## ITC <br> Electrical Components



## Disconnect Switches 16A to 250A

Enclosed, Door Mount and Panel Mount Disconnects • 3, 4, and 6 Pole Models • 3 Padlockable Handle Styles • Add-on Power Contacts • Auxiliary Contacts • Shaft Extensions • Spare Handles IS SONTHEIMER
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## Disconnect Switches

All the disconnect switches are suitable for use as a motor disconnect.
In the 63A size disconnect switches there is the option of newer Sontheimer NLO/ RLO compact switches or the larger more powerful traditional Sontheimer line of NLT/ RLT switches.

## NLO \& RLO Disconnect Switches

| Size |  |  | Motor Rating (UL, CSA) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | General Use |  | HP |  | HP |  |  |  |
|  | 1 Phase | 3 Phase | 1 Phase |  | 3 Phase |  |  |  |
|  | 0-240V | 0-600V | 120V | 240V | 120V | 240V | 480V | 600V |
| 16 | 16A | 16A | 0.5 | 1.5 | 1 | 3 | 7.5 | 10 |
| 25 | 25A | 25A | 2 | 3 | 3 | 7.5 | 10 | 15 |
| 32 | 32A | 32A | 2 | 3 | 3 | 10 | 20 | 22 |
| 40 | 40A | 32A | 2 | 4 | 5 | 10 | 20 | 20 |
| 63 | 50A | 32A | 3 | 10 | 5 | 15 | 25 | 30 |

Wire gauge for all above is 14-6 AWG. Tightening torque for all the above is 3.0 Nm . Short circuit rating for all the above is 5 kA .
Information subject to change without notice

## NLT \& RLT Disconnect Switches

|  |  | Motor Rating (UL, CSA) |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Size | General Use <br> $\mathbf{3}$ Phase 600A | HP 3 Phase |  |  | Short Circuit <br> Rating |
|  |  | $\mathbf{2 4 0 V}$ | $\mathbf{4 8 0 V}$ | $\mathbf{6 0 0 V}$ |  |
| $\mathbf{6 3}$ | 63 A | 15 | 40 | 50 | $\checkmark$ |
| $\mathbf{1 0 0}$ | 100 A | 30 | 60 | 75 | $\square$ |
| $\mathbf{1 2 5}$ | 125 A | 40 | 75 | 100 | $\square$ |
| $\mathbf{1 8 0}$ | 180 A | 40 | 75 | 50 | $\square$ |
| $\mathbf{2 5 0}$ | 250A | 50 | 100 | 75 | $\square$ |

$\diamond 5 \mathrm{kA}$ short circuit rating at 600 V , when protected by 175A RK5 fuse or by a combination motor controller rated max. 50 hp at 600 Vac - 10KA short circuit rating at 600V, when protected by 200A class RK5 fuse Information subject to change without notice

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## Door Mount Disconnect Switches 4 Hole Mounting Type "E"

## Features and specifications:

- Switches mount directly to door or wall of enclosure with 4 screws
- Red/ yellow padlockable handles to prevent unauthorized use
- 3, 4, and 6 pole versions available (6 upon special request)
- Auxiliary and Neutral contact blocks available from stock
- Ingress protection: IP54, IP65 with Z1 gasket (front), IP20 20 back


Note: Grey/ black padlockable handle available. Change code from "NLO" or "NLT" to "ALO" or "ALT".
Door Mount Disconnect Switches (Order by Part No.)

| Switch Size | 3 Pole <br> Part No. | 4 Pole <br> Part No. | 6 Pole * <br> Part No. |
| :--- | :--- | :--- | :--- |
| 16 | LBS-NLO16/3E/Z33 | LBS-NLO16/4E/Z33 | LBS-NLO16/6E/Z33* |
| 25 | LBS-NLO25/3E/Z33 | LBS-NLO25/4E/Z33 | LBS-NLO25/6E/Z33* |
| 32 | LBS-NLO32/3E/Z33 | LBS-NLO32/4E/Z33 | LBS-NLO32/6E/Z33* |
| 40 | LBS-NLO40/3E/Z33 | LBS-NLO40/4E/Z33 | LBS-NLO40/6E/Z33* |
| 63 (NLO) | LBS-NLO63/3E/Z33 | LBS-NLO63/4E/Z33 | LBS-NLO63/6E/Z33* |
| 63 (NLT) | LBS-NLT63/3E/Z33 | LBS-NLT63/4E/Z33 | LBS-NLT63/6E/Z33* |
| 80 | LBS-NLT80/3E/Z33 | LBS-NLT80/4E/Z33 | LBS-NLT80/6E/Z33* |
| 100 | LBS-NLT100/3E/Z33 | LBS-NLT100/4E/Z33 | LBS-NLT100/6E/Z33* |
| 125 | LBS-NLT125/3E/Z33 | LBS-NLT125/4E/Z33 | LBS-NLT125/6E/Z33* |
| 180 | LBS-NLT180/3E/Z33 | LBS-NLT180/4E/Z33 |  |
| 250 | LBS-NLT250/3E/Z33 | LBS-NLT250/4E/Z33 | - |

Information subject to change without notice

* Special order


## Dimensional drawing and mounting template



## Dimensions

| Model | A |  | A1 | C | C | C | F |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | L |  |  |  |  |  |  |
| LBS-NLO16-63 | 66 | 48 | 36.4 | 49.5 | - | 73 | 53.5 |
| LBS-NLO16-63 | 66 | 48 | - | - | 72.1 | 73 | 63.7 |
| LBS-NLT63-80 | 66 | 48 | 60 | 80 | 121 | 73 | 59 |
| LBS-NLT100-125 | 66 | 48 | 70 | 93 | 141 | 96 | 75 |
| LBS-NLT180-250 | 94 | 68 | 112 | 150 | 224 | 169 | 93 |

Information subject to change without notice - All dimensions in mm
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## Door Mount Disconnect Switches Central Hole Mounting Type "ZM"

## Features and specifications:

- Switches mount directly to door of enclosure through a single 22.5 mm diameter, notched hole
- Available for 16, 32 and 63A thermal rated current, 25 and 40 A upon request
- Red/ yellow padlockable handles to prevent unauthorized use
- 3 pole versions available from stock. 4 and 6 pole upon request
- Auxiliary and neutral contact blocks available

- Ingress protection: IP54, IP65 with gasket Z1 (front), IP20 back

Note: Grey/ black padlockable handle available. Change code from "NLO" or "NLT" to "ALO" or "ALT".
"ZM" Door Mount Disconnect Switches (Order by Part No.)

| Switch Size | 3 Pole Z20 <br> Part No. | 4 Pole Z20 <br> Part No.* | 3 Pole Z33 <br> Part No. | 4 Pole Z33 <br> Part No.* |
| :--- | :---: | :---: | :---: | :---: |
| 16 | LBS-NLO16/3ZM/Z20 | LBS-NLO16/4ZM/Z20* | LBS-NLO16/3ZM/Z33 | LBS-NLO16/4ZM/Z33* |
| $\mathbf{2 5}$ | LBS-NLO25/3ZM/Z20 | LBS-NLO25/4ZM/Z20* | LBS-NLO25/3ZM/Z33 | LBS-NLO25/4ZM/Z33* |
| 32 | LBS-NLO32/3ZM/Z20 | LBS-NLO32/4ZM/Z20* | LBS-NLO32/3ZM/Z33 | LBS-NLO32/4ZM/Z33* |
| 40 | LBS-NLO40/3ZM/Z20 | LBS-NLO40/4ZM/Z20* | LBS-NLO40/3ZM/Z33 | LBS-NLO40/4ZM/Z33* |
| 63 (NLO) | LBS-NLO63/3ZM/Z20 | LBS-NLO63/4ZM/Z20* | LBS-NLO63/3ZM/Z33 | LBS-NLO63/4ZM/Z33* |
| 63 (NLT) | LBS-NLT63/3ZM/Z20 | LBS-NLT63/4ZM/Z20* | LBS-NLT63/3ZM/Z33 | LBS-NLT63/4ZM/Z33* |
| 80 | LBS-NLT80/3ZM/Z20 | LBS-NLT80/4ZM/Z20* | LBS-NLT80/3ZM/Z33 | LBS-NLT80/4ZM/Z33* |

Information subject to change without notice

* Special order


## Dimensional drawing and mounting template



## Dimensions

| Model | Z33 Handle |  |  |  |  | Z20 Handle |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | A | C | C | F | L | A | C | C | F | L |
|  |  | 3 Pole | 4 Pole |  |  |  | 3 Pole | 4 Pole |  |  |
| LBS-NL016-63 | 66 | 36 | 49.5 | 73 | 76 | 48.5 | 36 | 49.5 | 73 | 77 |
| LBS-NLT63-80 | 66 | 60 | 80 | 83 | 84 | - | - | - | - | - |

Information subject to change without notice - All dimensions in mm

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## DIN Rail Mount Disconnect Switches 4 Hole Mounting Type "T"

## Features and specifications:

- Switches mount directly on DIN Rail
- Red/ yellow padlockable handles to prevent unauthorized use
- 3, 4, and 6 pole versions available (6 upon special request)
- Auxiliary and additional contact blocks available from stock
- Face plate hinged to allow access to screws without removing handle and face plate
- Ingress protection: IP20

DIN Rail Mount Disconnect Switches Direct Mount Handle - Type T (Order by Part No.)

| Switch Size | 3 Pole <br> Part No. | 4 Pole <br> Part No. | 6 Pole <br> Part No.* |
| :--- | :--- | :--- | :--- |
| 16 | LBS-NLO16/3T/Z20 | LBS-NLO16/4T/Z20 | LBS-NLO16/6T/Z20* |
| 25 | LBS-NLO25/3T/Z20 | LBS-NLO25/4T/Z20 | LBS-NLO25/6T/Z20* |
| 32 | LBS-NLO32/3T/Z20 | LBS-NLO32/4T/Z20 | LBS-NLO32/6T/Z20* |
| 40 | LBS-NLO40/3T/Z20 | LBS-NLO40/4T/Z20 | LBS-NLO40/6T/Z20* |
| 63 (NLO) | LBS-NLO63/3T/Z20 | LBS-NLO63/4T/Z20 | LBS-NLO63/6T/Z20* |
| 63 (NLT) | LBS-NLT63/3T/Z20 | LBS-NLT63/4T/Z20 | LBS-NLT63/6T/Z20* |
| 80 | LBS-NLT80/3T/Z20 | LBS-NLT80/4T/Z20 | LBS-NLT80/6T/Z20* |
| 100 | LBS-NLT100/3T/Z20 | LBS-NLT100/4T/Z20 | LBS-NLT100/6T/Z20* |
| $\mathbf{1 2 5}$ | LBS-NLT125/3T/Z20 | LBS-NLT125/4T/Z20 | LBS-NLT125/6T/Z20* |

Information subject to change without notice

* Special order

Dimensions

| Model | A | A | A | C | C | C | F |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3 Pole | 4 Pole | 6 Pole | 3 Pole | 4 Pole | 6 Pole |  |
| LBS-NLO16-63 | 36 | 36 | 79 | 36 | 49 | 72 | 60 |
| LBS-NLT63-80 | 63 | 83 | 125 | 60 | 82 | 121 | 64 |
| LBS-NLT100-125 | 70 | 93 | 140 | 70 | 93 | 141 | 83 |

Information subject to change without notice - All dimensions in mm

## NLO Diagram



NLT Diagram



## Panel Mount Disconnect Switches Type "V"

## Features and specifications:

- Switches mount to panel or DIN rail
- Door Interlock Function (door opens in 'off' position only)
- Red/ yellow padlockable handle to prevent unauthorized use
- Front plate with clutch handle mounted by central hole and 4 screws
- Steel shaft ( 300 mm ) for reliable operation. Special lengths available on request
- 3 and 4 pole versions available from stock. 6 pole version available upon request

- Auxiliary and additional contact blocks available
- Ingress protection: IP54, IP65 with gasket Z1 (front), IP20 back

The following types of handle/ clutch/ front plate are available:

- Standard type, Red/Yellow padlockable handle [code 71]
- Self-centering Clutch, Red/Yellow padlockable handle [code 45]
- Self-centering Clutch and defeatable Red/ Yellow padlockable handle [code 39]

Note: Grey/ black padlockable handle available. Change code from "NLO" or "NLT" to "ALO" or "ALT".

## Panel Mount Disconnect Switch with 300 mm Shaft and Standard Red/Yellow Rotary Handle "code 71"

"Code 71" Door Mount Disconnect Switches (Order by Part No.)

| Switch Size | 3 Pole <br> Part No. | 4 Pole <br> Part No. | 6 Pole <br> Part No.* |
| :--- | :--- | :---: | :---: |
| $\mathbf{1 6}$ | LBS-NLO16/3V/Z33/71 | LBS-NLO16/4V/Z33/71 | LBS-NLO16/6V/Z33/71* |
| $\mathbf{2 5}$ | LBS-NLO25/3V/Z33/71 | LBS-NLO25/4V/Z33/71 | LBS-NLO25/6V/Z33/71* |
| $\mathbf{3 2}$ | LBS-NLO32/3V/Z33/71 | LBS-NLO32/4V/Z33/71 | LBS-NLO32/6V/Z33/71* |
| $\mathbf{4 0}$ | LBS-NLO40/3V/Z33/71 | LBS-NLO40/4V/Z33/71 | LBS-NLO40/6V/Z33/71* |
| $\mathbf{6 3}$ | LBS-NLO63/3V/Z33/71 | LBS-NLO63/4V/Z33/71 | LBS-NLO63/6V/Z33/71* |
| $\mathbf{6 3}$ | LBS-NLT63/3V/Z33/71 | LBS-NLT63/4V/Z33/71 | LBS-NLT63/6V/Z33/71* |
| $\mathbf{8 0}$ | LBS-NLT80/3V/Z33/71 | LBS-NLT80/4V/Z33/71 | LBS-NLT80/6V/Z33/71* |
| $\mathbf{1 0 0}$ | LBS-NLT100/3V/Z33/71 | LBS-NLT100/4V/Z33/71 | LBS-NLT100/6V/Z33/71* |
| $\mathbf{1 2 5}$ | LBS-NLT125/3V/Z33/71 | LBS-NLT125/4V/Z33/71 | LBS-NLT125/6V/Z33/71* |
| Information subject to change without notice <br> *Special order |  |  |  |



Dimensions drawing and mounting template
(Self-Centering Clutch Handle "code 45" shown)


Panel Mount switch with standard handle

(H)

Panel Mount Disconnect Switches with 300mm Shaft \& Red/Yellow Rotary Handle with Self-centering Clutch "code 45"
"Code 45" Door Mount Disconnect Switches (Order by Part No.)

| Switch Size | 3 Pole Part No. | 4 Pole Part No.* | 6 Pole Part No.* |
| :---: | :---: | :---: | :---: |
| 16 | LBS-NLO16/3V/Z33/45 | LBS-NLO16/4V/Z33/45* | LBS-NLO16/6V/Z33/45* |
| 25 | LBS-NLO25/3V/Z33/45 | LBS-NLO25/4V/Z33/45* | LBS-NLO25/6V/Z33/45* |
| 32 | LBS-NLO32/3V/Z33/45 | LBS-NLO32/4V/Z33/45* | LBS-NLO32/6V/Z33/45* |
| 40 | LBS-NLO40/3V/Z33/45 | LBS-NLO40/4V/Z33/45* | LBS-NLO40/6V/Z33/45* |
| 63 (NLO) | LBS-NLO63/3V/Z33/45 | LBS-NL063/4V/Z33/45* | LBS-NLO63/6V/Z33/45* |
| 63 (NLT) | LBS-NLT63/3V/Z33/45 | LBS-NLT63/4V/Z33/45* | LBS-NLT63/6V/Z33/45* |
| 80 | LBS-NLT80/3V/Z33/45 | LBS-NLT80/4V/Z33/45* | LBS-NLT80/6V/Z33/45* |
| 100 | LBS-NLT100/3V/Z33/45 | LBS-NLT100/4V/Z33/45* | LBS-NLT100/6V/Z33/45* |
| 125 | LBS-NLT125/3V/Z33/45 | LBS-NLT125/4V/Z33/45* | LBS-NLT125/6V/Z33/45* |
| 180 | LBS-NLT180/3V/Z20/65/X83 | LBS-NLT180/4V/Z20/65/x83* | - |
| 250 | LBS-NLT250/3V/Z20/65/X83 | LBS-NLT250/4V/Z20/65/x83* | - |

NOTE: $180 \& 250 \mathrm{~A}$ switches "code 65": handle is interlocking in position "ON". Information subject to change without notice * Special order

## Panel Mount Disconnect Switches with 300mm Shaft \& Defeatable Red/Yellow Rotary Handle with Self-centering Clutch "code 39"

"Code 39" Door Mount Disconnect Switches (Order by Part No.)

| Switch Size | 3 Pole <br> Part No. | 4 Pole <br> Part No.* | 6 Pole <br> Part No.* |
| :--- | :--- | :--- | :---: |
| 16 | LBS-NLO16/3V/Z33/39 | LBS-NLO16/4V/Z33/39* | LBS-NLO16/6V/Z33/39* |
| 25 | LBS-NLO25/3V/Z33/39 | LBS-NLO25/4V/Z33/39* | LBS-NLO25/6V/Z33/39* |
| 32 | LBS-NLO32/3V/Z33/39 | LBS-NLO32/4V/Z33/39* | LBS-NLO32/6V/Z33/39* |
| 40 | LBS-NLO40/3V/Z33/39 | LBS-NLO40/4V/Z33/39* | LBS-NLO40/6V/Z33/39* |
| 63 (NLO) | LBS-NLO63/3V/Z33/39 | LBS-NLO63/4V/Z33/39* | LBS-NLO63/6V/Z33/39* |
| 63 (NLT) | LBS-NLT63/3V/Z33/39 | LBS-NLT63/4V/Z33/39* | LBS-NLT63/6V/Z33/39* |
| 80 | LBS-NLT80/3V/Z33/39 | LBS-NLT80/4V/Z33/39* | LBS-NLT80/6V/Z33/39* |
| 100 | LBS-NLT100/3V/Z33/39 | LBS-NLT100/4V/Z33/39* | LBS-NLT100/6V/Z33/39* |
| 125 | LBS-NLT125/3V/Z33/39 | LBS-NLT125/4V/Z33/39* | LBS-NLT125/6V/Z33/39* |
| 180 | LBS-NLT180/3V/Z20/64/x83 | LBS-NLT180/4V/Z20/64/x83* | - |
| 250 | LBS-NLT250/3V/Z20/64/x83 | LBS-NLT250/4V/Z20/64/x83* | - |

NOTE: 180 \& 250A switches "code 64": handle is not interlocking. Information subject to change without notice

* Special order

Dimensions for Panel Mount Disconnect Switches Type "V" (codes 71, 65, 64, 45, 39)

| Model | $\mathbf{A}$ |  | A1 | C | C | C | F | L1 |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | L2 |
| LBS-NLO16-63 | 66 | 48 | 36 | 49 | - | 73 | 66.5 | 77 |  |  |  |
| LBS-NLT16-25 | 66 | 48 | 48 | 48 | - | 62 | 50 | 80 |  |  |  |
| LBS-NLT32-40 | 66 | 48 | 45 | 61 | 91 | 72 | 50 | 80 |  |  |  |
| LBS-NLT63-80 | 66 | 48 | 60 | 80 | 121 | 83 | 59 | 80 |  |  |  |
| LBS-NLT100-125 | 66 | 48 | 70 | 93 | 141 | 96 | 75 | 80 |  |  |  |
| LBS-NLT180-250 | 94 | 68 | 112 | 150 | 224 | 169 | 93 | 47 |  |  |  |

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## Enclosed Disconnect Switches Types RLO/RLT

## Features and specifications:

- Padlockable to prevent unauthorized use
- 3 Enclosure sizes depending on size of switch (D1, D2, D3)
- 3, 4, and 6 pole versions available
- Auxiliary and neutral contact blocks available
- Ingress protection: IP65, Type1, 4X and 12
- Approvals: Switches mounted in CSA approved non-metallic enclosures



## RLT Enclosed Disconnect Switches (Order by Part No.)

| Switch <br> Size | 3 Pole Part No. | 4 Pole Part No. | 6 Pole Part No.* |
| :--- | :---: | :---: | :---: |
| 16 | LBS-RLO16/3PM-D1/Z33 | LBS-RLO16/4PM-D1/Z33 | LBS-RLO16/6PM-D1/Z33* |
| 25 | LBS-RLO25/3PM-D1/Z33 | LBS-RLO25/4PM-D1/Z33 | LBS-RLO25/6PM-D1/Z33* |
| 32 | LBS-RLO32/3PM-D1/Z33 | LBS-RLO32/4PM-D1/Z33 | LBS-RLO32/6PM-D1/Z33* |
| 40 | LBS-RLO40/3PM-D1/Z33 | LBS-RLO40/4PM-D1/Z33 | LBS-RLO40/6PM-D1/Z33* |
| 63 (RLO) | LBS-RLO63/3PM-D1/Z33 | LBS-RLO63/4PM-D1/Z33 | LBS-RLO63/6PM-D1/Z33* |
| 63 (RLT) | LBS-RLT63/3PM-D2/Z33 | LBS-RLT63/4PM-D2/Z33 | LBS-RLT63/6PM-D3/Z33* |
| 80 | LBS-RLT80/3PM-D2/Z33 | LBS-RLT80/4PM-D2/Z33 | LBS-RLT80/6PM-D3/Z33* |
| 100 | LBS-RLT100/3PM-D3/Z33 | LBS-RLT100/4PM-D3/Z33 | LBS-RLT100/6PM-D3/Z33* |
| 125 | LBS-RLT125/3PM-D3/Z33 | LBS-RLT125/4PM-D3/Z33 | LBS-RLT125/6PM-D3/Z33* |
| 180 | LBS-RLT180/3PM-D3/Z33 | - | - |
| 250 | LBS-RLT250/3PM-D3/Z33 | - | - |

Information subject to change without notice

* Special order


Dimensions and Knockouts

| Model | Enclosure <br> Size | A | C | F | L | Knockouts |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| LBS-RLO16-63 | D1 | 66 | 100 | 140 | 81 | $4 \times M 25,2 \times M 20$ |
| LBS-RLT63-125 | D2 | 66 | 146 | 176 | 104 | $4 \times M 32 / 40,2 \times M 20$ |
| LBS-RLT180-250 | D3 | 125 | 373 | 373 | 230 | $2 \times M 40 / 63,2 \times M 32 / 50,4 \times M 25 / 40$ |

Information subject to change without notice - All dimensions in mm

## MINI25 - Compact Enclosed Disconnect Switch 25A

The most cost-effective model of enclosed 25A disconnect switch from SONTHEIMER. Specially designed to control small/medium automation products, single-phase and three-phase electric motors, heating and lighting control panels, etc. Auxiliary contacts cannot be added.

## Features and Specifications:

- Small footprint
- Easy to install, wire and maintain
- Conforms to current requirements for use as a motor disconnect
- 2 screw ground/ neutral terminals inside the enclosure
- Mounting via 2 external screw slots or 4 internal knock-outs
- Maximum wire section: $4 \mathrm{~mm}^{2}$, 10AWG
- Cable entry: 4 pre-threaded M20x1.5
- Dimensions: $57.5 \times 64 \times 74 \mathrm{~mm}, 31 / 4 \times 2 \frac{1}{2} \times 3^{\prime \prime}$ (HxWxD)
- Operating temperature: -20 to $50^{\circ} \mathrm{C}\left(\max 80^{\circ} \mathrm{C}\right)$
- Ingress protection: IP67
- Voltage rating (CSA/ UL): 600Vac
- Current rating (CSA/ UL): 25 A
- 3-ph HP rating (CSA/ UL): 240V-1HP / 480V-5HP / 600V-5HP

- Approvals: CSA, UL, CE-marked, RoHS


## Compact enclosed disconnect switches 25A and accessories (Order by Part No.)

| Part No. | Description |
| :--- | :--- |
| LBS-WAI184/R3/25A | 25A compact enclosed 3-ph disconnect switch, 3 pole, red/ yellow lockable handle Z33 |
| LBS-WAI185/R3/25A | 25A compact enclosed 3-ph disconnect switch, 3 pole, black/ grey lockable handle Z33 |
| LBS-WAI184/R4/25A | 25A compact enclosed 3-ph disconnect switch, 4 pole, red/ yellow lockable handle Z33 |
| LBS-WAI185/R4/25A | 25A compact enclosed 3-ph disconnect switch, 4 pole, black/ grey lockable handle Z33 |
| $\mathbf{1 8 0 . 0 2 0}$ | M20x1.5 cable gland, polyamide 6 light grey, range 6-12mm, 0.236-0.472 inches |
| $\mathbf{1 8 1 . 0 2 0}$ | M20x1.5 cable gland - reduced seal, polyamide 6 light grey, range 5-9mm, 0.197-0.354 inches |
| $\mathbf{1 8 2 . 0 2 0}$ | M20x1.5 cable gland, polyamide 6 light grey, range 10-14mm, 0.394-0.551 inches |
| $\mathbf{1 9 3 . 6 2 2}$ | Thread adapter, polyamide, M20(M) to 1/ 2in NPT(F) |

Information subject to change without notice

Dimensional Drawings (mm):


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## Accessories for Disconnect Switches

## Auxiliary Contact Blocks (1 NO + 1 NC)

- Side mount auxiliary contacts for switching power/ signal of 10 A or less

| Contact Diagram | Switch <br> Size | Door Mount <br> Part No. | Panel/Enclosed <br> Mount Part No. |
| :--- | :---: | :---: | :---: |
| $11 \longrightarrow 12$ | 16 A to 125 A | LBS-HE11 | LBS-HV11 |
| $13 \longrightarrow-14$ |  |  |  |



## Add-on Neutral (Power) Blocks

- Add poles to your disconnect with these side mount and stackable neutral blocks

| Contact Diagram - Early Make | Switch Size | Door Mount Part No. | Panel/Enclosed Mount Part No. |
| :---: | :---: | :---: | :---: |
| $\mathrm{N} \longrightarrow \mathrm{O}-\mathrm{O}$ | $\begin{aligned} & 16 \mathrm{~A}-25 \mathrm{~A} \\ & 25 \mathrm{~A}-40 \mathrm{~A} \\ & 63 \mathrm{~A}-80 \mathrm{~A} \\ & 100 \mathrm{~A}-125 \mathrm{~A} \end{aligned}$ | LBS-NVG-20E LBS-NVG-40E LBS-NVG-80E LBS-NVG-125E | LBS-NVG-20V LBS-NVG-40V LBS-NVG-80V LBS-NVG-125V |
| Contact Diagram - Simultaneous Make | Switch Size | Door Mount Part No. | Panel/Enclosed Mount Part No. |
| $\mathrm{N} \longrightarrow \mathrm{O}-\mathrm{O}$ | $\begin{aligned} & 16 \mathrm{~A}-25 \mathrm{~A} \\ & 25 \mathrm{~A}-40 \mathrm{~A} \\ & 63 \mathrm{~A}-80 \mathrm{~A} \\ & 100 \mathrm{~A}-125 \mathrm{~A} \end{aligned}$ | LBS-NGG-20E LBS-NGG-40E LBS-NGG-80E LBS-NGG-125E | LBS-NGG-20V LBS-NGG-40V LBS-NGG-80V LBS-NGG-125V |



## Extension Shaft with Coupler

- Doubles the length of the panel mount disconnect shaft

| Extension Shaft Part No: | LBS-Z40 |
| :--- | :--- |



## Replacement Handles

## Padlockable handle Z20

Available in three sizes:

- Small for up to two padlocks, medium and large for up to three padlocks each, hasp thickness: 6 mm

| LBS-Z20S (Small) | LBS-Z20M (Medium) | LBS-Z20M (Large) | Availability for switch type and size |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 16-25A | 32-40A | 63-80A | $\begin{aligned} & \text { 100- } \\ & \text { 125A } \end{aligned}$ | $\begin{aligned} & \text { 180- } \\ & \text { 250A } \end{aligned}$ |
| P |  |  | Small | E, ZM, V | E, ZM, V | E, ZM, V | - | - |
|  |  |  | Medium | E, ZM, V | E, ZM, V | E, ZM, V | E, V | - |
|  |  |  | Large | - | - | - | - | E, V |

## Round Padlockable handle Z33

For locking with up to three padlocks, hasp thickness: 6 mm (Small) or 8mm (Large).
Available for:

| Disconnect Switch Type | 16- <br> 25A | 32- <br> 40A | 63- <br> 80A | 100- <br> 125A | 180- <br> 250A |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 4 Hole Mount Type E | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Central Hole Mount Type ZM | $\checkmark$ | $\checkmark$ | $\checkmark$ | - | - |
| Panel Mount Type V Style 71/45/39 | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Enclosed (RLT) | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | - |

How to Order (Order by Part No.)

| Handle <br> Model/Size | Red/Yellow Handle for <br>  <br> Enclosed Switches | Standard |  | Hed/Yellow |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grey/Black | Red/Yellow with <br> Self-Adjusting <br> Clutch | Defeatable with <br> Self-Adjusting <br> Clutch |  |  |
| Small 66x66mm | LBS-Z33/ D1 | LBS-Z33 | LBS-Z33/Z71B | LBS-Z33/Z45 | LBS-Z39 |
| Large 90x90mm | LBS-Z33/ D2 | - | - | - | - |




## Rectangular Padlockable handle Z35

For locking with up to three padlocks, hasp thickness: 6 mm (small) or 8 mm (medium).

| LBS-Z35 | Small | Medium | Availability for switch type and size |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\oplus \quad \mid \rightarrow \psi^{4.5}$ |  |  | $\begin{aligned} & 16- \\ & 25 A \end{aligned}$ | $\begin{aligned} & 32- \\ & \text { 40A } \end{aligned}$ | $\begin{aligned} & \text { 63- } \\ & \text { 80A } \end{aligned}$ | $\begin{aligned} & \text { 100- } \\ & \text { 125A } \end{aligned}$ | $\begin{aligned} & \text { 180- } \\ & \text { 250A } \end{aligned}$ |
| $\sim$ |  |  | Small | E, V | E, V | E, V | E, V | - |
|  |  |  | Medium | E, V | E, V | E, V | E, V | - |

## Shaft Assembly (replacement Parts, Order by Part No.)

| Part No. | Description |
| :--- | :--- |
| LBS-Z33/Z71 | Shaft and clutch for standard handle Z71, 16-125A |
| LBS-Z33/Z45 | Shaft and self-adjusting clutch for handle Z45, 16-125A |
| LBS-WAI109 | Shaft and plastic inserts for door-mount switches "E", 16-80A |

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[^0]:    Information subject to change without notice - All dimensions in mm

