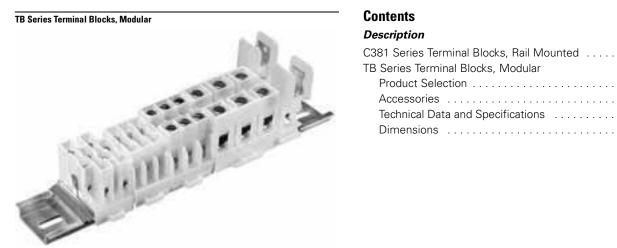
# Terminal Blocks, Fuse Blocks and Fuse Holders

NEMA

Product Selection .....

Accessories .....



## **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



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Technical Data and Specifications
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Dimensions
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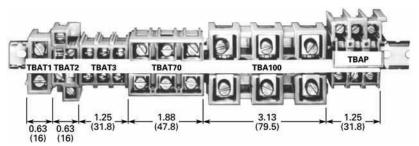
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V7-T8-107

V7-T8-112 V7-T8-113

## **Product Selection**

## **TBA Modular Terminal Blocks**



#### **Rail and Base Mounted Terminal Blocks**

					TBA Rail	DIN Rail <sup>3</sup>
Description	AWG Wire Size	Number of Poles	Ampacity (per Circuit) ①	Carton Quantity <sup>©</sup>	Catalog Number	Catalog Number
Rail Mounted—600V						
Subminiature blocks	(2) 14–12	12	5A	100	TBDSM12 <sup>(4)</sup>	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 6	_
Standard blocks—plug-in terminals	22–8	3	40A	20	ТВАР	_
	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 <sup>(6)</sup>	25	TBU4	_
	8 maximum	6	50A <sup>(6)</sup>	60	TBU6	_
	8 maximum	8	50A <sup>©</sup>	45	TBU8	_
	8 maximum	12	50A 6	35	TBU12	_

#### Notes

<sup>①</sup> Based on 50°C rise, test at 25°C ambient while using maximum wire size.

 $\ensuremath{\textcircled{0}}$  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.

( May also be mounted on mini-DIN rail (15 mm). Catalog Number C383TS15.

<sup>⑤</sup> May also be base mounted.

<sup>(6)</sup> TBU Series = 60A with crimped wire.

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## Accessories

#### **TB Series Terminal Blocks, Modular**

Description	Length 1	Number of Poles	Carton Quantity <sup>②</sup>	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	ТВР
Lighted fuse puller—blown fuse indication	_	_	25	TBLP

#### Notes

① Length in inches (mm) except as noted.

<sup>(2)</sup> 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

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- Mineral oil
- Sodium bisulfate
- Sodium chloride
- Sodium nitrate
- Water up to 50°C

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.

## Flashover Voltages

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

Ampere rating is based

on maximum allowable

temperature-ambient

temperature rise due

temperature plus

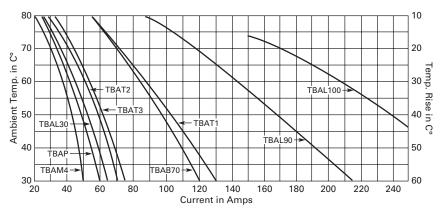
to current.

#### 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	

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

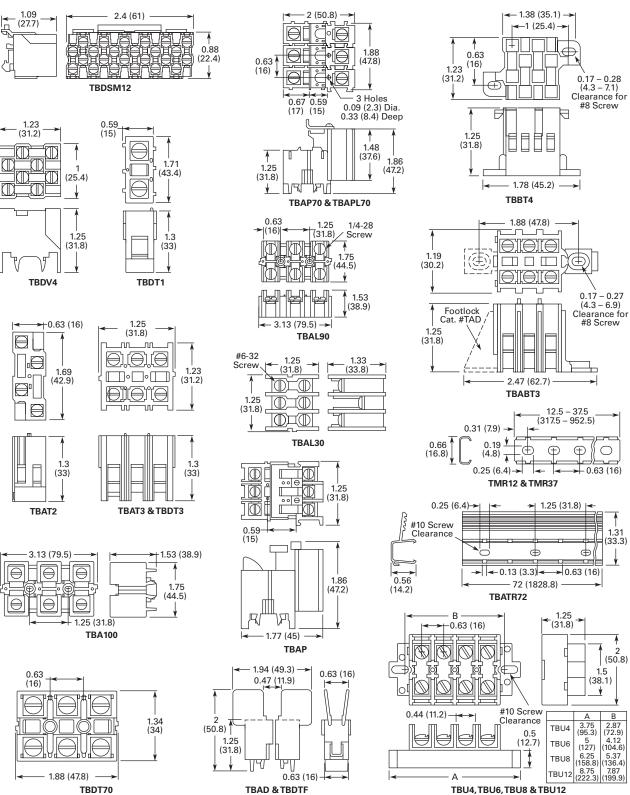
## **Temperature Rating**



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Approximate Dimensions in Inches (mm)

## **TB Series Terminal Blocks, Modular**



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