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Single Level — Through-Feed

5.2 mm

## Screw Connection 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  $\text{mm}^2\text{)}$  to 2/0 AWG (150  $\text{mm}^2\text{)}.$ 





XBUT25

XBUT4

6.2 mm

## **Product Selection**

Terminal Width Maximum Wire Size

## Table 3. Screw Connection Single Level — Through-Feed Terminal Blocks Product Selection

Terminal Width Maximum Wire Size IEC 60 947-7-1 in V / A / AWG EN 50 019 <sup>①</sup> in V / A / AWG UL-cUL Ratings in V / A / AWG			5.2 mm 12 AWG / 2.5 mm <sup>2</sup> 800 / 32 / 26-12 750 / 22/28 / 26-12 600 / 20 / 26-12			6.2 mm 10 AWG / 4 mm <sup>2</sup> 800 / 41 / 26-10 750 / 30/38 / 26-10 600 / 30 / 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 — Through-Feed	Gray Blue Orange Yellow Red White Black Green		XBUT25 XBUT25BU — — — — —	1.45 1.45 — — — — —		XBUT4 XBUT4BU XBUT4OR XBUT4YE XBUT4YE XBUT4RD XBUT4WH XBUT4BK XBUT4GN	1.50 1.50 1.10 1.10 1.10 1.10 1.10	50 50 50 50 50 50
Accessories								
End Cover	Gray	-	XBACUT10	0.50		XBACUT10	0.50	
Partition Plate	Gray	_	XBATUT10	0.65		XBATUT10	0.65	-
Plug-In Bridge — for cross connections in the bridge shaft	Red	2 3 5 10 50	XBAFBS25 XBAFBS35 XBAFBS55 XBAFBS105 XBAFBS505	0.48 0.96 1.85 3.90 17.80	10 10 10	XBAFBS26 XBAFBS36 XBAFBS56 XBAFBS106 XBAFBS506	0.48 0.96 1.85 3.90 22.50	10 10 10
Test Adapter			XBATSPAI4	10.70	_	XBATSPAI4	10.70	10
2.3 mm Dia. Test Plug			XBATSMPS ②	2	_	XBATSMPS ②	2	_
Modular Test Plug			XBATSPS5	10.30	10	XBATSPS6	10.50	10
Blank Marker Strip (strip of 10)	White	_	XBMZB5 3	0.65	10	XBMZB6 3	0.65	10
DIN Rail 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 (solid) 35 mm x 15 mm x 2m (slotted) 35 mm x 15 mm x 2m (slotted)		XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.00 12.00 22.00 22.00	25 25	XBANS3575P XBANS3575U XBANS3515P XBANS3515U	12.00 12.00 22.00 22.00	25 25	
End Stop One-Screw Mounted Three-Screw Mounted Snap-On		XBAES35C XBAES35T XBAES35N	1.20 0.90 0.75	50	XBAES35C XBAES35T XBAES35N	1.20 0.90 0.75	50	
Technical Data								
Dimensions 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)			
Technical Data in Accordance with IEC 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			32 / 4 8 / 3 III / II			41/6 8/3 III/I		
Connection Capacity 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		
Multi-Conductor Connection (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)		

- 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.

М3

5.3 - 7.1 (0.6 - 0.8)

Thread

М3

5.3 - 7.1 (0.6 - 0.8)

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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° 257°F (-40° 125°C)

## **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)
- On 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 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

Tubio 1: Elt 00014 Ottaliaura Example					
Manufacturer or Trademark	Eaton				
Type Designation	XBUT25				
Abbreviation of Explosion Protection	EEx e II				
Protection Type Increased Safety "e"	е				
Equipment Group	II				
Mark of the Testing Body	KEMA				
Approval Number	05ATEX2158 U				

# Identification in Accordance with ATEX-RL

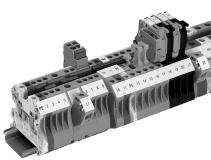
Electrical equipment that is certified in accordance with the ATEX 100a guide-line also receives identification describing the site for use.

**Table 2. ATEX Guideline Example** 

rabio 2. At EX Garacinio 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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High Current Blocks.....

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**

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- CE approved
- LVD 1:
  - □ EN 60947-7-1
  - □ EN 60947-7-2
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  - □ EN 60352-4/A1
- ATEX approval (Eex e applications)
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Screw Connection