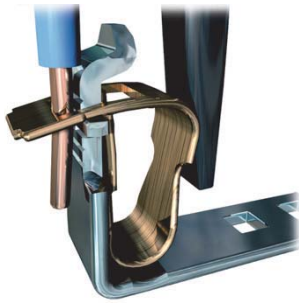
Terminal Blocks, Fuse Blocks and Fuse Holders

Screw Connection

Spring Cage



Insulation Displacement Connection

Learn Online

Revision notes

Volume 7—Logic Control, Operator Interface and Connectivity Solutions, CA08100008E

Tab 8—Terminal Blocks, Fuse Blocks and Fuse Holders

Revision date	Section	Change page(s)	Description
10/31/2019	—	V7-T8-1	Photo caption insert
10/31/2019	8.1	V7-T8-2	Content edits
10/31/2019	8.1	V7-T8-6	Content edits
10/31/2019	8.1	V7-T8-13, V7-T8-15	Content edits
10/31/2019	8.1	V7-T8-16, V7-T8-18	Content edits
10/31/2019	8.1	V7-T8-33, V7-T8-38	Content edits
10/31/2019	8.1	V7-T8-40	Content edits
10/31/2019	8.1	V7-T8-97	Content edits
10/31/2019	8.1	V7-T8-100–V7-T8-103	Content edits
10/31/2019	8.4	V7-T8-128	Content edits

Powering Business Worldwide

IEC—*XB* Series

Contents

8

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
- CSA—File No. 244177

Note

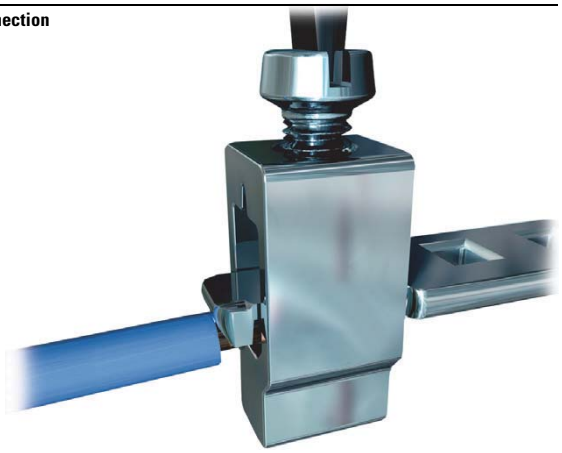
① Not all standards apply to all terminal blocks. Contact Eaton for details.

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



Contents

Drawings Online

8

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

Contents

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**
					Orange	50	**XBUT25OG**
					Yellow	50	**XBUT25YE**
					Red	50	**XBUT25RD**
					White	50	**XBUT25WH**
					Black	50	**XBUT25BK**
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	**XBUT4OG**
					Yellow	50	**XBUT4YE**
					Red	50	**XBUT4RD**
					White	50	**XBUT4WH**
					Black	50	**XBUT4BK**
					Green	50	**XBUT4GN**
					Brown	50	**XBUT4BN**
					Violet	50	**XBUT4VT**
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**
					Red	50	**XBUT6RD**
					White	50	**XBUT6WH**
					Black	50	**XBUT6BK**
					Green	50	**XBUT6GN**
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	**XBUT10OG**
					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

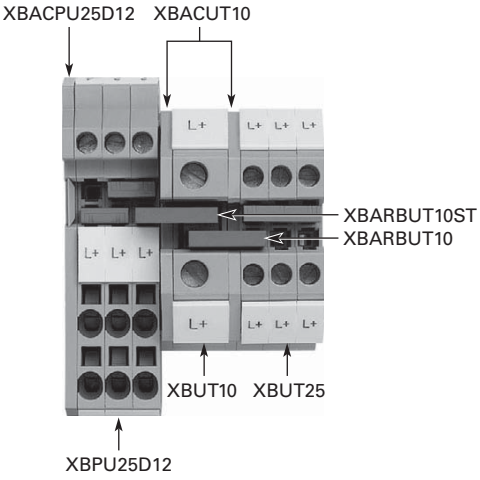
Notes

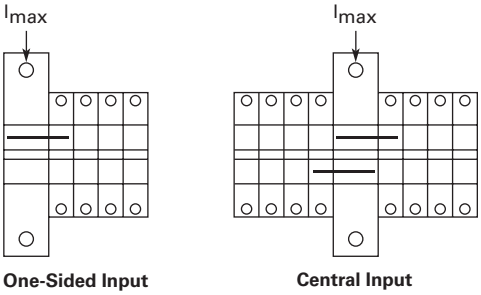
① Enclosed block, no end cover needed.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

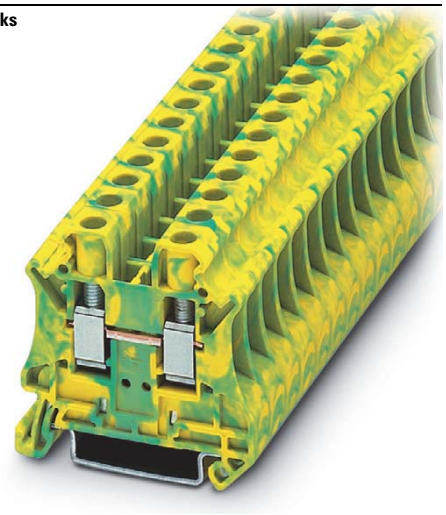
Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBUT25	0.20 (5.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4	0.24 (6.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT6	0.32 (8.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT10	0.40 (10.2)	1.85 (46.9)	0.09 (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-T8-97**.

Single Level—Ground Blocks



Contents

8

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

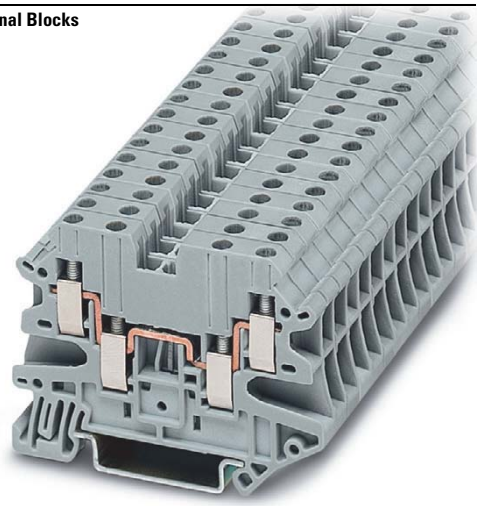
Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBUT25PE	0.20 (5.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT4PE	0.24 (6.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT6PE	0.32 (8.2)	1.85 (46.9)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBUT10PE	0.40 (10.2)	1.85 (46.9)	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-T8-101**.
② For information on Printed Marking Tag Options, see **Page V7-T8-97**.
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



Contents

8

Multi-Conductor Terminal Blocks

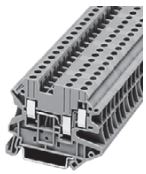
Product Description

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	**—**	**—**	**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)

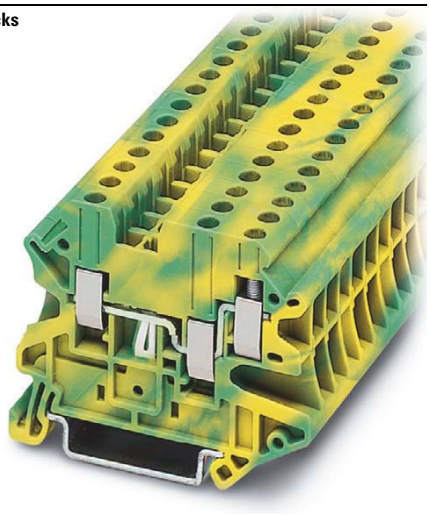
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Multi-Conductor Ground Blocks



Contents

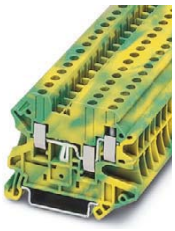
Multi-Conductor Ground Blocks

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	**—**	**—**	**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	Height for— 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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Double Level

Contents

8

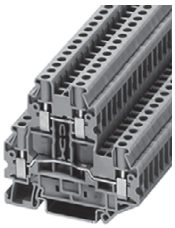
Double Level

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

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						
5.2 mm	12 AWG/2 mm^2	800/32/26–12	600/20/26–12	Gray	50	**XBUTT25**
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

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)

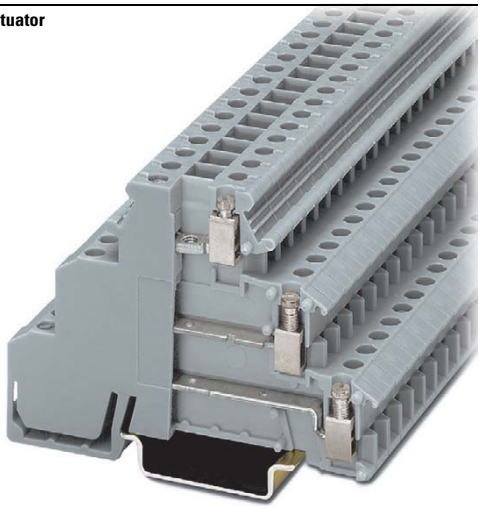
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Triple Level Sensor/Actuator



Contents

8

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.

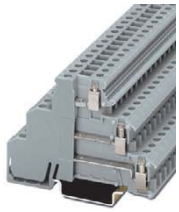
Product Selection

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**
					Blue	50	**XB3UKF25BU**

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**

8

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-T8-97**.

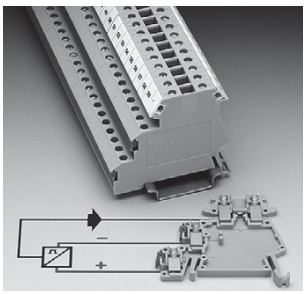
For additional accessories, see **Page V7-T8-90**.

Technical Data and Specifications

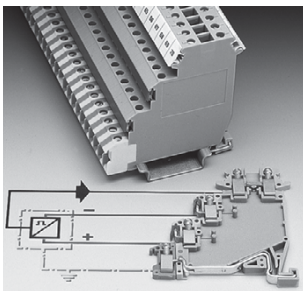
Screw Connection Triple Level Sensor/Actuator

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)

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

Contents

8

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**

8

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		$I_{max.}$ (A)
		Individual	Interconnected	Individual	Interconnected	
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)

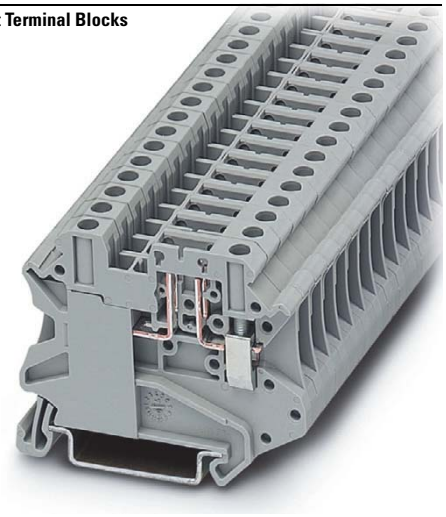
Notes

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-T8-97**.

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

Disconnect and Component Terminal Blocks



Contents

8

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

XBUT4TG Disconnect

Screw Connection Disconnect and Component Terminal Blocks

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**

XBTKT25 Thermal Electric Voltage

Screw Connection Thermoelectric Voltage 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
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)

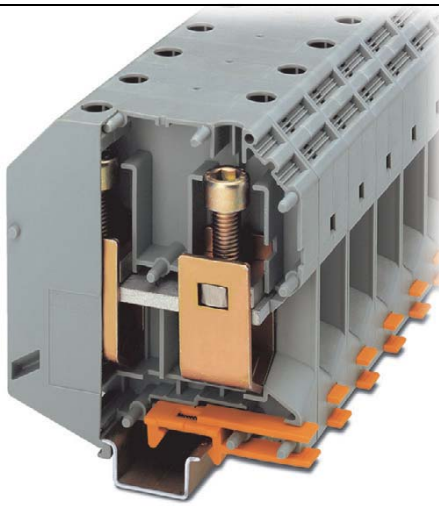
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

High Current Blocks



Contents

8

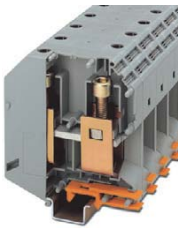
High Current Blocks

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

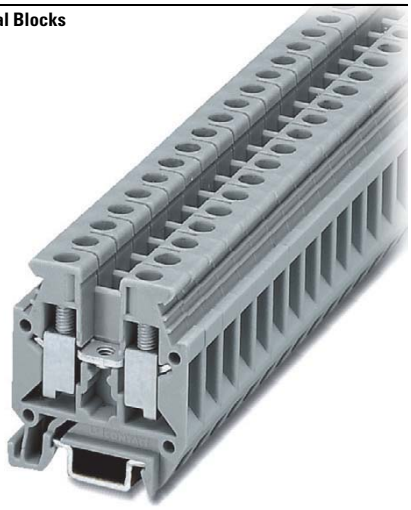
Catalog Number	Width	Length	Height for— 35 x 7.5 in	35 x 15 in	32 in
XBUK50	0.79 (20.0)	2.78 (70.5)	3.29 (83.5)	3.21 (81.5)	—
XBUK150	1.22 (31.0)	3.94 (100.0)	4.67 (118.5)	4.57 (116.0)	—
XBUK95PE	0.98 (25.0)	3.27 (83.0)	—	3.90 (99.0)	3.80 (96.5)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Mini Screw Connection Terminal Blocks



Contents

8

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

8

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

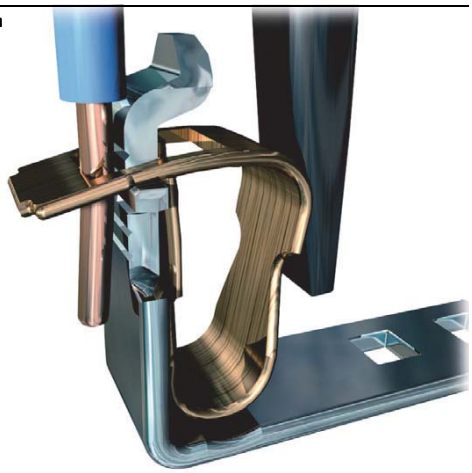
Catalog Number	Width	Length	Cover Length	Height for— 15 in
XBMUK25	0.20 (5.2)	1.10 (28.0)	0.04 (1.0)	1.26 (32.0)
XBMUK4	0.24 (6.2)	1.10 (28.0)	0.04 (1.0)	1.26 (32.0)
XBMUK25PE	0.20 (5.2)	1.10 (28.0)	—	1.24 (31.5)
XBMUK4PE	0.24 (6.2)	1.10 (28.0)	—	1.26 (32.0)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Spring Cage Connection



Contents

8

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

Contents

8

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**
					Green	50	**XBPT4GN**
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

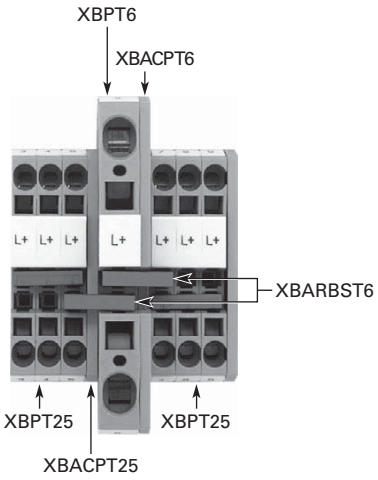
① For ordering information, see **Page V7-T8-101**.

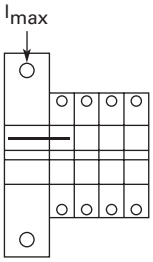
② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

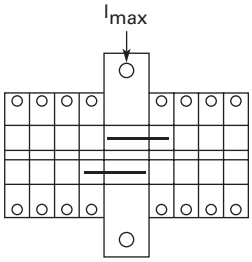
For additional accessories, see **Page V7-T8-90**.

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)

8

Dimensions

Approximate Dimensions in Inches (mm)

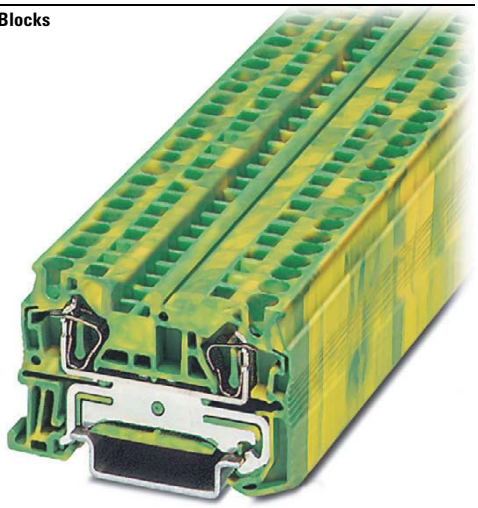
Spring Cage Connection Single Level—Through-Feed

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



Contents

8

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	—	**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)

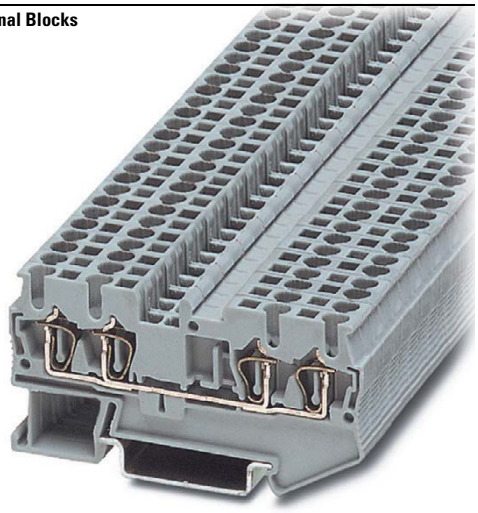
Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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



Contents

8

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**
					Orange	50	**XBPT25D22OG**
					Yellow	50	**XBPT25D22YE**
					Red	50	**XBPT25D22RD**
					White	50	**XBPT25D22WH**
					Black	50	**XBPT25D22BK**
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**

8

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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)

8

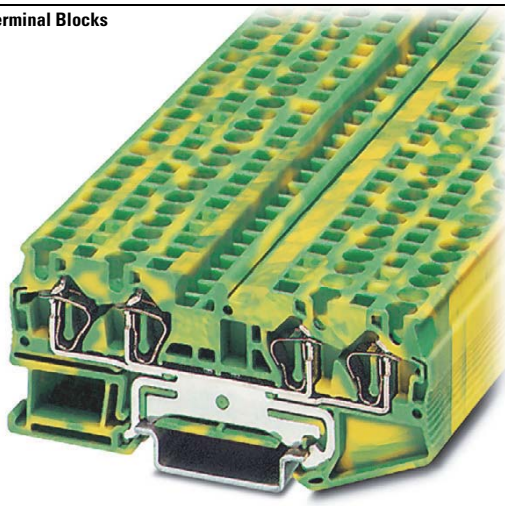
Dimensions

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



Contents

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

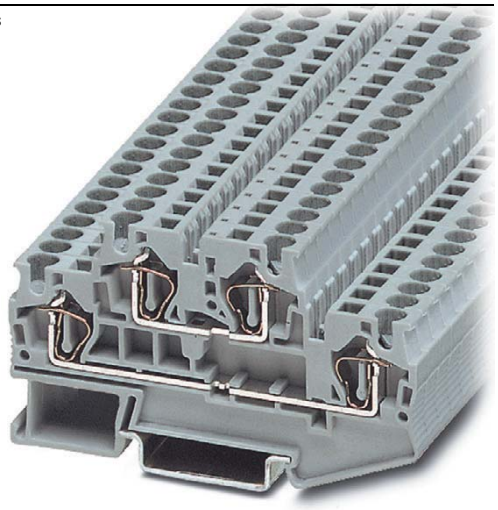
Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBPT25D12PE	0.20 (5.2)	2.38 (60.5)	0.09 (2.2)	1.44 (36.5)	1.73 (44.0)
XBPT4D12PE	0.24 (6.2)	2.81 (71.5)	0.09 (2.2)	1.44 (36.5)	1.73 (44.0)
XBPT25D22PE	0.20 (5.2)	2.83 (72.0)	0.09 (2.2)	1.44 (36.5)	1.73 (44.0)
XBPT4D22PE	0.24 (6.2)	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-T8-97**.

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

Double Level Blocks



Contents

8

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

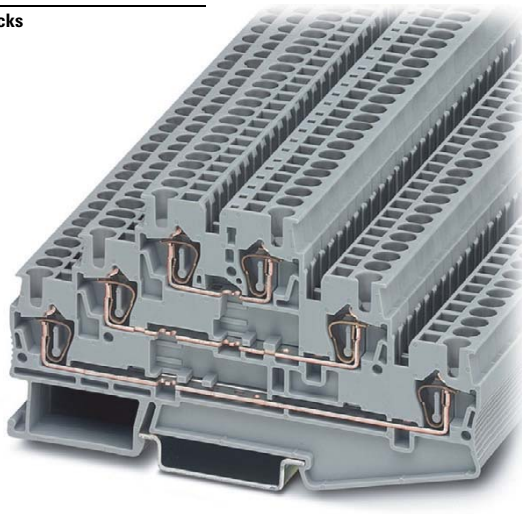
Catalog Number	Width	Length	Cover Width	Height for— 35 x 7.5 in	35 x 15 in
XBPTT25	0.20 (5.2)	2.66 (67.5)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBPTT4	0.24 (6.2)	3.29 (83.5)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBPTT25PE	0.20 (5.2)	2.66 (67.5)	0.09 (2.2)	1.87 (47.5)	2.17 (55.0)
XBPTT4PE	0.24 (6.2)	3.29 (83.5)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

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Triple Level Blocks



Contents

8

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

8

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

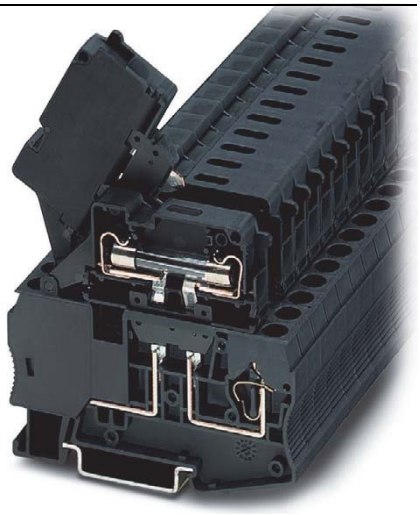
Catalog Number	Width	Length	Cover Length	Height for— 35 x 7.5 in	35 x 15 in
XBPTK25	0.20 (5.2)	3.92 (99.5)	0.09 (2.2)	2.28 (58.0)	2.58 (65.5)
XBPTK25PV	0.20 (5.2)	3.92 (99.5)	0.09 (2.2)	2.28 (58.0)	2.58 (65.5)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Fuse Terminal Blocks



Contents

8

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

8

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-T8-97**.

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		$I_{max.}$ (A)
		Individual	Interconnected	Individual	Interconnected	
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

Contents

8

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Contents

8

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.

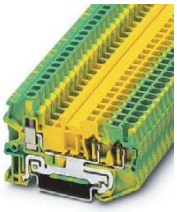
Product Selection

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Mini Spring Cage

Contents

8

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

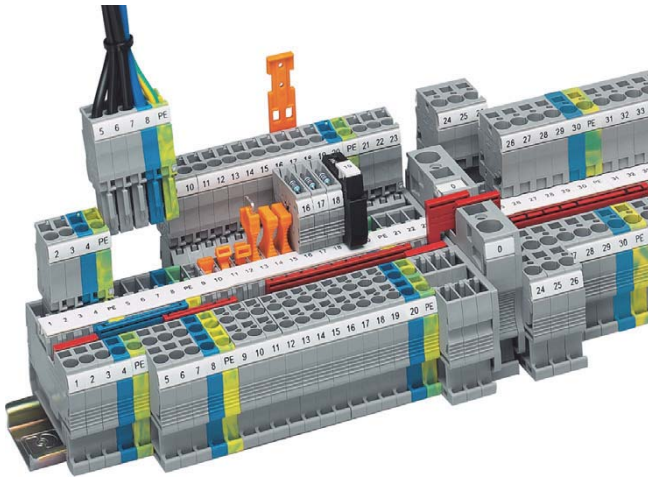
Catalog Number	Width	Length	Cover Length	Height for— 15 x 5.5 in	35 x 7.5 in	35 x 15 in
XBMPK15	0.20 (5.2)	1.57 (40.0)	0.04 (1.1)	1.36 (34.5)	—	—
XBMPK15PE	0.20 (5.2)	1.57 (40.0)	0.04 (1.1)	1.36 (34.5)	—	—
XBMPKK15	0.20 (5.2)	3.35 (85.0)	0.04 (1.1)	1.65 (42.0)	1.67 (42.5)	1.97 (50.0)

Notes

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Pluggable Spring Cage Terminal Blocks



Contents

Pluggable Spring Cage Terminal Blocks Overview

Product Description

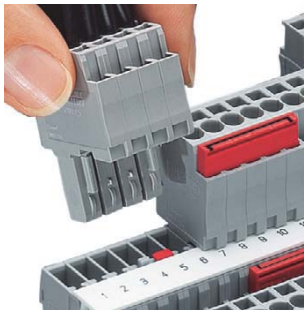
The pluggable spring cage connection terminal blocks allow signal and power wiring to be made pluggable. This complete pluggable system has a spring that provides maximum connection space in a space-saving design. The pluggable system accommodates stranded conductors with a nominal cross-section of 2.5 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

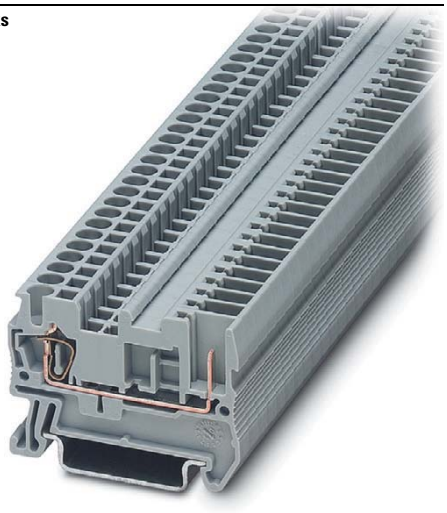
Standards and Certifications

- 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



Contents

8

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

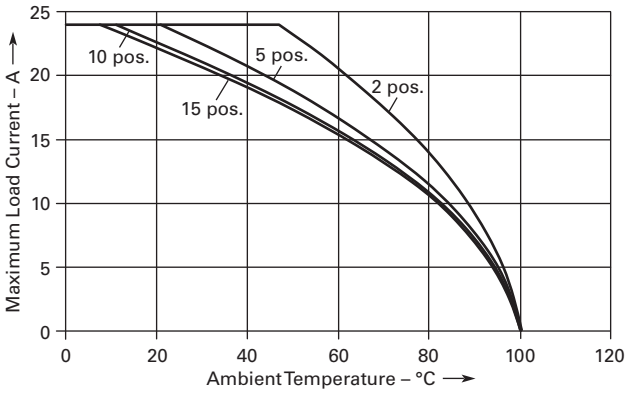
Technical Data and Specifications

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

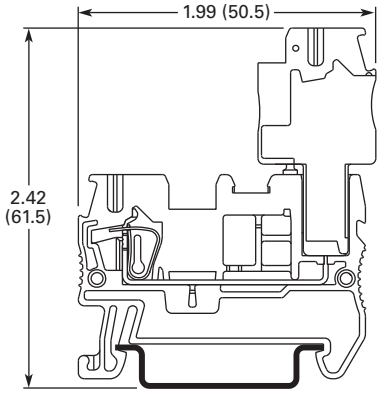
Dimensions

Approximate Dimensions in Inches (mm)

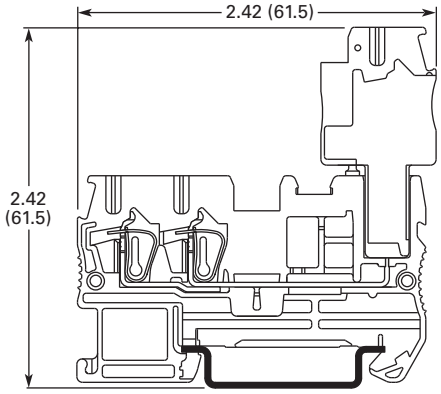
Pluggable Spring Cage Connection Terminal Blocks—Without Plug

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

Contents

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**

8

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-T8-97**.

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

Connection Receptacles

Contents

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Connection Accessories

Product Description

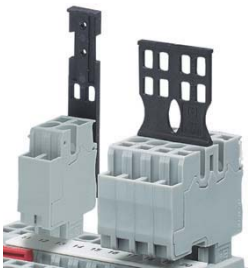
The pluggable XBPT series features an extensive range of application-oriented accessories. Strain reliefs are available for the plugs and can be snapped on at the required points as an option. The snap-lock fitting can be used for all plug variants. It is snapped into the outside of the plug housing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

Product Selection

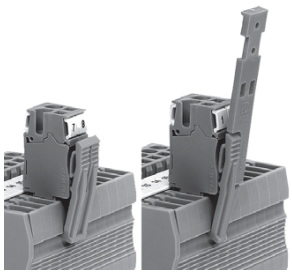
Pluggable Spring Cage Connection Accessories

	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

Contents

Drawings Online

8

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

Contents

8

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.

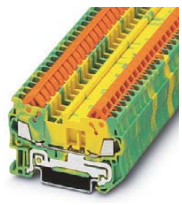
Product Selection

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Multi-Conductor

Contents

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

8

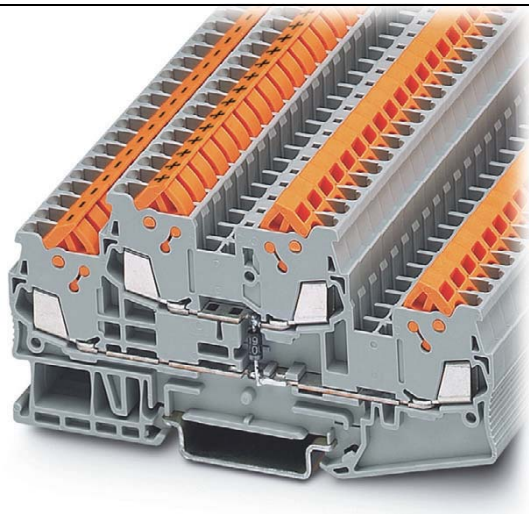
Dimensions

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



Contents

8

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Fuse Terminal Blocks

Contents

8

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)

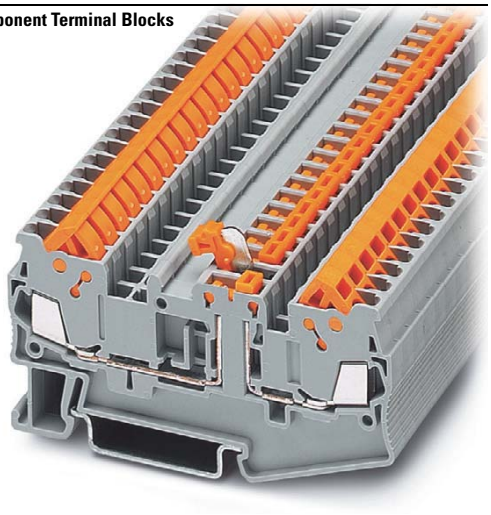
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Disconnect and Component Terminal Blocks



Contents

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)

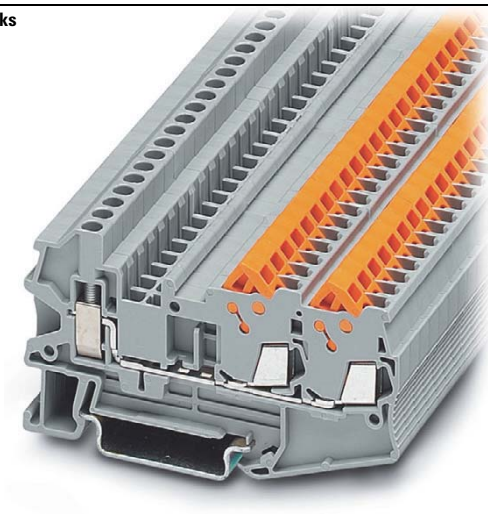
Notes

① For ordering information, see **Page V7-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Hybrid Terminal Blocks



Contents

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

Contents

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

Contents

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

8

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

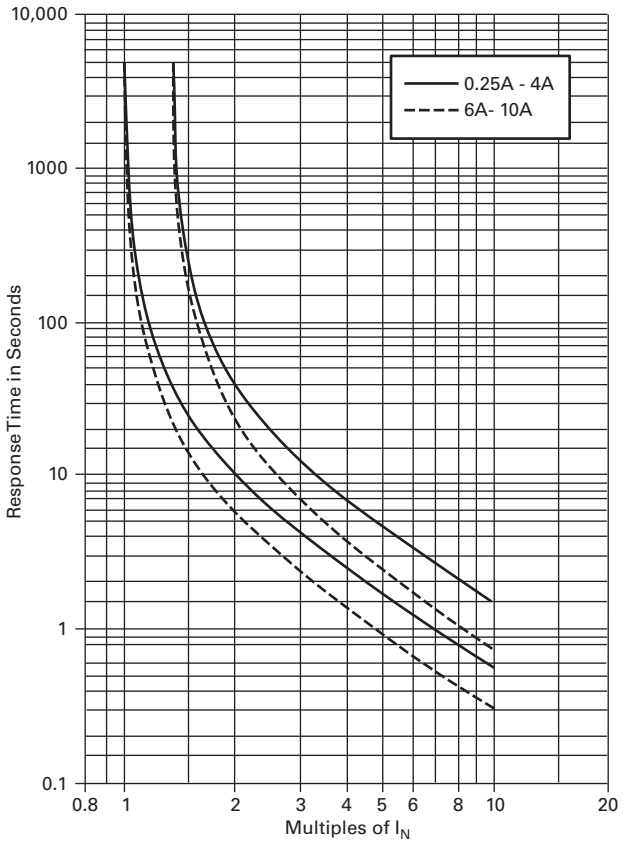
Nominal Current (A)	Internal Resistance (3/4)
0.25	14
0.5	3.4
1.0	0.9
2.0	0.25
3.0	0.11
4.0	0.07
6.0	≤0.05
8.0	≤0.05
10.0	≤0.05

Note

① For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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

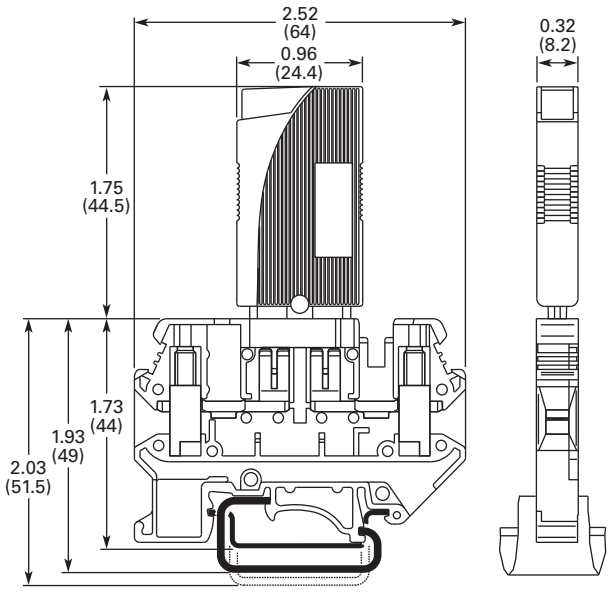
Ambient Temperature	Temperature Factor
–4°F (–20°C)	0.76
14°F (–10°C)	0.84
32°F (0°C)	0.91
73.4°F (23°C)	1.00
104°F (40°C)	1.08
122°F (50°C)	1.16
140°F (60°C)	1.24

8

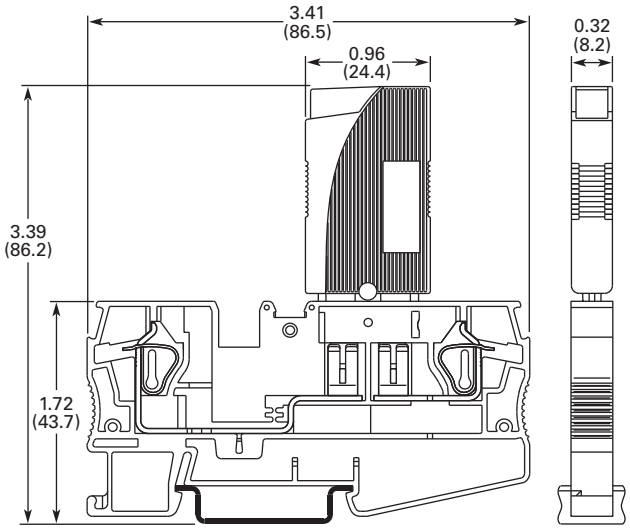
Dimensions

Approximate Dimensions in Inches (mm)

XBUK6FSI with XBAT



XBPT4FSI with XBAT



Flat-Type Fuse Terminal Blocks

Contents

8

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-T8-97**.

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)

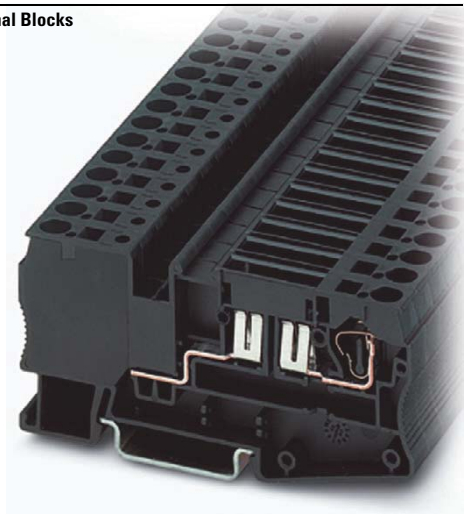
Dimensions

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



Contents

8

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-T8-101**.

② For information on Printed Marking Tag Options, see **Page V7-T8-97**.

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)

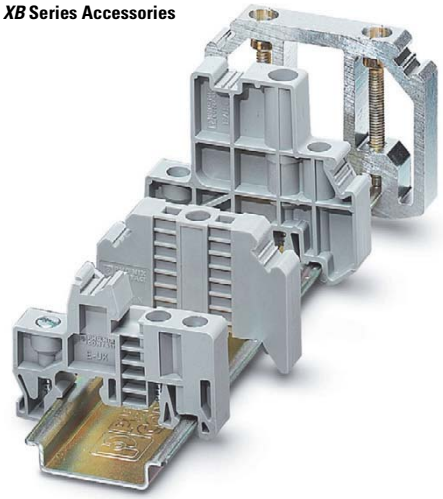
Dimensions

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**



Contents

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

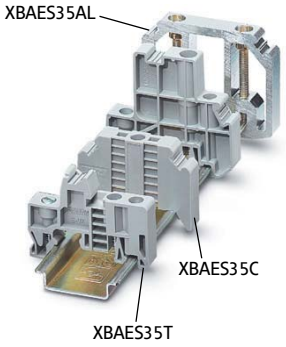
The marking system provides logical and clear identification of the modular terminal blocks and interface modules. The blank marker strip is designed for marking terminal blocks, equipment and smaller modules with marker grooves. The marker strip is available in all common pitches in printed and unprinted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

8

Cross-Reference of Terminal Blocks Marking, End Stops

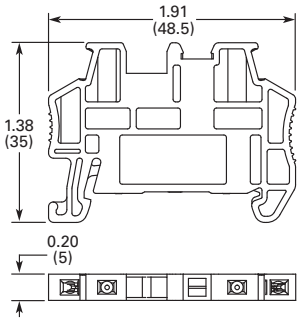
Catalog Number	XBMKLM2	XBMGLMA	XBMUBE
XBAES35N	X	—	—
XBAES35T	—	X	X

Dimensions

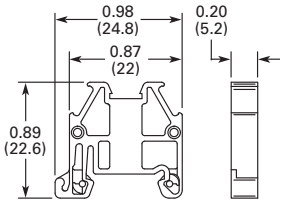
Approximate Dimensions in Inches (mm)

Snap-On End Stop

XBAES35N

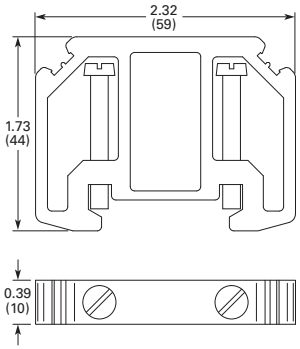


XBAES15N



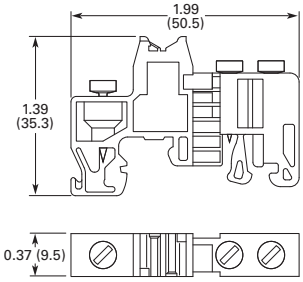
Aluminum End Stop

XBAES35AL

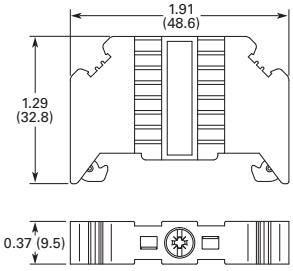


Universal End Stop

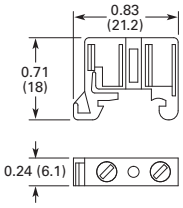
XBAES35T



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**

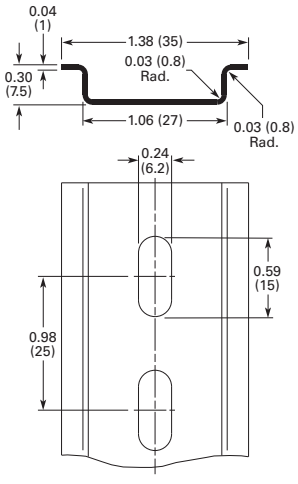
Aluminum DIN Rails (Perforated)

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

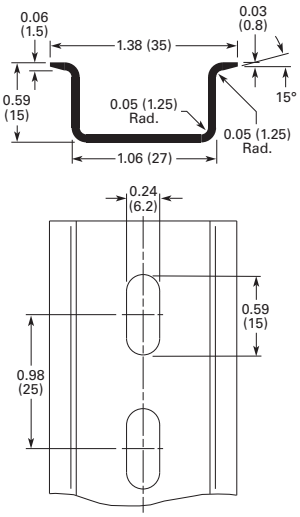
Dimensions

Approximate Dimensions in Inches (mm)

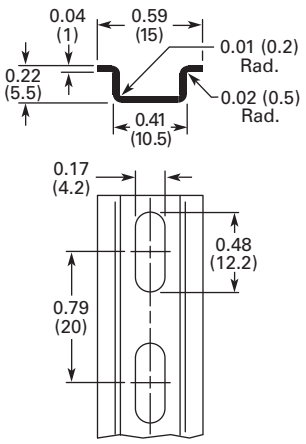
35 x 7.5 mm DIN Rail



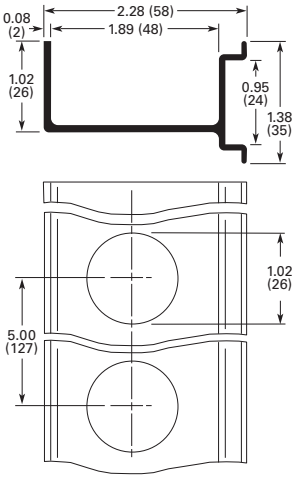
35 x 15 mm DIN Rail



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

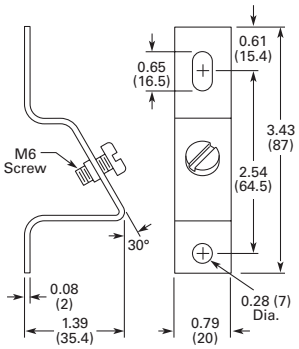
Angled Mounting Bracket

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

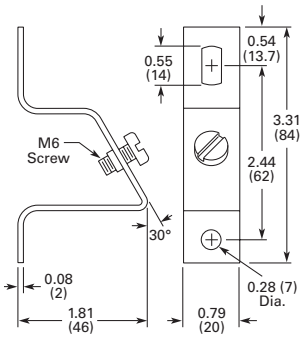
Dimensions

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 (mm²)	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 (mm²)	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 (mm²)	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

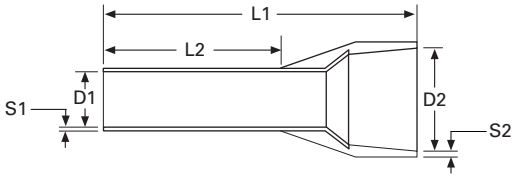
① The colored coding of the various cross-sections corresponds to DIN 46 228-4.

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

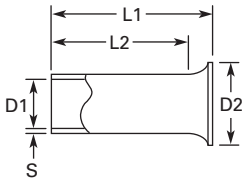
Approximate Dimensions in Inches (mm)

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)

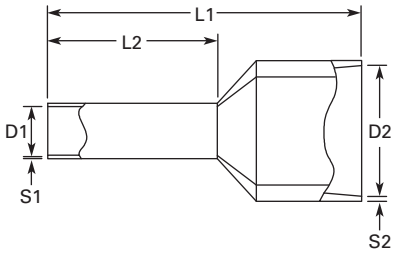
Ferrules without Insulating Collar



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 lb (g)
8.07 (205)	Up to 18 mm	0.44 (200)

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 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	XBMZB12	XBMZBF12	XBMZB15	XBMZBF15	XBMSSZB
XBUT25	XBPT25 ②	XBUT4	XBPT4 ②	XBUT6	XBPT6 ②	XBUT10	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

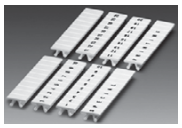
① For center labeling.
② For external labeling.
③ For center and outside labeling.
④ For lever labeling.
⑤ Two (2) XBMZB10 tags fit in one (1) XBMKLMZ.

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**
12 mm	10	**XBMZBF12**
16 mm	10	**XBMZBF15**

Marker Sheets (Strip of 10)

XBMPZB_

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

XBMPZBF_

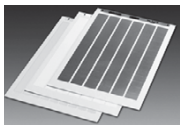
Label Sheets for Laser Printers

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
- XBMGLMA and is 44 x 7 mm

Product Selection

XBM_



Label Sheets

Standard Pack	Catalog Number
10	**XBMKL25X12WH**

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**

Note

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

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**

Marker Pens

Marker pen for custom labeling

Product Selection

XBM_

Terminal Strip Marker Pens ①

Line Thickness	Standard Pack	Catalog Number
0.35 mm	1	**XBMXPEN**
0.50 mm	10	**XBMBSTIFT**

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

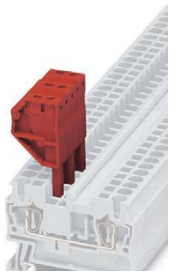
Standard Pack	Catalog Number
1	**XBATSPAI4**

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

XBATSMP_

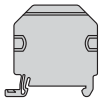
Test Plugs

Standard Pack	Insulating Sleeve Color	Catalog Number
2.3 mm		
10	Metal test plug ②	**XBATSMPSMT**
10	Blue	**XBATSMPSIHBU**
10	White	**XBATSMPSIHWH**
10	Red	**XBATSMPSIHRD**
10	Black	**XBATSMPSIHBK**

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.

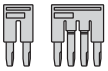


Partition Plate

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.



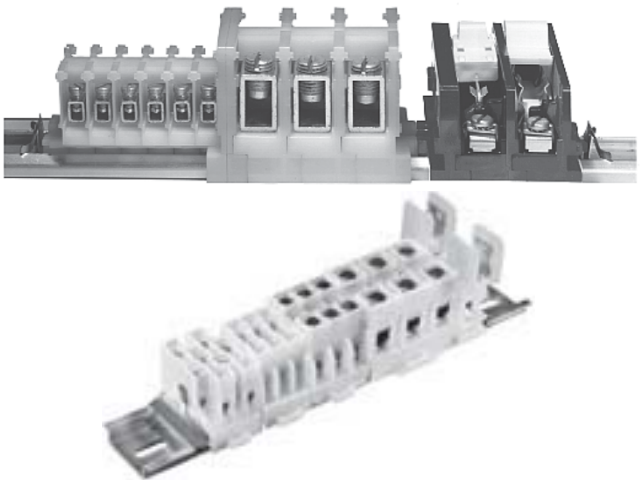
Jumper/Bridge

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.

Notes

① See **Page V7-T8-100** for insert labels.
② Metal plugs sold separately from insulating sleeves.
See these accessories as listed with terminal blocks for more information.

NEMA



Contents

NEMA Overview

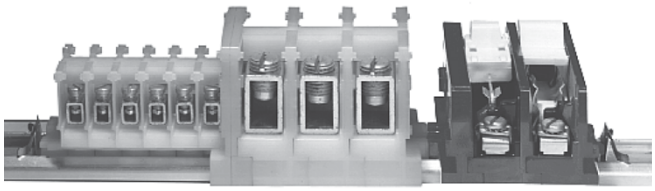
Product Description

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

C381 Series Terminal Blocks, Rail Mounted

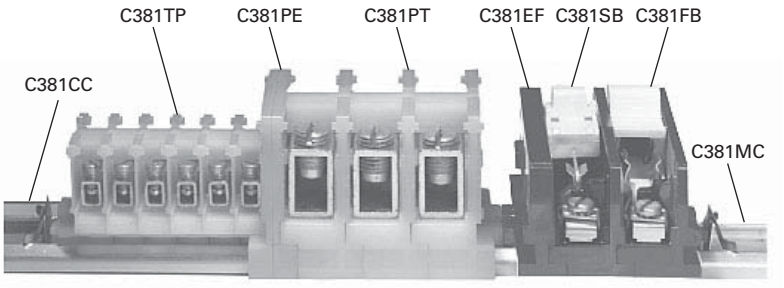
Product Description

- 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

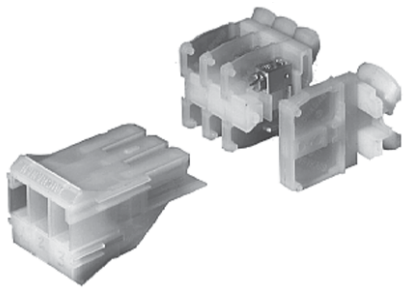
Description	Standard Pack ②	Catalog Number
Aluminum mounting channel—6 ft (1.8m) lengths	25	**C381MC**
Screw type channel clamp (one required each end) ③	100	**C381VC**
Spring type channel clamp (one required each end) ③	100	**C381CC**
Vinyl marking strip—3/8 in x 25 ft (9.5 mm x 7.6m) coil	1	**C381MS**
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

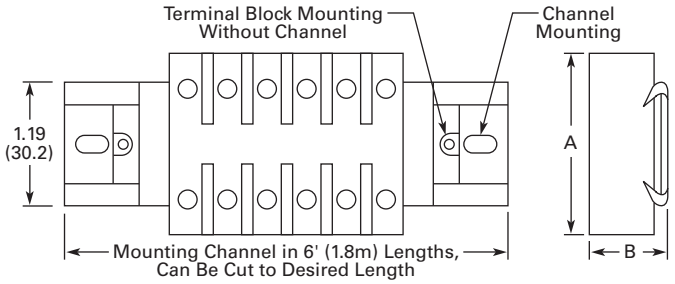
C381 Series Terminal Blocks, Rail Mounted

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

Contents

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

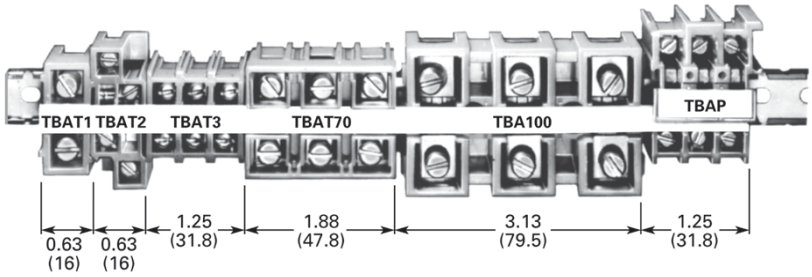
- Insulated walls of lug guide wire into lug
- Blocks are shipped with clamping screw backed out
- Constant locking torque keeps terminal screws in position
- Terminal screws are captive; cannot be lost in shipment or handling
- Hardened stainless steel clamping collar eliminates stripped threads
- Large 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

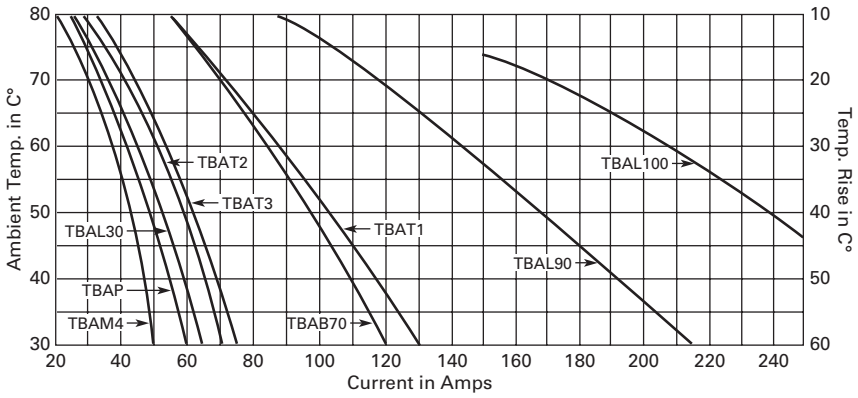
Wire Size	Torque
Up to 8 AWG	20 lb-in
Up to 4 AWG	35 lb-in
Up to 2/0 AWG	50 lb-in

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.

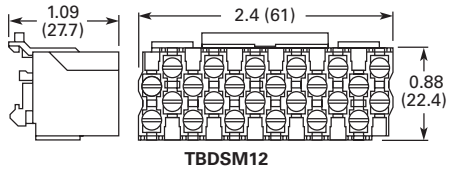
Temperature Rating



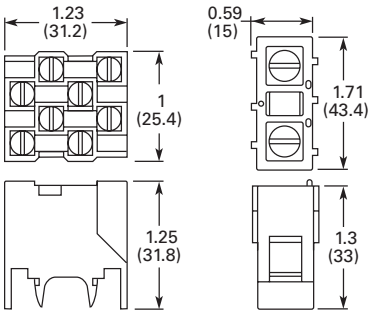
Dimensions

Approximate Dimensions in Inches (mm)

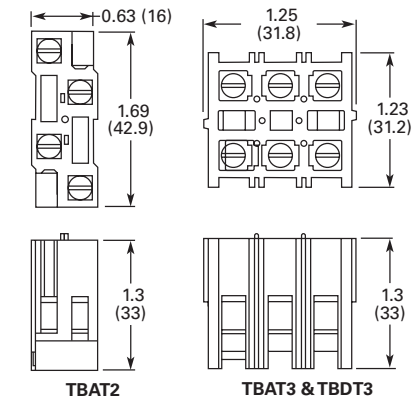
TB Series Terminal Blocks, Modular



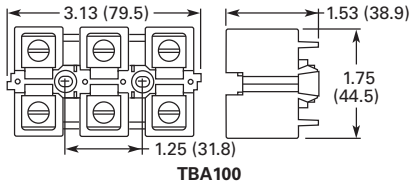
TBDSM12



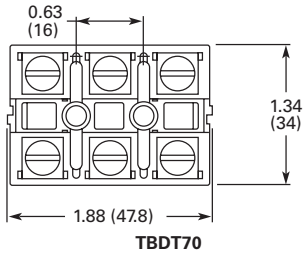
TBDV4 TBDT1



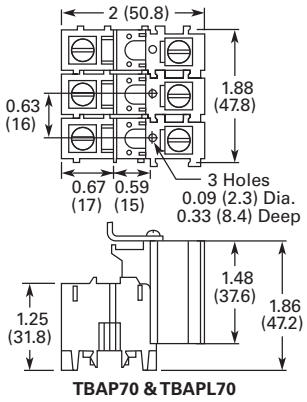
TBAT2 TBAT3 & TBDT3



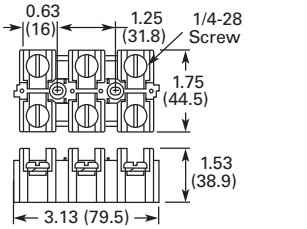
TBA100



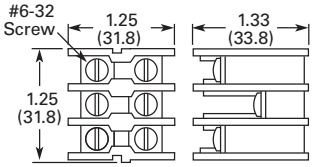
TBDT70



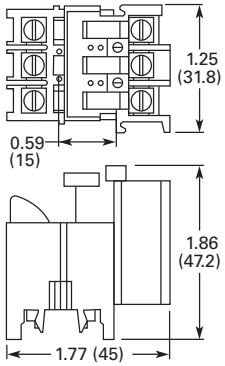
TBAP70 & TBAPL70



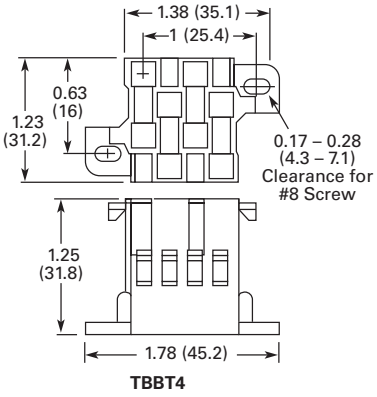
TBAL90



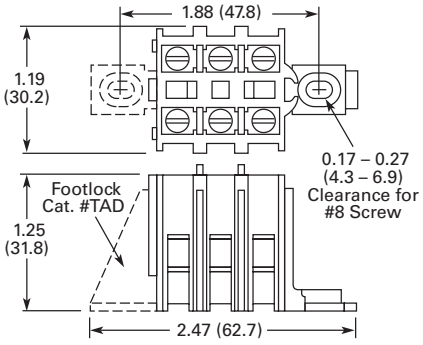
TBAL30



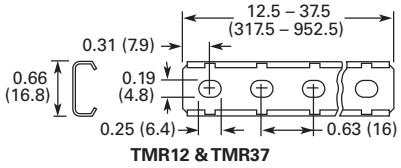
TBAP



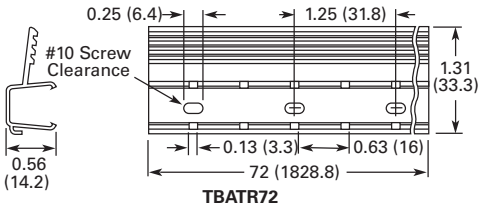
TBBT4



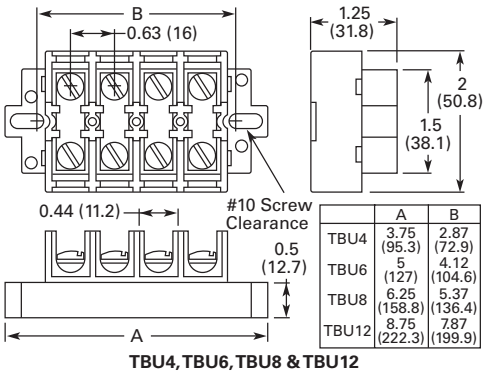
TBABT3



TMR12 & TMR37

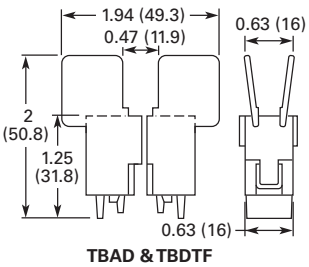


TBATR72



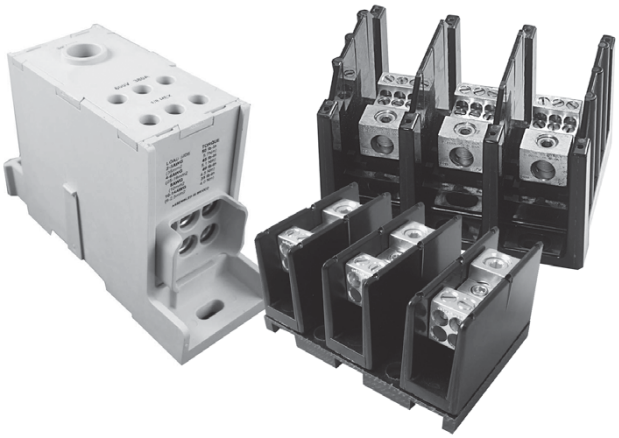
	A	B
TBU4	3.75 (95.3)	2.87 (72.9)
TBU6	5 (127)	4.12 (104.6)
TBU8	6.25 (158.8)	5.37 (136.4)
TBU12	8.75 (222.3)	7.87 (199.9)

TBU4, TBU6, TBU8 & TBU12



TBAD & TBDTF

Power Distribution Products



Contents

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-T8-114** to determine short circuit current ratings with fuses and **Pages V7-T8-115** and **V7-T8-116** 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

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)

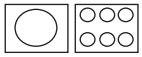
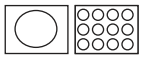
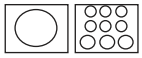
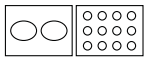
Standards and Certifications

- 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

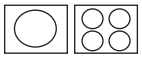
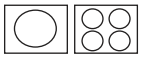
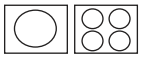
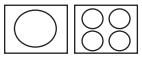
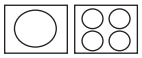
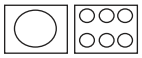
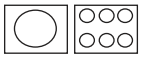
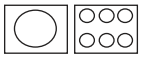
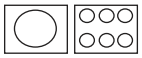
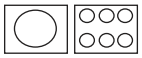
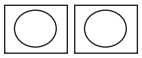
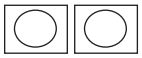
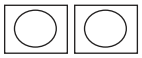
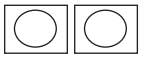
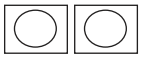
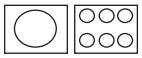
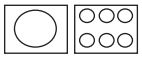
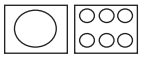
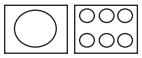
Power Terminal Block Short-Circuit Current Ratings (SCCR) with Fuses

Catalog Number	Terminal Copper Conductors Line	Load	Maximum Fuse Class and Amperes J LPJ	T JJS/JJN	RK-1 LPS-RK/LPN-RK	RK-5 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.

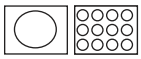
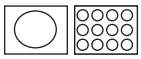
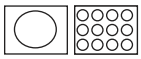
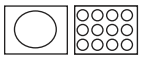
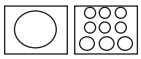
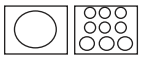
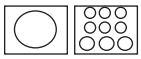
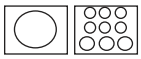
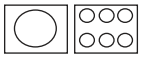
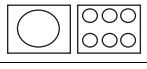
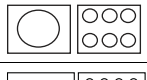
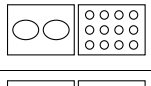
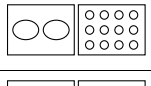
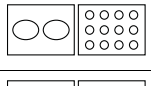
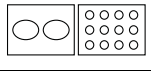
Power Terminal Block Short-Circuit Ratings (SCCR) for UL 508A Applications with Circuit Breakers

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 #12 #14	18 kA 18 kA 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 #12 #14	25 kA 22 kA 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 #12 #14	50 kA 22 kA 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 #12 #14	65 kA 22 kA 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 #12 #14	65 kA 22 kA 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 #12 #14	18 kA 18 kA 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 #12 #14	25 kA 22 kA 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 #12 #14	50 kA 22 kA 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 #12 #14	65 kA 22 kA 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 #12 #14	65 kA 22 kA 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 #8 #10	25 kA 25 kA 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 #8 #10	35 kA 35 kA 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 #8 #10	65 kA 42 kA 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 #8 #10	65 kA 42 kA 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 #8 #10	25 kA 25 kA 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 #8 #10	35 kA 35 kA 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 #8 #10	65 kA 42 kA 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 #8 #10	65 kA 42 kA 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 #8 #10	25 kA 25 kA 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 #8 #10	35 kA 35 kA 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 #8 #10	50 kA 42 kA 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 #8 #10	65 kA 50 kA 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 #6 #8	30 kA 18 kA 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 #6 #8	30 kA 18 kA 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 #6 #8	30 kA 18 kA 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 #6 #8	42 kA 35 kA 14 kA	LGC600 ①	250, 300, 350, 400, 500, 600

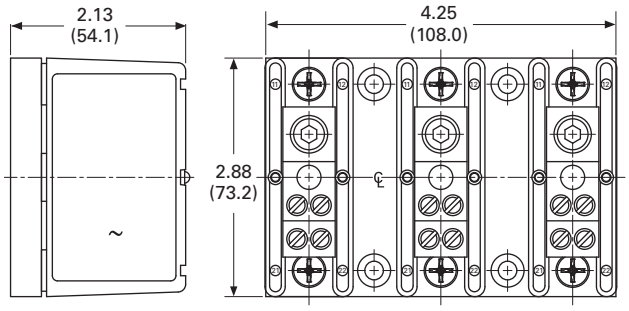
Note

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

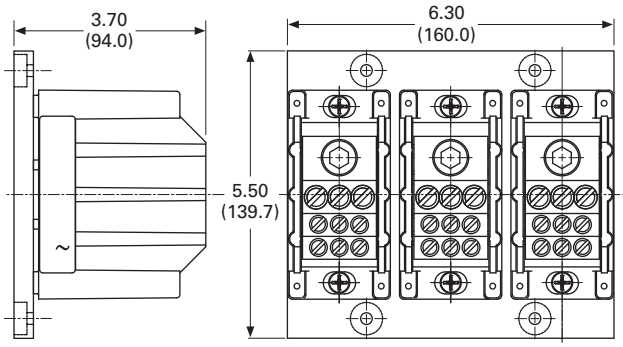
Dimensions

Approximate Dimensions in Inches (mm)

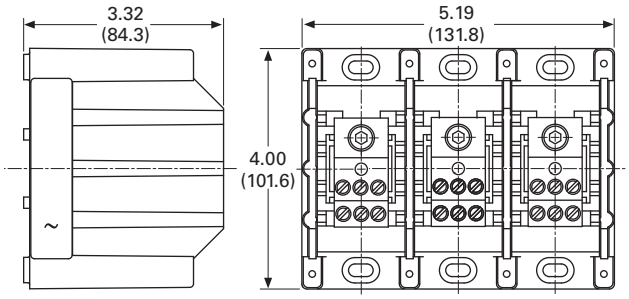
CHDB2203



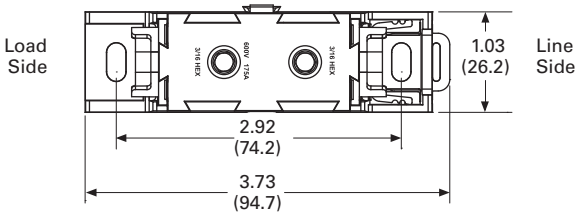
CHDB3713



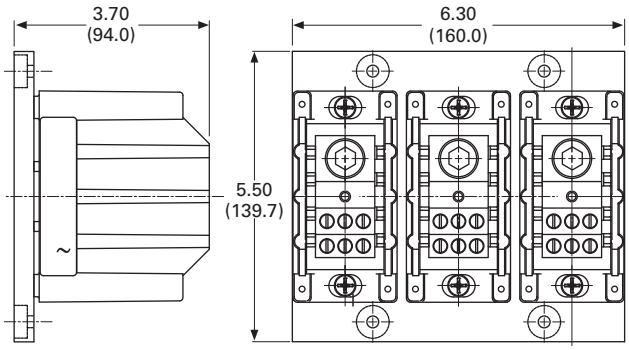
CHDB3213

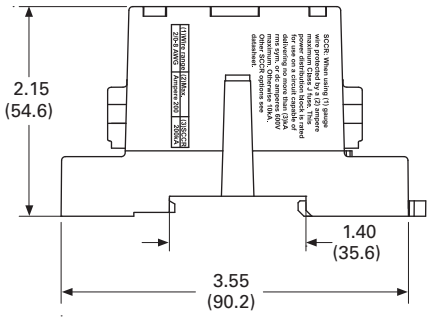


CHDB204F

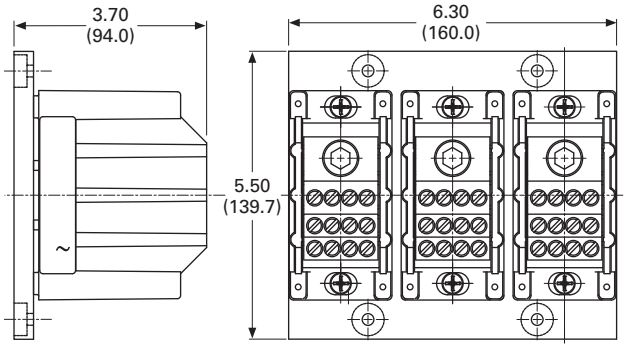


CHDB3233



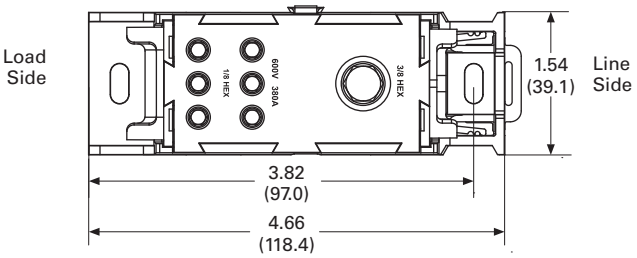


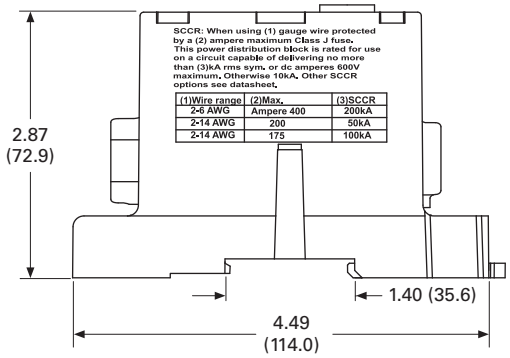
CHDB3703



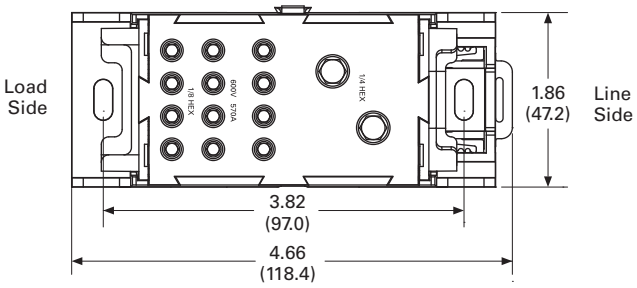
Approximate Dimensions in Inches (mm)

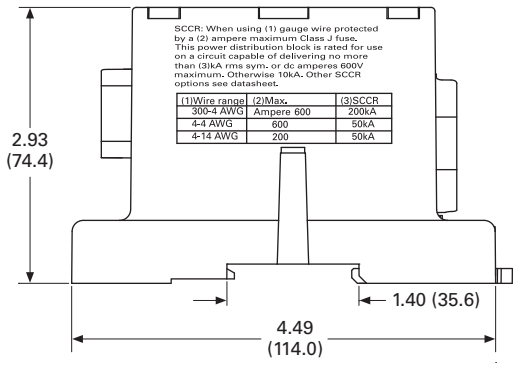
CHDB330F





CHDB377F





8

CH160 Series—Power Terminal Blocks

Contents

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-T8-121**

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

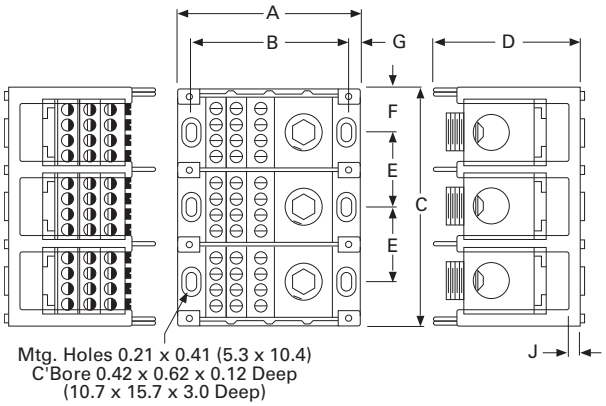
Description	Specification
Ratings	To 840A, 600V
Materials	Molded material; black, UL rated 94V-0 thermoplastic
Operating temperature	302°F (150°C)

Note: For optional cover, see Power Terminal Block Accessories, **Page V7-T8-122**.

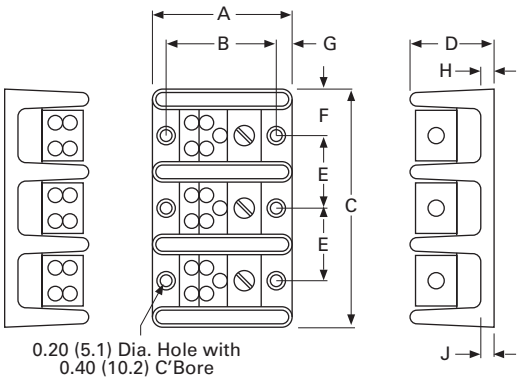
Dimensions

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

Contents

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

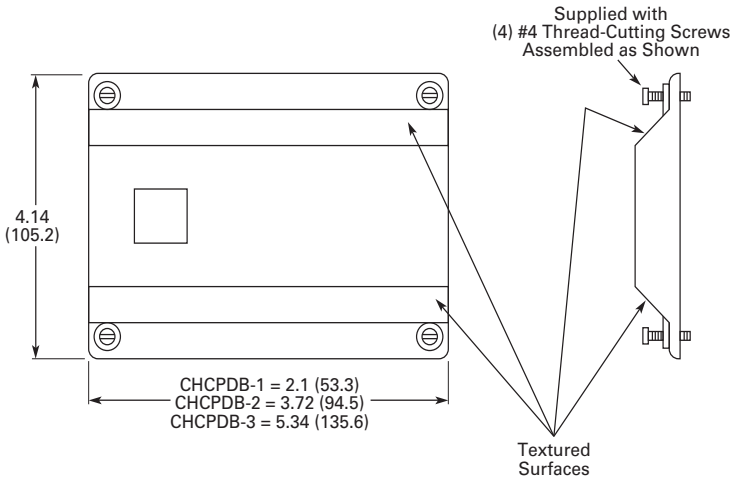
TB Series Power Blocks

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

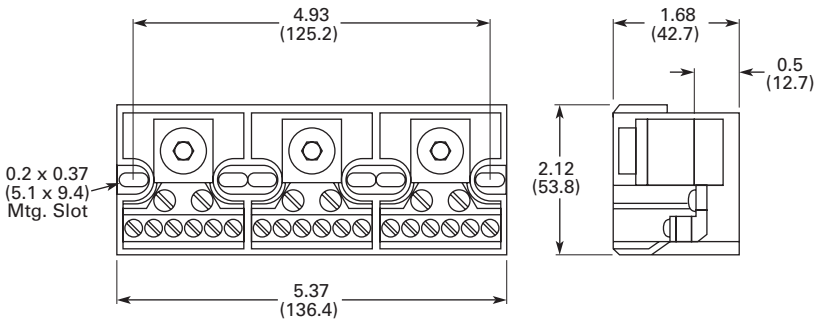
Dimensions

Approximate Dimensions in Inches (mm)

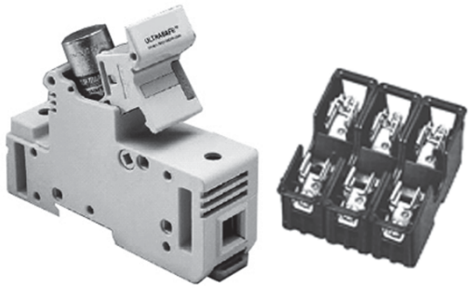
CH163 Series Cover



TB Series Power Blocks



Fuse Blocks and Fuse Holders



Contents

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

Contents

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**

Technical Data and Specifications

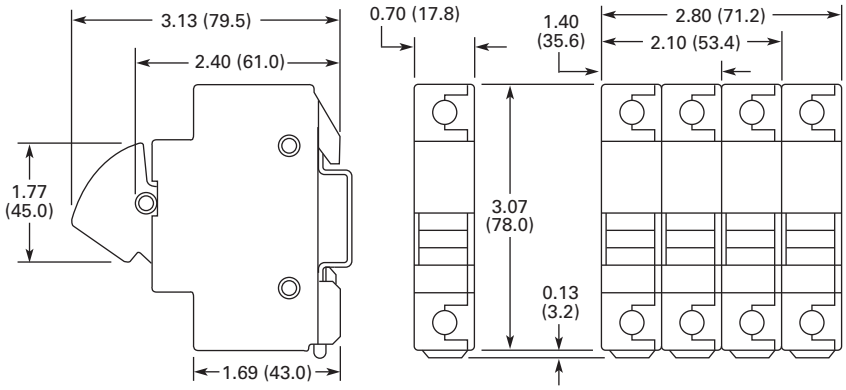
Disconnect Fuse Holders ①

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

Contents

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.

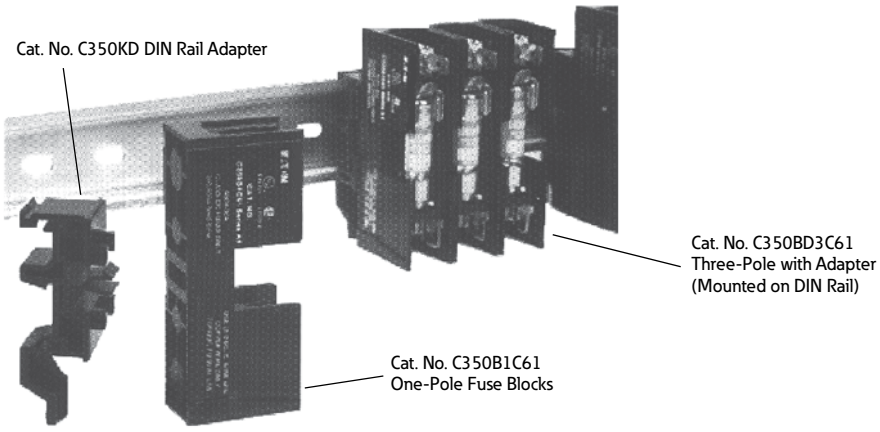
Fuse Blocks

- 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

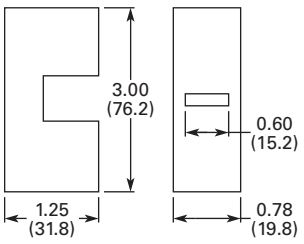
Fuse Blocks

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

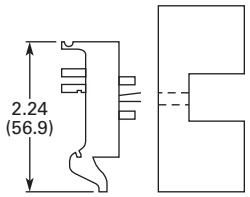
Dimensions

Approximate Dimensions in Inches (mm)

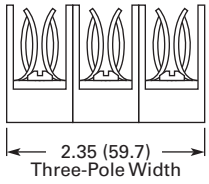
Fuse Blocks



Catalog No. C350 Fuse Block

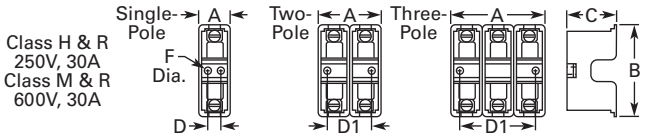


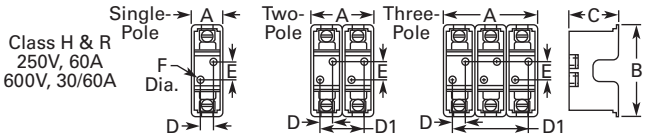
Catalog No. C350 Fuse Block with DIN Rail Adapter



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