# Terminal Blocks, Fuse Blocks and Fuse Holders

**Screw Connection**

**Spring Cage**

**Insulation Displacement Connection**

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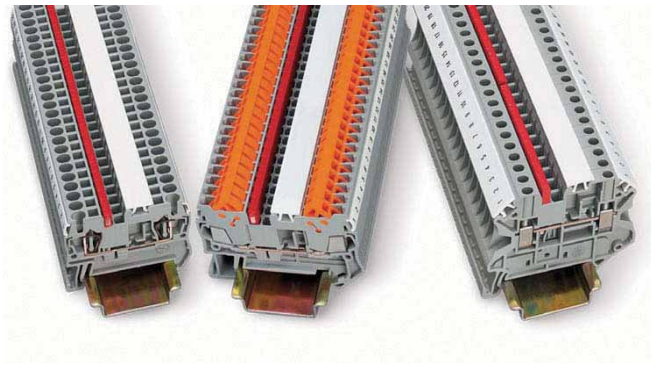
Learn Online

IEC—*XB* Series



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## IEC—*XB* Series Overview

### Product Description

The ***XB*** Series from Eaton offers a complete terminal block system with a universal range of accessories. Marking, bridging and testing accessories are standardized across the different termination technologies—reducing inventory and logistics costs. The modular terminal block design allows for use of the different terminal block types together or individually, providing the highest degree of flexibility.

### Application Description

The metal portion of the ***XB*** Series terminal blocks are made from high-grade, strain-crack and corrosion-proof copper alloys. They won't experience any electrolytic corrosion or rusting, even when moisture is present. The metal surfaces are protected with a lead-free, galvanic nickel or tin plating. The good electrical conductivity permits only a low temperature rise. The Polyamide 6.6 housings allow for operating temperatures up to 257°F (125°C) and are certified for inflammability Class V0 in accordance with UL 94.

### Features

**Global acceptance**—The ***XB*** Series terminal blocks are designed to worldwide standards and meet the latest international requirements.

**Flexible Plug-in bridge system**—All three technologies (screw, spring and IDC) use the same bridge system, allowing for individual potential distribution and quickly bridged connections among the same terminal block type or across different types. The ***XB*** Series terminal blocks have two bridge shafts arranged in one line, making flexible chain bridging and skip bridging between non-adjacent terminal blocks possible. Plug-in bridges are available from 2 to 50 positions. Reducing bridges are also available to connect a larger terminal block to a smaller one.

**Large surface area for marking**—All ***XB*** Series terminal blocks have generously sized surface areas for labeling. This allows for clearly labeled wiring that results in reduced startup time and simplifies activities such as testing and maintenance. There are provisions for marking individual terminal blocks and end stops, strips of terminal blocks, and large groups of terminal blocks.

**Standardized testing system**—All test plugs make contact in one of the easily accessible bridge shafts. A 2.3 mm diameter test plug is available for individual measuring wires. Modular test plugs are also available for more advanced testing.

### Standards and Certifications

- UL® and cUL® recognized—File No. E67464
- CE approved
- LVD ①
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1

***Note***

① Not all standards apply to all terminal blocks. Contact Eaton for details.

## Technical Data and Specifications

### IEC—*XB* Series

| Description | Specification |
|---|---|
| Insulation material | Polyamide 6.6 |
| Dielectric strength | 600 kV/cm |
| Creep resistance | 600 CTI |
| Internal insulation resistance | $10^{12}$ ohms cm |
| Surface resistance | $10^{10}$ ohms |
| Flammability rating | UL 94 V0 |
| Continuous operating temperature | –40 to 257°F (–40 to 125°C) |

**Screw Connection**

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Drawings Online

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## Screw Connection Terminal Blocks Overview

### Product Description

The XBUT Series uses a screw connection system that is accepted worldwide and is suitable in most applications. The maintenance-free connection provides the reliability you expect from Eaton.

### Application Description

Designed for applications with high demands, the XBUT Series screw terminal block has a maintenance-free wire connection. re-tightening of the terminal screws is not necessary to ensure proper operation. The screw locking technique prevents the screws from backing out. Copper wires can be clamped without pre-treatment or ferrules can be used for splicing protection. Multiple conductors can be connected in the same clamping mechanism, saving space.

### Features

- Maintenance-free connections
- Global acceptance
- Multi-conductor connections
- Flexible Plug-in bridge system
- Large surface area for marking
- Standardized testing system
- Metal parts made of tin-plated copper alloy

### Standards and Certifications

- UL and cUL recognized—File No. E67464
- CE approved
- LVD ①:
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1

***Note***

① Not all standards apply to all terminal blocks. Contact Eaton for details.

Single Level—Through-Feed

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## Single Level—Through-Feed

### Product Description

The XBUT terminal blocks feature a compact design and maintenance-free screw connection. There is a double bridge shaft providing maximum flexibility.

The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. There are numerous options for accessories, including those for testing and marking. Terminal blocks are available for wire cross-sections ranging from 12 AWG (2.5 $mm^2$) to 2/0 AWG (150 $mm^2$).

## Product Selection

**XBUT4**

### Screw Connection Single Level—Through-Feed

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 800/32/26–12 | 750/22/28/26–12 | 600/20/26–12 | Gray | 50 | **XBUT25** |
| | | | | | Blue | 50 | **XBUT25BU** |
| 6.2 mm | 10 AWG/4 $mm^2$ | 800/41/26–10 | 750/30/38/26–10 | 600/30/26–10 | Gray | 50 | **XBUT4** |
| | | | | | Blue | 50 | **XBUT4BU** |
| | | | | | Orange | 50 | **XBUT4OR** |
| | | | | | Yellow | 50 | **XBUT4YE** |
| | | | | | Red | 50 | **XBUT4RD** |
| | | | | | White | 50 | **XBUT4WH** |
| | | | | | Black | 50 | **XBUT4BK** |
| | | | | | Green | 50 | **XBUT4GN** |
| 8.2 mm | 8 AWG/6 $mm^2$ | 800/57/24–8 | 750/40/50/24–8 | 600/50/24–8 | Gray | 50 | **XBUT6** |
| | | | | | Blue | 50 | **XBUT6BU** |
| 10.2 mm | 6 AWG/10 $mm^2$ | 1000/76/20–6 | 750/54/69/20–6 | 600/65/20–6 | Gray | 50 | **XBUT10** |
| | | | | | Blue | 50 | **XBUT10BU** |
| | | | | | Orange | 50 | **XBUT10OR** |
| | | | | | Yellow | 50 | **XBUT10YE** |
| | | | | | Red | 50 | **XBUT10RD** |
| 12 mm | 4 AWG/16 $mm^2$ | 1000/101/17–4 | — | 600/85/16–4 | Gray | 50 | **XBUT16** |
| | | | | | Blue | 50 | **XBUT16BU** |
| 16 mm | 0 AWG/35 $mm^2$ | 1000/150/15–0 | — | 600/150/14–1/0 | Gray | 50 | **XBUT35** |
| | | | | | Blue | 50 | **XBUT35BU** |

## Accessories

### Screw Connection Single Level—Through-Feed

| Description | Color | Number of Positions | Standard Pack | XBUT25 Catalog Number | XBUT4 Catalog Number | XBUT6 Catalog Number | XBUT10 Catalog Number | XBUT16 Catalog Number | XBUT35 Catalog Number |
|---|---|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACUT10** | **XBACUT10** | **XBACUT10** | **XBACUT10** | **XBACUT16** | ① |
| Partition plate | Gray | — | 50 | **XBATUT10** | **XBATUT10** | **XBATUT10** | **XBATUT10** | — | — |
| Plug-in bridge— for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS28** | **XBAFBS210** | **XBAFBS212** | **XBAFBS216** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | — | — | — | — |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | — | — | — | — |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | — | — | — | — |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | — | — | — | — |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | — | — | — |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | — | — | — | — |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS8** | — | — | — |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB8** ② | **XBMZB10** ② | **XBMZB12** ② | **XBMZB15** ② |

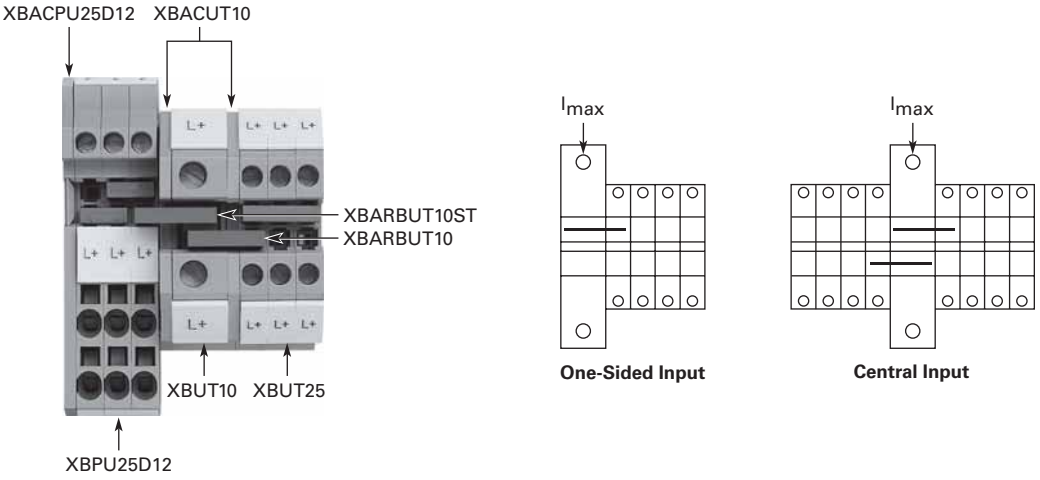
***Notes***

① Enclosed block, no end cover needed.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## XBUT with Reducing Bridge






## Step-Down Bridge with Standard Feed-Through Terminal Blocks

| Input Terminal Blocks | Cross-Section | Pick-Off Terminal Blocks | Cross-Section AWG ($mm^2$) | One-Sided Input $I_{max}$ | Central Input $I_{max}$ | Bridge Catalog Number |
|---|---|---|---|---|---|---|
| XBUT10 | 6 AWG (10 $mm^2$) | XBUT25 | 12 (2.5) | 40 | 65 | **XBARBUT10** |
| | | XBUT4 | 10 (4) | 45 | 65 | **XBARBUT10** |
| | | XBPT25 | 12 (2.5) | 40 | 65 | **XBARBUT10ST** |
| | | XBPT4 | 10 (4) | 45 | 65 | **XBARBUT10ST** |
| | | XBQT15 | 14 (1.5) | 35 | 65 | **XBARBUT10ST** |
| | | XBQT25 | 12 (2.5) | 40 | 65 | **XBARBUT10ST** |
| XBUT16 | 4 AWG (16 $mm^2$) | XBUT25 | 12 (2.5) | 40 | 80 | **XBARBUT16** |
| | | XBUT4 | 10 (4) | 45 | 90 | **XBARBUT16** |
| | | XBPT25 | 12 (2.5) | 40 | 80 | **XBARBUT16ST** |
| | | XBPT4 | 10 (4) | 45 | 90 | **XBARBUT16ST** |
| | | XBQT15 | 14 (1.5) | 35 | 70 | **XBARBUT16ST** |
| | | XBQT25 | 12 (2.5) | 40 | 80 | **XBARBUT16ST** |

## Technical Data and Specifications

### Screw Connection Single Level—Through-Feed

| Description | XBUT25 | XBUT4 | XBUT6 | XBUT10 | XBUT16 | XBUT35 |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 32/4 | 41/6 | 57/10 | 76/16 | 101/25 | 150/50 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/II | III/I | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–6/0.25–6 | 0.5–10/0.5–10 | 1.0–16/1.0–16 | 1.5–35/1.5–35 |
| **Multi-Conductor Connection** (same cross-section) | | | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.2–2.5/0.2–2.5 | 0.5–4/0.5–4 | 1.0–6/1.0–4 | 1.5–16/1.5–10 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.5–2.5 | 1.0–4 | 1.5–10 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.5 | 0.5–2.5 | 0.5–4 | 0.5–6 | 0.75–10 | 1.5–10 |
| Stripping length in inches (mm) | 0.35 (9) | 0.35 (9) | 0.39 (10) | 0.39 (10) | 0.39 (10) | 0.63 (16) |
| Thread | M3 | M3 | M4 | M4 | M5 | M6 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 13.3–15.9 (1.5–1.8) | 13.3–15.9 (1.5–1.8) | 22.1–26.6 (2.5–3) | 28.3–32.7 (3.2–3.7) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Single Level—Through-Feed

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBUT25** | 0.20 (5.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4** | 0.24 (6.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT6** | 0.32 (8.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT10** | 0.40 (10.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT16** | 0.47 (12.0) | 2.08 (52.8) | 0.09 (2.2) | 2.16 (54.8) | 2.45 (62.3) |
| **XBUT35** | 0.63 (16.0) | 2.37 (60.2) | — | 2.59 (65.7) | 2.88 (73.2) |

***Notes***

① XBUT35 has an enclosed design. The use of an end cover is not required.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

Single Level—Ground Blocks

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## Single Level—Ground Blocks

### Product Description

The ground terminal blocks have the same shape and pitch as the standard terminal block, in a green-yellow housing. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBUT6PE

#### Screw Connection Single Level—Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/26–12 | —/—/26–12 | —/—/26–12 | Green/Yellow | 50 | **XBUT25PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/26–10 | —/—/26–10 | —/—/26–10 | Green/Yellow | 50 | **XBUT4PE** |
| 8.2 mm | 8 AWG/6 $mm^2$ | —/—/24–8 | —/—/24–8 | —/—/24–8 | Green/Yellow | 50 | **XBUT6PE** |
| 10.2 mm | 6 AWG/10 $mm^2$ | —/76/20–6 | —/54/69/20–6 | —/—/20–6 | Green/Yellow | 50 | **XBUT10PE** |
| 12 mm | 4 AWG/16 $mm^2$ | —/101/15–4 | — | —/—/16–4 | Green/Yellow | 50 | **XBUT16PE** |
| 16 mm | 2 AWG/35 $mm^2$ | —/125/15–2 | — | —/—/14–1/0 | Green/Yellow | 50 | **XBUT35PE** |

## Accessories

### Screw Connection Single Level—Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBUT25PE Catalog Number | XBUT4PE Catalog Number | XBUT6PE Catalog Number | XBUT10PE Catalog umber | XBUT16PE Catalog Number | XBUT35PE Catalog Number |
|---|---|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACUT10** | **XBACUT10** | **XBACUT10** | **XBACUT10** | **XBACUT16** | ③ |
| Partition plate | — | — | 50 | **XBATUT10** | **XBATUT10** | **XBATUT10** | **XBATUT10** | — | — |
| Plug-in bridge— for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS28** | **XBAFBS210** | **XBAFBS212** | **XBAFBS212** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | — | — | — | — |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | — | — | — | — |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | — | — | — | — |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | — | — | — | — |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | — | — | — |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | — | — | — | — |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS8** | — | — | — |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB8** ② | **XBMZB10** ② | **XBMZB12** ② | **XBMZB15** ② |

## Technical Data and Specifications

### Screw Connection Single Level—Ground Blocks

| Description | XBUT25PE | XBUT4PE | XBUT6PE | XBUT10PE | XBUT16PE | XBUT35PE |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | — | — | — | 76/16 | 101/25 | 125/50 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/II | III/I | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–6/0.25–6 | 0.5–10/0.5–10 | 1.0–16/1.0–16 | 1.5–35/1.5–35 |
| **Multi-Conductor Connection** (same cross-section) | | | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.2–2.5/0.2–2.5 | 0.5–4/0.5–4 | 1.0–6/1.0–4 | 1.5–16/1.5–10 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.5–2.5 | 1.0–4 | 1.5–10 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.5 | 0.5–2.5 | 0.5–4 | 0.5–6 | 0.75–10 | 1.5–10 |
| Stripping length in inches (mm) | 0.35 (9) | 0.35 (9) | 0.39 (10) | 0.39 (10) | 0.39 (10) | 0.63 (16) |
| Thread | M3 | M3 | M4 | M4 | M5 | M6 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 13.3–15.9 (1.5–1.8) | 13.3–15.9 (1.5–1.8) | 22.1–26.6 (2.5–3) | 28.3–32.7 (3.2–3.7) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Single Level—Ground Blocks

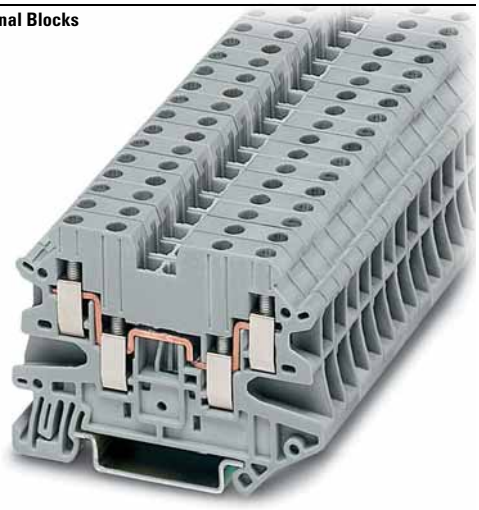
| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBUT25PE** | 0.20 (5.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4PE** | 0.24 (6.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT6PE** | 0.32 (8.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT10PE** | 0.40 (10.2) | 1.85 (46.9) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT16PE** | 0.47 (12.0) | 2.08 (52.8) | 0.09 (2.2) | 2.16 (54.8) | 2.45 (62.3) |
| **XBUT35PE** | 0.63 (16.0) | 2.37 (60.2) | — | 2.59 (65.7) | 2.88 (73.2) |

***Notes***

① For ordering information, see **Page V7-T8-103**.
② For information on Printed Marking Tag Options, see **Page V7-T8-98**.
③ XBUT35PE has an enclosed design. The use of an end cover is not required.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor Terminal Blocks



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## Multi-Conductor Terminal Blocks

### Product Description

The multi-conductor terminal blocks offer a space-saving alternative to standard feed-through terminal blocks allowing for high density wiring. Often, three connections have to be led to one terminal block. The XBUT…D12 terminal block accomplishes this without any additional terminal blocks or bridging required.

The XBUT…D22 terminal blocks allow four wires to be connected to one potential—and can therefore be used as compact power distributors.

### Product Selection

XBUT25D12

#### Screw Connection Multi-Conductor Terminal Blocks, Three-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 500/28/26–12 | 150/20/26–12 | Gray | 50 | **XBUT25D12** |
| | | | | Blue | 50 | **XBUT25D12BU** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/39/26–10 | 150/30/26–10 | Gray | 50 | **XBUT4D12** |
| | | | | Blue | 50 | **XBUT4D12BU** |

XBUT4D22

#### Screw Connection Multi-Conductor Terminal Blocks, Four-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 500/28/26–12 | 150/20/26–12 | Gray | 50 | **XBUT25D22** |
| | | | | Blue | 50 | **XBUT25D22BU** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/39/26–10 | 150/30/26–10 | Gray | 50 | **XBUT4D22** |
| | | | | Blue | 50 | **XBUT4D22BU** |

## Accessories

### Screw Connection Multi-Conductor Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBUT25D12 Catalog Number | XBUT4D12 Catalog Number | XBUT25D22 Catalog Number | XBUT4D22 Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACUT4D12** | **XBACUT4D12** | **XBACUT4D22** | **XBACUT4D22** |
| End cover segment | Gray | — | 50 | **XBASUT4** | **XBASUT4** | **XBASUT4** | **XBASUT4** |
| Partition plate | — | — | 50 | **XBATUTD12** | **XBATUTD12** | **XBATUTD22** | **XBATUTD22** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② | **XBMZB6** ② |

## Technical Data and Specifications

### Screw Connection Multi-Conductor Terminal Blocks

| Description | XBUT25D12 | XBUT4D12 | XBUT25D22 | XBUT4D22 |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 28/4 | 39/6 | 28/4 | 39/6 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 |
| **Multi-Conductor Connection** (same cross-section) | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.0/0.14–1.0 | 0.14–1.0/0.14–1.5 | 0.14–1.0/0.14–1.0 | 0.14–1/0.14–1.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.0 | 0.25–1.5 | 0.25–1.0 | 0.25–1.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.0 | 0.5–1.0 | 0.5–1.0 | 0.5–1.0 |
| Stripping length in inches (mm) | 0.31 (8) | 0.31 (8) | 0.31 (8) | 0.31 (8) |
| Thread | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Multi-Conductor Terminal Blocks

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | Height for— 35 x 15 in |
|---|---|---|---|---|---|
| **XBUT25D12** | 0.20 (5.2) | 2.24 (56.8) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4D12** | 0.24 (6.2) | 2.24 (56.8) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT25D22** | 0.20 (5.2) | 2.52 (64.1) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4D22** | 0.24 (6.2) | 2.52 (64.1) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |

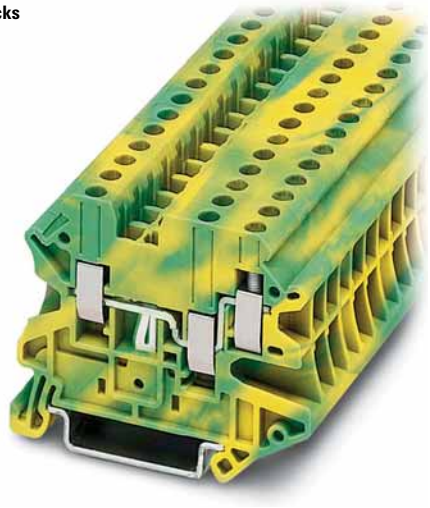
***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor Ground Blocks



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## Multi-Conductor Ground Blocks

### Product Description

The ground terminal blocks have the same shape and pitch as the standard terminal block, in a green-yellow housing. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBUT4D12PE

#### Screw Connection Multi-Conductor Ground Blocks—Three-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/26–12 | —/—/26–12 | Green/Yellow | 50 | **XBUT25D12PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/26–10 | —/—/26–10 | Green/Yellow | 50 | **XBUT4D12PE** |

XBUT25D22PE

#### Screw Connection Multi-Conductor Ground Blocks—Four-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/26–12 | —/—/26–12 | Green/Yellow | 50 | **XBUT25D22PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/26–10 | —/—/26–10 | Green/Yellow | 50 | **XBUT4D22PE** |

## Accessories

### Screw Connection Multi-Conductor Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBUT25D12PE Catalog Number | XBUT4D12PE Catalog Number | XBUT25D22PE Catalog Number | XBUT4D22PE Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACUT4D12** | **XBACUT4D12** | **XBACUT4D22** | **XBACUT4D22** |
| End cover segment | Gray | — | 50 | **XBASUT4** | **XBASUT4** | **XBASUT4** | **XBASUT4** |
| Partition plate | — | — | 50 | **XBATUTD12** | **XBATUTD12** | **XBATUTD22** | **XBATUTD22** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② | **XBMZB6** ② |

## Technical Data and Specifications

### Screw Connection Multi-Conductor Ground Blocks

| Description | XBUT25D12PE | XBUT4D12PE | XBUT25D22PE | XBUT4D22PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | — | — | — | — |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 |
| **Multi-Conductor Connection** (same cross-section) | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.0/0.14–1.0 | 0.14–1.0/0.14–1.5 | 0.14–1.0/0.14–1.0 | 0.14–1.0/0.14–1.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.0 | 0.25–1.5 | 0.25–1.0 | 0.25–1.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.0 | 0.5–1.0 | 0.5–1 | 0.5–1 |
| Stripping length in inches (mm) | 0.31 (8) | 0.31 (8) | 0.31 (8) | 0.31 (8) |
| Thread | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Multi-Connector Ground Blocks

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBUT25D12PE** | 0.20 (5.2) | 2.24 (56.8) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4D12PE** | 0.24 (6.2) | 2.24 (56.8) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT25D22PE** | 0.20 (5.2) | 2.52 (64.1) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBUT4D22PE** | 0.24 (6.2) | 2.52 (64.1) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Double Level

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## Double Level

### Product Description

The potentials of the XBUTT double-level terminal blocks are on two levels to reduce space requirements by 50% over single-level terminal blocks. The XBUTT Series can be bridged on both levels for maximum flexibility. Marking can be provided at each termination point.

### Product Selection

XBUTT4

**Screw Connection Double Level Blocks, XBUTT4**

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Screw Connection Double Level Blocks** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 800/36/26–10 | 300/30/26–10 | Gray | 50 | **XBUTT4** |
| | | | | Blue | 50 | **XBUTT4BU** |
| | | | | Red | 50 | **XBUTT4RD** |
| **Screw Connection Double Level Block** (terminal block with potential distribution between the levels) | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 800/36/26–10 | 300/30/26–10 | Gray | 50 | **XBUTT4PV** |

XBUTT4PE

**Screw Connection Double Level Ground Block, XBUTT4PE**

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Screw Connection Double Level—Ground Blocks** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | —/—/26–10 | —/—/26–10 | Green/Yellow | 50 | **XBUTT4PE** |

## Accessories

### Screw Connection Terminal/Ground Blocks, Double Level

| Description | Color | Number of Positions | Standard Pack | XBUTT4 Catalog Number | XBUTT4PE Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACUTT4** | **XBACUTT4** |
| End cover segment | Gray | — | 10 | **XBDPUTT4** | **XBDPUTT4** |
| Partition plate | — | — | 50 | **XBATUTT4** | **XBATUTT4** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS26** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS36** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS56** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS106** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS506** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS6** | **XBATSPS6** |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB6** ② | **XBMZB6** ② |

## Technical Data and Specifications

### Screw Connection Double Level

| Description | XBUTT4 | XBUTT4PE |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 30/6 | —/6 |
| Rated surge voltage in kV/contamination class | 8/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–4/0.25–4 | 0.25–4/0.25–4 |
| **Multi-Conductor Connection** (same cross-section) | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–2.5 | 0.5–2.5 |
| Stripping length in inches (mm) | 0.35 (9) | 0.35 (9) |
| Thread | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Double Level

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | Height for— 35 x 15 in |
|---|---|---|---|---|---|
| **XBUTT4** | 0.24 (6.2) | 2.75 (69.9) | 0.09 (2.2) | 2.56 (65.0) | 2.85 (72.5) |
| **XBUTT4PE** | 0.24 (6.2) | 2.75 (69.9) | 0.09 (2.2) | 2.56 (65.0) | 2.85 (72.5) |

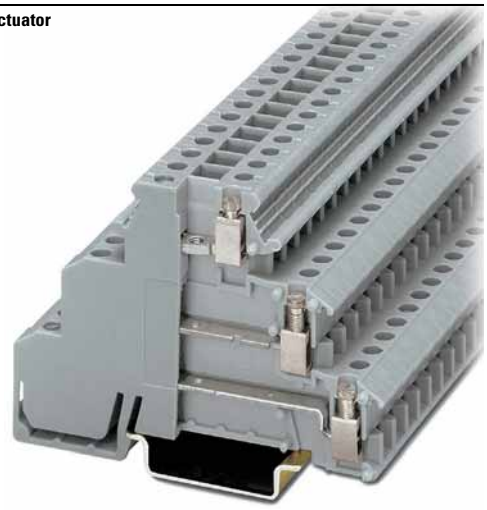
***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Triple Level Sensor/Actuator



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| Disconnect and Component Terminal Blocks | **V7-T8-24** |
| High Current Blocks | **V7-T8-27** |
| Mini Screw Connection | **V7-T8-29** |


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## Triple Level Sensor/Actuator

### Product Description

The XB3UK sensor terminal blocks reduce installation time by terminating three-wire devices such as photoelectric and proximity sensors in a single terminal block. The XB3UK Series accommodates a design where the positive and negative connections are grouped so that only the signal lines and one pair of wires for the power supply need to be wired between the terminal box and the control. The upper level accommodates the markable feed-through terminals for the signal line. The two lower terminal points can be bridged. These are used for the sensor power supply. The positive and negative potential can be fed into the bridges with XB3UKF25. The first sensor can also be connected to this three-wire feed-through block.

### Product Selection

XB3UKA25

**Screw Connection Triple Level Sensor/Actuator**

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Screw Connection Triple Level** | | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 250/26/24–12 | — | 300/15/30–14 | Gray | 50 | **XB3UKA25** |
| **Screw Connection Triple Level with Red LED, 15–30 Vdc, 2.5–7.5A** | | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 250/26/24–12 | — | 300/15/30–14 | Gray | 50 | **XB3UKA25L24** |

XB3UKF25

**Screw Connection Triple Level Sensor/Actuator**

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Screw Connection Triple Level** | | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | — | 250/30/24–12 | 300/15/30–14 | Gray | 50 | **XB3UKF25** |

**XB3UKA25PE**

### Screw Connection Triple Level Sensor/Actuator

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Screw Connection Triple Level** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 250/26/24–12 | 300/15/30–14 | Gray | 50 | **XB3UKA25PE** |
| **Screw Connection Triple Level with Red LED, 15–30 Vdc, 2.5–7.5A** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 250/26/24–12 | 300/15/30–14 | Gray | 50 | **XB3UKA25PEL24** |

**XB3UKF25PE**

### Screw Connection Triple Level Sensor/Actuator

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Screw Connection Triple Level** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | — | 300/15/30–14 | Gray | 50 | **XB3UKF25PE** |

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## Accessories

### Screw Connection Triple Level Sensor/Actuator

| Description | Color | Number of Positions | Standard Pack | XB3UKA25 Catalog Number | XB3UKF25 Catalog Number | XB3UKA25PE Catalog Number | XB3UKF25PE Catalog Number |
|---|---|---|---|---|---|---|---|
| Insertion bridge | Blue | 80 | 1 | **XBAEB80DIKB** | **XBAEB80DIKB** | **XBAEB80DIKB** | **XBAEB80DIKB** |
| | Red | 80 | 1 | **XBAEB80DIKR** | **XBAEB80DIKR** | **XBAEB80DIKR** | **XBAEB80DIKR** |
| Insertion bridge | Blue | 10 | 10 | **XBAEB10DIKB** | **XBAEB10DIKB** | **XBAEB10DIKB** | **XBAEB10DIKB** |
| | Red | 10 | 10 | **XBAEB10DIKR** | **XBAEB10DIKR** | **XBAEB10DIKR** | **XBAEB10DIKR** |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB6** ① | **XBMZB6** ② | **XBMZB6** ② | **XBMZB6** ② |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### Screw Connection Triple Level Sensor/Actuator

| Description | XB3UKA25 | XB3UKF25 | XB3UKA25PE | XB3UKF25PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 26/2.5 | 30/4 | 26/2.5 | 26/2.5 |
| Maximum cross section with insertion bridge solid/stranded in $mm^2$ | 4/2.5 | 4/2.5 | 4/2.5 | 4/2.5 |
| Rated surge voltage in kV/contamination class | 4/3 | 4/3 | 4/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–2.5/0.25–2.5 | 0.25–2.5/0.25–2.5 | 0.25–2.5/0.25–2.5 |
| **Multi-Conductor Connection** (same cross-section) | | | | |
| Solid/stranded in $mm^2$ | 0.2–1.0/0.2–1.0 | 0.2–1.0/0.2–1.0 | 0.2–1.0/0.2–1.0 | 0.2–1.0/0.2–1.0 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.0 | 0.25–1.0 | 0.25–1.0 | 0.25–1.0 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.0 | 0.5–1.0 | 0.5–1.0 | 0.5–1.0 |
| Stripping length in inches (mm) | 0.31 (8) | 0.31 (8) | 0.31 (8) | 0.31 (8) |
| Thread | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 4.4–5.3 (0.5–0.6) | 4.4–5.3 (0.5–0.6) | 4.4–5.3 (0.5–0.6) | 4.4–5.3 (0.5–0.6) |

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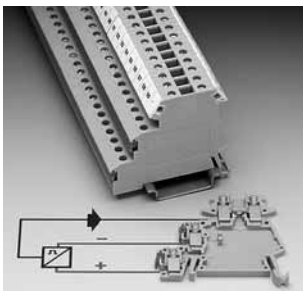
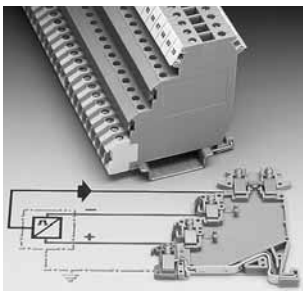
### Wiring for Three-Level Sensor Terminal Blocks



### Wiring for Four-Level Sensor Terminal Blocks



## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Triple Level Sensor/Actuator

| Catalog Number | Width | Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|
| **XB3UKA25** | 0.24 (6.2) | 2.17 (55.0) | 2.15 (54.5) | 2.44 (62.0) |
| **XB3UKF25** | 0.24 (6.2) | 2.85 (72.5) | 2.15 (54.5) | 2.44 (62.0) |
| **XB3UKA25PE** | 0.24 (6.2) | 2.46 (62.5) | 2.76 (70.0) | 3.05 (77.5) |
| **XB3UKF25PE** | 0.24 (6.2) | 3.25 (82.5) | 2.76 (70.0) | 3.05 (77.5) |

Fuse Terminal Blocks

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## Fuse Terminal Blocks

### Product Description

The UT Series fuse terminal blocks come in two varieties—lever type and cap. Each performs two functions. They act as a fuse carrier for most common North American and European fuses and they allow for potential distribution with the double bridge shaft. The terminal blocks therefore allow bypass routing of two separate potentials next to each other. This has the advantage of a time-saving potential infeed and a correct, functional configuration of the terminal strip. For signaling a triggered fuse, fuse terminal blocks with light indicators are available (for both AC and DC voltage).

### Product Selection

XBUT4FBE

#### Screw Connection Fuse Terminal Blocks, for 5 x 20 mm Fuse

| Terminal Width | Maximum Wire Size | IEC 60 947-7-3 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Fuse Terminal Blocks** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | ①/6.3/26–10 | 600/6.3/26–10 | Black | 50 | **XBUT4FBE** |
| **Fuse Terminal Blocks with LED 12–30V, 1–2.5 mA** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | ①/6.3/26–10 | 600/6.3/26–10 | Black | 50 | **XBUT4FBEL24** |
| **Fuse Terminal Blocks with LED 30–60V, 0.8–2.0 mA** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | ①/6.3/26–10 | 600/6.3/26–10 | Black | 50 | **XBUT4FBEL60** |
| **Fuse Terminal Blocks with LED 110–250V, 0.5–2.5 mA** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | ①/6.3/26–10 | 600/6.3/26–10 | Black | 50 | **XBUT4FBEL250** |

***Note***

① As disconnect terminal block 400V, as fuse terminal block 250V.

XBUT6FBN

## Screw Connection Fuse Terminal Blocks for 6.3 x 32 mm (1/4 in x 1–1/4 in) Fuse

| Terminal Width | Maximum Wire Size | IEC 60 947-7-3 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Fuse Terminal Blocks** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | ①/10/24–8 | 400/10/24–8 | Black | 50 | **XBUT6FBN** |
| **Fuse Terminal Blocks with LED 12–30V, 1–2.5 mA** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | ①/10/24–8 | 400/10/24–8 | Black | 50 | **XBUT6FBNL24** |
| **Fuse Terminal Blocks with LED 30–60V, 0.8–2.0 mA** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | ①/10/24–8 | 400/10/24–8 | Black | 50 | **XBUT6FBNL60** |
| **Fuse Terminal Blocks with LED 110–250V, 0.5–2.5 mA** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | ①/10/24–8 | 400/10/24–8 | Black | 50 | **XBUT6FBNL250** |

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XBUK10FBCE

## Screw Connection Fuse Terminal Blocks, XBUK10FBC

| Terminal Width | Maximum Wire Size | IEC 60 947-7-3 with Fuse in V/A/AWG | IEC 60 947-7-3 as Disconnected t.b. in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Fuse Terminal Blocks for 5 x 20 mm fuse** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCE** |
| **Fuse Terminal Blocks for 6.3 x 32 mm (1/4 in x 1–1/4 in) fuse** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCN** |
| **Fuse Terminal Blocks with Light Indicator 15–30V, 1–2.5 mA, 5 x 20 mm** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCEL24** |
| **Fuse Terminal Blocks with Light Indicator 15–30V, 1–2.5 mA, 6.3 x 32 mm** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCNL24** |
| **Fuse Terminal Blocks with Light Indicator 110–250V, 0.5–1.1A, 5 x 20 mm** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCEL250** |
| **Fuse Terminal Blocks with Light Indicator 110–250V, 0.5–1.1A, 6.3 x 32 mm** | | | | | | | |
| 12 mm | 6 AWG/16 mm$^2$ | ①/①/20–4 | 800/10/20–6 | 300/20/22–6 | Black | 50 | **XBUK10FBCNL250** |

## Cartridge Fuse Inserts 5 x 20 mm Based on DIN EN 60 947-7-3: 2003-7

| Terminal Blocks | U (V) | Overload Protection | | Short-Circuit Protection Only | | |
|---|---|---|---|---|---|---|
| | | Individual | Interconnected | Individual | Interconnected | $I_{max.}$ (A) |
| **XBUT4FBE** | 250 | 1.6W | 1.6W | 4W | 2.5W | 6.3 |

***Notes***

Max. power dissipation at 73.4°F (23°C) based on DIN EN 60 947-7-3: 2003-7.

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified above is not exceeded. Details can be obtained from the fuse suppliers.

If the fuse is defective, the downstream circuit is not off load.

① As disconnect terminal block 500V, as fuse terminal block 400V.

## Accessories

### Screw Connection Fuse Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBUT4FBE Catalog Number | XBUT6FBN Catalog Number | XBUK10FBCE Catalog Number |
|---|---|---|---|---|---|---|
| End cover | — | — | — | ① | ① | — |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS26** | **XBAFBS28** | — |
| | | 3 | 50 | **XBAFBS36** | **XBAFBS38** | — |
| | | 5 | 50 | **XBAFBS56** | **XBAFBS58** | — |
| | | 10 | 10 | **XBAFBS106** | **XBAFBS108** | — |
| | | 50 | 10 | **XBAFBS506** | — | — |
| Blank marker strip center labeling (strip of 10) | White | — | — | **XBMZB5** ② | **XBMZB6** ② | — |
| Blank marker strip external labeling (strip of 10) | White | — | — | **XBMZB6** ② | **XBMZB8** ② | — |
| Fixed bridge | — | 2 | 10 | — | — | **XBAFBI212** |
| Screw heads with insulating collar | — | 10 | 10 | — | — | **XBAFBI1012** |
| Blank marker strip (strip of 10) | White | — | 10 | — | — | **XBMZB6** ② |

## Technical Data and Specifications

### Screw Connection Fuse Terminal Blocks

| Description | XBUT4FBE | XBUT4FBN | XBUK10FBCE |
|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | |
| Fuse type/dimensions in (mm) | — | — | G/5 x 20/5 x 25/6.3 x 32 |
| Maximum cross section with insertion bridge solid/stranded in $mm^2$ | 6.3/6 | 10/10 | 10/10 |
| Rated surge voltage in kV/contamination class | 4/3 | 4/3 | 4/3 |
| Surge voltage category/insulating material group | III/II | III/II | III/I |
| **Connection Capacity** | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–4/0.25–4 | 0.25–6/0.25–6 | 0.5–10/0.5–10 |
| **Multi-Conductor Connection** (same cross-section) | | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | — | 0.5–4/0.5–4 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | — | 0.5–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–2.5 | 0.5–4 | 0.5–10 |
| Stripping length in inches (mm) | 0.35 (9) | 0.39 (10) | 0.43 (11) |
| Thread | M3 | M4 | M4 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 13.3–15.9 (1.5–1.8) | 13.3–15.9 (1.5–1.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Fuse Terminal Blocks

| Catalog Number | Width | Length | Height for— 35 x 7.5 in | 35 x 15 in | 32 in |
|---|---|---|---|---|---|
| **XBUT4FBE** | 0.24 (6.2) | 2.24 (56.8) | 2.87 (73.0) | 3.17 (80.5) | — |
| **XBUT4FBN** | 0.32 (8.2) | 2.24 (56.8) | 2.87 (73.0) | 3.17 (80.5) | — |
| **XBUK10FBCE** | 0.47 (12.0) | 2.44 (62.0) | 2.32 (59.0) | 2.62 (66.5) | 2.52 (64.0) |

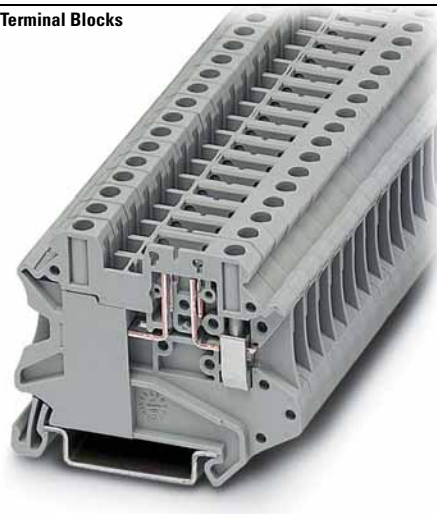
***Notes***

① XBUT4FBE and XBUT6FBN have an enclosed design. The use of an end cover is not required.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Disconnect and Component Terminal Blocks



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## Disconnect and Component Terminal Blocks

### Product Description

The ***XB*** Series includes application specific terminal blocks like the XBUT4TG disconnect block that accommodates disconnect component and fuse terminal blocks. It can also be bridged with standard terminal blocks via the double bridge shaft. The component plug XBPCO serves to accommodate different components such as resistors or capacitors.

5 x 20 mm fuses can be inserted into the fuse plug XBPFU, also available with light indication. The XBUT4MT knife disconnect terminal block features a compact design and a high current carrying capacity of 16A. Versions with test socket screws provide a test option for 2.3 mm diameter test plugs on both sides of the disconnect point.

## Product Selection

### Screw Connection Disconnect and Component Terminal Blocks

**XBUT4TG Disconnect**

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings for Disconnect in V/A/AWG | UL-cUL Ratings for Disconnect with Test Sockets in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Screw Connection Disconnect** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Gray | 50 | **XBUT4TG** |
| **Screw Connection Disconnect with Test Sockets** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Gray | 50 | **XBUT4TGP** |
| **Component Plug** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Gray | 10 | **XBPCO** |
| **Fuse Plug** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFU** |
| **Fuse Plug with Light Indicator for 12–30V, 1–2.5 mA** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFUL24** |
| **Fuse Plug with Light Indicator for 110–250V, 0.5–2.5 mA** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFUL250** |
| **Screw Connection Disconnect Knife Disconnect** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Gray | 50 | **XBUT4MT** |
| **Screw Connection Disconnect Knife Disconnect with Test Sockets** | | | | | | | |
| 6.2 mm | 10 AWG/4 $mm^2$ | 500/16/26–10 | 600/16/26–10 | 300/16/26–10 | Gray | 50 | **XBUT4MTP** |
| **Screw Connection Terminal Blocks with Integrated Diodes** | | | | | | | |
| 6.2 mm | 12 AWG/4 $mm^2$ | 500/32/24–10 | 600/30/26–10 | — | Gray | 50 | **XBUKK4DIO** |

### Screw Connection Thermoelectric Voltage Terminal Blocks

**XBTKT25 Thermal Electric Voltage**

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Copper/Constantan (CU/CUNI44)** | | | | | | |
| 10.4 mm | 12 AWG/2.5 $mm^2$ | 400/—/24–12 | 300/10/28–12 | Gray | 50 | **XBTKT25 (Type T)** |
| **Iron/Constantan (FE/CUNI44)** | | | | | | |
| 10.4 mm | 12 AWG/2.5 $mm^2$ | 400/—/24–12 | 300/10/28–12 | Gray | 50 | **XBTKJ25 (Type J)** |
| **Nickel-Chrome/Constantan (NICR/CUNI44)** | | | | | | |
| 10.4 mm | 12 AWG/2.5 $mm^2$ | 400/—/24–12 | 300/10/28–12 | Gray | 50 | **XBTKE25 (Type E)** |
| **Nickel-Chrome/Nickel (NICRNI)** | | | | | | |
| 10.4 mm | 12 AWG/2.5 $mm^2$ | 400/—/24–12 | 300/10/28–12 | Gray | 50 | **XBTKK25 (Type K)** |
| **Copper/Copper Nickel (E-CU/A-CU)** | | | | | | |
| 10.4 mm | 12 AWG/2.5 $mm^2$ | 400/—/24–12 | 300/10/28–12 | Gray | 50 | **XBTKR25 (Type R)** |

## Accessories

### Screw Connection Disconnect and Component Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBUT4TG Catalog Number | XBUT4MT Catalog Number | XBUKK4DI0 Catalog Number | XBTKT25 Catalog Number |
|---|---|---|---|---|---|---|---|
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS26** | **XBAFBS26** | — | — |
| | | 3 | 50 | **XBAFBS36** | **XBAFBS36** | — | — |
| | | 5 | 50 | **XBAFBS56** | **XBAFBS56** | — | — |
| | | 10 | 10 | **XBAFBS106** | **XBAFBS106** | — | — |
| | | 50 | 10 | **XBAFBS506** | **XBAFBS506** | — | — |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | — | — |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | — | — |
| Modular test plug | — | — | 10 | **XBATSDPPS6** | **XBATSDPPS6** | — | — |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB6** ② | **XBMZB6** ② | **XBMZB6** ② | **XBMZB10** ② |
| End cover | Gray | — | 10 | — | — | **XBACUKK35** | **XBACTK4** |
| Spacer cover | Gray | — | 10 | — | — | **XBADGUKK35** | — |
| Spacer plate | — | — | 10 | — | — | **XBADPUKK35** | — |
| Partition plate | — | — | — | — | — | — | **XBATTK4** |
| Fixed bridge | — | 10 | 10 | — | — | **XBAFBI106** | — |

## Technical Data and Specifications

### Screw Connection Disconnect and Component Terminal Blocks

| Description | XBUT4TG | XBUT4MT | XBUKK4DI0 | XBTK |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 16/6 | 16/6 | 32/4 | — |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 | — |
| Surge voltage category/insulating material group | III/I | III/I | III/I | — |
| **Connection Capacity** | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–4/0.25–4 | 0.25–4/0.25–4 | 0.25–4/0.25–2.5 | — |
| **Multi-Conductor Connection** (same cross-section) | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.2–1.5/0.2–1.5 | — |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | — |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–2.5 | 0.5–2.5 | 0.5–1.5 | — |
| Stripping length in inches (mm) | 0.35 (9) | 0.35 (9) | 0.31 (8) | 0.28 (7) |
| Thread | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Disconnect and Component Terminal Blocks

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in | 32 in |
|---|---|---|---|---|---|---|
| **XBUT4TG** | 0.24 (6.2) | 2.24 (56.8) | — | 1.87 (47.5) | 2.17 (55.0) | — |
| **XBUT4MT** | 0.24 (6.2) | 2.24 (56.8) | — | 1.87 (47.5) | 2.17 (55.0) | — |
| **XBUKK4DI0** | 0.24 (6.2) | 2.20 (56.0) | 0.10 (2.5) | 2.44 (62.0) | 2.74 (69.5) | 2.64 (67.0) |
| **XBTK** | 0.20 (5.2) | 1.81 (46.0) | 0.04 (1.0) | 1.57 (40.0) | 1.87 (47.5) | 1.77 (45.0) |

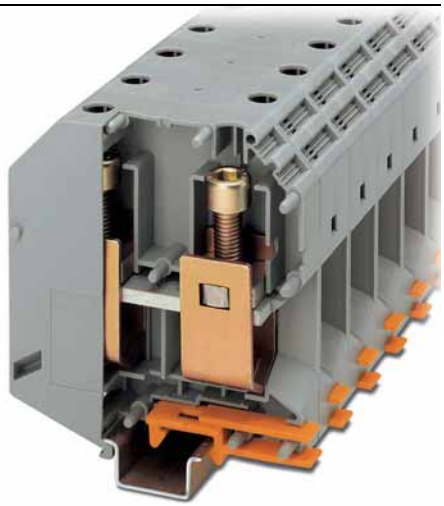
***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

High Current Blocks



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## High Current Blocks

### Product Description

Eaton's XBUK high current terminal blocks offer a reliable connection via the superior construction that includes three-point centering of the wire in the prism-shaped sleeve base, a fluted contact surface for low contact resistance, and screws secured with spring-loaded elements. The terminal blocks have an enclosed housing made from polyamide 6.6. Green-yellow ground terminal blocks are also available.

### Product Selection

XBUK150

#### Screw Connection High Current Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 20.0 mm | 1/0/50 mm$^2$ | 1000/150/1/0 | 750/135/1/0 | 600/150/1/0 | Gray | 10 | **XBUK50** |
| | | | | | Blue | 10 | **XBUK50BU** |
| 31.0 mm | 300 kcmil/150 mm$^2$ | 1000/309/2–300 | 726/265/2–300 | 600/285/ 2 AWG–300 kcmil | Gray | 10 | **XBUK150** |

XBUK95PE

#### Screw Connection High Current Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 25.0 mm | 000 AWG/95 mm$^2$ | —/232/4–000 | —/—/4–000 | —/—/2–4/0 | Green/Yellow | 10 | **XBUK95PE** |

## Accessories

### Screw Connection High Current Blocks

| Description | Color | Number of Positions | Standard Pack | XBUK50 Catalog Number | XBUK150 Catalog Number | XBUK95PE Catalog Number |
|---|---|---|---|---|---|---|
| Fixed bridge, screw heads with insulating color | — | 2 | 10 | **XBAFBI220** | — | — |
| Insertion bridge | — | 2 | 10 | — | **XBAEB231** | — |
| Blank marker strip external labeling (strip of 10) | White | — | 10 | **XBMZB10** ① | **XBMZB10** ① | **XBMZB10** ① |

## Technical Data and Specifications

### Screw Connection High Current Blocks

| Description | XBUK50 | XBUK150 | XBUK95PE |
|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | |
| Maximum load current in A/cross-section in $mm^2$ | 150/50 | 309/150 | 232/95 |
| Maximum cross-section with insertion bridge solid/stranded in $mm^2$ | —/— | 150/120 | —/— |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I |
| **Connection Capacity** | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 25–50/25–50 | 50–150/50–150 | 35–95/35–95 |
| **Multi-Conductor Connection** (same cross-section) | | | |
| Solid/stranded in $mm^2$ | 10–16/10–16 | 25–50/35–50 | 25–35/25–35 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 10–16 | 25–50 | 16–35 |
| Stripping length in inches (mm) | 0.94 (24) | 1.57 (40) | 1.18 (30) |
| Thread | M6 | M10 | M8 |
| Terminal point—thread/torque in in-lb (Nm) | 53–71 (6–8) | 221–267 (25–30) | 133–177 (15–20) |
| Fastening—thread/torque in in-lb (Nm) | 53–71 (6–8) | 221–267 (25–30) | 133–177 (15–20) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection High Current Blocks

| Catalog Number | Width | Length | Height for— 35 x 7.5 in | 35 x 15 in | 32 in |
|---|---|---|---|---|---|
| **XBUK50** | 0.79 (20.0) | 2.78 (70.5) | 3.29 (83.5) | 3.21 (81.5) | — |
| **XBUK150** | 1.22 (31.0) | 3.94 (100.0) | 4.67 (118.5) | 4.57 (116.0) | — |
| **XBUK95PE** | 0.98 (25.0) | 3.27 (83.0) | — | 3.90 (99.0) | 3.80 (96.5) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Mini Screw Connection Terminal Blocks

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## Mini Screw Connection

### Product Description

The ***XB*** miniature terminal blocks have a connection cross-section from 2 mm$^2$ through 4 mm$^2$ and mount on 15 mm DIN rail. There is an opening for bridging with a fixed bridge in the center of the terminal blocks. These miniature terminal blocks also offer the same accessories that you would find with the larger blocks—including marking tags, end covers, end stop and ground blocks.

### Product Selection

XBMUK4

#### Mini Screw Connection Terminal Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 400/32/24–12 | 275/28/21/24–12 | 600/20/28–12 | Gray | 50 | **XBMUK25** |
| | | | | | Blue | 50 | **XBMUK25BU** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/41/24–10 | —/—/— | 600/10/26–10 | Gray | 50 | **XBMUK4** |
| | | | | | Blue | 50 | **XBMUK4BU** |

XBMUK25PE

#### Mini Screw Connection Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-2 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 mm$^2$ | —/—/24–12 | —/—/30–12 | Green/ Yellow | 50 | **XBMUK25PE** |
| 6.2 mm | 10 AWG/2.4 mm$^2$ | —/—/24–10 | —/—/26–14 | Green/ Yellow | 50 | **XBMUK4PE** |

## Accessories

### Mini Screw Connection Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBMUK25 Catalog Number | XBMUK4 Catalog Number | XBMUK25PE Catalog Number | XBMUK4PE Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACMU254** | **XBACMU254** | — | — |
| | Blue | — | 50 | **XBACMU254B** | **XBACMU254B** | — | — |
| Partition plate | — | — | 50 | **XBATMU254** | **XBATMU254** | — | — |
| Fixed bridge | — | 10 | 10 | **XBAFBR105N** | — | — | — |
| Separating plate | — | — | 10 | **XBATMPKK15** | **XBATMPKK15** | — | — |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZB5** ① | **XBMZB6** ① | **XBMZB5** ① | **XBMZB6** ① |

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## Technical Data and Specifications

### Mini Spring Cage Terminal/Ground Blocks

| Description | XBMUK25 | XBMUK4 | XBMUK25PE | XBMUK4PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 32/4 | 41/6 | — | — |
| Maximum cross-section with insertion bridge (solid/stranded) | 2.5/2.5 | 4/4 | — | — |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Cross-Section** | | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–2.5 | 0.25–1.5 | 0.25–2.5 |
| Stranded with ferrule without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| **Multi-Conductor Connection** (same cross-section) | | | | |
| Solid/stranded in $mm^2$ | 0.2–1.0/0.2–1.5 | 0.2–1.5/0.2–1.5 | 0.2–1.0/0.2–1.5 | 0.2–1.5/0.2–1.5 |
| Stranded with ferrule without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.5–1.0 | 0.5–2.5 | 0.5–1.5 | 0.5–2.5 |
| Stripping length in Inches (mm) | 0.31 (8) | 0.31 (8) | 0.31 (8) | 0.31 (8) |
| Thread | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 4.4–5.3 (0.5–0.6) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Mini Spring Cage Terminal/Ground Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 15 in |
|---|---|---|---|---|
| **XBMUK25** | 0.20 (5.2) | 1.10 (28.0) | 0.04 (1.0) | 1.26 (32.0) |
| **XBMUK4** | 0.24 (6.2) | 1.10 (28.0) | 0.04 (1.0) | 1.26 (32.0) |
| **XBMUK25PE** | 0.20 (5.2) | 1.10 (28.0) | — | 1.24 (31.5) |
| **XBMUK4PE** | 0.24 (6.2) | 1.10 (28.0) | — | 1.26 (32.0) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Spring Cage Connection

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Drawings Online

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## Spring Cage Terminal Blocks Overview

### Product Description

The XBPT Series incorporates a spring cage connection system proven in applications that are sensitive to vibration. The spring mechanism always exerts the same constant force on the wire, resulting in a vibration-proof, gas-tight connection, independent of the user. The space-saving front connection, with the wire and screwdriver coming in parallel from the same direction, allows for simple wiring in places where there is little space available.

### Application Description

The connection point is opened with a standard screwdriver. After the wire has been inserted into the wire guide of the terminal block, the screwdriver is removed and the wire automatically makes contact.

### Features

- Vibration-resistance
- Global acceptance
- Multi-conductor connections
- Flexible Plug-in bridge system
- Large surface area for marking
- Standardized testing system

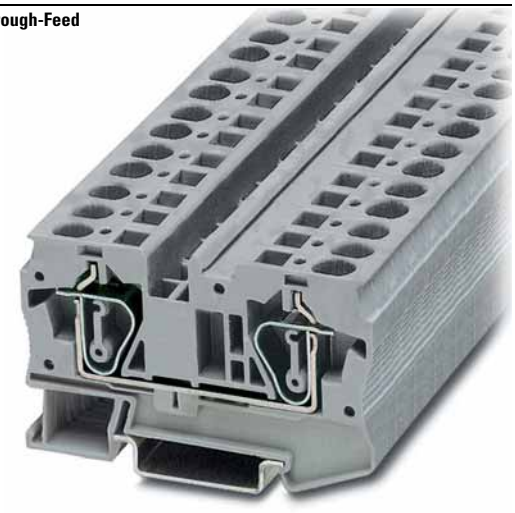
### Standards and Certifications

- UL recognized—File No. E67464
- CE approved
- LVD ①:
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1

***Note***

① Not all standards apply to all terminal blocks. Contact Eaton for details.

Single Level—Through-Feed



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## Single Level—Through-Feed

### Product Description

The space-saving design and front entry design make the XBPT Series ideal for control systems where there is little space. Even so, they offer maximum connection space, resulting in fast wiring of stranded and solid conductors with or without ferrules.

XBPT terminal blocks are available with cross-sections from 2.5 $mm^2$ up to 35 $mm^2$. The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks.

## Product Selection

**XBPT6**

### Spring Cage Connection Single Level—Through-Feed

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 800/31/28–12 | 550/25/21/24–12 | 600/20/26–12 | Gray | 50 | **XBPT25** |
| | | | | | Blue | 50 | **XBPT25BU** |
| | | | | | White | 50 | **XBPT25WH** |
| | | | | | Red | 50 | **XBPT25RD** |
| | | | | | Black | 50 | **XBPT25BK** |
| 6.2 mm | 10 AWG/4 $mm^2$ | 800/40/28–10 | 550/34/30/24–10 | 600/30/20–10 | Gray | 50 | **XBPT4** |
| | | | | | Blue | 50 | **XBPT4BU** |
| 8.2 mm | 8 AWG/6 $mm^2$ | 800/52/24–8 | 550/45/36/20–8 | 600/50/20–8 | Gray | 50 | **XBPT6** |
| | | | | | Blue | 50 | **XBPT6BU** |
| 10.2 mm | 6 AWG/10 $mm^2$ | 800/65/24–6 | 550/50/63/16–6 | 600/65/16–6 | Gray | 50 | **XBPT10** |
| | | | | | Blue | 50 | **XBPT10BU** |
| 12 mm | 4 AWG/16 $mm^2$ | 800/90/24–4 | 550/65/82/16–4 | 600/50/16–4 | Gray | 50 | **XBPT16** |
| | | | | | Blue | 50 | **XBPT16BU** |
| 16 mm | 2 AWG/35 $mm^2$ | 800/125/14–2 | 750/108/14–2 | 600/115/14–2 | Gray | 10 | **XBPT35** |
| | | | | | Blue | 10 | **XBPT35BU** |

## Accessories

### Spring Cage Connection Single Level—Through-Feed, XBPT25, XBPT4 and XBPT6

| Description | Color | Number of Positions | Standard Pack | XBPT25 Catalog Number | XBPT4 Catalog Number | XBPT6 Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25** | **XBACPT4** | **XBACPT6** |
| Partition plate | Gray | — | 50 | **XBATPT4** | **XBATPT4** | **XBATPT6** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS28** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | — |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | — |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | — |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | — |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS8** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZF8** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB8** ② |

### Spring Cage Connection Single Level—Through-Feed, XBPT10, XBPT16 and XBPT35

| Description | Color | Number of Positions | Standard Pack | XBPT10 Catalog Number | XBPT16 Catalog Number | XBPT35 Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT10** | **XBACPT16** | ③ |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS210** | **XBAFBS212** ① | **XBAFBS216** ② |
| 2.3 mm diameter test plug | — | — | 10 | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Blank marker strip external labeling | White | — | 10 | **XBMZF10** ② | **XBMZBF12** ② | **XBMZBF15** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB10** ② | **XBMZB12** ② | **XBMZB15** ② |

***Notes***

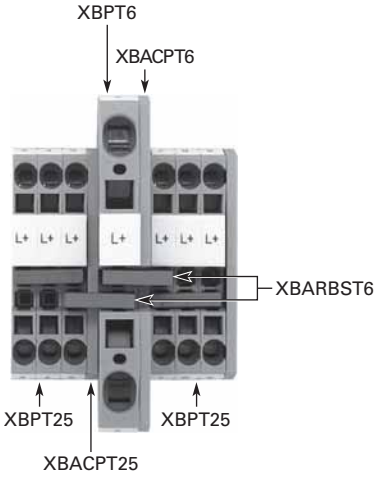
① For ordering information, see **Page V7-T8-103**.

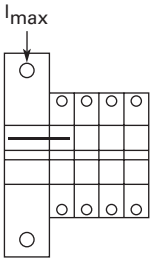
② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

③ XBPT35 has an enclosed design. The use of an end cover is not required.

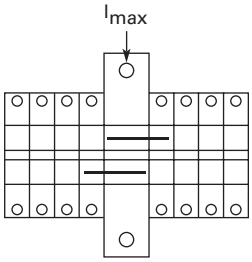
For additional accessories, see **Page V7-T8-90**.

## XBPT with Reducing Bridge




One-Sided Input




Central Input

## Step-Down Bridge with Standard Feed-Through Terminal Blocks

| Input Terminal Blocks | Cross-Section | Pick-Off Terminal Blocks | Cross-Section AWG ($mm^2$) | One-Sided Input $I_{max}$ | Central Input $I_{max}$ | Bridge Catalog Number |
|---|---|---|---|---|---|---|
| XBPT6 | 8 AWG (6 $mm^2$) | XBPT25 | 12 (2.5) | 40 | 56 | **XBARBST6** |
| | | XBPT4 | 10 (4) | 45 | 56 | **XBARBST6** |
| | | XBQT15 | 14 (1.5) | 35 | 56 | **XBARBST6** |
| | | XBQT25 | 12 (2.5) | 40 | 56 | **XBARBST6** |
| XBPT10 | 6 AWG (10 $mm^2$) | XBPT25 | 12 (2.5) | 40 | 65 | **XBARBST10** |
| | | XBPT4 | 10 (4) | 45 | 65 | **XBARBST10** |
| | | XBQT15 | 14 (1.5) | 35 | 65 | **XBARBST10** |
| | | XBQT25 | 12 (2.5) | 40 | 65 | **XBARBST10** |
| XBPT16 | 4 AWG (16 $mm^2$) | XBPT25 | 12 (2.5) | 40 | 80 | **XBARBST16** |
| | | XBPT4 | 10 (4) | 45 | 90 | **XBARBST16** |
| | | XBQT15 | 14 (1.5) | 35 | 70 | **XBARBST16** |
| | | XBQT25 | 12 (2.5) | 40 | 80 | **XBARBST16** |

## Technical Data and Specifications

### Spring Cage Connection Single Level—Through-Feed

| Description | XBPT25 | XBPT4 | XBPT6 | XBPT10 | XBPT16 | XBPT35 |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 31/4 | 40/6 | 52/10 | 65/16 | 90/25 | 125/35 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–6 | 0.25–10 | 0.25–16 | 2.5–35 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–6 | 0.25–10 | 0.25–16 | 2.5–35 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5–1 | 0.5–1.5 | 1.5–2.5 | 1.5–4 | 2.5–10 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.47 (12) | 0.71 (18) | 0.71 (18) | 0.98 (25) |

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## Dimensions

Approximate Dimensions in Inches (mm)

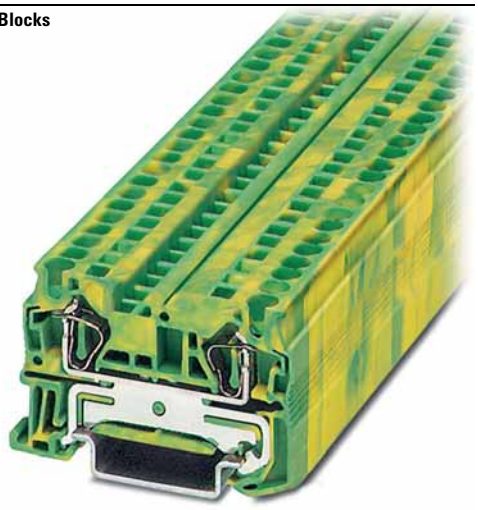
### Spring Cage Connection Single Level—Through-Feed

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25** | 0.20 (5.2) | 1.91 (48.5) | 0.09 (2.2) | 1.45 (36.8) | 1.73 (44.0) |
| **XBPT4** | 0.24 (6.2) | 2.20 (56.0) | 0.09 (2.2) | 1.45 (36.8) | 1.73 (44.0) |
| **XBPT6** | 0.32 (8.2) | 2.74 (69.5) | 0.09 (2.2) | 1.71 (43.5) | 2.01 (51.0) |
| **XBPT10** | 0.39 (10.0) | 2.81 (71.5) | 0.09 (2.2) | 1.99 (50.5) | 2.30 (58.5) |
| **XBPT16** | 0.47 (12.0) | 3.15 (80.0) | 0.09 (2.2) | 2.01 (51.0) | 2.30 (58.5) |
| **XBPT35** | 0.63 (16.0) | 3.94 (100.0) | ① | 2.32 (59.0) | 2.62 (66.5) |

***Note***

① XBPT35 has an enclosed design. The use of an end cover is not required.

Single Level—Ground Blocks



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## Single Level—Ground Blocks

### Product Description

The XBPT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBPT4PE

**Spring Cage Connection Single Level—Ground Blocks**

| Terminal Width | Maximum Wire Size | IEC 60 947-7-2 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/28–12 | —/—/24–12 | —/—/26–12 | Green/Yellow | 50 | **XBPT25PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/28–10 | —/—/24–10 | —/—/20–10 | Green/Yellow | 50 | **XBPT4PE** |
| 8.2 mm | 8 AWG/6 $mm^2$ | —/—/24–8 | —/—/20–8 | —/—/20–8 | Green/Yellow | 50 | **XBPT6PE** |
| 10.2 mm | 6 AWG/10 $mm^2$ | —/65/24–6 | —/—/16–6 | —/—/16–6 | Green/Yellow | 50 | **XBPT10PE** |
| 12 mm | 4 AWG/16 $mm^2$ | —/90/24–4 | —/—/16–4 | —/—/16–4 | Green/Yellow | 50 | **XBPT16PE** |
| 16 mm | 2 AWG/35 $mm^2$ | —/125/14–2 | —/—/14–2 | —/—/14–2 | Green/Yellow | 10 | **XBPT35PE** |

## Accessories

### Spring Cage Connection Single Level Ground Blocks, XBPT25PE, XBPT4PE and XBPT6PE

| Description | Color | Number of Positions | Standard Pack | XBPT25PE Catalog Number | XBPT4PE Catalog Number | XBPT6PE Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25** | **XBACPT4** | **XBACPT6** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ① | **XBMZBF6** ① | **XBMZBF8** ① |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ① | **XBMZB6** ① | **XBMZB8** ① |

### Spring Cage Connection Single Level Ground Blocks, XBPT10PE, XBPT16PE and XBPT35PE

| Description | Color | Number of Positions | Standard Pack | XBPT10PE Catalog Number | XBPT16PE Catalog Number | XBPT35PE Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT10** | **XBACPT16** | ② |
| Plug-in bridge—for cross connections in the bridge shaft | — | 2 | 10 | **XBAFBS210** | **XBAFBS212** | **XBAFBS216** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF10** ① | **XBMZBF12** ① | **XBMZBF15** ① |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB10** ① | **XBMZB12** ① | **XBMZB15** ① |

## Technical Data and Specifications

### Spring Cage Connection Single Level Ground Blocks

| Description | XBPT25PE | XBPT4PE | XBPT6PE | XBPT10PE | XBPT16PE | XBPT35PE |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | — | — | — | 65/16 | 90/25 | 125/35 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–6 | 0.25–10 | 0.25–16 | 2.5–35 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–6 | 0.25–10 | 0.25–16 | 2.5–35 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5–1 | 0.5–1.5 | 1.5–2.5 | 1.5–4 | 2.5–10 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.47 (12) | 0.71 (18) | 0.71 (18) | 0.98 (25) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Single Level Ground Blocks

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25PE** | 0.20 (5.2) | 1.91 (48.5) | 0.09 (2.2) | 1.45 (36.8) | 1.73 (44.0) |
| **XBPT4PE** | 0.24 (6.2) | 2.20 (56.0) | 0.09 (2.2) | 1.45 (36.8) | 1.73 (44.0) |
| **XBPT6PE** | 0.32 (8.2) | 2.74 (69.5) | 0.09 (2.2) | 1.71 (43.5) | 2.01 (51.0) |
| **XBPT10PE** | 0.39 (10.0) | 2.81 (71.5) | 0.09 (2.2) | 1.99 (50.5) | 2.28 (58.0) |
| **XBPT16PE** | 0.47 (12.0) | 3.15 (80.0) | 0.09 (2.2) | 2.01 (51.0) | 2.30 (58.5) |
| **XBPT35PE** | 0.63 (16.0) | 3.94 (100.0) | — | 2.32 (59.0) | 2.62 (66.5) |

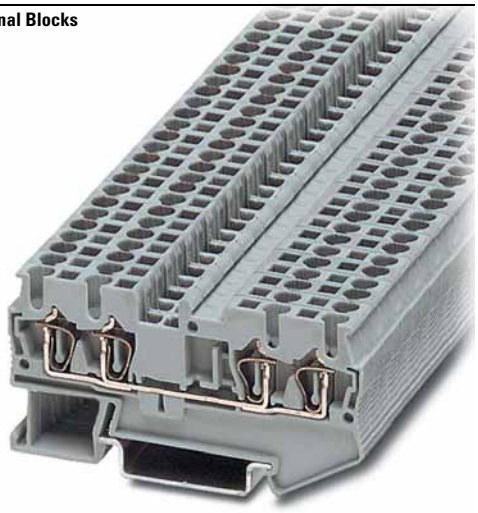
***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

② XBPT35PE has an enclosed design. The use of an end cover is not required.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor Terminal Blocks



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## Multi-Conductor Terminal Blocks

### Product Description

The multi-conductor terminal blocks offer a space-saving alternative to standard feed-through terminal blocks, allowing for high-density wiring. Often, three connections have to be led to one terminal block. The XBPT…D12 terminal block accomplishes this without any additional terminal blocks or bridging required. The XBPT…D22 terminal blocks allow four wires to be connected to one potential—and can therefore be used as compact power distributors. There is also a version, XBPT25D22U or XBPT4D22U, with an interrupted bus bar in the terminal center. This makes two feed-through terminal blocks available in one level. One side of this block can be bridged using the standard Plug-in bridges. Double marker carriers are available for clear marking of the feed-through levels.

### Product Selection

XBPT4D12

#### Spring Cage Connection Multi-Conductor Terminal Blocks, Three-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 800/28/28–12 | 550/25/21/24–12 | 600/20/26–12 | Gray | 50 | **XBPT25D12** |
| | | | | | Blue | 50 | **XBPT25D12BU** |
| 6.2 mm | 10 AWG/4 $mm^2$ | 800/40/28–10 | 550/34/29/24–10 | 600/30/20–10 | Gray | 50 | **XBPT4D12** |
| | | | | | Blue | 50 | **XBPT4D12BU** |

XBPT25D22

## Spring Cage Connection Multi-Conductor Terminal Blocks, Four-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Spring Cage Multi-Conductor** | | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 800/28/28–12 | 550/24/21/24–12 | 600/20/26–12 | Gray | 50 | **XBPT25D22** |
| | | | | | Blue | 50 | **XBPT25D22BU** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 800/40/28–10 | 550/34/25/24–10 | 600/30/20–10 | Gray | 50 | **XBPT4D22** |
| | | | | | Blue | 50 | **XBPT4D22BU** |
| **Spring Cage Multi-Conductor with Interrupted Bus Bar** | | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 800/28/28–12 | 550/24/21/24–12 | 600/20/26–12 | Blue | 50 | **XBPT25D22U** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 800/40/28–10 | 550/34/25/24–10 | 600/30/20–10 | Blue | 50 | **XBPT4D22U** |

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## Accessories

### Spring Cage Connection Multi-Conductor Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT25D12 Catalog Number | XBPT4D12 Catalog Number | XBPT25D22 Catalog Number | XBPT4D22 Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25D12** | **XBACPT4D12** | **XBACPT25D22** | **XBACPT4D22** |
| End cover segment | Gray | — | 10 | **XBASPT25** | **XBASPT4** | **XBASPT25** | **XBASPT4** |
| Partition plate | — | — | 50 | **XBATPTD12** | **XBATPTD12** | **XBATPTD22** | **XBATPTD22** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF5** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② | **XBMZB6** ② |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### Spring Cage Connection Multi-Conductor Terminal Blocks

| Description | XBPT25D12 | XBPT4D12 | XBPT25D22 | XBPT4D22 |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 28/4 | 40/6 | 28/4 | 40/6 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5–1 | 0.5 | 0.5–1 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.39 (10) | 0.39 (10) |

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## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Multi-Conductor Terminal Blocks

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25D12** | 0.20 (5.2) | 2.38 (60.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4D12** | 0.24 (6.2) | 2.81 (71.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT25D22** | 0.20 (5.2) | 2.83 (72.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4D22** | 0.24 (6.2) | 3.43 (87.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |

Multi-Conductor Terminal Blocks

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| Fuse Terminal Blocks | **V7-T8-48** |
| Disconnect and Component Terminal Blocks | **V7-T8-51** |
| Hybrid Terminal Blocks | **V7-T8-54** |
| Mini Spring Cage | **V7-T8-56** |


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## Multi-Conductor Ground Blocks

### Product Description

The ground terminal blocks have the same shape and pitch as the standard terminal block, in a green-yellow housing. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBPT25D12PE

#### Spring Cage Connection Multi-Conductor Ground Blocks, Three-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-2 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/28–12 | —/—/24–12 | —/—/26–12 | Green/Yellow | 50 | **XBPT25D12PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/28–10 | —/—/24–10 | —/—/20–10 | Green/Yellow | 50 | **XBPT4D12PE** |

XBPT4D22PE

#### Spring Cage Connection Multi-Conductor Ground Blocks, Four-Wire

| Terminal Width | Maximum Wire Size | IEC 60 947-7-2 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/28–12 | —/—/24–12 | —/—/26–12 | Green/Yellow | 50 | **XBPT25D22PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/28–10 | —/—/24–10 | —/—/20–10 | Green/Yellow | 50 | **XBPT4D22PE** |

## Accessories

### Spring Cage Connection Multi-Conductor Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT25D12PE Catalog Number | XBPT4D12PE Catalog Number | XBPT25D22PE Catalog Number | XBPT4D22PE Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25D12** | **XBACPT4D12** | **XBACPT25D22** | **XBACPT4D22** |
| End cover segment | Gray | — | 10 | **XBASPT25** | **XBASPT4** | **XBASPT25** | **XBASPT4** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ① | **XBMZBF6** ① | **XBMZBF5** ① | **XBMZBF6** ① |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ① | **XBMZB6** ① | **XBMZB5** ① | **XBMZB6** ① |

## Technical Data and Specifications

### Spring Cage Connection Multi-Conductor Ground Blocks

| Description | XBPT25D12PE | XBPT4D12PE | XBPT25D22PE | XBPT4D22PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | — | — | — | — |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5–1 | 0.5 | 0.5–1 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Multi-Conductor Ground Blocks

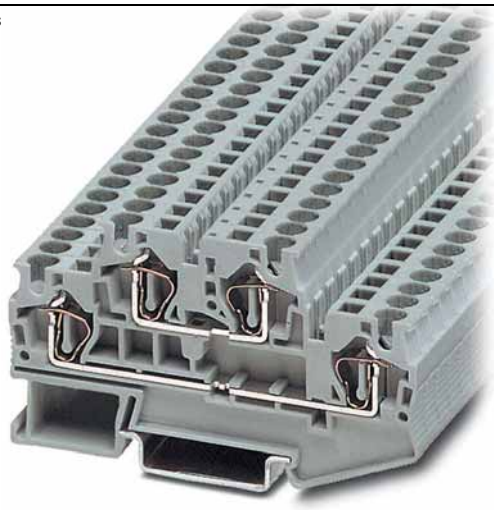
| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25D12PE** | 0.20 (5.2) | 2.38 (60.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4D12PE** | 0.24 (6.2) | 2.81 (71.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT25D22PE** | 0.20 (5.2) | 2.83 (72.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4D22PE** | 0.24 (6.2) | 3.43 (87.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Double Level Blocks



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| Fuse Terminal Blocks | **V7-T8-48** |
| Disconnect and Component Terminal Blocks | **V7-T8-51** |
| Hybrid Terminal Blocks | **V7-T8-54** |
| Mini Spring Cage | **V7-T8-56** |


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## Double Level Blocks

### Product Description

The potentials of the ***XB*** double level terminal blocks routed on two levels reduce space requirements by 50% compared with single level terminal blocks.

The XBPTT blocks can be bridged on both levels with the Plug-in bridge system and labeling options are available for each terminal point, resulting in maximum customization for each application. The XBPTT25PV and XBPTT4PV terminal blocks have two interconnected levels.

Equipotential bonding is marked by an imprint on the housing. These terminal blocks can also be bridged and used to construct compact potential distributor blocks.

### Product Selection

XBPTT4

#### Spring Cage Connection Double Level Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Spring Cage Connection Double Level Blocks** | | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 500/26/28–12 | 420/23/19/24–12 | 600/20/26–12 | Gray | 50 | **XBPTT25** |
| | | | | | Blue | 50 | **XBPTT25BU** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/32/28–10 | 420/32/27/24–10 | 300/30/20–10 | Gray | 50 | **XBPTT4** |
| | | | | | Blue | 50 | **XBPTT4BU** |
| **Spring Cage Connection Double Level Blocks** (terminal block with potential distribution between the levels) | | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 500/26/28–12 | 420/23/19/24–12 | 600/20/26–12 | Gray | 50 | **XBPTT25PV** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/32/28–10 | 420/32/27/24–10 | 300/30/20–10 | Gray | 50 | **XBPTT4PV** |

XBPTT25PE

#### Spring Cage Connection Double Level Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-2 in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 6.2 mm | 10 AWG/4 mm$^2$ | —/—/28–10 | —/—/24–10 | —/—/20–10 | Green/Yellow | 50 | **XBPTT4PE** |

## Accessories

### Spring Cage Connection Double Level Blocks

| Description | Color | Number of Positions | Standard Pack | XBPTT25 Catalog Number | XBPTT4 Catalog Number | XBPTT25PE Catalog Number | XBPTT4PE Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPTT25** | **XBACPTT4** | **XBACPTT25** | **XBACPTT4** |
| Partition plate | — | — | 50 | **XBATPTT4** | **XBATPTT4** | — | — |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | — | — |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | — | — |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZBF5** ① | **XBMZBF6** ① | **XBMZBF5** ① | **XBMZBF6** ① |

## Technical Data and Specifications

### Spring Cage Connection Double Level Blocks

| Description | XBPTT25 | XBPTT4 | XBPTT25PE | XBPTT4PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 26/4 | 32/6 | — | — |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Capacity** | | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–4 | 0.25–2.5 | 0.25–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5–1 | 0.5 | 0.5–1 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Double Level Blocks

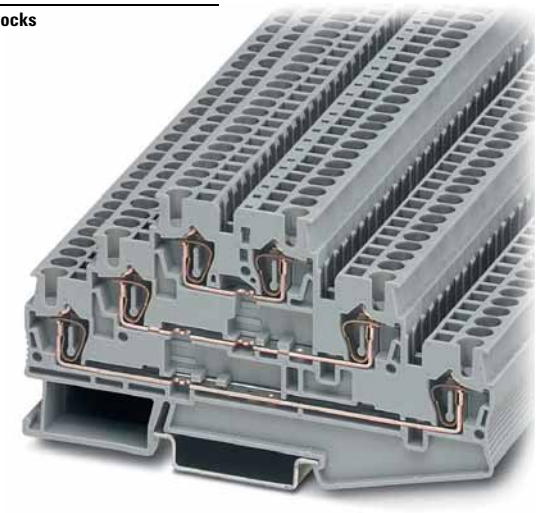
| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPTT25** | 0.20 (5.2) | 2.66 (67.5) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBPTT4** | 0.24 (6.2) | 3.29 (83.5) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBPTT25PE** | 0.20 (5.2) | 2.66 (67.5) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |
| **XBPTT4PE** | 0.24 (6.2) | 3.29 (83.5) | 0.09 (2.2) | 1.87 (47.5) | 2.17 (55.0) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Triple Level Blocks



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## Triple Level Blocks

### Product Description

The spring cage triple level terminal block incorporates three feed-through levels in a 5.2 mm wide housing. This is ideal for high density wiring, especially important when switchgear space is restricted. There is a bridge shaft on each level allowing use of this block as a compact potential distributor or as a sensor terminal.

The XBPTK25PV has all six terminal points interconnected. All the triple level blocks can be labeled on each level.

### Product Selection

XBPTK25

#### Spring Cage Connection Triple Level Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/28/28–12 | 600/20/26–12 | Gray | 50 | **XBPTK25** |
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/28/28–12 | 600/20/26–12 | Gray | 50 | **XBPTK25PV** ① |

***Note***

① Terminal block with potential distribution between the levels.

## Accessories

### Spring Cage Connection Triple Level Blocks

| Description | Color | Number of Positions | Standard Pack | XBPTK25 Catalog Number | XBPTK25PV Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25K** | **XBACPT25K** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS5** |
| Blank marker strip (strip of 10) | White | — | 10 | **XBMZBF5** ① | **XBMZBF5** ① |

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## Technical Data and Specifications

### Spring Cage Connection Triple Level Blocks

| Description | XBPTK25 | XBPTK25PV |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 28/4 | 28/4 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Triple Level Blocks

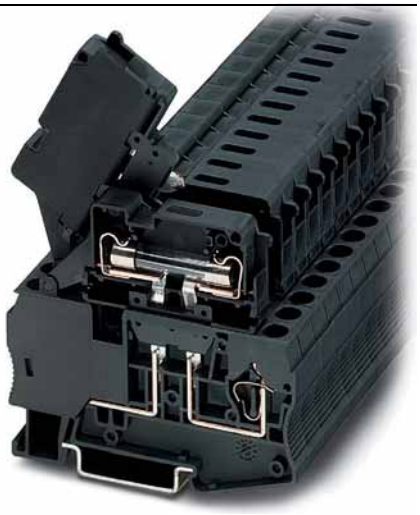
| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPTK25** | 0.20 (5.2) | 3.92 (99.5) | 0.09 (2.2) | 2.28 (58.0) | 2.58 (65.5) |
| **XBPTK25PV** | 0.20 (5.2) | 3.92 (99.5) | 0.09 (2.2) | 2.28 (58.0) | 2.58 (65.5) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

**Fuse Terminal Blocks**



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## Fuse Terminal Blocks

### Product Description

The spring cage fuse terminal blocks act as a fuse carrier for 5 x 20 mm or 6.3 x 32 mm fuses. They also allow for potential distribution with the double bridge shaft. For signaling a triggered fuse, fuse terminal blocks with light indicators are available (for both AC and DC voltage).

### Product Selection

**XBPT4FBE**

#### Spring Cage Connection Fuse Terminal Blocks, for 5 x 20 mm Fuse

| Terminal Width | Maximum Wire Size | IEC 60 947-7-3 with Fuse in V/A/AWG | IEC 60 947-7-3 as Disconnect Terminal Blocks in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Fuse Terminal Blocks** | | | | | | | |
| 6.2 mm | 10 AWG/4 mm² | ①/①/28–10 | 250/6.3/28–10 | 300/6.3/24–10 | Black | 50 | **XBPT4FBE** |
| **Fuse Terminal Blocks with LED 15–30V, 3.5–8.1A** | | | | | | | |
| 6.2 mm | 10 AWG/4 mm² | ①/①/28–10 | 250/6.3/28–10 | 300/6.3/24–10 | Black | 50 | **XBPT4FBEL24** |
| **Fuse Terminal Blocks with LED 30–60V, 0.8–2.0A** | | | | | | | |
| 6.2 mm | 10 AWG/4 mm² | ①/①/28–10 | 250/6.3/28–10 | 300/6.3/24–10 | Black | 50 | **XBPT4FBEL60** |
| **Fuse Terminal Blocks with LED 110–250V, 0.5–1.0A** | | | | | | | |
| 6.2 mm | 10 AWG/4 mm² | ①/①/28–10 | 250/6.3/28–10 | 300/6.3/24–10 | Black | 50 | **XBPT4FBEL250** |

***Notes***

The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holes should be checked according to the application and installation.

Higher ambient temperatures are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.

Maximum power dissipation at 73.4°F (23°C) (in accordance with IEC 60 947-7-3).

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified at right is not exceeded. Details can be obtained from the fuse suppliers.

Cartridge Fuse Inserts 5 x 20 and 6.3 x 32 mm in accordance. with IEC 60 947-7-3.

① The current is determined by the fuse used, the voltage by the selected light indicator. See **Page V7-T8-49**.

**XBPT4FBN**

## Spring Cage Connection Fuse Terminal Blocks, for 6.3 x 32 mm (1/4 in x 1–1/4 in) Fuse

| Terminal Width | Maximum Wire Size | IEC 60 947-7-3 with Fuse in V/A/AWG | IEC 60 947-7-3 as Disconnect Terminal Blocks in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| **Fuse Terminal Blocks** | | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/10/28–10 | 400/10/28–10 | 300/10/24–10 | Black | 50 | **XBPT4FBN** |
| **Fuse Terminal Blocks with LED 12–30V, 1.0–2.5 mA** | | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/10/28–10 | 400/10/28–10 | 300/10/24–10 | Black | 50 | **XBPT4FBNL24** |
| **Fuse Terminal Blocks with LED 110–250V, 0.5–2.5 mA** | | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/10/28–10 | 400/10/28–10 | 300/10/24–10 | Black | 50 | **XBPT4FBNL250** |

## Accessories

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### Spring Cage Connection Fuse Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT4FBE Catalog Number | XBPT4FBN Catalog Number |
|---|---|---|---|---|---|
| Partition plate | — | — | 50 | **XBATPT4** | **XBATQTD12** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS26** | **XBAFBS28** |
| | | 3 | 50 | **XBAFBS36** | — |
| | | 5 | 50 | **XBAFBS56** | — |
| | | 10 | 10 | **XBAFBS106** | — |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF6** ① | **XBMZBF8** ① |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ① | **XBMZB6** ① |

***Notes***

The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holes should be checked according to the application and installation.

Higher ambient temperatures are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.

Maximum power dissipation at 73.4°F (23°C) (in accordance with IEC 60 947-7-3).

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified at right is not exceeded. Details can be obtained from the fuse suppliers.

Cartridge Fuse Inserts 5 x 20 and 6.3 x 32 mm in accordance. with IEC 60 947-7-3.

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### Overload and Short-Circuit Protection

| Terminal Blocks | U (V) | Overload Protection | | Short-Circuit Protection Only | | |
|---|---|---|---|---|---|---|
| | | Individual | Interconnected | Individual | Interconnected | $I_{max.}$ (A) |
| **XBPT4FBN** | 400 | 1.6W | 1.6W | 4W | 2.5W | 10.0 |
| **XBPT4FBE** | 250 | 1.6W | 1.6W | 4W | 2.5W | 6.3 |

### Spring Cage Connection Fuse Terminal Blocks

| Description | XBPT4FBE | XBPT4FBN |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Fuse type/dimensions in $mm^2$ | G/5 x 20 | G/6.3 x 32 |
| Maximum current with single arrangement in A | 6.3 | 10 |
| **Maximum Power Dissipation** | | |
| At 73.4°F (23°C) in accordance with IEC 60 947-7-3 in W | ① | ① |
| Rated surge voltage in kV/contamination class | 4/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–4/0.25–4 | 0.25–4/0.25–4 |
| Stranded with twin ferrule and plastic sleeve in $mm^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Fuse Terminal Blocks

| Catalog Number | Width | Length | Height for— | |
|---|---|---|---|---|
| | | | 35 x 7.5 in | 35 x 15 in |
| **XBPT4FBE** | 0.24 (6.2) | 2.42 (61.5) | 2.46 (62.5) | 2.76 (70.0) |
| **XBPT4FBN** | 0.32 (8.2) | 3.01 (76.5) | 2.72 (69.0) | 3.01 (76.5) |

***Note***

① The current is determined by the fuse used, the voltage by the selected light indicator. See **Page V7-T8-49**.

Disconnect and Component Terminal Blocks

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## Disconnect and Component Terminal Blocks

### Product Description

The XBPT knife disconnect terminal blocks feature narrow construction and high current carrying capacity. They also have a test connection parallel to the disconnect point for a 2.3 mm diameter test plug. Potential distribution is easily accomplished with the Plug-in bridges. There are front connection spring cage terminal blocks available for multi-conductor connections in the smallest possible space. The XBPT4TG disconnect terminal block accommodates component plugs for resistors, diodes, or capacitors, and fuse plugs with or without indication.

### Product Selection

XBPT25MT
Knife Disconnect

#### Disconnect and Component Terminal Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Single Level Knife Disconnect** | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 400/16/28–12 | 600/16/26–12 | Gray | 50 | **XBPT25MT** |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Gray | 50 | **XBPT4MT** |
| **Three-Wire Knife Disconnect** | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 400/16/28–12 | 600/16/26–12 | Gray | 50 | **XBPT25D12MT** |
| **Four-Wire Knife Disconnect** | | | | | | |
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 400/16/28–12 | 600/16/26–12 | Gray | 50 | **XBPT25D22MT** |
| **Spring Cage Disconnect/Component Plug** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Gray | 50 | **XBPT4TG** |
| **Component Plug** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Gray | 10 | **XBPCO** |
| **Fuse Plug** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Black | 10 | **XBPFU** |
| **Fuse Plug with Light Indicator for 12–30V, 1–2.5 mA** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Black | 10 | **XBPFUL24** |
| **Fuse Plug with Light Indicator for 110–250V, 0.5–2.5 mA** | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 400/16/28–10 | 300/6.3/24–10 | Black | 10 | **XBPFUL250** |

## Accessories

### Spring Cage Connection Disconnect and Component Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT25MT Catalog Number | XBPT25D12MT Catalog Number | XBPT25D22MT Catalog Number | XBPT4MT Catalog Number | XBPT4TG Catalog Number |
|---|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25D12** | **XBACPT25D22** | **XBACPT25D22MT** | ③ | ③ |
| End cover segment | Gray | — | 50 | **—** | **XBACPT25** | **XBACPT25** | **—** | **—** |
| Partition plate | — | — | 50 | **XBATPTD12** | **XBATPTD22** | **—** | **XBATPT4** | **XBATPT4** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** | **XBAFBS25** | **XBAFBS26** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** | **XBAFBS35** | **XBAFBS36** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** | **XBAFBS55** | **XBAFBS56** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** | **XBAFBS105** | **XBAFBS106** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS505** | **XBAFBS505** | **XBAFBS506** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS5** | **XBATSPS5** | **XBATSPS6** | **XBATSPS6** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ② | **XBMZBF5** ② | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB5** ② | **XBMZB5** ② | **XBMZB6** ② | **XBMZB6** ② |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

③ XBPT4MT and XBPT4TG have an enclosed design. The use of an end cover is not required.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### Spring Cage Connection Disconnect and Component Terminal Blocks, XBPT25MT, XBPT25D12MT and XBPT25D22MT

| Description | XBPT25MT | XBPT25D12MT | XBPT25D22MT |
|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | |
| Maximum load current in A/cross-section in $mm^2$ | 16/4 | 16/4 | 16/4 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I |
| **Connection Capacity** | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) | 0.39 (10) |

### Spring Cage Connection Disconnect and Component Terminal Blocks, XBPT25D12MT and XBPT4TG

| Description | XBPT4MT | XBPT4TG |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 16/6 | 16/6 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–4 | 0.25–4 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–4 | 0.25–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Disconnect and Component Terminal Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25MT** | 0.20 (5.2) | 2.38 (60.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT25D12MT** | 0.20 (5.2) | 2.83 (72.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT25D22MT** | 0.20 (5.2) | 3.31 (84.0) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4MT** | 0.24 (6.2) | 2.42 (61.5) | — | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT4TG** | 0.24 (6.2) | 2.42 (61.5) | — | 1.44 (36.5) | 1.73 (44.0) |

Hybrid Terminal Blocks

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## Hybrid Terminal Blocks

### Product Description

The XBPU spring cage hybrid terminal blocks offer the best of both worlds. One side offers a spring cage connection and the other side offers the universal screw connection. Use the spring cage connection on the internal (factory) control cabinet side and the screw connection on the end customer (field) side. Ground terminal blocks of the same shape are also available.

### Product Selection

XBPU25D12

#### Spring Cage Hybrid Terminal Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 with … Spring in V/A/AWG | IEC 60 947-7-1 with … Screw in V/A/AWG | IEC 60 947-7-2 with … Spring in V/A/AWG | IEC 60 947-7-2 with … Screw in V/A/AWG | UL-cUL Ratings with … Spring in V/A/AWG | UL-cUL Ratings with … Screw in V/A/AWG | Color | Std. Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/ 2.5 mm$^2$ | 800/28/28–12 | 800/28/26–14 | — | — | 600/15/28–12 | 600/15/26–12 | Gray | 50 | **XBPU25D12** |

XBPU25D12PE

#### Spring Cage Hybrid Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 with … Spring in V/A/AWG | IEC 60 947-7-1 with … Screw in V/A/AWG | IEC 60 947-7-2 with … Spring in V/A/AWG | IEC 60 947-7-2 with … Screw in V/A/AWG | UL-cUL Ratings with … Spring in V/A/AWG | UL-cUL Ratings with … Screw in V/A/AWG | Color | Std. Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/ 2.5 mm$^2$ | — | — | —/—/28–12 | —/—/26–14 | —/—/28–12 | —/—/28–12 | Green/ Yellow | 50 | **XBPU25D12PE** |

## Accessories

### Spring Cage Hybrid Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBPU25D12 Catalog Number | XBPU25D12PE Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPU25D12** | **XBACPU25D12** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | — |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | — |
| Modular test plug | — | — | 10 | **XBATSPS5** | — |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ② | **XBMZBF5** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB5** ② |

## Technical Data and Specifications

### Spring Cage Hybrid Blocks

| Description | XBPU25D12 | XBPU25D12PE |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 28/4 | — |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1 | 0.5–1 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Hybrid Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPU25D12** | 0.20 (5.2) | 2.57 (65.3) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBPU25D12PE** | 0.20 (5.2) | 2.57 (65.3) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Mini Spring Cage

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## Mini Spring Cage

### Product Description

The ***XB*** miniature terminal blocks have a connection cross-section from 1.5 $mm^2$ through 4 $mm^2$ and mount on 15 mm DIN rail. There is an opening for bridging with a fixed bridge in the center of the terminal blocks. These miniature terminal blocks also offer the same accessories that you would find with the larger blocks—including marking tags, end covers, end stop and ground blocks.

### Product Selection

**XBMPK15**

#### Mini Spring Cage Terminal Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | IEC 60 947-7-2 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 14 AWG/1.5 $mm^2$ | 800/24/26–14 | — | 600/15/26–14 | Gray | 50 | **XBMPK15** |
| | | | | | Blue | 50 | **XBMPK15BU** |

**XBMPK15PE**

#### Mini Spring Cage Ground Blocks

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | IEC 60 947-7-2 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 14 AWG/1.5 $mm^2$ | — | —/—/26–14 | —/—/26–14 | Green/ Yellow | 50 | **XBMPK15PE** |

**XBMPKK15**

#### Mini Spring Cage Terminal Blocks—Double Level

| Terminal Width | Maximum Wire Size | IEC 60 947-7-1 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| 5.2 mm | 14 AWG/1.5 $mm^2$ | 500/20/26–14 | 600/15/26–14 | Gray | 50 | **XBMPKK15** |

## Accessories

### Mini Spring Cage Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBMPK15 Catalog Number | XBMPK15PE Catalog Number | XBMPKK15 Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 10 | **XBACMPK15** | **XBACMPK15** | **XBACMPKK15** |
| Fixed bridge | — | 2 | 10 | **XBAFBR25N** | — | **XBAFBR25N** |
| Separating plate | — | — | 10 | **XBATMPKK15** | — | **XBATMPKK15** |
| Blank marker strip | White | — | 10 | **XBMZBF5** ① | **XBMZBF5** ① | **XBMZBF5** ① |

## Technical Data and Specifications

### Mini Spring Cage Terminal/Ground Blocks

| Description | XBMPK15 | XBMPK15PE | XBMPKK15 |
|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | |
| Maximum load current in A/cross-section in $mm^2$ | 24/2.5 | — | 20/2.5 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I |
| **Connection Cross-Section** | | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 |
| Stranded with ferrule without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | — | — | — |
| Stripping length in Inches (mm) | 0.35 (9) | 0.35 (9) | 0.35 (9) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Mini Spring Cage Terminal/Ground Blocks

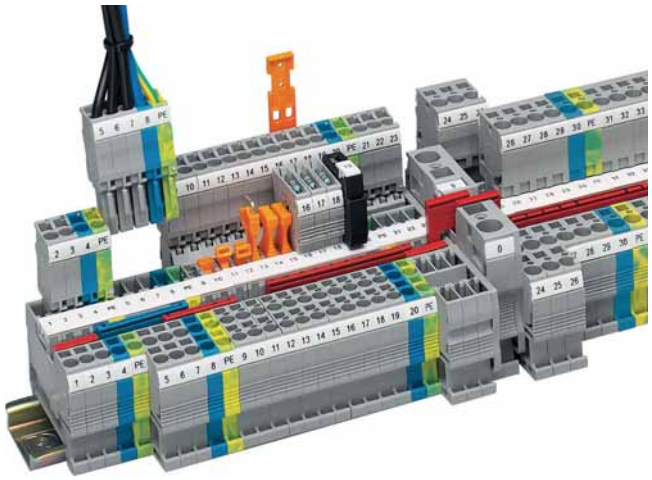
| Catalog Number | Width | Length | Cover Length | Height for— 15 x 5.5 in | 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|---|
| **XBMPK15** | 0.20 (5.2) | 1.57 (40.0) | 0.04 (1.1) | 1.36 (34.5) | — | — |
| **XBMPK15PE** | 0.20 (5.2) | 1.57 (40.0) | 0.04 (1.1) | 1.36 (34.5) | — | — |
| **XBMPKK15** | 0.20 (5.2) | 3.35 (85.0) | 0.04 (1.1) | 1.65 (42.0) | 1.67 (42.5) | 1.97 (50.0) |

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

**Pluggable Spring Cage Terminal Blocks**



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Drawings Online

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## Pluggable Spring Cage Terminal Blocks Overview

### Product Description

The pluggable spring cage connection terminal blocks allow signal and power wiring to be made pluggable. This complete pluggable system has a spring that provides maximum connection space in a space-saving design. The pluggable system accommodates stranded conductors with a nominal cross-section of 2.5 $mm^2$, with or without ferrules.

### Application Description

For applications requiring pluggable wiring up to a rated current of 32A and a rated voltage of 800V. The integrated overspring meets the most stringent vibration requirements. Also ideal where safety is a concern and flexibility is required. The basic terminal blocks and the plugs are finger-safe, which also means the supply voltage can be input via either the terminal blocks or the plugs. With the XBAPSC receptacles, plug-in contacts can be accommodated safely in cable ducts and distributor shafts using minimal space. A test hole can accommodate a 2.3 mm diameter test plug in each receptacle, providing a practical solution. The XBAPSP plugs are intended for connecting one wire, while the XBAPSPDB plugs are designed to connect two wires and provide an optional bridge.

### Features

- Space-saving design
- Powerful contact
- Finger-safe

***Pluggability***

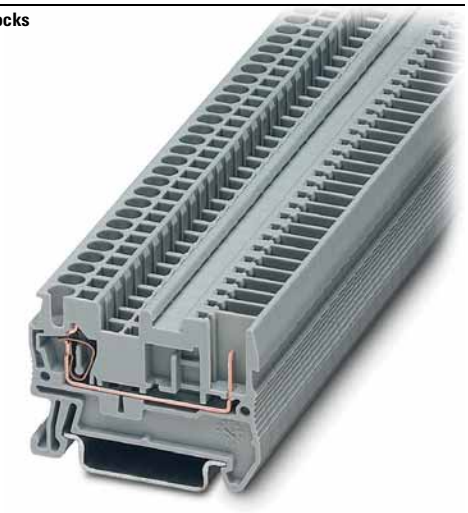
### Standards and Certifications

- UL recognized—File No. E67464
- CE approved
- LVD ①:
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1

***Note***

① Not all standards apply to all terminal blocks. Contact Eaton for details.

Connection Terminal Blocks



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## Connection Terminal Blocks

### Product Description

Contact to the DIN rail is made by simply snapping the terminal block onto the rail.

These blocks act as the stationary position of the pluggable terminal blocks.

### Product Selection

XBPT25P

#### Pluggable Spring Cage Connection Terminal Blocks

| Terminal Width | Maximum Wire Size | IEC 61 984 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Single Level** | | | | | | |
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/24/28–12 | 300/20/26–12 | Gray | 50 | **XBPT25P** |
| **Three-Wire** | | | | | | |
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/24/28–12 | 300/20/26–12 | Gray | 50 | **XBPT25PD12** |

## Accessories

### Pluggable Spring Cage Connection Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT25P Catalog Number | XBPT25PD12 Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACPT25** | **XBACPT25D12** |
| End cover segment | Gray | — | 10 | — | **XBASPT25** |
| Partition plate | — | — | 50 | **XBATPT4** | **XBATPTD12** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS5** |
| Blank marker strip external labeling | White | — | 10 | **XBMZBF5** ② | **XBMZBF5** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB5** ② |

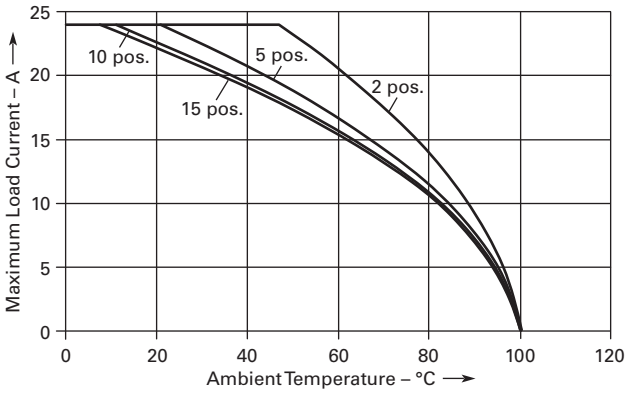
## Technical Data and Specifications

### Pluggable Spring Cage Connection Terminal Blocks

| Description | XBPT25P | XBPT25PD12 |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 24/4 | 24/4 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

***Derating Curve for Pluggable Terminal Blocks***

### XBPT25P and XBPT25PD12




***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

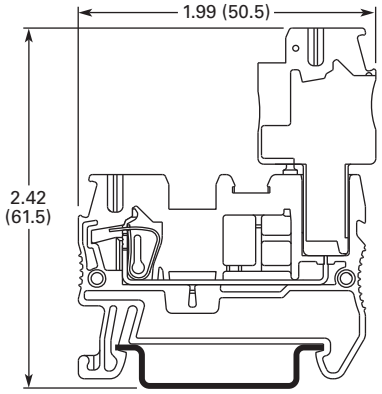
## Dimensions

Approximate Dimensions in Inches (mm)

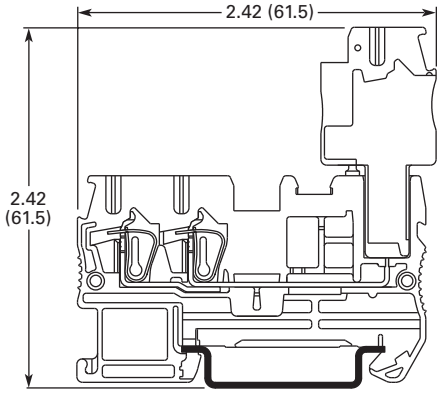
### Pluggable Spring Cage Connection Terminal Blocks—Without Plug

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBPT25P** | 0.20 (5.2) | 1.91 (48.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |
| **XBPT25PD12** | 0.20 (5.2) | 2.38 (60.5) | 0.09 (2.2) | 1.44 (36.5) | 1.73 (44.0) |

### XBPT25P




### XBPT25PD12



**Connection Plugs**

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## Connection Plugs

### Product Description

Just like the basic terminal blocks, the plugs also offer the perfect solution for every application. The XBAPSP25_ plugs are designed for connecting one conductor. The XBAPSPDB25_ plug is designed for connecting two conductors and provides an additional bridging option.

### Product Selection

**XBAPSP25_**

**Spring Cage Connection Plugs, Single, Not Bridgeable**

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Number of Positions | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/24/28–12 | 300/20/26–12 | Gray | 1 | 25 | **XBAPSP251** |
| | | | | | 2 | 25 | **XBAPSP252** |
| | | | | | 3 | 25 | **XBAPSP253** |
| | | | | | 4 | 25 | **XBAPSP254** |
| | | | | | 5 | 25 | **XBAPSP255** |
| | | | | | 6 | 25 | **XBAPSP256** |
| | | | | | 7 | 25 | **XBAPSP257** |
| | | | | | 8 | 25 | **XBAPSP258** |
| | | | | | 9 | 25 | **XBAPSP259** |
| | | | | | 10 | 25 | **XBAPSP2510** |
| | | | | | 11 | 10 | **XBAPSP2511** |
| | | | | | 12 | 10 | **XBAPSP2512** |

XBAPSPDB25_

## Spring Cage Connection Plugs, Double, Bridgeable

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Number of Positions | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 mm$^2$ | 500/24/28–12 | 300/20/26–12 | Gray | 1 | 25 | **XBAPSPDB251** |
| | | | | | 2 | 25 | **XBAPSPDB252** |
| | | | | | 3 | 25 | **XBAPSPDB253** |
| | | | | | 4 | 25 | **XBAPSPDB254** |
| | | | | | 5 | 25 | **XBAPSPDB255** |
| | | | | | 6 | 25 | **XBAPSPDB256** |
| | | | | | 7 | 25 | **XBAPSPDB257** |
| | | | | | 8 | 25 | **XBAPSPDB258** |
| | | | | | 9 | 25 | **XBAPSPDB259** |
| | | | | | 10 | 25 | **XBAPSPDB2510** |
| | | | | | 11 | 10 | **XBAPSPDB2511** |
| | | | | | 12 | 10 | **XBAPSPDB2512** |

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## Accessories

### Spring Cage Connection Plugs

| Description | Color | Number of Positions | Standard Pack | XBAPSP25_ Catalog Number | XBAPSPDB25_ Catalog Number |
|---|---|---|---|---|---|
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | — | **XBAFBS25** |
| | | 3 | 50 | — | **XBAFBS35** |
| | | 5 | 50 | — | **XBAFBS55** |
| | | 10 | 10 | — | **XBAFBS105** |
| Snap-lock fitting and strain relief | Orange | 2 | 10 | **XBAPPRZ** | **XBAPPRZ** |
| Snap-lock fitting | Orange | 1 | 50 | **XBAPPR** | **XBAPPR** |
| | Orange | 2 | 50 | **XBAPPR2** | **XBAPPR2** |
| Strain relief | Black | 2 | 10 | **XBAPPZ2** | **XBAPPDZ2** |
| | Black | 4 | 10 | **XBAPPZ4** | **XBAPPDZ4** |
| Blank marker strip | White | — | 10 | **XBMZBF5** ① | **XBMZBF5** ① |

## Technical Data and Specifications

### Spring Cage Connection Plugs

| Description | XBAPSP25_ | XBAPSPDB25_ |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in mm$^2$ | 24/4 | 24/4 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in mm$^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in mm$^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in mm$^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

## Dimensions

See **Page V7-T8-61** for dimensions.

***Notes***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

**Connection Receptacles**

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## Connection Receptacles

### Product Description

With the XBAPSC25_, Plug-in contacts can be accommodated safely in cable ducts and distributor shafts without using much space. The standard strain reliefs can also be used. Large-surface labeling makes it possible to mark the terminal points and the entire receptacle. A test hole can accommodate a 2.3 mm diameter test plug in each receptacle element, providing a practical solution.

### Product Selection

**XBAPSC25_**

#### Pluggable Spring Connection Receptacles

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Number of Positions | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 500/24/28–12 | 300/20/26–12 | Gray | 2 | 25 | **XBAPSC252** |
| | | | | | 3 | 25 | **XBAPSC253** |
| | | | | | 4 | 25 | **XBAPSC254** |
| | | | | | 5 | 25 | **XBAPSC255** |
| | | | | | 6 | 25 | **XBAPSC256** |
| | | | | | 7 | 25 | **XBAPSC257** |
| | | | | | 8 | 25 | **XBAPSC258** |
| | | | | | 9 | 25 | **XBAPSC259** |
| | | | | | 10 | 25 | **XBAPSC2510** |
| | | | | | 11 | 10 | **XBAPSC2511** |
| | | | | | 12 | 10 | **XBAPSC2512** |

## Accessories

### Pluggable Spring Connection Receptacles

| Description | Color | Number of Positions | Standard Pack | XBAPSC25_ Catalog Number |
|---|---|---|---|---|
| 2.3 mm diameter test plug | Red | — | — | **XBATSMPS-_** ① |
| Strain relief | Black | 2 | 10 | **XBAPPDZ2** |
| | Black | 4 | 10 | **XBAPPDZ4** |
| Blank marker strip | White | — | 10 | **XBMZBF5** ② |

## Technical Data and Specifications

### Spring Cage Connection Plugs

| Description | XBAPSP25_ |
|---|---|
| **Technical Data in Accordance with IEC** | |
| Maximum load current in A/cross-section in $mm^2$ | 24/4 |
| Rated surge voltage in kV/contamination class | 6/3 |
| Surge voltage category/insulating material group | III/I |
| **Connection Capacity** | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Spring Cage Connection Plugs

| Catalog Number | Width | Length | Cover Length | Height |
|---|---|---|---|---|
| **XBAPSP25_** | 0.20 (5.2) | 1.46 (37.2) | 0.09 (2.2) | 0.71 (18.0) |

### Receptacle Widths

| Catalog Number | Width | Catalog Number | Width |
|---|---|---|---|
| **XBAPSC252** | 0.41 (10.4) | **XBAPSC258** | 1.64 (41.6) |
| **XBAPSC253** | 0.61 (15.6) | **XBAPSC259** | 1.84 (46.8) |
| **XBAPSC254** | 0.82 (20.8) | **XBAPSC2510** | 2.05 (52.0) |
| **XBAPSC255** | 1.02 (26.0) | **XBAPSC2511** | 2.25 (57.2) |
| **XBAPSC256** | 1.23 (31.2) | **XBAPSC2512** | 2.46 (62.4) |
| **XBAPSC257** | 1.43 (36.4) | | |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Connection Accessories

### Product Description

The pluggable XBPT series features an extensive range of application-oriented accessories. Strain reliefs are available for the plugs and can be snapped on at the required points as an option. The snap-lock fitting can be used for all plug variants. It is snapped into the outside of the plug housing as an option and hooks onto the terminal block housing when the plug is snapped on.

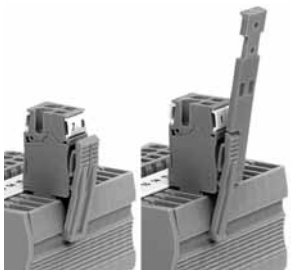
### Product Selection

#### Pluggable Spring Cage Connection Accessories

| | Description | Number of Positions | Standard Pack | Catalog Number |
|---|---|---|---|---|
| **XBAPPZ2** | Strain relief for single plugs | 2 | 10 | **XBAPPZ2** |
| | | 4 | 50 | **XBAPPZ4** |
| **XBAPPDZ4** | Strain relief for double plugs and receptacles | 2 | 10 | **XBAPPDZ2** |
| | | 4 | 10 | **XBAPPDZ4** |
| **XBAPPR2** | Snap-lock fitting for plugs | 1 | 50 | **XBAPPR** |
| | | 2 | 50 | **XBAPPR2** |
| **XBAPPRZ** | Snap-lock fitting and strain relief for plugs | 2 | 10 | **XBAPPRZ** |

#### Strain Relief

#### Snap-Lock Fitting



#### Optional Accessory Recommendations

| Number of Positions Receptacle | Strain Relief |
|---|---|
| 2–4 | **XBAPPZ2** |
| 5–10 | **XBAPPZ4 or (2) XBAPPZ2** |
| 11–15 | **(2) XBAPPZ4 or (4) XBAPPZ2** |

**IDC Terminal Blocks**

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| Disconnect and Component Terminal Blocks | **V7-T8-77** |
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Drawings Online

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## IDC (Insulation Displacement Connection) Terminal Blocks Overview

### Product Description

The superior design of Eaton's Insulation Displacement Connection (IDC) technology terminal blocks reduces wiring installation time and labor, especially in high-volume applications. IDC terminal blocks are suited for applications in automated equipment and machine tools, packaging and material handling machinery, railway/mass transit systems, petro-chemical, and any other application requiring high-volume connections for low-voltage control and signal circuitry where labor cost reduction and ease of assembly is desired. These terminal blocks are designed for long-term use under demanding conditions.

The XBQT Series allows for wire to be connected without any prior stripping. The quick connection provides up to 60% reduction in wiring time. One turn of a standard screwdriver results in a simple, fast and reliable connection.

### Application Description

The XBQT is operated with a standard screwdriver. The switching states are clearly signaled by engagement points in the start and end positions. Solid and stranded wires of 0.25 to 2.5 $mm^2$ can be wired without the use of ferrules. Stripping the wire is not required—the wire's insulation is cut open when it is properly connected. The wire is securely placed in the end position where it makes large-area, gas-tight contact. Connections are made in seconds!

### Features

- Quick connection capability
- Global acceptance
- Flexible plug-in bridge system
- Large surface area for marking
- Standardized testing system

### Standards and Certifications

- UL recognized—File No. E67464
- CE approved
- LVD ①
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1

***Note***

① Not all standards apply to all terminal blocks. Contact Eaton for details.

Single Level

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## Single Level

### Product Description

The XBQT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBQT25

#### IDC—Single Level Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | 800/17.5/24–16 | 550/16/24–16 | 600/10/24–16 | Gray | 50 | **XBQT15** |
| | | | | | Blue | 50 | **XBQT15BU** |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 800/24/20–14 | — | 600/15/20–14 | Gray | 50 | **XBQT25** |
| | | | | | Blue | 50 | **XBQT25BU** |

XBQT15PE

#### IDC—Single Level Terminal Ground Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | —/—/24–16 | —/—/24–16 | —/—/24–16 | Green/Yellow | 50 | **XBQT15PE** |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | —/—/20–14 | — | —/—/20–14 | Green/Yellow | 50 | **XBQT25PE** |

## Accessories

### IDC—Single Level Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBQT15 Catalog Number | XBQT25 Catalog Number | XBQT15PE Catalog Number | XBQT25PE Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQT15** | **XBACQT25** | **XBACQT15** | **XBACQT25** |
| Partition plate | — | — | 50 | **XBATQT25** | **XBATQT25** | **XBATQT25** | **XBATQT25** |
| Plug-in bridge | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF5** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② | **XBMZB6** ② |

## Technical Data and Specifications

### IDC—Single Level Terminal/Ground Blocks

| Description | XBQT15 | XBQT25 | XBQT15PE | XBQT25PE |
|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 17.5/1.5 | 24/2.5 | — | — |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I |
| **Connection Cross-Section** | | | | |
| Core insulation | PVC/PE | PVC/PE | PVC/PE | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 |
| Halogen-free in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–16 (0.25–0.34) | 20–14 (—) | 24–16 (0.25–0.34) | 20–14 (—) |
| Repeated connections minimum 100 x in $mm^2$ | 0.25–1.5 | 0.5–2.5 | 0.25–1.5 | 0.5–2.5 |

## Dimensions

Approximate Dimensions in Inches (mm)

### IDC—Single Level Terminal/Ground Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQT15** | 0.20 (5.2) | 2.31 (58.8) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT25** | 0.24 (6.2) | 2.46 (62.6) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT15PE** | 0.20 (5.2) | 2.31 (58.8) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT25PE** | 0.24 (6.2) | 2.46 (62.6) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Multi-Conductor

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| Disconnect and Component Terminal Blocks | **V7-T8-77** |
| Hybrid Terminal Blocks | **V7-T8-79** |




## Multi-Conductor

### Product Description

The XBQT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBQT25D12

#### IDC—Multi-Conductor Terminal Blocks, Three-Wire

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | 800/17.5/24–16 | 550/16/24–16 | 600/10/24–16 | Gray | 50 | **XBQT15D12** |
| | | | | | Blue | 50 | **XBQT15D12BU** |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 800/24/20–14 | — | 600/15/20–14 | Gray | 50 | **XBQT25D12** |
| | | | | | Blue | 50 | **XBQT25D12BU** |

XBQT15D22PE

#### IDC—Multi-Conductor Terminal Blocks, Four-Wire

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | 800/17.5/24–16 | 550/16/24–16 | 600/10/24–16 | Gray | 50 | **XBQT15D22** |
| | | | | | Blue | 50 | **XBQT15D22BU** |

#### IDC—Multi-Conductor Terminal Blocks, Four-Wire Ground Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | —/—/24–16 | —/—/24–16 | —/—/24–16 | Green/Yellow | 50 | **XBQT15D22PE** |

**XBQT15D12PE**

## IDC—Multi-Conductor Terminal Blocks, Three-Wire Ground Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 mm$^2$ | —/—/24–16 | —/—/24–16 | —/—/24–16 | Green/Yellow | 50 | **XBQT15D12PE** |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | —/—/20–14 | — | —/—/20–14 | Green/Yellow | 50 | **XBQT25D12PE** |

## Accessories

### IDC—Multi-Conductor Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBQT15D12 Catalog Number | XBQT25D12 Catalog Number | XBQT15D22 Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQT15D12** | **XBACQT25D12** | **XBACQT15D22** |
| End cover segment | Gray | — | 10 | **XBASQT15** | **XBASQT25** | **XBASQT15** |
| Partition plate | — | — | 50 | **XBATQTD12** | **XBATQTD12** | **XBATQTD22** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF5** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② |

### IDC—Multi-Conductor Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBQT15D12PE Catalog Number | XBQT25D12PE Catalog Number | XBQT15D22PE Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQT15D12** | **XBACQT25D12** | **XBACQT15D22** |
| End cover segment | Gray | — | 10 | **XBASQT15** | **XBASQT25** | **XBASQT15** |
| Partition plate | — | — | 50 | **XBATQTD12** | **XBATQTD12** | **XBATQTD22** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF5** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### IDC—Multi-Conductor Terminal Blocks

| Description | XBQT15D12 | XBQT25D12 | XBQT15D12PE | XBQT25D12PE | XBQT15D22 | XBQT15D22PE |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 17.5/1.5 | 24/2.5 | — | — | 17.5/1.5 | — |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I | III/I | III/I |
| **Connection Cross-Section** | | | | | | |
| Core insulation | PVC/PE | PVC/PE | PVC/PE | PVC/PE | PVC/PE | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 1.5 |
| Halogen-free in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 1.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–16 (0.25–0.34) | 20–14 (—) | 24–16 (0.25–0.34) | 20–14 (—) | 24–16 (0.25–0.34) | 24–16 (0.25–0.34) |
| Repeated connections minimum 100 x in $mm^2$ | 0.25–1.5 | 0.5–2.5 | 0.25–1.5 | 0.5–2.5 | 0.25–1.5 | 0.25–1.5 |

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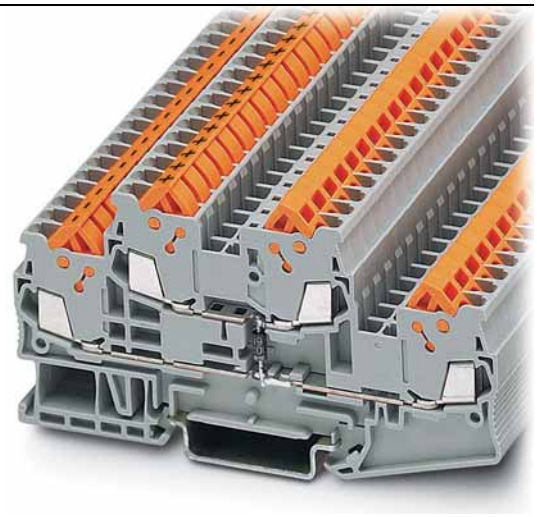
## Dimensions

Approximate Dimensions in Inches (mm)

### IDC—Multi-Conductor Terminal Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQT15D12** | 0.20 (5.2) | 3.01 (76.4) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT25D12** | 0.24 (6.2) | 3.25 (82.5) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQT15D12PE** | 0.20 (5.2) | 3.01 (76.4) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT25D12PE** | 0.20 (5.2) | 3.25 (82.5) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQT15D22** | 0.20 (5.2) | 3.70 (94.0) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT15D22PE** | 0.20 (5.2) | 3.70 (94.0) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |

Double Level



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## Double Level

### Product Description

The XBQTT IDC terminal block has the fastest connection time in a compact design. The space-saving front connection design offers additional space for wiring between the cable ducts. The double bridge shaft, found in each level, can accommodate individual chain bridging and step-down bridging from other terminal blocks. The XBQTT ground blocks are the same shape as the feed-through terminal blocks with the same wide range of cross-sections available. They easily snap onto the DIN rail to make a reliable mechanical and electrical contact that meets all requirements of IEC 60-947-7-2.

### Product Selection

XBQTT15

#### IDC—Double Level Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 5.2 mm | 16 AWG/1.5 $mm^2$ | 800/17.5/24–16 | 420/15/24–16 | 600/10/24–16 | Gray | 50 | **XBQTT15** |
| | | | | | Blue | 50 | **XBQTT15BU** |

XBQTT15PE

#### IDC—Double Level Ground Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | EN 50 019 in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|
| 6.2 mm | 14 AWG/2.5 $mm^2$ | —/—/24–16 | —/—/24–16 | —/—/24–16 | Green/Yellow | 50 | **XBQTT15PE** |

## Accessories

### IDC—Double Level Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBQTT15 Catalog Number | XBQTT15PE Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQTT15** | **XBACQTT15** |
| Partition plate | — | — | 50 | **XBATQTT15** | **XBATQTT15** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** |
| | | 20 | 10 | **XBAFBS505** | **XBAFBS505** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS5** |
| Blank marker strip | White | — | 10 | **XBMZBF5** ② | **XBMZBF5** ② |

## Technical Data and Specifications

### IDC—Double Level Terminal/Ground Blocks

| Description | XBQTT15 | XBQTT15PE |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Maximum load current in A/cross-section in $mm^2$ | 17.5/1.5 | — |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Cross-Section** | | |
| Core insulation | PVC/PE | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 1.5 | 1.5 |
| Halogen-free in $mm^2$ | 1.5 | 1.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–16 (0.25–0.34) | 24–16 (0.25–0.34) |
| Repeated connections minimum 100 x in $mm^2$ | 0.25–1.5 | 0.25–1.5 |

## Dimensions

Approximate Dimensions in Inches (mm)

### IDC—Double Level Terminal/Ground Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQTT15** | 0.20 (5.2) | 3.92 (99.6) | 0.09 (2.2) | 1.96 (49.9) | 2.26 (57.4) |
| **XBQTT15PE** | 0.20 (5.2) | 3.92 (99.6) | 0.09 (2.2) | 1.96 (49.9) | 2.26 (57.4) |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Fuse Terminal Blocks

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# Fuse Terminal Blocks

## Product Description

The XBQT lever-type fuse terminal blocks perform two main functions. It is a carrier for a 5 x 20 mm cartridge fuse insert and can also allow for potential distribution via the double bridge shaft.

This means that two potentials can be carried separately alongside each other. Versions with light indication (AC and DC voltage) are available to signal a triggered fuse.

## Product Selection

XBQT25FB

### IDC—Fuse Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **IDC Fuse Terminal Blocks** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | ①/6.3/20–14 | 300/15/20–14 | Black | 50 | **XBQT25FBE** |
| **IDC Fuse Terminal Blocks with LED 12–30V, 1–2.5 mA** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | ①/6.3/20–14 | 300/15/20–14 | Black | 50 | **XBQT25FBEL24** |
| **IDC Fuse Terminal Blocks with LED 30–60V, 0.8–2.0 mA** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | ①/6.3/20–14 | 300/15/20–14 | Black | 50 | **XBQT25FBEL60** |
| **IDC Fuse Terminal Blocks with LED 110–250V, 0.5–2.5 mA** | | | | | | |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | ①/6.3/20–14 | 300/15/20–14 | Black | 50 | **XBQT25FBEL250** |

***Note***

① As disconnect terminal block, 400V; as fuse terminal blocks 250V.

## Accessories

### IDC—Fuse Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBQT25FBE Catalog Number |
|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQT25D12** |
| Partition plate | — | — | 50 | **XBATQTD12** |
| Plug-in bridge—for cross connections in the terminal center | Red | 2 | 10 | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS106** |
| Test adapter | — | — | 10 | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF6** ② |
| Blank marker strip lever labeling | White | — | 10 | **XBMZB5** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB6** ② |

## Technical Data and Specifications

### IDC—Fuse Terminal Blocks

| Description | XBQT25FBE |
|---|---|
| **Technical Data in Accordance with IEC** | |
| Maximum load current in A/cross-section in $mm^2$ | 6.3/2.5 |
| Rated surge voltage in kV/contamination class | 4/3 |
| Surge voltage category/insulating material group | III/I |
| **Connection Cross-Section** | |
| Core insulation | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 2.5 |
| Halogen-free in $mm^2$ | 2.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–14 (—) |
| Repeated connections minimum 100 x in $mm^2$ | 0.5–2.5 |

## Dimensions

Approximate Dimensions in Inches (mm)

### IDC—Fuse Terminal Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQT25FBE** | 0.24 (6.2) | 3.25 (82.5) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |

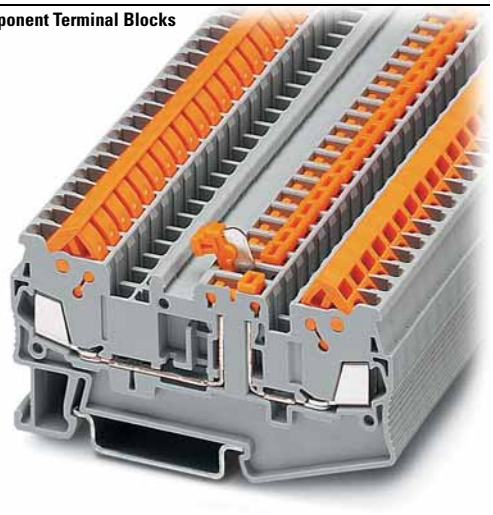
***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Disconnect and Component Terminal Blocks



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## Disconnect and Component Terminal Blocks

### Product Description

The ***XB*** Series includes application specific terminal blocks like disconnect blocks. The knife disconnect terminal blocks (XBQT15MT) has a fitted knife. The XBQT15TG can accommodate component plugs for resistors or capacitors and fuse plugs for 5 x 20 mm fuses with or without a light indicator for signaling a triggered fuse. Both terminal blocks have three bridge shafts—two in the standard positions and one on the other side of the disconnect point.

### Product Selection

**XBQT15MT**
**Knife Disconnect**

#### IDC—Disconnect and Component Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | UL-cUL Ratings for Disconnect in V/A/AWG | UL-cUL Ratings for Disconnect with Test Sockets in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|
| **Knife Disconnect** | | | | | | | | |
| 5.2 mm | 16 AWG/1.5 mm$^2$ | 400/16/24–16 | 600/10/24–16 | — | — | Gray | 50 | **XBQT15MT** |
| **Component Disconnect** | | | | | | | | |
| 5.2 mm | 16 AWG/1.5 mm$^2$ | 400/16/24–16 | 600/10/24–16 | — | — | Gray | 50 | **XBQT15TG** |
| 6.2 mm | 14 AWG/2.5 mm$^2$ | 400/16/20–14 | 300/10/20–14 | — | — | Gray | 50 | **XBQT25TG** |
| **Component Plug** | | | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/16/26–10 | — | 600/16/26–10 | 300/16/26–10 | Gray | 10 | **XBPCO** |
| **Fuse Plug** | | | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/16/26–10 | — | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFU** |
| **Fuse Plug with Light Indicator for 12–30V, 1–2.5 mA** | | | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/16/26–10 | — | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFUL24** |
| **Fuse Plug with Light Indicator for 110–250V, 0.5–2.5 mA** | | | | | | | | |
| 6.2 mm | 10 AWG/4 mm$^2$ | 500/16/26–10 | — | 600/16/26–10 | 300/16/26–10 | Black | 10 | **XBPFUL250** |

## Accessories

### IDC—Disconnect and Component Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBQT15MT Catalog Number | XBQT15TG Catalog Number | XBQT25TG Catalog Number |
|---|---|---|---|---|---|---|
| End cover | Gray | — | 50 | **XBACQT15D12** | **XBACQT15D12** | **XBACQT25D12** |
| End cover segment | Gray | — | 10 | **XBASQT15** | **XBASQT15** | **XBASQT25** |
| Partition plate | — | — | 50 | **XBATQTD12** | **XBATQTD12** | **XBATQTD12** |
| Plug-in bridge | Red | 2 | 10 | **XBAFBS25** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS105** | **XBAFBS106** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS5** | **XBATSPS5** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF5** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB5** ② | **XBMZB5** ② | **XBMZB6** ② |

## Technical Data and Specifications

### IDC—Disconnect and Component Terminal Blocks

| Description | XBQT15MT | XBQT15TG | XBQT25TG |
|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | |
| Maximum load current in A/cross-section in $mm^2$ | 16/1.5 | 16/1.5 | 16/2.5 |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I |
| **Connection Cross-Section** | | | |
| Core insulation | PVC/PE | PVC/PE | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 1.5 | 1.5 | 2.5 |
| Halogen-free in $mm^2$ | 1.5 | 1.5 | 2.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–16 (0.25–0.34) | 24–16 (0.25–0.34) | 20–14 (—) |
| Repeated connections minimum 100 x in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.5–2.5 |

## Dimensions

Approximate Dimensions in Inches (mm)

### IDC—Disconnect and Component Terminal Blocks

| Catalog Number | Width | Length | Cover Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQT15MT** | 0.20 (5.2) | 3.01 (76.4) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT15TG** | 0.20 (5.2) | 3.01 (76.4) | 0.09 (2.2) | 1.55 (39.3) | 1.84 (46.8) |
| **XBQT25TG** | 0.24 (6.2) | 3.25 (82.5) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |

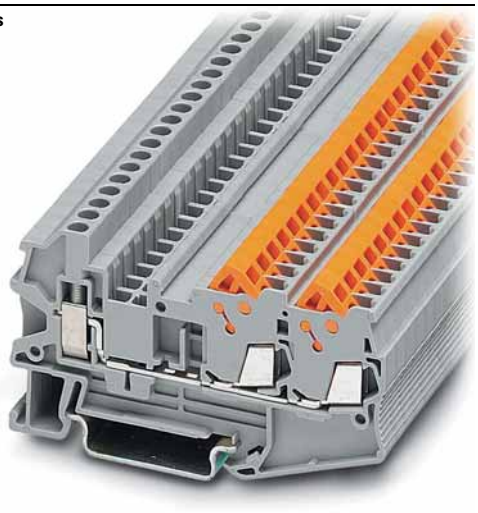
***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

Hybrid Terminal Blocks



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# Hybrid Terminal Blocks

## Product Description

The XBQT hybrid terminal blocks offer the best of both worlds. One side offers the time-saving advantage of our insulation displacement connection technology, while the other side offers a universal screw connection. Use the IDC side on the internal (factory) control cabinet side and the screw connection on the end customer (field) side. Ground terminal blocks of the same shape are also available

## Product Selection

XBQU25

### IDC—Hybrid Terminal Blocks, Single Level

| Terminal Width | Maximum Wire Size | IEC Screw Connection in V/A/AWG | IEC IDC Connection in V/A/AWG | UL-cUL Screw Connection in V/A/AWG | UL-cUL IDC Connection in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 800/17.5/26–12 | 800/17.5/24–16 | 600/10/26–12 | 600/10/24–16 | Gray | 50 | **XBQU15** |
| 6.2 mm | 10 AWG/4 $mm^2$ | 800/24/26–10 | 800/24/20–14 | 600/15/26–10 | 600/15/20–14 | Gray | 50 | **XBQU25** |

XBQU15D12

### IDC—Hybrid Terminal Blocks, Three-Wire

| Terminal Width | Maximum Wire Size | IEC Screw Connection in V/A/AWG | IEC IDC Connection in V/A/AWG | UL-cUL Screw Connection in V/A/AWG | UL-cUL IDC Connection in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | 800/17.5/26–12 | 800/17.5/24–16 | 800/10/26–12 | 800/10/24–16 | Gray | 50 | **XBQU15D12** |
| 6.2 mm | 10 AWG/4 $mm^2$ | 800/24/26–10 | 800/24/20–14 | 600/15/26–10 | 600/15/20–14 | Gray | 50 | **XBQU25D12** |

XBQU25PE

### IDC—Hybrid Terminal/Ground Blocks

| Terminal Width | Maximum Wire Size | IEC Screw Connection in V/A/AWG | IEC IDC Connection in V/A/AWG | UL-cUL Screw Connection in V/A/AWG | UL-cUL IDC Connection in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|---|---|
| 5.2 mm | 12 AWG/2.5 $mm^2$ | —/—/26–12 | —/—/24–16 | —/—/26–12 | —/—/24–16 | Gray | 50 | **XBQU15PE** |
| 6.2 mm | 10 AWG/4 $mm^2$ | —/—/26–10 | —/—/20–14 | —/—/26–10 | —/—/20–14 | Gray | 50 | **XBQU25PE** |

## Accessories

### IDC—Hybrid Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBQU15 Catalog Number | XBQU25 Catalog Number | XBQU15D12 Catalog Number | XBQU25D12 Catalog Number |
|---|---|---|---|---|---|---|---|
| End cover | Gray | — | 10 | **XBACQU15** | **XBACQU25** | **XBACQU15D12** | **XBACQU25D12** |
| End segment | Gray | — | 10 | **—** | **—** | **XBASQT15** | **XBASQT25** |
| Partition plate | — | — | 50 | **XBATQT25** | **XBATQT25** | **XBATQTD12** | **XBATQTD12** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② | **XBMZBF5** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | | | | **XBMZB5** ② | **XBMZB6** ② | **XBMZB5** ② | **XBMZB6** ② |

### IDC—Hybrid Terminal/Ground Blocks

| Description | Color | Number of Positions | Standard Pack | XBQU15PE Catalog Number | XBQU25PE Catalog Number |
|---|---|---|---|---|---|
| End cover | Gray | — | 10 | **XBACQU15** | **XBACQU25** |
| Partition plate | — | — | 50 | **XBATQT25** | **XBATQT25** |
| Plug-in bridge—for cross connections in the bridge shaft | Red | 2 | 10 | **XBAFBS25** | **XBAFBS26** |
| | | 3 | 50 | **XBAFBS35** | **XBAFBS36** |
| | | 5 | 50 | **XBAFBS55** | **XBAFBS56** |
| | | 10 | 10 | **XBAFBS105** | **XBAFBS106** |
| | | 50 | 10 | **XBAFBS505** | **XBAFBS506** |
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS5** | **XBATSPS6** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF5** ② | **XBMZBF6** ② |
| Blank marker strip center labeling (strip of 10) | | | | **XBMZB5** ② | **XBMZB6** ② |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

For additional accessories, see **Page V7-T8-90**.

## Technical Data and Specifications

### Screw Connection Single Level—Through-Feed

| Description | XBQU15 | XBQU25 | XBQU15PE | XBQU25PE | XBQU15D12 | XBQU25D12 |
|---|---|---|---|---|---|---|
| **Technical Data in Accordance with IEC** | | | | | | |
| Maximum load current in A/cross-section in $mm^2$ | 17.5/1.5 | 24/2.5 | — | — | 17.5/1.5 | 24/2.5 |
| Rated surge voltage in kV/contamination class | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 | 8/3 |
| Surge voltage category/insulating material group | III/I | III/I | III/I | III/I | III/I | III/I |
| **Connection Cross-Section** | | | | | | |
| Core insulation | PVC/PE | PVC/PE | PVC/PE | PVC/PE | PVC/PE | PVC/PE |
| Single/multiple/fine strand in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 2.5 |
| Halogen-free in $mm^2$ | 1.5 | 2.5 | 1.5 | 2.5 | 1.5 | 2.5 |
| Fine strand/superfine strand in AWG ($mm^2$) | 24–16 (0.25–0.34) | 20–14 (—) | 24–16 (0.25–0.34) | 20–14 (—) | 24–16 (0.25–0.34) | 20–14 (—) |
| Repeated connections minimum 100 x in $mm^2$ | 0.25–1.5 | 0.5–2.5 | 0.25–1.5 | 0.5–2.5 | 0.25–1.5 | 0.5–2.5 |
| **Connection Capacity—Screw Connection** | | | | | | |
| Stranded with ferrule/with ferrule and plastic sleeve in $mm^2$ | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 | 0.25–2.5/0.25–2.5 | 0.25–4/0.25–4 |
| **Multi-Conductor Connection** (same cross-section) | | | | | | |
| Solid/stranded in $mm^2$ | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 | 0.14–1.5/0.14–1.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 | 0.25–1.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–1.5 | 0.5–2.5 | 0.5–1.5 | 0.5–2.5 | 0.5–1.5 | 0.5–2.5 |
| Stripping length in inches (mm) | 0.35 (9) | 0.35 (9) | 0.35 (9) | 0.35 (9) | 0.35 (9) | 0.35 (9) |
| Thread | M3 | M3 | M3 | M3 | M3 | M3 |
| Torque in in-lb (Nm) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) | 5.3–7.1 (0.6–0.8) |

## Dimensions

Approximate Dimensions in Inches (mm)

### Screw Connection Single Level—Through-Feed

| Catalog Number | Width | Length | Cover Width | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBQU15** | 0.20 (5.2) | 2.31 (58.8) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQU25** | 0.24 (6.2) | 2.46 (62.6) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQU15PE** | 0.20 (5.2) | 2.31 (58.8) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQU25PE** | 0.24 (6.2) | 2.46 (62.6) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQU15D12** | 0.20 (5.2) | 3.01 (76.4) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |
| **XBQU25D12** | 0.24 (6.2) | 3.25 (82.5) | 0.09 (2.2) | 1.69 (42.8) | 1.98 (50.3) |

**Miniature Circuit Breakers**

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| Flat-Type Fuse Terminal Blocks | **V7-T8-86** |
| Spring Cage Fuse Terminal Blocks | **V7-T8-88** |


## Miniature Circuit Breakers Overview

### Product Description

The new ***XB*** Series thermal miniature circuit breaker offers convenient overload protection. This space-saving single-pole circuit breaker, available up to 10 amps, can be inserted into a screw connection fuse terminal block, XBUK6FSI, or a spring cage fuse terminal block, XBPT4FSI, which is available with or without light indication. The XBATCP combines the reclosing capability of a circuit breaker with the overload protection of a fuse. The integrated switching function makes it possible to switch the circuit breaker back on immediately, guaranteeing system availability. The device can also be used for switching purposes, as an ON/OFF switch. The Plug-in design allows for quick and efficient replacement.

### Standards and Certifications

- UL and cUL recognized
- UL 1077—File No. E301915
- CE approved

Circuit Breakers

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| Time/Current Curve | **V7-T8-85** |
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| Flat-Type Fuse Terminal Blocks | **V7-T8-86** |
| Spring Cage Fuse Terminal Blocks | **V7-T8-88** |


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# Circuit Breakers

## Product Description

The thermal miniature circuit breaker can be switched back on again, has a compact design, and is available in 10 finely graded steps for nominal currents from 0.1 to 10A.

## Product Selection

XBAT

### Thermal Miniature Circuit Breaker

| Connection Data in Vac/Vdc | Nominal Current | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|
| 250/65 | 0.1A | Black | 20 | **XBATCPT** |
| | 0.25A | Black | 20 | **XBATCPQ** |
| | 0.5A | Black | 20 | **XBATCPH** |
| | 1.0A | Black | 20 | **XBATCP1** |
| | 2.0A | Black | 20 | **XBATCP2** |
| | 3.0A | Black | 20 | **XBATCP3** |
| | 4.0A | Black | 20 | **XBATCP4** |
| | 6.0A | Black | 20 | **XBATCP6** |
| | 8.0A | Black | 20 | **XBATCP8** |
| | 10.0A | Black | 20 | **XBATCP10** |

## Accessories

### Thermal Miniature Circuit Breaker

| Description | Color | Number of Positions | Standard Pack | XBAT Catalog Number |
|---|---|---|---|---|
| Blank marker strip | White | — | 10 | **XBMZBF5** ① |
| Flat type terminal blocks | — | — | — | **XBUK6FSI** |
| | | | | **XBUK6FSIL12** |
| | | | | **XBUK6FSIL24** |
| | | | | **XBPT4FSI** |
| | | | | **XBPT4FSIL12** |
| | | | | **XBPT4FSIL24** |

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## Technical Data and Specifications

### Thermal Miniature Circuit Breaker

| Description | XBAT |
|---|---|
| **Technical Data in Accordance with IEC** | |
| Nominal voltage in Vac/Vdc | 250/65 |
| Nominal current in A | 0.25–10 |
| Ambient temperature | –4 to 140°F (–20 to 60°C) |
| **Maximum Power Dissipation** | |
| Rated surge voltage in kV/contamination class | 2.5/2 |
| Surge voltage category/insulating material group | III/I |
| **Switching Capacity** | |
| Cycles with 1 x $I_N$ (low-induction) | 6000 |
| Cycles with 1 x $I_N$ (induction) | 3000 |
| Cycles with 2 x $I_N$ (induction) | 500 |
| **Switching Capacity I CN** | |
| For nominal currents of 0.25–4A/6–10A | 6 x $I_N$/8 x $I_N$ |
| Switching capacity (UL 1077) 250 Vac/65 Vdc | 2000/200 |

### Nominal Currents and Internal Resistances

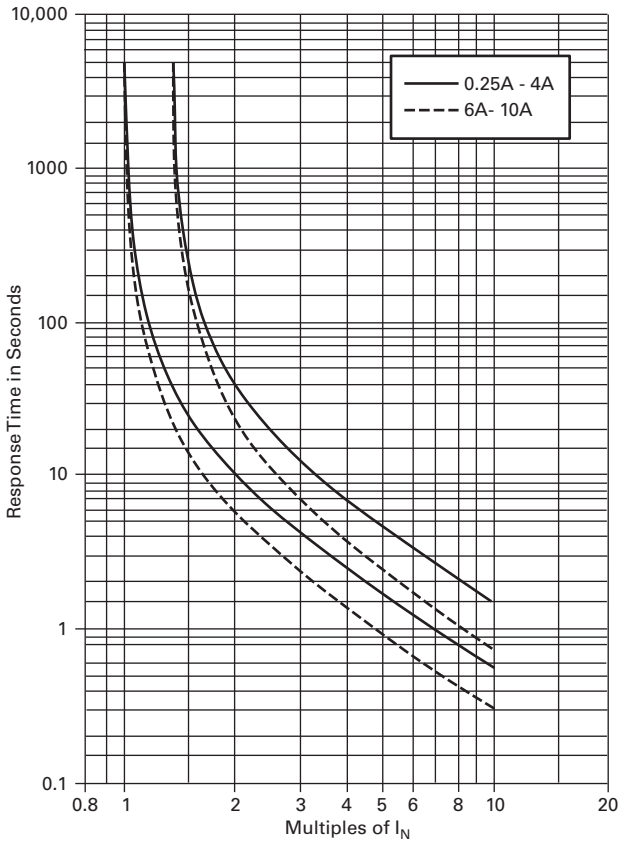
| Nominal Current (A) | Internal Resistance (3/4) |
|---|---|
| 0.25 | 14 |
| 0.5 | 3.4 |
| 1.0 | 0.9 |
| 2.0 | 0.25 |
| 3.0 | 0.11 |
| 4.0 | 0.07 |
| 6.0 | ≤0.05 |
| 8.0 | ≤0.05 |
| 10.0 | ≤0.05 |

***Note***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

## Time/Current Curve

### Total Switch-Off Period for Nominal Current, 73.4°F (23°C)




**Note:** When mounted in rows, the nominal current of the devices can only be transmitted at 80% or must be correspondingly over-dimensioned.

### Temperature Factor

| Ambient Temperature | Temperature Factor |
|---|---|
| –4°F (–20°C) | 0.76 |
| 14°F (–10°C) | 0.84 |
| 32°F (0°C) | 0.91 |
| 73.4°F (23°C) | 1.00 |
| 104°F (40°C) | 1.08 |
| 122°F (50°C) | 1.16 |
| 140°F (60°C) | 1.24 |

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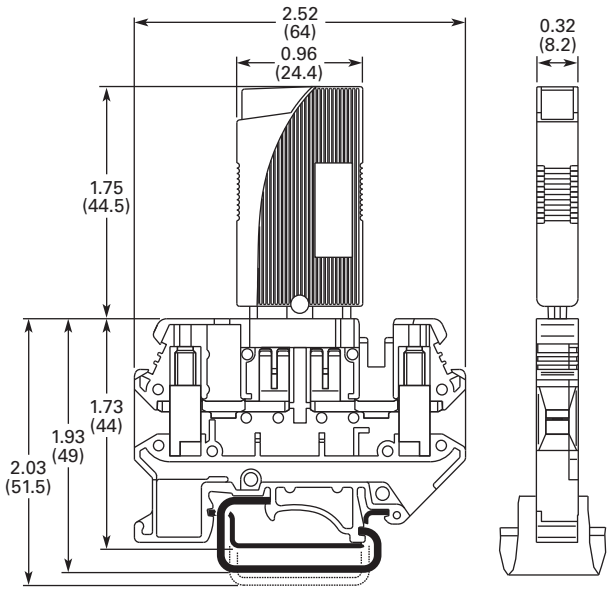
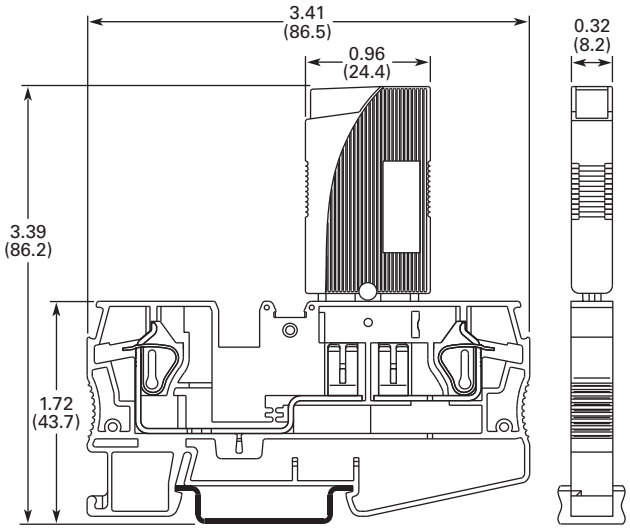
## Dimensions

Approximate Dimensions in Inches (mm)

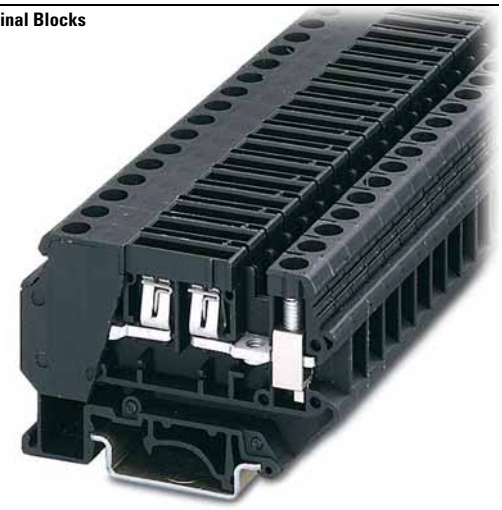
### XBUK6FSI with XBAT




### XBPT4FSI with XBAT



Flat-Type Fuse Terminal Blocks



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## Flat-Type Fuse Terminal Blocks

### Product Description

The fuse terminal blocks can be used as a basic terminal blocks for the XBAT overload miniature circuit breaker, see **Page V7-T8-83**.

### Product Selection

XBUK6FSI

#### Screw Connection Flat-Type Fuse Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Flat-Type Fuse Terminal Block** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | 250/—/24–8 | 300/30/26–8 | Black | 50 | **XBUK6FSI** |
| **Flat-Type Fuse Terminal Block with LED, Red 12 Vdc, 2.0 mA** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | 250/—/24–8 | 300/30/26–8 | Black | 50 | **XBUK6FSIL12** |
| **Flat-Type Fuse Terminal Block with LED, Red 24 Vdc, 2.0 mA** | | | | | | |
| 8.2 mm | 8 AWG/6 mm$^2$ | 250/—/24–8 | 300/30/26–8 | Black | 50 | **XBUK6FSIL24** |

### Accessories

#### Flat-Type Fuse Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBUK6FSI Catalog Number | XBUK6FSIL_ Catalog Number |
|---|---|---|---|---|---|
| Blank marker strip | White | — | 10 | **XBMZB8** ① | **XBMZB8** ① |

***Note***

① For information on Printed Marking Tag Options, see **Page V7-T8-98**.

## Technical Data and Specifications

### Flat-Type Fuse Terminal Blocks

| Description | XBUK6FSI | XBUK6FSIL_ |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Fuse type ISO | C | C |
| Maximum current with single arrangement in A | 30 | 30 |
| **Maximum Power Dissipation** | | |
| Rated surge voltage in kV/contamination class | 4/3 | 4/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–4 | 0.25–4 |
| Stranded with ferrule without plastic sleeve in $mm^2$ | 0.25–6 | 0.25–6 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | — | — |
| **Multi-Conductor Connection** (same cross-section) | | |
| Solid/stranded in $mm^2$ | 0.2–2.5/0.2–2.5 | 0.2–2.5/0.2–2.5 |
| Stranded with ferrules without plastic sleeve in $mm^2$ | 0.25–2.5 | 0.25–2.5 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5–4.0 | 0.5–4.0 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |
| Thread | M4 | M4 |
| Torque in in-lb (Nm) | 13.3–14.2 (1.5–1.6) | 13.3–14.2 (1.5–1.6) |

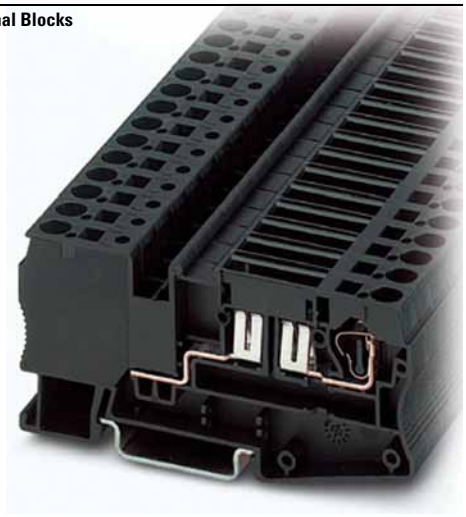
## Dimensions

Approximate Dimensions in Inches (mm)

### Flat-Type Fuse Terminal Blocks

| Catalog Number | Width | Length | Height for— 32 in | 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|---|
| **XBUK6FSI** | 0.32 (8.2) | 2.91 (74.0) | 2.24 (57.0) | 2.05 (52.0) | 2.34 (59.5) |
| **XBUK6FSIL12** | 0.32 (8.2) | 2.91 (74.0) | 2.24 (57.0) | 2.05 (52.0) | 2.34 (59.5) |
| **XBUK6FSIL24** | 0.32 (8.2) | 2.91 (74.0) | 2.24 (57.0) | 2.05 (52.0) | 2.34 (59.5) |

Spring Cage Fuse Terminal Blocks



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## Spring Cage Fuse Terminal Blocks

### Product Description

Flat-type fuses or the XBAT miniature circuit breaker (see **Page V7-T8-83**) can be used as the fuse element in these XBPT Spring Cage Fuse Terminal Blocks. Terminal blocks with a light indicator are available for quick error diagnosis.

### Product Selection

XBPT4FSI

#### Spring Cage Fuse Terminal Blocks

| Terminal Width | Maximum Wire Size | Connection Data in V/A/AWG | UL-cUL Ratings in V/A/AWG | Color | Standard Pack | Catalog Number |
|---|---|---|---|---|---|---|
| **Spring Cage Fuse Terminal Block** | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/30/28–10 | 300/30/24–10 | Black | 50 | **XBPT4FSI** |
| **Spring Cage Fuse Terminal Block with LED, Red 12 Vdc, 2.0 mA** | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/30/28–10 | 300/30/24–10 | Black | 50 | **XBPT4FSIL12** |
| **Spring Cage Fuse Terminal Block with LED, Red 24 Vdc, 2.0 mA** | | | | | | |
| 8.2 mm | 10 AWG/4 $mm^2$ | 400/30/28–10 | 300/30/24–10 | Black | 50 | **XBPT4FSIL24** |

### Accessories

#### Flat-Type Fuse Terminal Blocks

| Description | Color | Number of Positions | Standard Pack | XBPT4FSI Catalog Number | XBPT4FSIL_ Catalog Number |
|---|---|---|---|---|---|
| Test adapter | — | — | 10 | **XBATSPAI4** | **XBATSPAI4** |
| 2.3 mm diameter test plug | — | — | — | **XBATSMPS-_** ① | **XBATSMPS-_** ① |
| Modular test plug | — | — | 10 | **XBATSPS8** | **XBATSPS8** |
| Blank marker strip center and external marking | White | — | 10 | **XBMZBF8** ② | **XBMZBF8** ② |
| Blank marker strip center labeling (strip of 10) | White | — | 10 | **XBMZB8** ② | **XBMZB8** ② |

***Notes***

① For ordering information, see **Page V7-T8-103**.

② For information on Printed Marking Tag Options, see **Page V7-T8-98**.

## Technical Data and Specifications

### Flat-Type Fuse Terminal Blocks

| Description | XBPT4FSI | XBPT4FSIL_ |
|---|---|---|
| **Technical Data in Accordance with IEC** | | |
| Fuse type ISO | C | C |
| Maximum current with single arrangement in A | 30 | 30 |
| **Maximum Power Dissipation** | | |
| Rated surge voltage in kV/contamination class | 6/3 | 6/3 |
| Surge voltage category/insulating material group | III/I | III/I |
| **Connection Capacity** | | |
| Stranded with ferrule with plastic sleeve in $mm^2$ | 0.25–4 | 0.25–4 |
| Stranded with ferrule without plastic sleeve in $mm^2$ | 0.25–4 | 0.25–4 |
| Stranded with twin ferrule with plastic sleeve in $mm^2$ | 0.5 | 0.5 |
| Stripping length in inches (mm) | 0.39 (10) | 0.39 (10) |

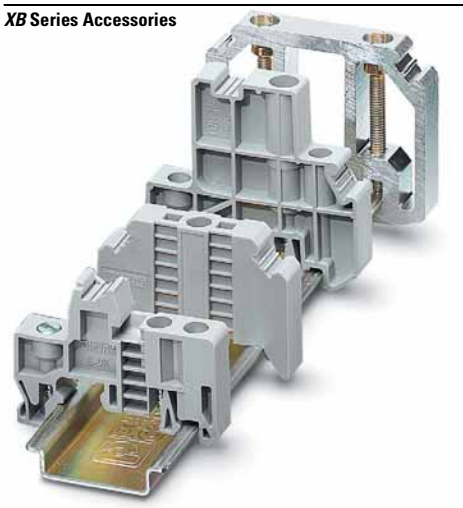
## Dimensions

Approximate Dimensions in Inches (mm)

### Flat-Type Fuse Terminal Blocks

| Catalog Number | Width | Length | Height for— 35 x 7.5 in | 35 x 15 in |
|---|---|---|---|---|
| **XBPT4FSI** | 0.32 (8.2) | 3.41 (86.5) | 1.71 (43.5) | 2.01 (51.0) |
| **XBPT4FSIL12** | 0.32 (8.2) | 3.41 (86.5) | 1.71 (43.5) | 2.01 (51.0) |
| **XBPT4FSIL24** | 0.32 (8.2) | 3.41 (86.5) | 1.71 (43.5) | 2.01 (51.0) |

***XB* Series Accessories**



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## *XB* Series Accessories Overview

### End Stops

The end stop provides an anchor point at each end of the rail assembly by attaching directly to the DIN rail. A wide range of end stop options are available, including those that mount with one or multiple screws and those that do not require screws for mounting. End stops also have a location for marking material to be placed.

### DIN Rail

Eaton offers ways for time-saving and secure mounting of components needed for electrical connections. DIN rail provides the basis for the inner design of the control cabinet and ensures a firm hold of the rail-mountable components. Eaton offers a wide range of standard DIN rails sizes and materials, solid or slotted. Or, contact us about custom lengths of pre-cut rail or ordering pre-drilled rail. The DIN rails are designed in accordance with the European standard EN 60715.

### Angled Mounting Brackets

Angled mounting brackets are used to mount DIN rail at a more accessible angle for wiring and troubleshooting.

### Ferrules

Ferrules are available with or without an insulating sleeve. The plastic insulating sleeve simplifies the fitting of the conductor and the color indicates the size of the cross-section. The closer the connections are, the more reliable the insulation is and the less likely the wires are to splice. Twin ferrules are also available allowing two wires to be easily compressed in one ferrule. Chain bridging, frequently used in industry, becomes easier with twin ferrules.

### Hand Tools

Eaton offers an array of hand tools to make it easier to work with our terminal blocks. The XBTCUTSTP tool is recommended for cutting and stripping PVC insulated wires. The ergonomically shaped crimping pliers, XBTCRMP66, result in fatigue-free work by spreading the manual force equally between the six jaws. The XBTDVR screwdrivers have a rotating cap that prevents user discomfort even at high torques and allows rapid rotation. The ergonomically shaped handle further aids the user's comfort. The blade is made from CVM steel, hardened and chrome-plated.

### Marking Accessories

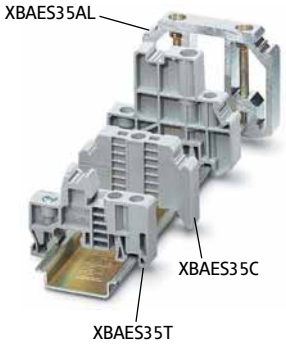
The marking system provides logical and clear identification of the modular terminal blocks and interface modules. The blank marker strip is designed for marking terminal blocks, equipment and smaller modules with marker grooves. The marker strip is available in all common pitches in printed and unprinted versions.

### Testing Accessories

The range of test accessories available includes different test plugs, so that an optimum solution can be realized for every application. In addition to pre-assembled test plugs, plugs are also available that can be configured individually to form test adapters.

## End Stops

### *Product Selection*




#### Snap-On End Stop (15 mm)

| Standard Pack | Catalog Number |
|---|---|
| 50 | **XBAES15N** |

#### Snap-On End Stop (35 mm)

| Standard Pack | Catalog Number |
|---|---|
| 50 | **XBAES35N** |

Snap-on end stops for 35 mm and 15 mm DIN rails can be fitted with blank marker strips and adjustable terminal strip markers, parking facility for bridges and testing accessories.

#### Universal End Stop (15 mm)

| Standard Pack | Catalog Number |
|---|---|
| 50 | **XBAES15C** |

#### Universal End Stop (35 mm)

| Standard Pack | Catalog Number |
|---|---|
| 50 | **XBAES35T** |
| 50 | **XBAES35C** |

Screwed on, labeling with blank marker strips and terminal strip markers.

#### Aluminum End

| Standard Pack | Catalog Number |
|---|---|
| 10 | **XBAES35AL** |

Snaps on, for end support of 50–240 mm terminal blocks, labeling with XBMZB10.

#### Cross-Reference of Terminal Blocks Marking, End Stops

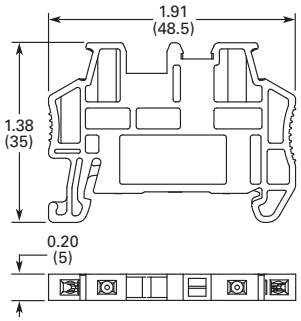
| Catalog Number | XBMKLM2 | XBMGLMA | XBMUBE |
|---|---|---|---|
| **XBAES35N** | X | — | — |
| **XBAES35T** | — | X | X |

### *Dimensions*

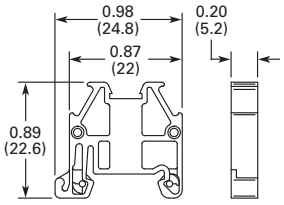
Approximate Dimensions in Inches (mm)

#### Snap-On End Stop

**XBAES35N**

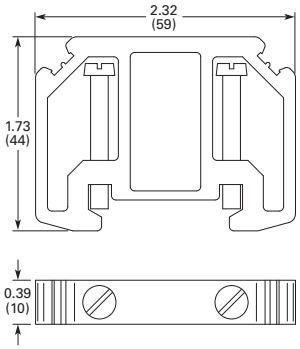



**XBAES15N**



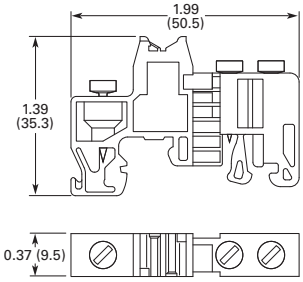

#### Aluminum End Stop

**XBAES35AL**

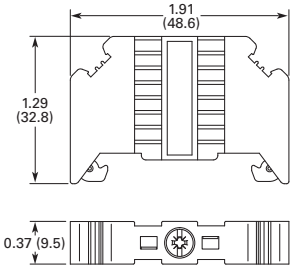



#### Universal End Stop

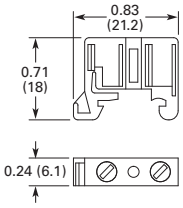
**XBAES35T**




**XBAES35C**




**XBAES15C**



## DIN Rails

### *Product Selection*

Perforated and unperforated DIN rails in accordance with E 60715.

**Features**

- High dimensional accuracy
- Restricted tolerances
- Double surface tempering, galvanized and chromated
- All 2m in length
- Customization available

**35 x 7.5 mm x 2m**

| Standard Pack | Catalog Number |
|---|---|
| **Slotted** | |
| 25 | **XBANS3575P** |
| **Solid** | |
| 25 | **XBANS3575U** |

**35 x 15 mm x 2m**

| Standard Pack | Catalog Number |
|---|---|
| **Slotted** | |
| 25 | **XBANS3515P** |
| **Solid** | |
| 25 | **XBANS3515U** |

**15 x 5.5 mm x 2m**

| Standard Pack | Catalog Number |
|---|---|
| 25 | **XBANS15P** |

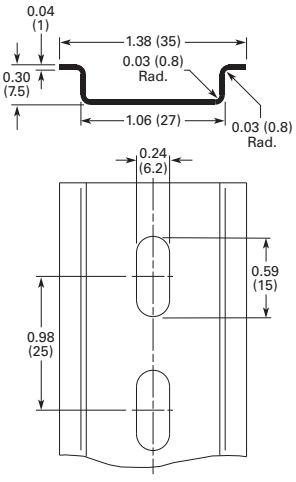
**Aluminum DIN Rails (Perforated)**

| Standard Pack | Catalog Number |
|---|---|
| **35/7.5/2m** | |
| 25 | **XBANS3575PL** |
| **35/58/2m** | |
| 6 | **XBANS35PL** |

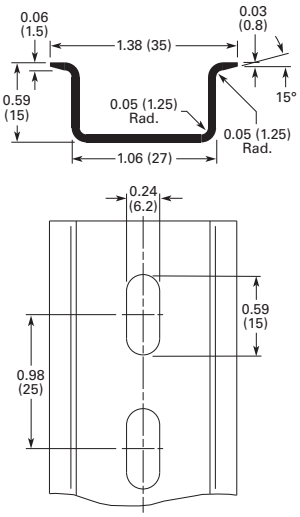
### *Dimensions*

Approximate Dimensions in Inches (mm)

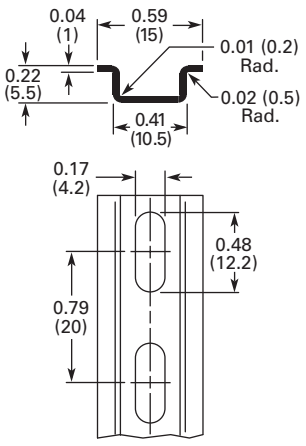
**35 x 7.5 mm DIN Rail**



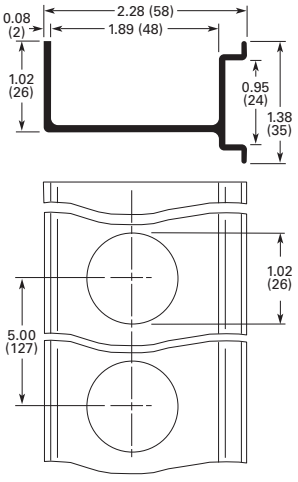

**35 x 15 mm DIN Rail**




**15 x 5.5 mm x 2m DIN Rail**




**XBANS35PL Raised Rail**



## Angled Mounting Brackets

### *Product Selection*

The angled brackets enable the DIN rail to be mounted with a spacing or at an angle of 30°.

**Features**

- For mounting DIN rail at 30° angle
- For use with M6 screw
- Chromated steel
- Provides better visibility

**Angled Mounting Bracket**

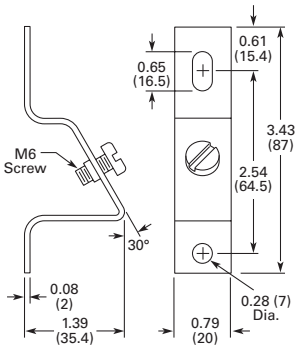
| Standard Pack | Catalog Number |
|---|---|
| **Height Inches (mm) 1.39 (35.4)** | |
| 10 | **XBANBGS** |
| **Height Inches (mm) 1.81 (46)** | |
| 10 | **XBANBGSH** |



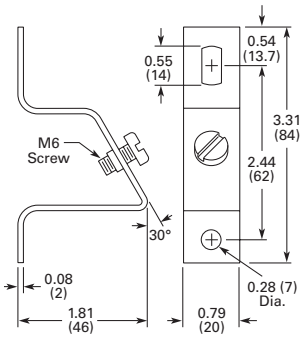
### *Dimensions*

Approximate Dimensions in Inches (mm)

**XBANBGS**




**XBANBGSH**



## Ferrules

### *Product Selection*

Ferrules are offered in two basic designs—an insulated style available in models for wire sizes 20 through 4 AWG and a non-insulated type available in models for wire sizes 22 through 6 AWG.

**Note:** UL Ratings do not typically pertain to the use of Ferrules—Ferrules are covered under DIN VDE 0611.

### Insulated

- Tube: soft electrolytic copper (E-CU), tin plated
- Plastic sleeve: polypropylene
  - Long-term temperature 105°C
  - Short-term temperature 120°C

**XBAF1**

#### Insulated Ferrules

| Wire Size AWG ($mm^2$) | Color ① | Standard Pack ② | Catalog Number |
|---|---|---|---|
| 20 (0.5) | White | 100 | **XBAF1** |
| 18 (0.75) | Gray | 100 | **XBAF3** |
| 18 (1) | Red | 100 | **XBAF4** |
| 16 (1.5) | Black | 100 | **XBAF6** |
| 14 (2.5) | Blue | 100 | **XBAF9** |
| 14 (2.5) | Blue | 100 | **XBAF10** |
| 12 (4) | Gray | 100 | **XBAF11** |
| 12 (4) | Gray | 100 | **XBAF12** |
| 10 (6) | Yellow | 100 | **XBAF13** |
| 10 (6) | Yellow | 100 | **XBAF14** |
| 8 (10) | Red | 100 | **XBAF15** |
| 8 (10) | Red | 100 | **XBAF16** |
| 6 (16) | Blue | 100 | **XBAF17** |
| 6 (16) | Blue | 100 | **XBAF18** |
| 4 (25) | Yellow | 100 | **XBAF19** |

### Non-Insulated

- Tube: soft electrolytic copper (E-CU), tin plated

**XBAF20**

#### Non-Insulated Ferrules

| Wire Size AWG ($mm^2$) | Standard Pack ② | Catalog Number |
|---|---|---|
| 20 (0.5) | 100 | **XBAF20** |
| 18 (0.75) | 100 | **XBAF21** |
| 18 (1) | 100 | **XBAF23** |
| 16 (1.5) | 100 | **XBAF24** |
| 14 (2.5) | 100 | **XBAF25** |
| 12 (4) | 100 | **XBAF26** |
| 10 (6) | 100 | **XBAF27** |
| 8 (10) | 100 | **XBAF28** |
| 6 (16) | 100 | **XBAF29** |

### Special Applications

The twin ferrules allow two conductors to be compressed practically in one ferrule.

The colored coding of the various cross sections corresponds to DIN 46 228-4.

**XBAFT1**

#### Non-Insulated Twin Ferrules

| Wire Size AWG ($mm^2$) | Color ① | Standard Pack ② | Catalog Number |
|---|---|---|---|
| 20 (0.5) | White | 100 | **XBAFT1** |
| 18 (0.75) | Gray | 100 | **XBAFT3** |
| 18 (1) | Red | 100 | **XBAFT4** |
| 16 (1.5) | Black | 100 | **XBAFT6** |
| 14 (2.5) | Blue | 100 | **XBAFT9** |
| 12 (4) | Gray | 100 | **XBAFT11** |
| 10 (6) | Yellow | 100 | **XBAFT13** |
| 8 (10) | Red | 100 | **XBAFT15** |
| 6 (16) | Blue | 100 | **XBAFT18** |

***Notes***

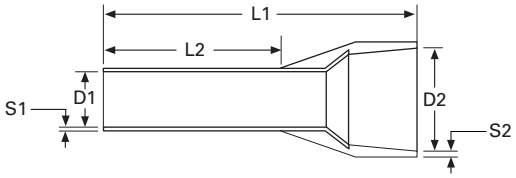
① The colored coding of the various cross-sections corresponds to DIN 46 228-4.

② Standard pack is the number of ferrules that come in each bag. Must order in multiples of standard pack.
*Example*: **XBAF1**—an order for 200 pieces will receive 2 bags of ferrules, each with 100 pieces.

***Dimensions***

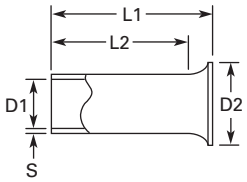
Approximate Dimensions in Inches (mm)

## Ferrules with Insulating Collar




| Catalog Number | Approximate Dimensions D1 | D2 | L1 | L2 | S1 | S2 |
|---|---|---|---|---|---|---|
| **XBAF1** | 0.04 (1.1) | 0.10 (2.5) | 0.55 (14.0) | 0.31 (8.0) | 0.006 (0.15) | 0.010 (0.25) |
| **XBAF3** | 0.05 (1.3) | 0.11 (2.8) | 0.55 (14.0) | 0.31 (8.0) | 0.006 (0.15) | 0.010 (0.25) |
| **XBAF4** | 0.06 (1.5) | 0.12 (3.0) | 0.55 (14.0) | 0.31 (8.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAF6** | 0.07 (1.8) | 0.13 (3.4) | 0.55 (14.0) | 0.31 (8.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAF9** | 0.09 (2.3) | 0.17 (4.2) | 0.55 (14.0) | 0.31 (8.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAF10** | 0.09 (2.3) | 0.17 (4.2) | 0.94 (24.0) | 0.71 (18.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAF11** | 0.11 (2.8) | 0.19 (4.8) | 0.67 (17.0) | 0.39 (10.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF12** | 0.11 (2.8) | 0.19 (4.8) | 1.02 (26.0) | 0.71 (18.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF13** | 0.14 (3.5) | 0.24 (6.2) | 0.79 (20.0) | 0.47 (12.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF14** | 0.14 (3.5) | 0.24 (6.2) | 1.02 (26.0) | 0.71 (18.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF15** | 0.18 (4.6) | 0.30 (7.5) | 0.87 (22.0) | 0.47 (12.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF16** | 0.18 (4.6) | 0.30 (7.5) | 1.10 (28.0) | 0.71 (18.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAF17** | 0.23 (5.8) | 0.35 (8.8) | 0.94 (24.0) | 0.47 (12.0) | 0.008 (0.20) | 0.016 (0.40) |
| **XBAF18** | 0.23 (5.8) | 0.35 (8.8) | 1.10 (28.0) | 0.71 (18.0) | 0.008 (0.20) | 0.016 (0.40) |
| **XBAF19** | 0.29 (7.3) | 0.43 (11.0) | 1.26 (32.0) | 0.71 (18.0) | 0.008 (0.20) | 0.020 (0.50) |

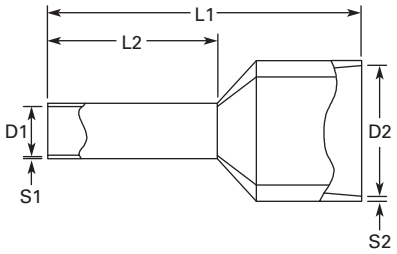
## Ferrules without Insulating Collar




| Catalog Number | Approximate Dimensions D1 | D2 | L1 | L2 | S |
|---|---|---|---|---|---|
| **XBAF20** | 0.04 (1.0) | 0.08 (2.1) | 0.24 (6.0) | 0.21 (5.3) | 0.006 (0.15) |
| **XBAF21** | 0.05 (1.2) | 0.09 (2.3) | 0.24 (6.0) | 0.21 (5.3) | 0.006 (0.15) |
| **XBAF23** | 0.06 (1.4) | 0.10 (2.5) | 0.24 (6.0) | 0.21 (5.3) | 0.006 (0.15) |
| **XBAF24** | 0.07 (1.7) | 0.11 (2.8) | 0.28 (7.0) | 0.24 (6.0) | 0.006 (0.15) |
| **XBAF25** | 0.09 (2.2) | 0.13 (3.4) | 0.28 (7.0) | 0.24 (6.0) | 0.006 (0.15) |
| **XBAF26** | 0.11 (2.8) | 0.16 (4.0) | 0.35 (9.0) | 0.31 (8.0) | 0.008 (0.20) |
| **XBAF27** | 0.14 (3.5) | 0.19 (4.7) | 0.47 (12.0) | 0.35 (9.0) | 0.008 (0.20) |
| **XBAF28** | 0.18 (4.5) | 0.23 (5.8) | 0.47 (12.0) | 0.43 (10.8) | 0.008 (0.20) |
| **XBAF29** | 0.23 (5.8) | 0.30 (7.5) | 0.47 (12.0) | 0.41 (10.5) | 0.008 (0.20) |

Approximate Dimensions in Inches (mm)

## Twin Ferrules






| Catalog Number | Approximate Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | D1 | D2 | L1 | L2 | S1 | S2 |
| **XBAFT1** | 0.06 (1.5) | 0.10 (2.5) | 0.59 (15.0) | 0.31 (8.0) | 0.006 (0.15) | 0.010 (0.25) |
| **XBAFT3** | 0.07 (1.8) | 0.11 (2.8) | 0.59 (15.0) | 0.31 (8.0) | 0.006 (0.15) | 0.010 (0.25) |
| **XBAFT4** | 0.08 (2.1) | 0.13 (3.4) | 0.59 (15.0) | 0.31 (8.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAFT6** | 0.09 (2.3) | 0.14 (3.6) | 0.63 (16.0) | 0.31 (8.0) | 0.006 (0.15) | 0.012 (0.30) |
| **XBAFT9** | 0.11 (2.9) | 0.17 (4.2) | 0.73 (18.5) | 0.39 (10.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAFT11** | 0.15 (3.8) | 0.19 (4.9) | 0.91 (23.0) | 0.47 (12.0) | 0.008 (0.20) | 0.012 (0.30) |
| **XBAFT13** | 0.19 (4.9) | 0.23 (5.9) | 0.98 (25.0) | 0.55 (14.0) | 0.008 (0.20) | 0.016 (0.40) |
| **XBAFT15** | 0.26 (6.5) | 0.28 (7.2) | 1.02 (26.0) | 0.55 (14.0) | 0.008 (0.20) | 0.016 (0.40) |
| **XBAFT18** | 0.33 (8.5) | 0.35 (8.8) | 1.22 (31.0) | 0.63 (16.0) | 0.008 (0.20) | 0.020 (0.50) |

## Hand Tools

### *Stripping Tools*

#### Product Selection

**Stripping Tools**

| Standard Pack | Catalog Number |
|---|---|
| 1 | **XBTCUTSTP** |

#### Technical Data and Specifications

**Conductor/Cable Stripping Range**

| Description | Specification |
|---|---|
| Conductor/cable | 0.2–6 $mm^2$/24–10 AWG |
| Wire cutter | 6 $mm^2$/10 AWG |

#### Dimensions

Approximate Dimensions in Inches (mm)

**Stripping Tools**

| Length | Stripping Length | Weight In lbs (g) |
|---|---|---|
| 8.07 (205) | Up to 18 mm | 0.44 (200) |

### *Slotted Screwdrivers*

The crimping pliers deform the ferrules hexagonally. For 0.25–6 $mm^2$ ferrules in accordance with DIN 46 228-1: 1992-08 and DIN 46 228-4: 1990-09.

#### Product Selection

**Slotted Screwdrivers**

| Standard Pack | Catalog Number |
|---|---|
| **3.5 mm** | |
| 1 | **XBTDVR35** |
| **4.0 mm** | |
| 1 | **XBTDVR40** |

8

## Marking Accessories

### *Printed Marking Tag Options*

#### Horizontally Printed Marking Tags and Marking Directions

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

Marking Direction: Horizontal

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|

Marking Direction: Vertical



#### Marking Tags for 5.2 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB5 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB5V/1** |
| 10 | 11–20 | **XBMZB5V/11** |
| 10 | 21–30 | **XBMZB5V/21** |
| 10 | 31–40 | **XBMZB5V/31** |
| 10 | 41–50 | **XBMZB5V/41** |
| 10 | 51–60 | **XBMZB5V/51** |
| 10 | 61–70 | **XBMZB5V/61** |
| 10 | 71–80 | **XBMZB5V/71** |
| 10 | 81–90 | **XBMZB5V/81** |
| 10 | 91–100 | **XBMZB5V/91** |
| **ZBF5 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF5V/1** |
| 10 | 11–20 | **XBMZBF5V/11** |
| 10 | 21–30 | **XBMZBF5V/21** |
| 10 | 31–40 | **XBMZBF5V/31** |
| 10 | 41–50 | **XBMZBF5V/41** |
| 10 | 51–60 | **XBMZBF5V/51** |
| 10 | 61–70 | **XBMZBF5V/61** |
| 10 | 71–80 | **XBMZBF5V/71** |
| 10 | 81–90 | **XBMZBF5V/81** |
| 10 | 91–100 | **XBMZBF5V/91** |

#### Marking Tags for 6.2 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB6 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB6V/1** |
| 10 | 11–20 | **XBMZB6V/11** |
| 10 | 21–30 | **XBMZB6V/21** |
| 10 | 31–40 | **XBMZB6V/31** |
| 10 | 41–50 | **XBMZB6V/41** |
| 10 | 51–60 | **XBMZB6V/51** |
| 10 | 61–70 | **XBMZB6V/61** |
| 10 | 71–80 | **XBMZB6V/71** |
| 10 | 81–90 | **XBMZB6V/81** |
| 10 | 91–100 | **XBMZB6V/91** |
| **ZBF6 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF6V/1** |
| 10 | 11–20 | **XBMZBF6V/11** |
| 10 | 21–30 | **XBMZBF6V/21** |
| 10 | 31–40 | **XBMZBF6V/31** |
| 10 | 41–50 | **XBMZBF6V/41** |
| 10 | 51–60 | **XBMZBF6V/51** |
| 10 | 61–70 | **XBMZBF6V/61** |
| 10 | 71–80 | **XBMZBF6V/71** |
| 10 | 81–90 | **XBMZBF6V/81** |
| 10 | 91–100 | **XBMZBF6V/91** |

***Note***

① For text printed horizontally, change "V" in catalog number to "H."

## Marking Tags for 8.2 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB8 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB8V/1** |
| 10 | 11–20 | **XBMZB8V/11** |
| 10 | 21–30 | **XBMZB8V/21** |
| 10 | 31–40 | **XBMZB8V/31** |
| 10 | 41–50 | **XBMZB8V/41** |
| 10 | 51–60 | **XBMZB6V/51** |
| 10 | 61–70 | **XBMZB8V/61** |
| 10 | 71–80 | **XBMZB8V/71** |
| 10 | 81–90 | **XBMZB8V/81** |
| 10 | 91–100 | **XBMZB8V/91** |
| **ZBF8 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF8V/1** |
| 10 | 11–20 | **XBMZBF8V/11** |
| 10 | 21–30 | **XBMZBF8V/21** |
| 10 | 31–40 | **XBMZBF8V/31** |
| 10 | 41–50 | **XBMZBF8V/41** |
| 10 | 51–60 | **XBMZBF8V/51** |
| 10 | 61–70 | **XBMZBF8V/61** |
| 10 | 71–80 | **XBMZBF8V/71** |
| 10 | 81–90 | **XBMZBF8V/81** |
| 10 | 91–100 | **XBMZBF8V/91** |

## Marking Tags for 10.2 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB10 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB10V/1** |
| 10 | 11–20 | **XBMZB10V/11** |
| 10 | 21–30 | **XBMZB10V/21** |
| **ZBF10 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF10V/1** |
| 10 | 11–20 | **XBMZBF10V/11** |
| 10 | 21–30 | **XBMZBF10V/21** |

## Marking Tags for 12 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB12 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB12V/1** |
| 10 | 11–20 | **XBMZB12V/11** |
| 10 | 21–30 | **XBMZB12V/21** |
| **ZBF12 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF12V/1** |
| 10 | 11–20 | **XBMZBF12V/11** |
| 10 | 21–30 | **XBMZBF12V/21** |

## Marking Tags for 16 mm Wide Terminal Blocks

| Standard Pack | Number Sequence | Catalog Number |
|---|---|---|
| **ZB15 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZB15V/1** |
| 10 | 11–20 | **XBMZB15V/11** |
| 10 | 21–30 | **XBMZB15V/21** |
| **ZBF15 Tags Vertically Numbered** | | |
| 10 | 1–10 ① | **XBMZBF15V/1** |
| 10 | 11–20 | **XBMZBF15V/11** |
| 10 | 21–30 | **XBMZBF15V/21** |

***Note***

① For text printed horizontally, change "V" in catalog number to "H."

### *Pre-Printed Marking Tags*

**Terminal Blocks Marking Tags**

The tags are made of white self-extinguishing polyamide 6.6 and the imprint is hot stamped with rubproof black ink.

- White marking strip available preprinted. Strip covers 10 terminals. Marking 1–10, 11–20, up to 991–999. Contact Eaton for more options.
  - XBMZB5 or XBMZBF5 for terminal blocks 5.2 mm wide
  - XBMZB6 or XBMZBF6 for terminal blocks 6.2 mm wide
  - XBMZB8 or XBMZBF8 for terminal blocks 8.2 mm wide
  - XBMZB10 or XBMZBF10 for terminal blocks 10.2 mm wide
  - XBMZB12 or XBMZBF12 for terminal blocks 12 mm wide
  - XBMZB15 or XBMZBF15 for terminal blocks 16 mm wide



### *Marking Tag Sizes*

**Note:** Marking Tag Sizes are for all catalog numbers starting with given prefix, EXCEPT FUSE TERMINAL Blocks.

#### Proper Marking Tag Size

| XBMZB5 | XBMZBF5 | XBMZB6 | XBMZBF6 | XBMZB8 | XBMZBF8 | XBMZB10 | XBMZBF10 | XBMZB12 | XBMZBF12 | XBMZB15 | XBMZBF15 | XBMSSZB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XBUT25 | XBPT25 ② | XBUT4 | XBPT4 ② | XBUT6 | XBPT6 ② | XBUT10 | XBPT10 ② | XBPT16 ① | XBPT16 ② | XBUT35 | XBPT35 ② | XBMKLMZ |
| XBUT4FBE ① | XBPTT25 | XBUTT4 | XBPTT4 | XBPT6 ① | XBPT4FBN ② | XBUT16 | — | — | — | XBPT35 ① | — | — |
| XBUT6FBN ① | XBPTK | XB3UKA | XBPT4FBE ② | XBUK6 | XBPT4FSI ② | XBTK | — | — | — | — | — | — |
| XBPT25 ① | XBPU25 ② | XB3UKF | XBQT25 ③ | XBPT4FSI ① | — | XBUK50 | — | — | — | — | — | — |
| XBPT4FBE ① | XBAP … | XBUT4FBE ② | XBQT25FBE ③ | — | — | XBUK150 | — | — | — | — | — | — |
| XBPU25 ① | XBQT15 ③ | XBUT6FBN ② | XBQU25 ③ | — | — | XBUK95 | — | — | — | — | — | — |
| XBQT15 ① | XBQTT15 | XBUK10 | — | — | — | XBPT10 ① | — | — | — | — | — | — |
| XBQT25FBE ④ | XBQU15 ③ | XBUKK4 | — | — | — | XBMKLMZ ⑤ | — | — | — | — | — | — |
| XBQU15 ① | XBMPK15 | XBPT4 ① | — | — | — | — | — | — | — | — | — | — |
| XBMUK25 | XBMPKK15 | XBPT4FBN ① | — | — | — | — | — | — | — | — | — | — |
| — | XBATCP… | XBQT25 ① | — | — | — | — | — | — | — | — | — | — |
| — | — | XBQT25FBE ① | — | — | — | — | — | — | — | — | — | — |
| — | — | XBQU25 ① | — | — | — | — | — | — | — | — | — | — |
| — | — | XBMUK4 | — | — | — | — | — | — | — | — | — | — |

***Notes***

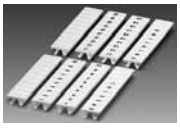
① For center labeling.
② For external labeling.
③ For center and outside labeling.
④ For lever labeling.
⑤ Two (2) XBMZB10 tags fit in one (1) XBMKLMZ.

### *Marker Strips and Sheets (for use with plotter)*

The ***XB*** Series marking system provides logical and clear identification of the modular terminal blocks and interface modules.

**Product Selection**

**XBMZB_**



#### Marker Strips (Strip of 10)

| Terminal Width | Standard Pack | Catalog Number |
|---|---|---|
| **Blank Strips** | | |
| 5.2 mm | 10 | **XBMZB5** |
| 6.2 mm | 10 | **XBMZB6** |
| 8.2 mm | 10 | **XBMZB8** |
| 10.2 mm | 10 | **XBMZB10** |
| 12 mm | 10 | **XBMZB12** |
| 16 mm | 10 | **XBMZB15** ① |
| **Flat Strips** | | |
| 5.2 mm | 10 | **XBMZBF5** |
| 6.2 mm | 10 | **XBMZBF6** |
| 8.2 mm | 10 | **XBMZBF8** |
| 10.2 mm | 10 | **XBMZBF10** |
| 12 mm | 10 | **XBMZBF12** |
| 16 mm | 10 | **XBMZBF15** |

**XBMPZB_**

#### Marker Sheets (Strip of 10)

| Terminal Width) | Color | Standard Pack | Catalog Number |
|---|---|---|---|
| **Marker Sheets (10 rows of 12)** | | | |
| 5.2 mm | White | 50 | **XBMPZB5** |
| | Blue | 50 | **XBMPZB5BU** |
| | Red | 50 | **XBMPZB5RD** |
| | Yellow | 50 | **XBMPZB5YE** |
| | Green | 50 | **XBMPZB5GN** |
| **Marker Sheets (10 rows of 10)** | | | |
| 6.2 mm | White | 50 | **XBMPZB6** |
| | Blue | 50 | **XBMPZB6BU** |
| | Red | 50 | **XBMPZB6RD** |
| | Yellow | 50 | **XBMPZB6YE** |
| | Green | 50 | **XBMPZB6GN** |

**XBMPZBF_**

| | | | |
|---|---|---|---|
| **Flat Marker Sheets (10 rows of 10)** | | | |
| 5.2 mm | White | 10 | **XBMPZBF5** |
| | Orange | 10 | **XBMPZBF5OG** |
| | White | 10 | **XBMPZBF6** |
| | Orange | 10 | **XBMPZBF6OG** |
| | White | 10 | **XBMPZBF8** |

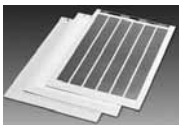
### *Label Sheets for Laser Printers*

The XBM labels have been specially developed for laser printers and have considerable advantages:

- Can be printed on all commercially available laser printers
- Or can use plotter or pen for printing
- Good adhesive properties
- A4 size
- XBMKL25X12WH designed to fit XBGBS2512 group marker
- XBMLMAL447 is perforated for terminal strip marker XBMGLMA and is 44 x 7 mm

**Product Selection**

**XBM_**



#### Label Sheets

| Standard Pack | Catalog Number |
|---|---|
| 10 | **XBMKL25X12WH** |
| 10 | **XBMLMAL447** |

***Note***

① All markers are strips of 10, except XBMZB15, which is a strip of 5.

### *Terminal Block Group Marking*

Terminal block groups are marked using marking labels that are snapped into the marker strip groove of the terminal blocks. The group is marked using either labels or insert markers.

**Product Selection**

**XBGBS2512**

**Terminal Block Group Marking** ①

| Standard Pack | Catalog Number |
|---|---|
| 100 | **XBGBS2512** |

### *Terminal Strip Markers*

Adjustable height for end bracket labeling.

**Product Selection**

**XBM_**

**Terminal Strip Markers** ①

| Standard Pack | Catalog Number |
|---|---|
| **20 x 8 mm Wide** | |
| 10 | **XBMKLM2** |
| **44 x 7 mm Wide** | |
| 10 | **XBMGLMA** |

### *Terminal Strip Marker Carriers*

For labeling terminal groups, for mounting on DIN rail. Lettering field is 40 x 17 mm.

**Product Selection**

**XBMUB_**

**Terminal Strip Marker Carriers**

| Standard Pack | Catalog Number |
|---|---|
| 10 | **XBMUBE** |
| 10 | **XBMUBED** |

### *Insert Markers for Laser Printers*

One sheet = 56 labels. Lettering field is 40 x 17 mm.

**Product Selection**

**XBMUBEL4017**

**Insert Markers for XBMUBE(D)**

| Standard Pack | Catalog Number |
|---|---|
| 10 | **XBMUBEL4017** |

### *Refillable Marker Pen*

Refillable marker pen for manual labeling, line thickness 0.35 mm.

**Product Selection**

**XBMXPEN**

**Terminal Strip Marker Pen** ①

| Standard Pack | Catalog Number |
|---|---|
| 1 | **XBMXPEN** |

### *Non-Refillable Marker Pen*

For manual labeling, line thickness 0.5 mm.

**Product Selection**

**XBMUBE**

**Non-Refillable Marker Pen**

| Standard Pack | Catalog Number |
|---|---|
| 1 | **XBMBSTIFT** |

***Note***

① See **Page V7-T8-101** for insert labels.

## Testing Accessories

### *Test Adapter*

For 4 mm diameter test plug and 4 mm diameter safety test plug. Makes contact in the bridge shaft.

**Product Selection**

**XBATSPAI4**

**Test Adapter**

| Standard Pack | Catalog Number |
|---|---|
| 1 | **XBATSPAI4** |

### *Modular Test Plugs*

For individual assembly of test plug strips.

**Product Selection**

**XBATS_**

**Modular Test Plugs**

| Standard Pack | Catalog Number |
|---|---|
| **Test Plugs** | |
| 10 | **XBATSPS5** |
| 10 | **XBATSPS6** |
| 10 | **XBATSPS8** |
| **Spacer Plate** | |
| 10 | **XBATSDPPS5** |
| 10 | **XBATSDPPS6** |
| 10 | **XBATSDPPS8** |

### *Test Plugs*

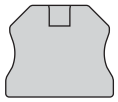
Consisting of metal part for socket hole and insulating sleeve.

**Product Selection**

**Test Plugs**

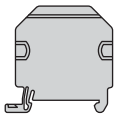
| | Standard Pack | | Catalog Number |
|---|---|---|---|
| **XBATSMP_** | **2.3 mm** | | |
| | 10 | — | **XBATSMPSMT** |
| | 10 | Blue | **XBATSMPSIHBU** |
| | 10 | White | **XBATSMPSIHWH** |
| | 10 | Red | **XBATSMPSIHRD** |
| | 10 | Black | **XBATSMPSIHBK** |
| **XBATSMP_** | **4 mm** | | |
| | 10 | — | **XBATSPSMT** |
| | 10 | Blue | **XBATSPSIHBU** |
| | 10 | White | **XBATSPSIHWH** |
| | 10 | Red | **XBATSPSIHRD** |
| | 10 | Black | **XBATSPSIHBK** |

## Separating Plates, Covers and Bridges



### *End Cover*

Used to cover an open end of terminal block when changing sizes within an assembly and/or for last terminal block in a row.

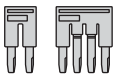


### *Partition Plate*

Protrudes over the terminal block and is used to increase electrical clearance between terminals. Also provides visual indications of the functions of terminal blocks. For example, terminal blocks between two partition plates may provide an exact location for test points.

### *End Cover Segment*

Covers protruding terminal block segments of three- and four-wire terminal blocks when next to a two wire blocks. This ensures that all is touch-proof and saves space over using a standard end cover.



### *Jumper/Bridge*

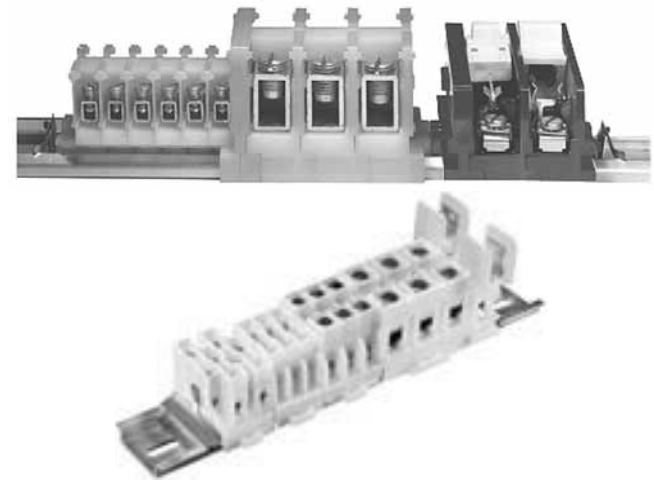
Provides the ability to electrically connect terminal blocks. Non-adjacent blocks may be bridged by snapping off the contact tabs of the standard bridge. The reducing bridge permits simple connection of terminal blocks with different nominal cross-sections.

***Note***

See these accessories as listed with terminal blocks for more information.

8

**NEMA**





## Contents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| TB Series Terminal Blocks, Modular . . . . . | **V7-T8-109** |


## NEMA Overview

### Product Description

NEMA terminal blocks provide a panel or DIN rail mount block that can be assembled from modular pieces. These blocks accommodate wire from 22 to 1/0 AWG and up to 175A and 600V.

### Standards and Certifications

- UL File #E67464 and #E56797

C381 Series Terminal Blocks, Rail Mounted

## Contents


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## C381 Series Terminal Blocks, Rail Mounted

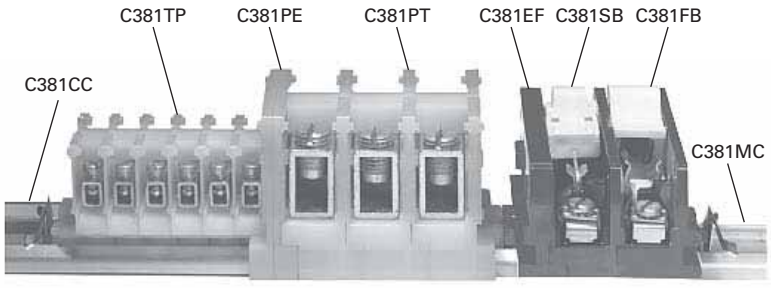
### Product Description

- 600V
- Snap-fit nylon sections
  - Control circuit blocks
  - Power circuit blocks
  - Fuse blocks
  - Switch blocks
- Sections can be interlocked in any quantity and any mixture for direct panel mounting or channel mounting
- Three terminal choices in control circuit blocks, up to 32 circuits per foot
- Power circuit blocks for heavy-duty applications, up to 16 circuits per foot
- Fuse blocks accommodate any 0.406 x 1.5 in (10.3 x 38.1 mm) ferrule type cartridge fuse up to 30A
- Switch blocks have removable blade for extra safety

### Standards and Certifications

- UL File #E67464

### A Typical Mixture of Control Circuit Blocks, Power Blocks, Switch and Fuse Blocks in a Mounting Channel



## Product Selection

***When Ordering Specify***

Catalog number and quantity, which must be in a multiple of the available minimum standard package.

*Examples*:
- 200 Cat. No. C381ST
- 20 Cat. No. C381PT
- 100 Cat. No. C381CC

Catalog number and quantity of end sections also in minimum quantity standard package.

*Example*:
- 25 Cat. No. C381ES

### Control, Power, Switch and Fuse Blocks ①

| | Description | AWG Wire Size | Standard Pack ② | Catalog Number |
|---|---|---|---|---|
| | **Control Circuit Terminal Blocks—Rated 50A** | | | |
| **C381ST** | Type ST (screw terminal) | 22–14 AWG | 100 | **C381ST** |
| **C381TP** | Type TP (tubular pressure plt) | 22–10 | 100 | **C381TP** |
| **C381TS** | Type TS (tubular screw) end section | 18–8 | 100 | **C381TS** |
| **C381ES** | End section | — | 25 | **C381ES** |
| | **Power Circuit Terminal Blocks—Rated 155A** | | | |
| **C381PT** | Type PT (tubular screw) | 10–1/0 | 10 | **C381PT** |
| **C381PE** | End section | — | 10 | **C381PE** |
| | **Switch Blocks—Rated 15A and Fuse Blocks—Rated 30A** | | | |
| **C381SB** | Switch blocks | 18–8 | 10 | **C381SB** |
| **C381FB** | Fuse blocks | 18–8 | 10 | **C381FB** |
| **C381EF** | End section | — | 10 | **C381EF** |

***Notes***

① Available only in minimum quantity standard packages.

② Must be ordered in standard package quantity or in multiples of these quantities.

## Accessories

### C381 Series Terminal Blocks, Rail Mounted ①

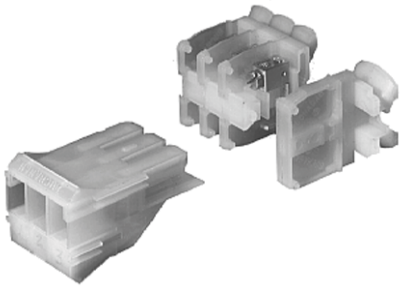
| Description | Standard Pack ② | Catalog Number |
|---|---|---|
| Aluminum mounting channel—6 ft (1.8m) lengths | 25 | **C381MC** |
| Screw type channel clamp (one required each end) ③ | 100 | **C381VC** |
| Spring type channel clamp (one required each end) ③ | 100 | **C381CC** |
| Vinyl marking strip—3/8 in x 25 ft (9.5 mm x 7.6m) coil | 1 | **C381MS** |
| Marking paper—pressure sensitive—5/16 x 11-11/16 in (7.9 x 296.9 mm), 24 strips/sheet | 5 sheets | **C381MP** |
| Marking strip retainer (one required/grouping) | | |
| For use on control circuit blocks | 100 | **C381SR** |
| For use on power circuit blocks | 100 | **C381SP** |
| Fanning strip—for type TP and/or TS | 50 | **C381TF** |
| Fanning strip—for type ST | 50 | **C381SF** |
| Terminal jumper (two-pole) ④ | 100 | **C381TJ** |
| Ganging rod—1/8 in x 6 in (3.2 mm x 152.4 mm) ⑤ | 10 | **C381GR** |

## Modifications

### Pull Apart Terminal Blocks ①

| Description | AWG Wire Size | Standard Pack ② | Catalog Number |
|---|---|---|---|
| One-pole stationary section (tubular pressure plt) | 22–10 | 100 | **C381PS** |
| Three-pole movable section (tubular pressure plt) | 22–10 | 12 | **C381PM** |
| End section | — | 25 | **C381ES** |
| Polarizing plug (promotes alignment of poles) ⑥ | — | 100 | **C381PP** |

### Pull Apart Terminal Blocks



***Illustrates: One–Three-Pole Movable Section, Three–One-Pole Stationary Sections and One–End Piece***

***Notes***

① Available only in minimum quantity standard packages.
② Must be ordered in standard package quantity or in multiples of these quantities.
③ C381CC is a snap-in, one time use disposable type. C381VC can be readjusted or reused as desired.
④ For use on adjacent Type TP and/or TS control circuit sections.
⑤ May be used on section covers or to gang fuse and/or switch blocks.
⑥ L shaped plug installs in end of stationary section, Catalog Number C381PS, and prevents incorrect installation of movable section, Catalog Number C381PM.

## Technical Data and Specifications

***Formulas for Calculating Blocks and Channel Lengths***

N = Number of Blocks

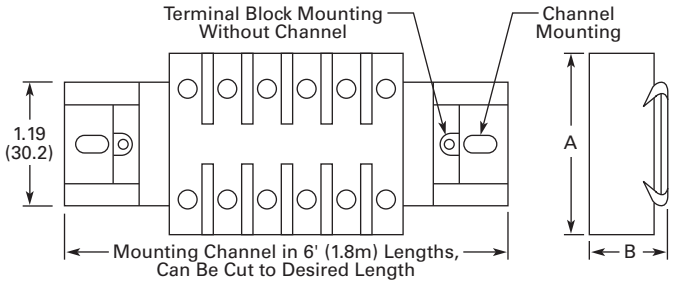
### C381 Series Terminal Blocks, Rail Mounted

| Description | Blocks Length |
|---|---|
| Control blocks and pull apart blocks | 0.762 + (0.375 x N) |
| Power circuit blocks | 0.812 + (0.750 x N) |
| Fuse and switch blocks | 0.812 + (0.755 x N) |
| Mounting channel (minimum channel length) | 0.75 + blocks length |

## Dimensions

Approximate Dimensions in Inches (mm)

### C381 Series Terminal Blocks, Rail Mounted




| Block | A | B |
|---|---|---|
| Control circuit blocks | 1.25 (31.8) | 1.55 (39.4) |
| Power circuit blocks | 1.75 (44.5) | 2.00 (50.8) |
| Fuse blocks | 2.75 (69.9) | 2.00 (50.8) |
| Switch blocks | 2.75 (69.9) | 2.00 (50.8) |
| Pull apart blocks | 1.88 (47.8) | 2.75 (69.9) |

TB Series Terminal Blocks, Modular

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## TB Series Terminal Blocks, Modular

### Product Description

TBA and TBD modular terminal blocks are designed to conserve space, while allowing maximum flexibility and ease of installation. Available as one-, two- and three-pole circuits, simple and uniform installation is possible because their design is based on 5/8 in (15.9 mm) modules. Standard blocks are white nylon.

***Breathing Action Clamping Collar***

The unique design of the clamping collar permits the collar to breathe as the wire expands and contracts, maintaining a constant and permanent clamping pressure. This eliminates loose connections resulting from the gradual flattening of conductors and joint deterioration caused by heating and cooling cycles.

### Features

***Blocks—Design Features***

- Compact design permits mounting 48–600V or 90–300V terminals per foot
- Fully shielded construction, 600V spacings
- Nylon construction provides anti-tracking and impact resistance
- TBA types are available in rail mounted, base mounted and power distribution types
- Terminal blocks easily snap on or off mounting rails; not necessary to disturb adjacent units
- No end pieces or backing plates are needed when rail mounting
- A 12 circuit subminiature blocks, rated 20A at 300V, is available for “high density” applications
- Popular blocks are also available in dual mount for use with standard TBA or 35 mm DIN rails

***Terminals—Design Features***

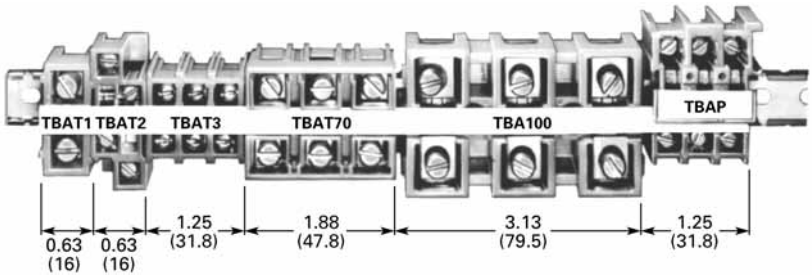
- Insulated walls of lug guide wire into lug
- Blocks are shipped with clamping screw backed out
- Constant locking torque keeps terminal screws in position
- Terminal screws are captive; cannot be lost in shipment or handling
- Hardened stainless steel clamping collar eliminates stripped threads
- Large opening in clamping collar accommodates oversized conductors; smallest collar will accept three 14 AWG stranded conductors

### Standards and Certifications

- UL recognized: File No. E56797
- CE approved

## Product Selection

### TBA Modular Terminal Blocks




8

### Rail and Base Mounted Terminal Blocks

| Description | AWG Wire Size | Number of Poles | Ampacity (per Circuit) ① | Carton Quantity ② | TBA Rail Catalog Number | DIN Rail ③ Catalog Number |
|---|---|---|---|---|---|---|
| **Rail Mounted—600V** | | | | | | |
| Subminiature blocks | (2) 14–12 | 12 | 5A | 100 | **TBDSM12** ④ | **TBDSM12** ④ |
| Miniature blocks | 22–10 | 4 | 30A | 100 | **TBDV4** | **TBDV4** |
| Standard blocks—screw terminals with tang clamping collars | 18–2 | 1 | 90A | 100 | — | **TBDT1** |
| | 22–8 | 2 | 40A | 100 | **TBAT2** | — |
| | 22–8 | 3 | 40A | 20 | **TBAT3-20** | **TBDT3-20** |
| | 18–4 | 3 | 90A | 100 | **TBDT70** | **TBDT70** |
| High current blocks | 14–2/0 | 3 | 175A | 12 | **TBA100** ⑤ | — |
| Standard blocks—plug-in terminals | 22–8 | 3 | 40A | 20 | **TBAP** | — |
| | 18–4 | 3 | 70A | 20 | **TBAP70** | — |
| | 14–8 | 3 | 40A | 20 | **TBAPL70** | — |
| Panel mount blocks | 22–10 | 3 | 30A | 100 | **TBAL30** | — |
| | 8–4 | 3 | 115A | 12 | **TBAL90** | — |
| Disconnect blocks—for 1/4 in (6.4 mm) dia. by 1–1-7/16 in (25.4–36.5 mm) fuse | 22–8 | 1 | 30A | 50 | **TBAD** | — |
| Fuse blocks—for 13/32 in (10.3 mm) dia. by 1-1/2 in (38.1 mm) fuse | 22–8 | 1 | 30A | 50 | **TBDTF** | **TBDTF** |
| **Base Mounted—600V** | | | | | | |
| Miniature blocks—screw terminals with tang clamping collars | 22–10 | 4 | 30A (600V) | 90 | **TBBT4** | — |
| Standard blocks—standard screw terminals | 22–8 | 3 | 40A | 80 | **TBABT3** | — |
| Universal mounting blocks | 8 maximum | 4 | 50A ⑥ | 25 | **TBU4** | — |
| | 8 maximum | 6 | 50A ⑥ | 60 | **TBU6** | — |
| | 8 maximum | 8 | 50A ⑥ | 45 | **TBU8** | — |
| | 8 maximum | 12 | 50A ⑥ | 35 | **TBU12** | — |

***Notes***

① Based on 50°C rise, test at 25°C ambient while using maximum wire size.
② Must be ordered in standard package quantity or in multiples of these quantities.
③ Dual mounting blocks—mount on either TMR/TBA rail or 35 mm DIN rail.
④ May also be mounted on mini-DIN rail (15 mm). Catalog Number C383TS15.
⑤ May also be base mounted.
⑥ TBU Series = 60A with crimped wire.

## Accessories

### TB Series Terminal Blocks, Modular

| Description | Length ① | Number of Poles | Carton Quantity ② | Catalog Number |
|---|---|---|---|---|
| **Mounting Rail** | | | | |
| Aluminum | 12.5 (317.5) | — | 25 | **TMR12** |
| | 37.5 (952.5) | — | 25 | **TMR37** |
| | 72.0 (1828.8) | — | 25 | **TBATR72** |
| 35 mm DIN—steel | 1m | — | 20 | **MC382MA1-20** |
| **Marking Strips** | | | | |
| Miniature blocks—TBDV4 and TBBT4 | 6.0 (152.4) | — | 50 | **TMS6** |
| TBU Series—matte finish | 7.5 (190.5) | — | 25 | **TMSU** |
| All other blocks | 12.5 (317.5) | — | 50 | **TMS** |
| **Jumpers** | | | | |
| TBAT1 and TBAP70 | — | 2-pole | 100 | **TJ1** |
| TBAT2 | — | 2-pole | 100 | **TJ2** |
| TBAT3, TBABT3, TBAP and TBBP | — | 2-pole | 100 | **TJ3** |
| TBDV4 and TBBT4 | — | 4-pole | 100 | **TJ4** |
| TBAD and TBATF | — | 2-pole | 100 | **TJ5** |
| TBAL30 | — | 2-pole | 100 | **TJ6** |
| TBU | — | 12-pole | 10 | **TJ7** |
| TBDT3 | — | 2-pole | 100 | **TJ8** |
| **Miscellaneous** | | | | |
| End piece for TBABT3 and TBBP | — | — | 50 | **TAD** |
| Lug shield for TBA100 and TBAL90 | — | — | 50 | **TAS** |
| Fuse puller | — | — | 50 | **TBP** |
| Lighted fuse puller—blown fuse indication | — | — | 25 | **TBLP** |

***Notes***

① Length in inches (mm) except as noted.

② Must be ordered in standard package quantity or in multiples of these quantities.

## Technical Data and Specifications

### TB Series Terminal Blocks, Modular

| Description | Specification |
|---|---|
| Continuous temperature | 212°F (100°C) |
| Tensile strength | 10,000–12,000 psi |
| Impact resistance | 2.0 ft-lb/in (arc) |
| Arc resistance | 140 seconds |

- Chemical resistance to:
  - Acetone
  - Ammonia gas
  - Benzene
  - Gasoline
  - Mineral oil
  - Sodium bisulfate
  - Sodium chloride
  - Sodium nitrate
  - Water up to 50°C



### Flashover Voltages

| Catalog Number | Vac rms, 60 Hz Opposite Polarity | To Ground |
|---|---|---|
| **TBAT1** | 9100 | 6600 |
| **TBAT2** | 9600 | 7300 |
| **TBAT3** | 8600 | 7300 |

### Recommended Terminal Tightening Torque

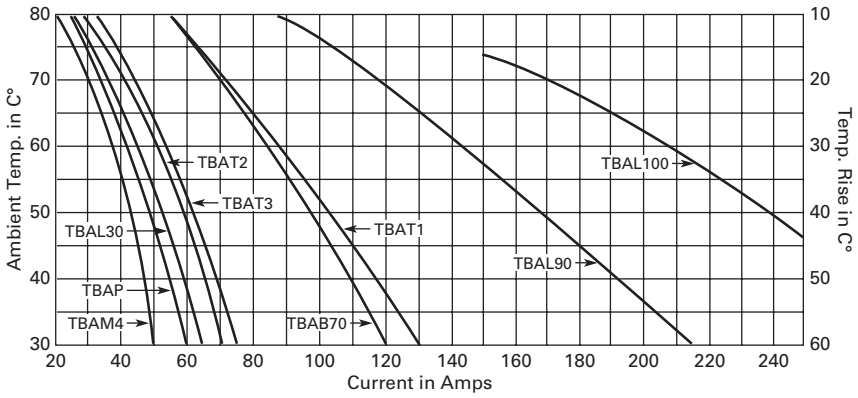
| Wire Size | Torque |
|---|---|
| Up to 8 AWG | 20 lb-in |
| Up to 4 AWG | 35 lb-in |
| Up to 2/0 AWG | 50 lb-in |

To find a current rating, place a straight edge horizontally at the value of anticipated maximum internal panel ambient (scale on the left), and read the current rating for the device on the bottom scale. *Example:* at 60°C, TBAT3 is rated 54 amperes.

Ampere rating is based on maximum allowable temperature—ambient temperature plus temperature rise due to current.

Ratings based on 90°C total temperature of a three-pole block with each pole carrying current and wired with largest size conductors.

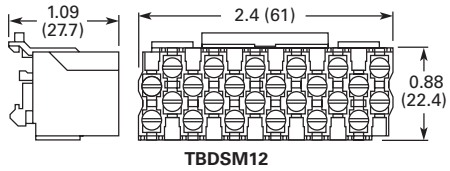
### Temperature Rating



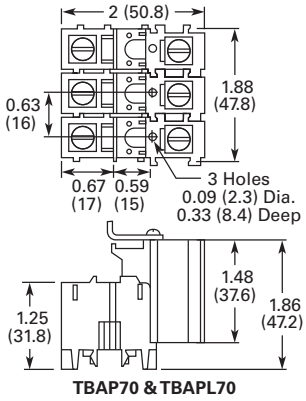
## Dimensions

Approximate Dimensions in Inches (mm)

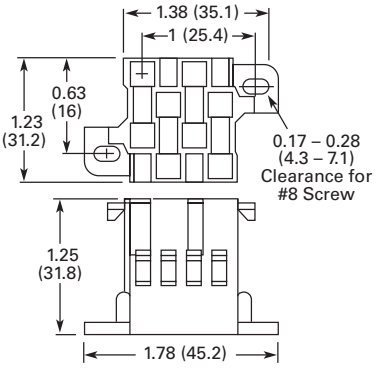
### TB Series Terminal Blocks, Modular



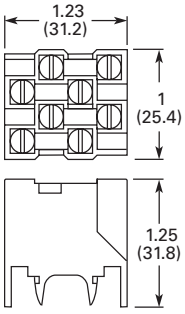

TBDSM12



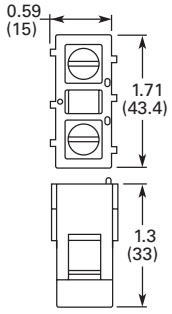

TBAP70 & TBAPL70



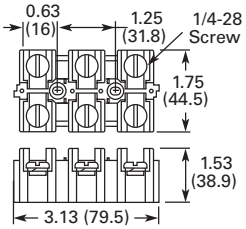

TBBT4



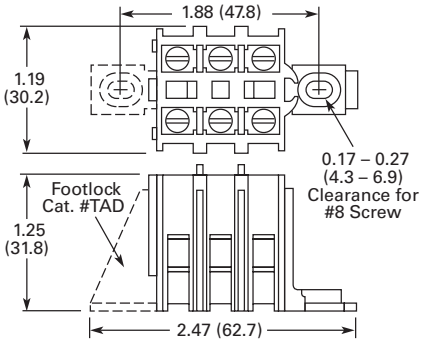

TBDV4



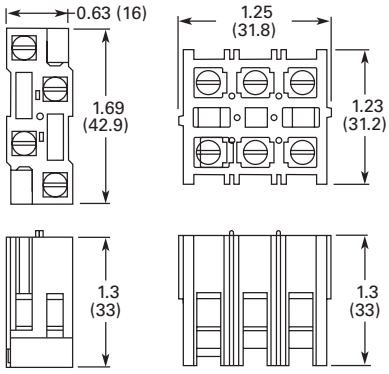

TBDT1




TBAL90

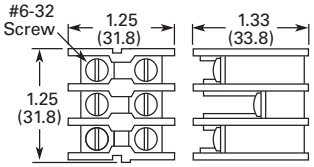



TBABT3

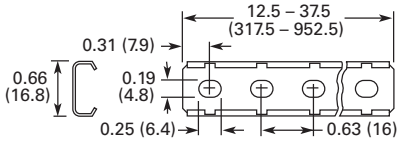



TBAT2

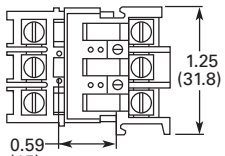
TBAT3 & TBDT3

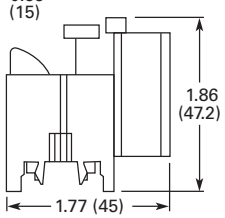



TBAL30

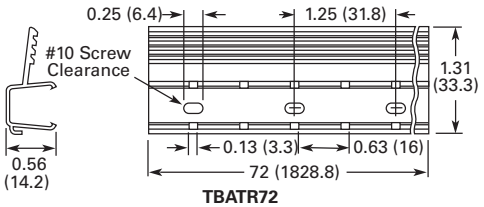



TMR12 & TMR37

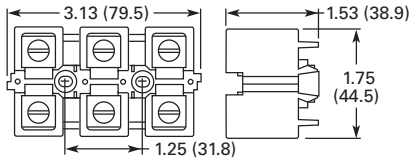


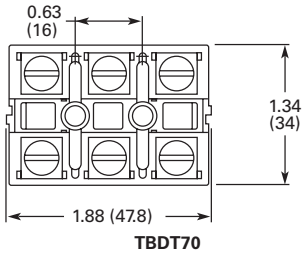

TBAP



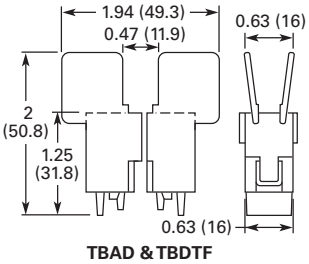

TBATR72



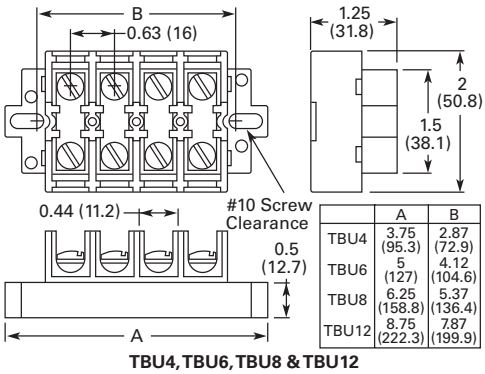

TBA100




TBDT70




TBAD & TBDTF




| | A | B |
|---|---|---|
| TBU4 | 3.75 (95.3) | 2.87 (72.9) |
| TBU6 | 5 (127) | 4.12 (104.6) |
| TBU8 | 6.25 (158.8) | 5.37 (136.4) |
| TBU12 | 8.75 (222.3) | 7.87 (199.9) |

TBU4, TBU6, TBU8 & TBU12

**Power Distribution Products**

## Contents


| *Description* | *Page* |
|---|---|
| Power Distribution | |
| CHDB Series—Power Distribution Blocks . . . . | **V7-T8-115** |
| CH160 Series—Power Terminal Blocks . . . . . | **V7-T8-121** |
| Power Terminal Block Accessories . . . . . | **V7-T8-124** |


## Power Distribution Overview

### Product Selection Guide

| Series | Current Range | UL Certification | High Short Circuit Current Rating ① | UL 508A Approved for Industrial Control Panels | | |
|---|---|---|---|---|---|---|
| | | | | Branch Circuits | Feeder Circuits | HVAC UL 1995 |
| **CH162** | 115–175A | UL 1059 Recognized | No | Yes | No ② | Yes |
| **CH163** | 175–420A | UL 1059 Recognized | No | Yes | No ② | Yes |
| **CH165** | 620–840A | UL 1059 Recognized | No | Yes | No ② | Yes |
| **CHDB** | 175–570A | UL 1953 Listed | Yes | Yes | Yes | Yes |

***Notes***

① Refer to **Page V7-T8-116** to determine short circuit current ratings with fuses and **Pages V7-T8-117** and **V7-T8-118** to determine short circuit current ratings in conjunction with specific Eaton circuit breakers.

② Single-pole units, when installed with proper spacings, may meet requirements for UL 508A feeder circuits.

**CHDB Series—Power Distribution Blocks, Enclosed and Open**

## Contents


| *Description* | *Page* |
|---|---|
| CHDB Series—Power Distribution Blocks | |
| Product Selection | **V7-T8-116** |
| Technical Data and Specifications | **V7-T8-116** |
| Dimensions | **V7-T8-119** |
| CH160 Series—Power Terminal Blocks | **V7-T8-121** |
| Power Terminal Block Accessories | **V7-T8-124** |




## CHDB Series—Power Distribution Blocks

### Product Description

Eaton's CHDB Series of Power Distribution Blocks was designed for high short circuit current rating (SCCR) applications up to 200,000 amperes. They are assembled with the minimum spacing to meet UL 1953 requirements for feeder circuits in UL 508A industrial control panels, and provide significant wiring flexibility.

Available in three-pole open style and single-pole enclosed style with a variety of terminal arrangements and current-carrying capability up to 570 amperes.

### Features and Benefits

***Enclosed Style***

- IP20 finger-safe enclosure
- 600 Vac or Vdc (UL 1953), 690 Vac or Vdc
- DIN rail or panel mount
- Captive termination screws prevent lost screws
- Single-pole, gang mountable for multi-pole applications
- Tin plated Al connections suitable for Cu conductors
- Flammability, UL 94V-0

***Open Style***

- 600 Vac or Vdc (UL 1953)
- Panel mount
- Three-pole open design for easy wiring
- Tin-plated Al connections suitable for Cu conductors
- Flammability, UL 94V-0
- Available covers for additional protection (does not meet IP20)

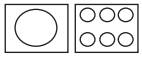
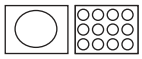
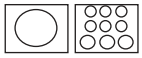
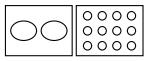
### Standards and Certifications

- UL Listed 1953, Guide QPQS, File E256146
- CSA Certified, Class 6228-01, File 15364 (enclosed style)
- CE Component IEC 60947-7-1 (enclosed style)
- IEC 60529, IP20 (finger-safe) under specific wiring conditions (enclosed style)

Listed

## Product Selection

### CHDB Series—Power Distribution Blocks

| | Line Connection | Load Connection | Configuration | Amperes | Style | Poles | Catalog Number |
|---|---|---|---|---|---|---|---|
| **CHDB2203 (Open)** | 2/0–#8 AWG | (4) #4–#14 AWG | | 175 | Open | 3 | **CHDB2203** |
| | 2/0–#8 AWG | (6) #4–#14 AWG |  | 175 | Open | 3 | **CHDB3213** |
| | 300 kcmil–#4 AWG | (6) #4–#12 AWG | | 310 | Open | 3 | **CHDB3233** |
| | 300 kcmil–#4 AWG | (12) #4–#14 AWG |  | 310 | Open | 3 | **CHDB3703** |
| | 300 kcmil–#4 AWG | (6) #2–#12 AWG |  | 310 | Open | 3 | **CHDB3713** |
| | | (3) 1/0–#12 AWG | | 310 | Open | 3 | **CHDB3713** |
| **CHDB204F (Enclosed)** | 2/0–#8 AWG | 2/0–#8 AWG | | 175 | Enclosed ① | 1 | **CHDB204F** |
| | 500 kcmil–#6 AWG | (6) #2–#14 AWG | | 380 | Enclosed ① | 1 | **CHDB330F** |
| | 300 kcmil–#4 AWG | (12) #4–#14 AWG |  | 570 | Enclosed ① | 1 | **CHDB377F** |

## Technical Data and Specifications

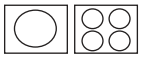
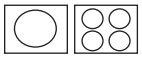
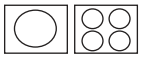
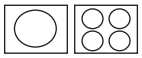
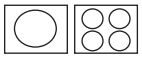
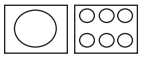
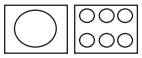
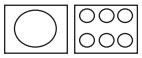
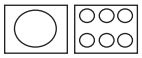
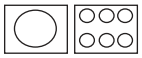
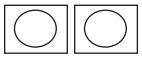
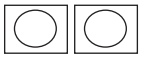
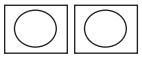
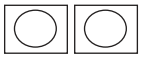
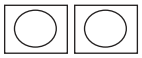
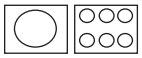
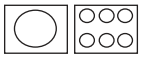
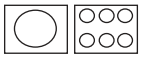
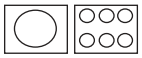
### Power Terminal Block Short-Circuit Current Ratings (SCCR) with Fuses

| Catalog Number | Terminal Copper Conductors | | Maximum Fuse Class and Amperes | | | | |
|---|---|---|---|---|---|---|---|
| | | | J | T | RK-1 | RK-5 | |
| | Line | Load | LPJ | JJS/JJN | LPS-RK/LPN-RK | FRS-R/FRN-R | SCCR (kA) |
| **CHDB2203** | 2/0–#8 AWG | #4–#12 AWG | 200 | 200 | 200 | 60 | 200 |
| | | #4–#14 AWG | 175 | 175 | 100 | 60 | 100 |
| | | | 200 | 200 | 100 | 60 | 50 |
| **CHDB3213** | 2/0–#8 AWG | #4–#12 AWG | 400 | 400 | 200 | 100 | 200 |
| | | | 400 | 400 | 400 | 100 | 100 |
| | | #4–#14 AWG | 175 | 175 | 100 | 60 | 100 |
| **CHDB3233** | 300 kcmil–#4 AWG | #4–#8 AWG | 400 | 400 | 200 | 100 | 200 |
| | | | 400 | 400 | 400 | 100 | 100 |
| | | #4–#12 AWG | 175 | 175 | 100 | 60 | 100 |
| **CHDB3703** | 300 kcmil–#4 AWG | #4–#8 AWG | 400 | 400 | 200 | 100 | 200 |
| | | #4–#14 AWG | 400 | 400 | 400 | 100 | 100 |
| | | | 175 | 175 | 100 | 60 | 100 |
| **CHDB3713** | 300 kcmil–#4 AWG | 1/0–#6 AWG | 400 | 400 | 200 | 100 | 200 |
| | | #4–#12 AWG | 400 | 400 | 400 | 100 | 100 |
| | | | 175 | 175 | 100 | 60 | 100 |
| **CHDB204F** | 2/0–#8 AWG | 2/0–#8 AWG | 200 | 200 | 100 | 60 | 200 |
| **CHDB330F** | 500 kcmil–#6 AWG | #2–#6 AWG | 400 | 400 | 200 | 100 | 200 |
| | | #2–#14 AWG | 200 | 200 | 100 | 30 | 50 |
| | | | 175 | 175 | 100 | 30 | 100 |
| **CHDB377F** | 300 kcmil | #4–#8 AWG | 600 | 600 | 400 | 200 | 200 |
| | 300 kcmil–#4 AWG | #4 AWG | 600 | 600 | 400 | 200 | 50 |
| | | #4–#14 AWG | 200 | 200 | 100 | 30 | 50 |

***Note***

① Finger-safe.

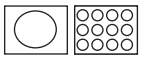
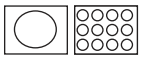
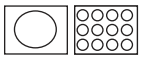
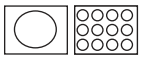
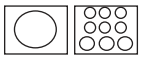
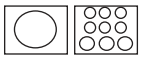
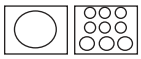
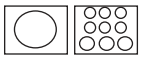
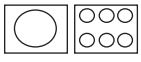
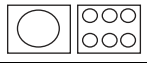
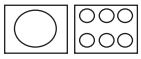
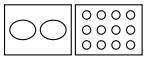
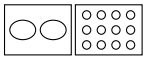
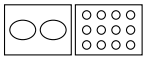
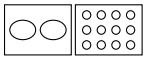
## Power Terminal Block Short-Circuit Ratings (SCCR) for UL 508A Applications with Circuit Breakers

| Catalog Number | Description | Enclosure Size in Inches (mm) | Current Rating | Opening per Pole | | Line Conductors Cu | Load Conductors Cu | SCCR @ 480V (Load Side) | Eaton Breaker | Available Breaker Current Ratings |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Line | Load | | | | | |
| **CHDB2203** | Feeder Listed Open PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 18 kA<br>18 kA<br>14 kA | EGB125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB2203** | Feeder Listed Open PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 25 kA<br>22 kA<br>14 kA | EGE125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB2203** | Feeder Listed Open PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 50 kA<br>22 kA<br>14 kA | EGS125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB2203** | Feeder Listed Open PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 65 kA<br>22 kA<br>14 kA | EGH125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB2203** | Feeder Listed Open PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 65 kA<br>22 kA<br>14 kA | EGC125 ① | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3213** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 18 kA<br>18 kA<br>18 kA | EGB125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3213** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 25 kA<br>22 kA<br>18 kA | EGE125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3213** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 50 kA<br>22 kA<br>18 kA | EGS125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3213** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 65 kA<br>22 kA<br>18 kA | EGH125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3213** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 175 |  | | 2/0–#8 | #4–#10<br>#12<br>#14 | 65 kA<br>22 kA<br>18 kA | EGC125 ① | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB204F** | Feeder Listed Enclosed PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | 2/0–#8 | 18 kA | EGB125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB204F** | Feeder Listed Enclosed PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | 2/0–#8 | 25 kA | EGE125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB204F** | Feeder Listed Enclosed PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | 2/0–#8 | 35 kA | EGS125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB204F** | Feeder Listed Enclosed PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | 2/0–#8 | 65 kA | EGH125 | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB204F** | Feeder Listed Enclosed PDB | 16.00 x 16.00 x 6.75 (406.4 x 406.4 x 171.5) | 175 |  | | 2/0–#8 | 2/0–#8 | 65 kA | EGC125 ① | 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 125 |
| **CHDB3233** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 25 kA<br>25 kA<br>14 kA | JGE250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3233** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 35 kA<br>35 kA<br>14 kA | JGS250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3233** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 65 kA<br>42 kA<br>14 kA | JGH250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3233** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 65 kA<br>42 kA<br>25 kA | JGC250 ① | 70, 90, 100, 125, 150, 175, 200, 225, 250 |

***Note***

① This breaker frame is marked current limiting and suitable for use as current limiting per UL 508A SB.4.3.2.

## Power Terminal Block Short-Circuit Ratings (SCCR) for UL 508A Applications with Circuit Breakers, continued

| Catalog Number | Description | Enclosure Size in Inches (mm) | Current Rating | Opening per Pole | | Line Conductors Cu | Load Conductors Cu | SCCR at 480V (Load Side) | Eaton Breaker | Available Breaker Current Ratings |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Line | Load | | | | | |
| **CHDB3703** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 25 kA<br>25 kA<br>14 kA | JGE250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3703** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 35 kA<br>35 kA<br>14 kA | JGS250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3703** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 65 kA<br>42 kA<br>14 kA | JGH250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3703** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 65 kA<br>42 kA<br>25 kA | JGC250 ① | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3713** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 25 kA<br>25 kA<br>14 kA | JGE250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3713** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 35 kA<br>35 kA<br>14 kA | JGS250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3713** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 50 kA<br>42 kA<br>14 kA | JGH250 | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB3713** | Feeder Listed Open PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 310 |  | | 350 kmil–#4 | #4–#6<br>#8<br>#10 | 65 kA<br>50 kA<br>25 kA | JGC250 ① | 70, 90, 100, 125, 150, 175, 200, 225, 250 |
| **CHDB330F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 380 | | | 500 kmil–#3 | #2–#8 | 14 kA | LGE400 | 250, 300, 350, 400 |
| **CHDB330F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 380 |  | | 500 kmil–#3 | #2–#8 | 14 kA | LGS400 | 250, 300, 350, 400 |
| **CHDB330F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 380 |  | | 500 kmil–#3 | #2–#8 | 14 kA | LGH400 | 250, 300, 350, 400 |
| **CHDB330F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 380 |  | | 500 kmil–#3 | #2–#8 | 25 kA | LGC400 ① | 250, 300, 350, 400 |
| **CHDB377F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 570 |  | | (2) 300 kmil–#2 | #4<br>#6<br>#8 | 30 kA<br>18 kA<br>14 kA | LGE600 | 250, 300, 350, 400, 500, 600 |
| **CHDB377F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 570 |  | | (2) 300 kmil–#2 | #4<br>#6<br>#8 | 30 kA<br>18 kA<br>14 kA | LGS600 | 250, 300, 350, 400, 500, 600 |
| **CHDB377F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 570 |  | | (2) 300 kmil–#2 | #4<br>#6<br>#8 | 30 kA<br>18 kA<br>14 kA | LGH600 | 250, 300, 350, 400, 500, 600 |
| **CHDB377F** | Feeder Listed Enclosed PDB | 24.00 x 20.00 x 6.75 (609.6 x 508.0 x 171.5) | 570 |  | | (2) 300 kmil–#2 | #4<br>#6<br>#8 | 42 kA<br>35 kA<br>14 kA | LGC600 ① | 250, 300, 350, 400, 500, 600 |

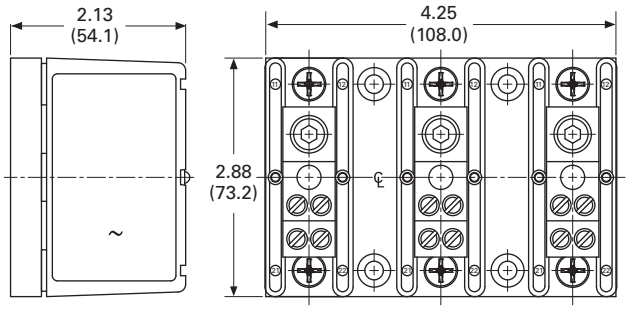
***Note***

① This breaker frame is marked current limiting and suitable for use as current limiting per UL 508A SB.4.3.2.

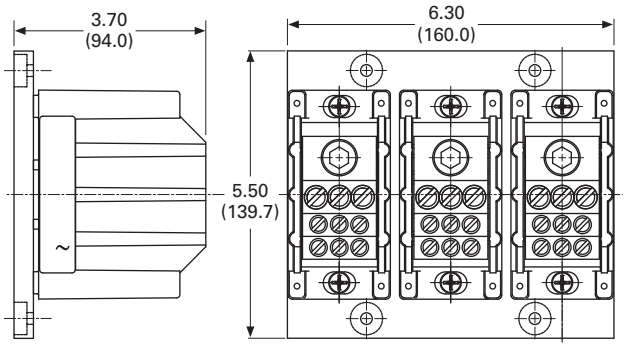
## Dimensions

Approximate Dimensions in Inches (mm)

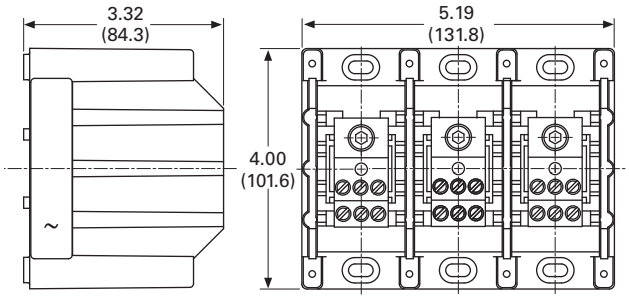
### CHDB2203



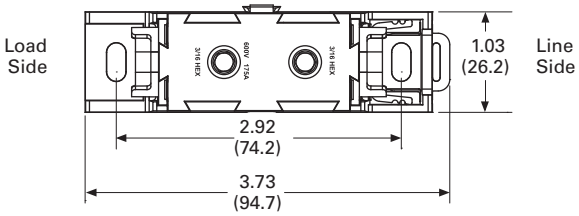

### CHDB3713



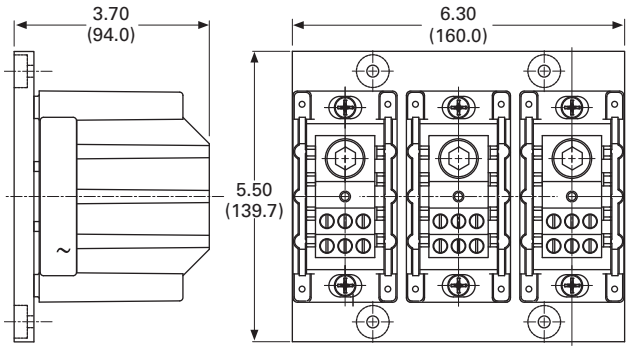

### CHDB3213

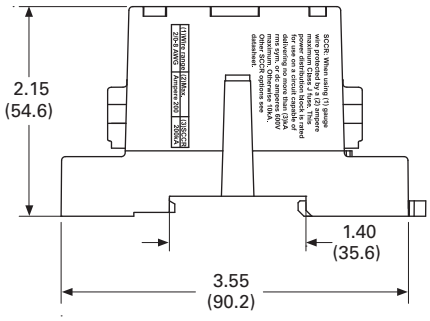



### CHDB204F

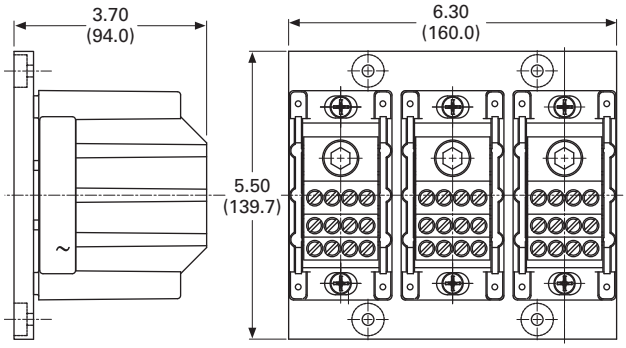



### CHDB3233



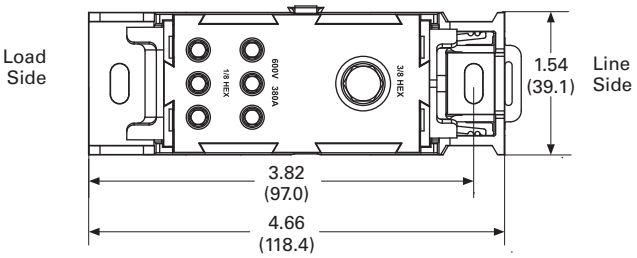



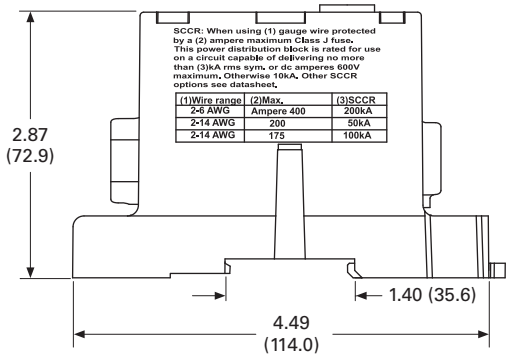

### CHDB3703



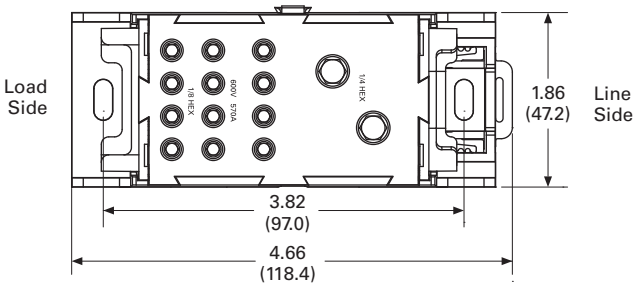
Approximate Dimensions in Inches (mm)

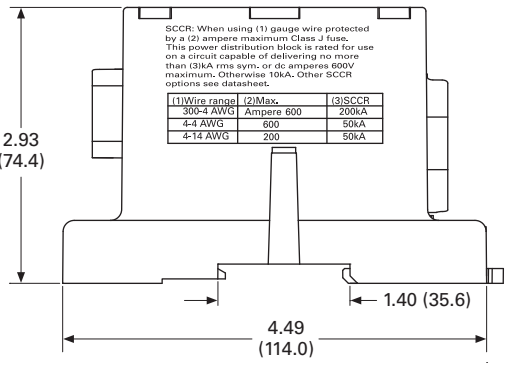
## CHDB330F




## CHDB377F



**CH160 Series—Power Terminal Blocks**

## Contents


| *Description* | *Page* |
|---|---|
| CHDB Series—Power Distribution Blocks | **V7-T8-115** |
| CH160 Series—Power Terminal Blocks | |
| Product Selection | **V7-T8-122** |
| Technical Data and Specifications | **V7-T8-123** |
| Dimensions | **V7-T8-123** |
| Power Terminal Block Accessories | **V7-T8-124** |




## CH160 Series—Power Terminal Blocks

### Product Description

The CH160 Series of Power Terminal Blocks are UL 1059 recognized power terminal blocks for branch circuit applications. All short circuit current ratings (SCCR) are 10 kA per UL 508A Table SB4.1. The blocks are available in a wide variety of wiring configurations, providing excellent flexibility.

### Features and Benefits

- Ratings: To 840A, 600V
- Materials
  - Molded material; black, UL rated 94V-0 thermoplastic
- Operating temperature: 302°F (150°C)
- Optional cover: See **Page V7-T8-123**

### Standards and Certifications

- UL Recognized
- CSA Certified

## Product Selection

***When Ordering, Specify***

- Catalog number
- Number of poles (up to three-pole available)

### CH160 Power Terminal Blocks—CH162 Series

| Line Connection | Load Connection | Connector Material and Ampacity | Catalog Number ① |
|---|---|---|---|
| #2–#14 Cu/#8 Al | #2–#14 Cu/#8 Al | Al 115A | **CH16200_** |
| 1/0–#14 Cu | 1/0–#14 Cu | Cu 150A | **CH16201_** |
| 2/0–#8 Cu/Al | 2/0–#8 Cu/Al | Al 175A | **CH16204_** |
| 2/0–#14 Cu/#8 Al | (4) #4–#14 Cu/#8 Al | Al 175A | **CH16220_** |



### CH160 Power Terminal Blocks—CH163 Series

| Line Connection | Load Connection | Connector Material and Ampacity | Catalog Number ① |
|---|---|---|---|
| 250 kcmil-#6 Cu | 250 kcmil-#6 Cu | Cu 255A | **CH16301_** |
| 350 kcmil-#6 Cu/Al | 350 kcmil-#6 Cu/Al | Al 310A | **CH16303_** |
| 500 kcmil-#6 Cu/Al | 500 kcmil-#6 Cu/Al | Al 380A | **CH16306_** |
| 2/0–#14 Cu/Al | (6) #4–#14 Cu/#8 Al | Al 175A | **CH16321_** |
| 350 kcmil-#6 Cu/Al | (6) #4–#14 Cu/#8 Al | Al 310A | **CH16323_** |
| (2) 2/0–#14 Cu/#8 Al | (6) #4–#14 Cu/#8 Al | Al 350A | **CH16325_** |
| 500 kcmil-#6 Cu/Al | (6) #2–#14 Cu/#8 Al | Al 380A | **CH16330_** |
| 350 kcmil-#6 Cu/Al | (3) #2–#14 Cu/#8 Al | Al 310A | **CH16332_** |
| | (2) 1/0–#14 Cu/#8 Al | Al 310A | **CH16332_** |
| 350 kcmil-#6 Cu/Al | (12) #4–#14 Cu/#8 Al | Al 310A | **CH16370_** |
| 350 kcmil-#6 Cu/Al | (6) #2–#14 Cu/#8 Al | Al 310A | **CH16371_** |
| | (3) 1/0–#14 Cu/#8 Al | Al 310A | **CH16371_** |
| 350 kcmil-#6 Cu/Al | (21) #10–#14 Cu/#10 Al | Al 310A | **CH16372_** |
| 350 kcmil-#6 Cu/Al | (3) 1/0–#14 Cu/#8 Al | Al 310A | **CH16373_** |
| | (14) #10–#14 Cu/#8 Al | Al 310A | **CH16373_** |
| 600 kcmil-#2 Cu/Al | (12) #4–#14 Cu/#8 Al | Al 420A | **CH16375_** |
| 600 kcmil-#2 Cu/Al | (6) #2–#14 Cu/#8 Al | Al 420A | **CH16376_** |
| | (3) 1/0–#14 Cu/#8 Al | Al 420A | **CH16376_** |

### CH160 Power Terminal Blocks—CH165 Series

| Line Connection | Load Connection | Connector Material and Ampacity | Catalog Number ① |
|---|---|---|---|
| (2) 350 kcmil-4 Cu/Al | (2) 350 kcmil-4 Cu/Al | Al 620A | **CH16500_** |
| (2) 500 kcmil-#6 Cu/Al | (2) 500 kcmil-#6 Cu/Al | Al 760A | **CH16504_** |
| (2) 600 kcmil-#2 Cu/Al | (4) 3/0–#8 Cu/Al | Al 840A | **CH16528_** |
| | (4) #4–#14 Cu/#8 Al | Al 840A | **CH16528_** |
| (2) 500 kcmil-#6 Cu/Al | (12) #4–#14 Cu/#8 Al | Al 760A | **CH16530_** |

***Note***

① Incomplete catalog number—add code suffix **-1**, **-2**, **-3** for number of poles.
Example: For a 150A 1/0-#14 Cu to 1/0-#14 Cu three-pole PDB, order CH16201-**3**.

## Technical Data and Specifications

### CH160 Power Terminal Blocks

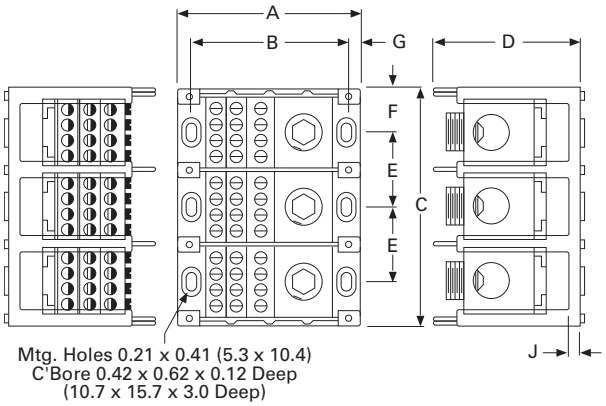
| Description | Specification |
|---|---|
| Ratings | To 840A, 600V |
| Materials | Molded material; black, UL rated 94V-0 thermoplastic |
| Operating temperature | 302°F (150°C) |

**Note:** For optional cover, see Power Terminal Block Accessories, **Page V7-T8-124**.

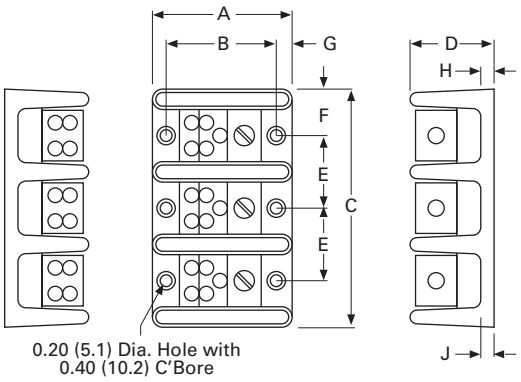
## Dimensions

Approximate Dimensions in Inches (mm)

### Series CH163 (Single-, Two- and Three-Pole Available)




### Series CH162 and CH165 (Single-, Two- and Three-Pole Available)




### CH160 Power Terminal Block Dimensions

| Series | A | B | C Single-Pole | C Two-Pole | C Three-Pole | D | E4 | F | G | H | J |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CH162 | 2.87 (72.9) | 2.25 (57.2) | 1.06 (26.9) | 1.87 (47.5) | 2.68 (68.1) | 1.75 (44.5) | 0.81 (20.6) | 0.53 (13.5) | 0.31 (7.9) | 0.84 (21.3) | 0.31 (7.9) |
| CH163 | 4.00 (101.6) | 3.37 (85.6) | 1.96 (49.8) | 3.58 (90.9) | 5.20 (132.1) | 3.32 (84.3) | 1.62 (41.1) | 0.97 (24.6) | 0.31 (7.9) | 0.87 (22.1) | 0.35 (8.9) |
| CH165 | 5.50 (139.7) | 4.75 (120.7) | 3.12 (79.2) | 5.81 (147.6) | 8.50 (215.9) | 3.12 (79.2) | 2.68 (68.1) | 1.56 (39.6) | 0.37 (9.4) | 1.37 (34.8) | 0.62 (15.7) |

**Power Terminal Block Accessories**

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| CH160 Series—Power Terminal Blocks | **V7-T8-121** |
| Power Terminal Block Accessories | |
| Technical Data and Specifications | **V7-T8-125** |
| Dimensions | **V7-T8-125** |




## Power Terminal Block Accessories

### Product Description

***Protective Cover***

- Guards against accidental contact
- Clear with write-on surface for field termination identification
- Available in single-, two- and three-pole

### Standards and Certifications

***TB Series Power Blocks***

- Contact Eaton for the latest UL 508A short circuit ratings on terminal blocks
- UL Recognized: File No. E62622
- CSA Certified: File No. LR15364

### Product Selection

***When Ordering, Specify***

- Catalog number

#### CH163 Series Cover

| Description | Catalog Number |
|---|---|
| Single-pole cover | **CHCPDB-1** ① |
| Two-pole cover | **CHCPDB-2** ① |
| Three-pole cover | **CHCPDB-3** ① |

#### TB Series Power Blocks

| Line Connection | Load Connection | Catalog Number |
|---|---|---|
| #300 kcmil-#6 Cu/Al | (6) #6–#14 Cu/#8Al | **TBAN63** |

***Note***

① Standard pack, five pieces.

## Technical Data and Specifications

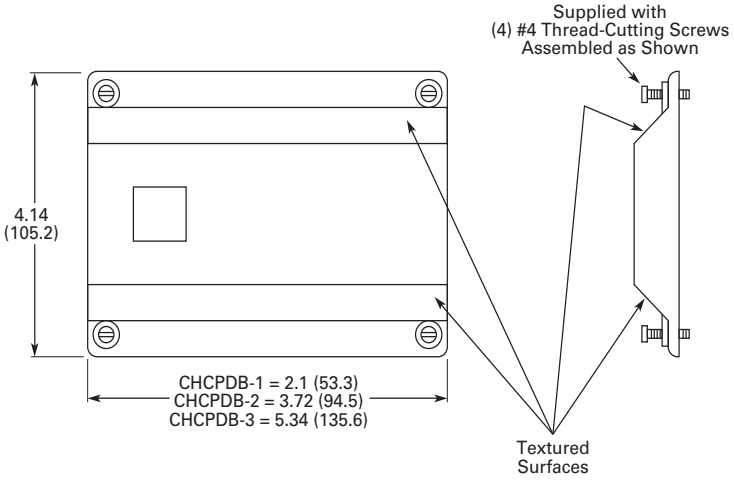
### TB Series Power Blocks

| Description | Specification |
|---|---|
| Ratings | 285A, 600V; UL/CSA |
| Materials | Molded material; black, UL rated 94V-2 thermoplastic |
| Operating temperature | 257°F (125°C) |

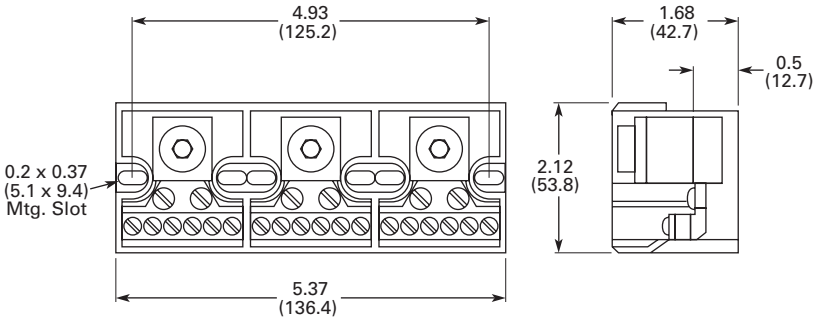
## Dimensions

Approximate Dimensions in Inches (mm)

### CH163 Series Cover




### TB Series Power Blocks



**Fuse Blocks and Fuse Holders**

## Contents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| Fuse Blocks and Fuse Holders | |
| C383 Series Disconnect Fuse Holders . . . . . | **V7-T8-127** |
| C350 Series Fuse Blocks and W Series Fuse Holders. . . . . | **V7-T8-129** |




## Fuse Blocks and Fuse Holders Overview

### Product Description

Available in compact finger safe (C383) and an open (C350) design. Eaton's fuse blocks and holders provide a simple DIN mounting device for protection in control circuits.

### Application Description

Fuse holders and blocks available for Class CC, midget, H, M and R.

### Standards and Certifications

- UL listed
- CSA certified
(may not apply to all styles)

Listed

**C383 Series Fuse Holders**

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| C383 Series Disconnect Fuse Holders | |
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| Technical Data and Specifications | **V7-T8-128** |
| Dimensions | **V7-T8-128** |
| C350 Series Fuse Blocks and W Series Fuse Holders | **V7-T8-129** |




## C383 Series Disconnect Fuse Holders

### Product Description

Eaton's C383 Series disconnect fuse holders offer 600V fused circuit protection and subsequently "no load" switching.

These compact disconnects are designed as components in switchboards, panels and control consoles where positive and safe circuit protection is required and where space is at a premium.

The C383 fuse holders mount directly on standard TS35 DIN rails.

### Features

- "Finger-Safe" design—Recessed termination screws and a fuse extraction door afford you IP20 grade protection and qualify as "finger-safe" per IEC standards
- Easy to adjust position on rail—Simply unlatch the DIN rail adapter, slide the holder to desired position and relock
- Quick change of fuse—A permanently attached pivoting fuse door simplifies and speeds fuse extraction. No tools or accessories needed
- Class CC model is UL listed and CSA certified for branch circuit protection. Midget models are UL Recognized and CSA certified for supplementary and high-speed protection
- Runs cool—The vented design provides adequate air flow around the holders at all times
- Self-extinguishing UL 94-VO rated polyester material

### Standards and Certifications

Rated voltage:

- CSA/UL: 600 Vac/Vdc, 30A
- IEC (midget only): 690 Vac, 32A

## Product Selection

C383FH_

### Disconnect Fuse Holders

| Description | Standard Pack | Catalog Number |
|---|---|---|
| **For Class CC Fuse** | | |
| Single-pole fuse holder | 12 | **C383FHCC** |
| **For Midget Fuse (1-1/2 in x 13/32 in)** | | |
| Single-pole fuse holder | 12 | **C383FHMD** |

## Accessories

### Disconnect Fuse Holders

| Description | Standard Pack | Catalog Number |
|---|---|---|
| **Midget or Class CC Fuse Holder** | | |
| Multi-pole connection links | 100 | **C383MPCL** |
| Multi-pole handle pins | 100 | **C383MPHP** |

***Accessory Details***

**C383MPCL**

Multi-pole connection links can be used to connect fuse holders together for multi-pole applications. Use two per connection.

**C383MPHP**

Handle pins can be used to connect handles in multi-pole applications.

## Technical Data and Specifications

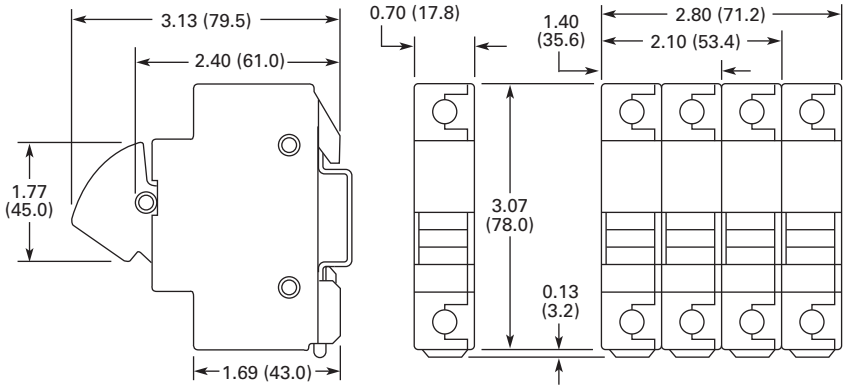
### Disconnect Fuse Holders ①

| Description | Specification |
|---|---|
| Housing | Polyester UL 94-V0 rated |
| Color | White |
| Wire size | 8–18 AWG ② |
| Torque | 22 lb-in (2.5 Nm) |
| Fuse size | 0.41 x 1.5 in |

## Dimensions

Approximate Dimensions in Inches (mm)

### CH163 Series Cover




***Notes***

① For additional technical information, consult the Eaton web site or Customer Support Center.

② UL recognizes both solid and stranded wire. Ferrules are not required. CSA requires ferrules on stranded wire to achieve approval.

**C350 Series Fuse Blocks and W Series Fuse Holders**

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| Technical Data and Specifications | **V7-T8-131** |
| Dimensions | **V7-T8-131** |


8

# C350 Series Fuse Blocks and W Series Fuse Holders

## Product Description

### *Fuse Blocks*

These space-saving Type C350 Fuse Blocks are UL approved for motor loads and are rated 600V, 30A.

### *Fuse Holders*

- Class H, M and R

## Features

### *Fuse Blocks*

- Mount to 35 mm flat and 32 mm asymmetrical DIN rails
- 600V, 30A rated captive pressure plate terminals with copper alloy fuse clips
- Interlocking fuse blocks permit single, double or three-pole application—reduce inventory
- Class CC fuses have an interrupting rating of 200,000A
- Rejection feature prevents insertion of fuses with lower interrupting or voltage ratings

### *Fuse Holders*

- Break-resistant: molded of heat-stabilized nylon
- Fuse clips: spring-reinforced for cool operation
- Fuse clip terminations: one-piece construction
- Universal mounting dimensions, for easy assembly and retrofit
- Breathing action collar: maintenance-free
- Pressure wire connectors: vibration resistant

## Standards and Certifications

Contact Eaton for the latest UL 508A short circuit ratings on terminal blocks.

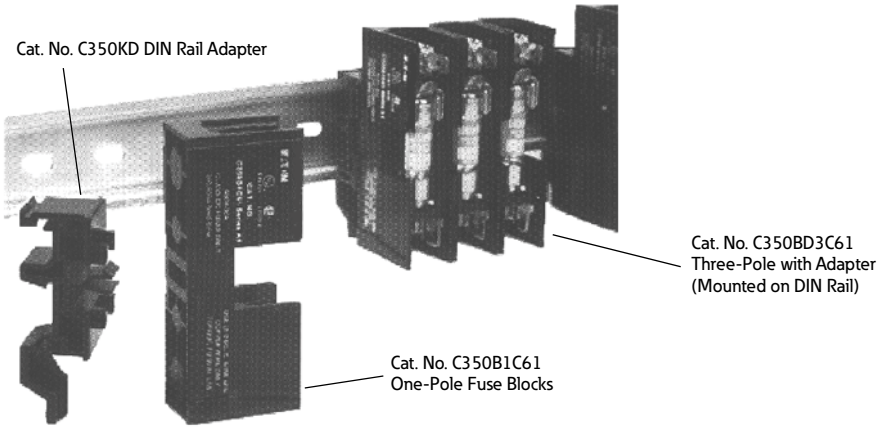
### *Fuse Blocks*

- UL listed
- CSA certified

### *Fuse Holders*

- UL tested for OEM subfeed applications

## Fuse Blocks and Adapters



## Product Selection

### Class CC Fuse Blocks

| Type | Catalog Number |
|---|---|
| Three-pole ① | **C350BD3C61** |
| Single-pole | **C350B1C61** |
| DIN adapter | **C350KD** |

**Class R, Three-Pole Fuse Holder**

### Fuse Holders—250V

| Wire Termination | | Number of Poles | Carton Qty. | 30A Catalog Number | Carton Qty. | 60A Catalog Number |
|---|---|---|---|---|---|---|
| **Class H Fuse Holders** | | | | | | |
| Single collar (box lug)—sized to ampere rating | | 1 | 10 | **W231HA** | 10 | **W261HA** |
| | | 2 | 5 | **W232HA** | 5 | **W262HA** |
| | | 3 | 5 | **W233HA** | 5 | **W263HA** |
| **Class R Fuse Holders** | | | | | | |
| Single collar (box lug)—sized to ampere rating | | 1 | 10 | **WR231HA** | — | — |
| | | 2 | — | — | — | — |
| | | 3 | 5 | **WR233HA** | 1 | **WR263HA** |

### Fuse Holders—600V

| Wire Termination | | Number of Poles | Carton Qty. | 30A Catalog Number | Carton Qty. | 60A Catalog Number |
|---|---|---|---|---|---|---|
| **Class H Fuse Holders** | | | | | | |
| Single collar (box lug)—sized to ampere rating | | 1 | 10 | **W631HA** | 1 | **W661HA** |
| | | 2 | 5 | **W632HA** | 1 | **W662HA** |
| | | 3 | 1 | **W633HA** | 2 | **W663HA** |
| **Class M Fuse Holders** | | | | | | |
| Combination of double quick-connect, 20A max., and binding head screw, #10 max., Cu/Al | | 1 | 10 | **WM631F** | — | — |
| | | 2 | 8 | **WM632F** | — | — |
| | | 3 | 6 | **WM633F** | — | — |
| Combination of double quick-connect, 20A max., and pressure plate screw, #10 max., Cu only | | 1 | 10 | **WM631G** | — | — |
| | | 2 | 8 | **WM632G** | — | — |
| | | 3 | 6 | **WM633G** | — | — |
| **Class R Fuse Holders** | | | | | | |
| Single collar (box lug)—sized to ampere rating | | 1 | 10 | **WR631HA** | — | — |
| | | 2 | 5 | **WR632HA** | — | — |
| | | 3 | 5 | **WR633HA** | 5 | **WR663HA** |
| Combination of double quick-connect, 20A max., and binding head screw, #10 max., Cu/Al | | 1 | — | — | — | — |
| | | 2 | 1 | **WMR632F** | — | — |
| | | 3 | 6 | **WMR633F** | — | — |
| Combination of double quick-connect, 20A max., and pressure plate screw, #10 max., Cu only | | 1 | 10 | **WMR631G** | — | — |
| | | 3 | 6 | **WMR633G** | — | — |
| **Class R Fuse Holder, Type WRR Control Transformer Fuse Blocks** | | | | | | |
| Combination of double quick-connect, 20A max., and pressure plate screw, #14–#10 Cu only | | 3 | 6 | **WRR633G** | — | — |

***Note***

① Three-pole device is supplied with DIN rail adapter.

## Accessories

### Fuse Holder Accessories

| Description | Catalog Number |
|---|---|
| Fuse puller | **TBP** |
| Lighted fuse puller (120 Vac) | **TBLP** |

## Technical Data and Specifications

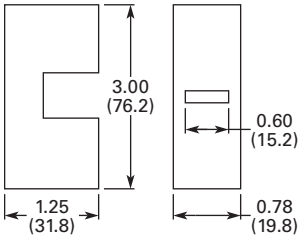
### Fuse Blocks

| Description | Specification |
|---|---|
| Voltage rating | 600V |
| Ampere rating | Pressure plate terminals rated for 30A |
| Dielectric strength | 1200V maximum |
| Ambient temperature | 221°F (105°C) maximum |
| Clip/terminals | Tin-plated copper alloy |
| Screw and captive pressure plate | Zinc-plated steel |
| Base | Thermoplastic UL 94VO flammability rating |
| DIN rail adapter | Thermoplastic UL 94VO flammability rating |

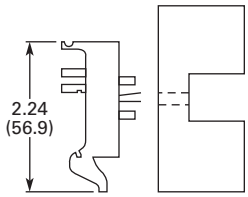
## Dimensions

Approximate Dimensions in Inches (mm)

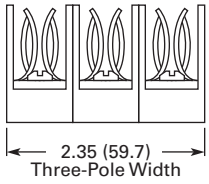
### Fuse Blocks




**Catalog No. C350 Fuse Block**

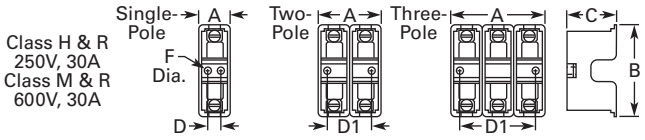


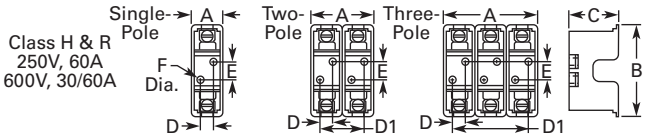

**Catalog No. C350 Fuse Block with DIN Rail Adapter**




**Three-Pole Width**

### Fuse Holders




| Class | Volts/ Amperes | Width A | | | Height B | Depth C | Mounting Holes | | | | | Number of Mounting Holes | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Single-Pole | Two-Pole | Three-Pole | | | D | Two-Pole D1 | Three-Pole D1 | E | Diameter F | Single-Pole | Two-Pole | Three-Pole |
| H, R | 250V, 30A | 1.00 (25.4) | 2.00 (50.8) | 3.00 (76.2) | 3.13 (79.5) | 1.56 (39.6) | 0.38 (9.7) | 1.25 (31.8) | 2.50 (63.5) | — | 0.22 (5.6) | 2 | 2 | 2 |
| | 250V, 60A | 1.44 (36.6) | 2.88 (73.2) | 4.31 (109.5) | 4.75 (120.7) | 2.06 (52.3) | 0.50 (12.7) | 1.81 (46.0) | 3.13 (79.5) | 1.25 (31.8) | 0.22 (5.6) | 2 | 4 | 4 |
| | 600V, 30/60A | 1.69 (42.9) | 3.38 (85.9) | 5.06 (128.5) | 6.94 (176.3) | 2.63 (66.8) | 0.63 (16.0) | 2.19 (55.6) | 3.75 (95.3) | 3.13 (79.5) | 0.28 (7.1) | 2 | 4 | 4 |
| M, R | 600V, 30A | 0.84 (21.3) | 1.63 (41.4) | 2.41 (61.2) | 3.00 (76.2) | 1.28 (32.5) | 0.38 (9.7) | 0.75 (19.1) | 1.50 (38.1) | — | 0.17 (4.3) | 2 | 2 | 2 |