
| <b>Fine Strand Wire with Sleeve</b>                | Minimum |                 | 0.5  | 0.5  | 0.75   | 0.75 | 2.5  | 2.5  | 4     | 4     |
|                                                    | Maximum |                 | 6    | 6    | 6      | 6    | 10   | 10   | 50    | 50    |
| <b>American Wire Gauge</b>                         | -       | AWG             | 12   | 12   | 8      | 8    | 6    | 6    | 1     | 1     |
| <b>Recommended Tightening Torque for Terminals</b> | -       | NM              | 0.8  | 0.8  | 1.7    | 1.7  | 1.7  | 1.7  | 2.5   | 2.5   |

**Duty Category Table**

| Current | Category | Typical Applications                                                   | Relevant IEC Product Standard |
|---------|----------|------------------------------------------------------------------------|-------------------------------|
|         | AC-1     | Non-inductive or slightly inductive loads, resistance furnaces         | 947-4                         |
|         | AC-3     | Squirrel-cage motors:<br>Starting, switching off motors during running | 947-3                         |
|         | AC-15    | Control of AC electromagnetic Loads                                    | 947-5-1                       |
|         | AC-21    | Switching of resistive loads, including moderate overloads             | 947-3                         |
|         | AC-22    | Switching of mixed resistive and inductive loads                       | 947-3                         |
|         | AC-23    | Switching of motor loads or other highly inductive load                | 947-3                         |
| DC      | DC-1     | Non-inductive or slightly inductive loads, resistance furnaces         | 947-4                         |
|         | DC-13    | Control of DC electromagnets                                           | 947-5-1                       |

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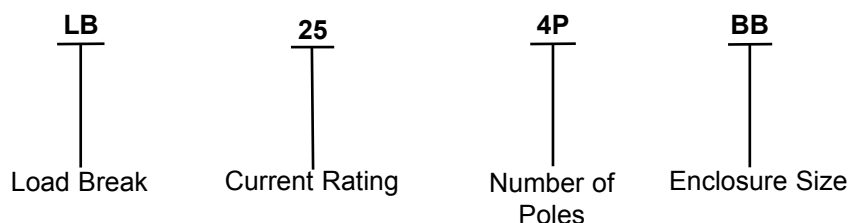
## 3, 4, 6 and 8 Poles

Part Number Table

| Description                  | Part Number |
|------------------------------|-------------|
| Isolator Enclosed 2 A 4 Pole | LB204P      |
| Isolator Enclosed 2 A 4 Pole | LB254P      |
| Isolator Enclosed 2 A 4 P BB | LB254PBB    |
| Isolator Enclosed 2 A 6 Pole | LB256P      |
| Isolator Enclosed 2 A 8 Pole | LB258P      |
| Isolator Enclosed 3 A 3 Pole | LB323P      |
| Isolator Enclosed 3 A 4 Pole | LB324P      |
| Isolator Enclosed 3 A 4 P BB | LB324PBB    |
| Isolator Enclosed 3 A 6 Pole | LB326P      |
| Isolator Enclosed 3 A 8 Pole | LB328P      |
| Isolator Enclosed 4 A 3 Pole | LB403P      |
| Isolator Enclosed 4 A 4 Pole | LB404P      |

| Description                   | Part Number |
|-------------------------------|-------------|
| Isolator Enclosed 4 A 4 P BB  | LB404PBB    |
| Isolator Enclosed 4 A 6 Pole  | LB406P      |
| Isolator Enclosed 4 A 8 pole  | LB408P      |
| Isolator Enclosed 6 A 3 Pole  | LB633P      |
| Isolator Enclosed 6 A 4 Pole  | LB634P      |
| Isolator Enclosed 8 A 3 Pole  | LB803P      |
| Isolator Enclosed 8 A 4 Pole  | LB804P      |
| Isolator Enclosed 10 A 4 Pole | LB1004P     |
| Isolator Enclosed 12 A 4 Pole | LB1254P     |
| Isolator Change Over 2 A 4P   | LBC254P     |
| Isolator Change Over 3 A 4P   | LBC324P     |
| Isolator Change Over 4 A 4P   | LBC404P     |

### Part Number Explanation:



- Current Rating** : 20 = 20 A, 25 = 25 A, 32 = 32 A, 40 = 40 A, 63 = 63 A, 80 = 80 A, 100 = 100 A and 125 = 125 A (AC-21 A and AC-1)
- Number of Poles** : 3P = 3, 4P = 4, 6P = 6 and 8 = 8 poles
- Enclosure Size** : BB = enclosure size (large enclosure if required)

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