

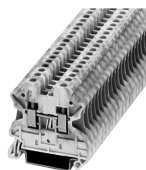
February 2006

Single Level — Ground Block

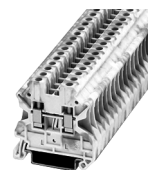
**Screw Connection Single Level — Ground Block**

**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 which meets all requirements of IEC 60-947-7-2.



XBUT25PE



XBUT4PE

**Product Selection**

Table 5. Screw Connection Single Level — Ground Blocks Product Selection

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			5.2 mm 12 AWG / 2.5 mm <sup>2</sup> — / — / 26-12 — / — / 26-12 — / — / 26-12			6.2 mm 10 AWG / 4 mm <sup>2</sup> — / — / 26-10 — / — / 26-10 — / — / 26-10		
Description	Color	Number of Positions	Catalog Number	Price U.S. \$	Standard Pack	Catalog Number	Price U.S. \$	Standard Pack

**Product Selection**

Screw Connection Single Level Ground Block	Green/ Yellow	—	XBUT25PE	4.25	50	XBUT4PE	4.75	50
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**Accessories**

End Cover	Gray	—	XBACUT10	0.50	10	XBACUT10	0.50	10
Partition Plate			XBATUT10	0.65	10	XBATUT10	0.65	10
Plug-In Bridge — for cross connections in the bridge shaft	Red	2	XBAFBS25	0.48	10	XBAFBS26	0.48	10
		3	XBAFBS35	0.96	10	XBAFBS36	0.96	10
		5	XBAFBS55	1.85	10	XBAFBS56	1.85	10
		10	XBAFBS105	3.90	10	XBAFBS106	3.90	10
		50	XBAFBS505	17.80	10	XBAFBS506	22.50	10
Test Adapter			XBATSPAI4	10.70	10	XBATSPAI4	10.70	10
2.3 mm Dia. Test Plug			XBATSMPS- <sup>②</sup>	<sup>②</sup>	—	XBATSMPS- <sup>②</sup>	<sup>②</sup>	—
Modular Test Plug			XBATSPS5	10.30	10	XBATSPS6	10.50	10
Blank Marker Strip (strip of 10)	White	—	XBMZB5 <sup>③</sup>	0.65	10	XBMZB6 <sup>③</sup>	0.65	10
<b>DIN Rail</b> 35 mm x 7.5 mm x 2m (slotted) 35 mm x 7.5 mm x 2m (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (solid)			XBANS3575P	12.00	25	XBANS3575P	12.00	25
			XBANS3575U	12.00	25	XBANS3575U	12.00	25
			XBANS3515P	22.00	25	XBANS3515P	22.00	25
			XBANS3515U	22.00	25	XBANS3515U	22.00	25
<b>End Stop</b> One-Screw Mounted Three-Screw Mounted Snap-On			XBAES35C	1.20	50	XBAES35C	1.20	50
			XBAES35T	0.90	50	XBAES35T	0.90	50
			XBAES35N	0.75	50	XBAES35N	0.75	50

**Technical Data**

<b>Dimensions</b> Width / Length / Cover Width in Inches (mm) Height for 35 x 7.5 / 35 x 15 in Inches (mm)	0.20 (5.2) / 1.85 (46.9) / 0.09 (2.2) 1.87 (47.5) / 2.17 (55.0)	0.24 (6.2) / 1.85 (46.9) / 0.09 (2.2) 1.87 (47.5) / 2.17 (55.0)
<b>Technical Data in Accordance with IEC</b> Maximum Load Current in A / Cross-Section in mm <sup>2</sup> Rated Surge Voltage in kV / Contamination Class Surge Voltage Category / Insulating Material Group	— 8 / 3 III / II	— 8 / 3 III / I
<b>Connection Capacity</b> Stranded with Ferrule / with Ferrule & Plastic Sleeve in mm <sup>2</sup>	0.25 – 2.5 / 0.25 – 2.5	0.25 – 4 / 0.25 – 4
<b>Multi-Conductor Connection</b> (same cross-section) Solid / Stranded in mm <sup>2</sup> Stranded with Ferrules w/o Plastic Sleeve in mm <sup>2</sup> Stranded with Twin Ferrule w/ Plastic Sleeve in mm <sup>2</sup>	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 0.5 – 1.5	0.14 – 1.5 / 0.14 – 1.5 0.25 – 1.5 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)

① EU type — examination certificate number: KEMA 05ATEX2158 U.

② For ordering information, see Table 70 on Page 83.

③ For information on Printed Marking Tag Options, see Page 79.

Discount Symbol ..... 1CD1

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## Technical Data and Specifications

- Insulation material — Polyamide 6.6
- Dielectric strength — 600 kV/cm
- Creep resistance — 600 CTI
- Internal insulation resistance —  $10^{12}\Omega$  cm
- Surface resistance —  $10^{10}\Omega$
- Flammability rating — UL 94 V0
- Continuous operating temperature —  $-40^{\circ} - 257^{\circ}\text{F}$  ( $-40^{\circ} - 125^{\circ}\text{C}$ )

## Standards and Certifications

- UL recognized — File No. E67464
- CE approved
- LVD <sup>①</sup>:
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1
- ATEX approval (EEx e applications)

<sup>①</sup> Not all standards apply to all terminal blocks. Contact Eaton for details.

## Modular Terminal Blocks for Potentially Explosive Environments



The standard modular terminal blocks from Eaton are approved for potentially explosive environments. In addition to the usual approvals, they also have been approved by a testing center authorized by the EU. No extra approval is required in Intrinsic Safety type applications.

Modular terminal blocks on the internet address listed below fulfill the requirements for “Increased Safety” protection type when installation instructions are followed, and have a type examination certificate in accordance with the Ex directive Ex-RL 94/9/EU.

These test certificates are recognized in all the EU member states and beyond.

The modular terminal blocks are approved for fitting in Zone 1, the Ex environment, as well as Zone 2. Zone 1 fitting is conditional upon terminal blocks being used in connection boxes approved for EEx e type protection and having the equivalent of at least IP54 protection.

The EEx approved modular terminal blocks can be divided into the following groups:

- Screw connection terminal blocks
- Spring-cage connection terminal blocks
- Insulation Displacement Connection terminal blocks
- Mini terminal blocks
- Terminal blocks for specialized applications

More detailed information on modular terminal blocks in the EEx e area is available on the internet at [www.EatonElectrical.com](http://www.EatonElectrical.com) for downloading.

Here you will find the following:

- Technical data in accordance with EN 50 019
- Approved accessories
- Important installation instructions and mounting diagrams
- EU type examination certificates
- General information on Ex protection

## Identification

Explosion protected electrical equipment must be marked so that the safety characteristics are identifiable. The identification of electrical equipment is described in the harmonized standard EN 50014, as shown in the following example:

**Table 1. EN 50014 Standard Example**

Manufacturer or Trademark	Eaton
Type Designation	XBUT25
Abbreviation of Explosion Protection	EEx e II
Protection Type Increased Safety “e”	e
Equipment Group	II
Mark of the Testing Body	KEMA
Approval Number	05ATEX2158 U

## Identification in Accordance with ATEX-RL

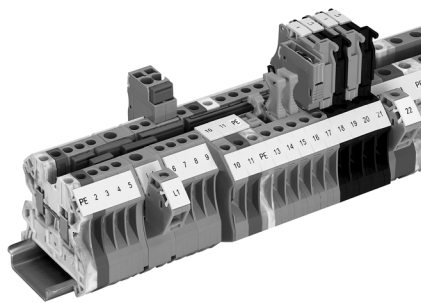
Electrical equipment that is certified in accordance with the ATEX 100a guideline also receives identification describing the site for use.

**Table 2. ATEX Guideline Example**

Manufacturing Data	02.01.2004
Address of the Manufacturer	Duncan, SC
Number of the Appointed Dept.	344
Common Marking	Ex symbol
Equipment Group	II
Category	2
Use in Gas and/or Dust Atmospheres	G D

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*Screw Connection Terminal Blocks*

## Product Description

The XBUT Series utilizes 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. 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 recognized — File No. E67464
- CE approved
- LVD ①:
  - EN 60947-7-1
  - EN 60947-7-2
  - EN 60998-2-3
  - EN 60352-4/A1
- ATEX approval (Eex e applications)

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*Screw Connection*