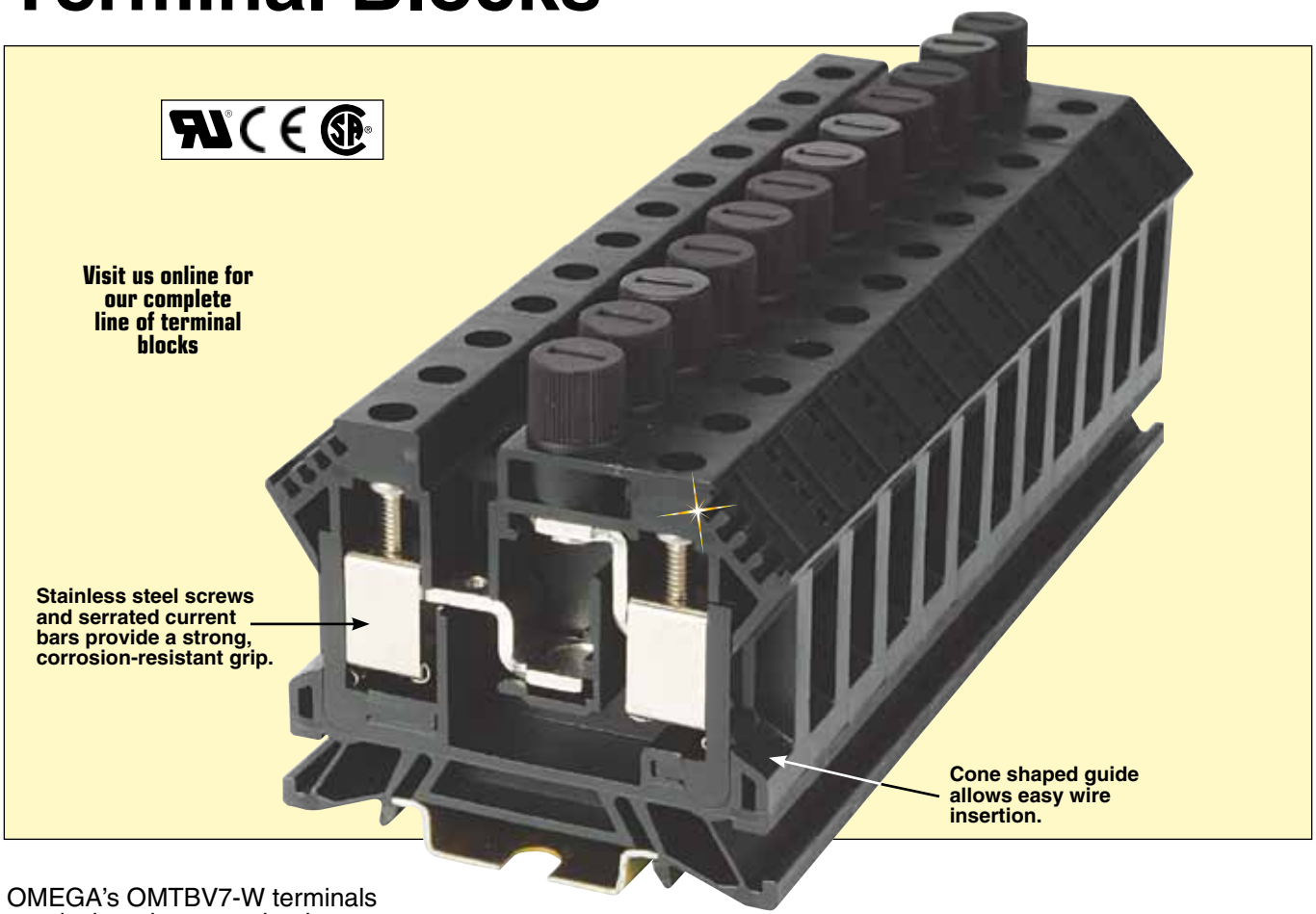
Introduction to DIN Rail Terminal Blocks



OMEGA's OMTBV7-W terminals are designed to meet the three most important criteria when selecting a terminal block line – ease of wiring, secure connections and durability. The line is also comprehensive, offering a wide array of terminal types for most circuits and functions, from control to low level power.

The Size You Need

OMTBV7-W feed-through terminals come in ten sizes and are rated to 600 Vac (800V-IEC). They accommodate a full range of wire sizes from 30 AWG to 3/0 AWG (0.5 mm^2 to 70 mm^2 wire cross section). Many "specialty" feed-through terminals are also available that provide multiple terminations or increase the density of connections. This reduces panel space and saves money.

Comprehensive Selection of Special Terminals

Aside from the broad selection of standard feed-through terminals, many special terminals are also part of the OMTBV7-W line, including:

- **Two level terminals**
- **High current terminals**
- **Ground terminals**
- **Dual connection terminals**
- **Diode and resistor terminals**
- **Plug-in style terminals**
- **Various isolating terminals**
- **Fuse terminals**
- **Sensor terminals**
- **Thermocouple terminals**
- **Proximity switch terminals**

Even the most varied circuit requirements can be supported by the broad selection offered with this line.

Super Reliable Connections

The most important aspect of a terminal block is to join wires in a reliable connection. With OMTBV7-W terminals, a cone shaped guide allows easy insertion of the wire into a nickel plated barrel. As tightening torque is applied to strong stainless steel screws, the wire is secured between a recessed contact pad and serrated current bar. This corrosion-resistant clamping mechanism provides excellent performance in the most demanding industrial conditions.

Superior Insulation and Protection Features

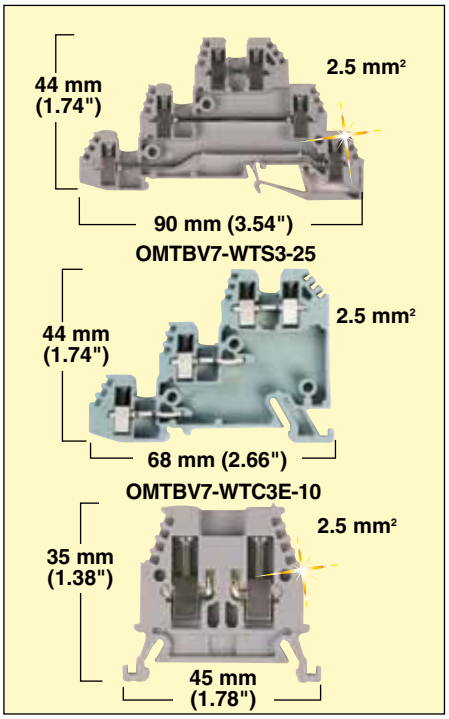
All metal parts are recessed, providing a touch-safe, dead front design for optimum safety. Terminal bodies are manufactured from Polyamide 6.6, known for its excellent thermal stability, impact resistance and resistance to electrical creepage. The insulating cases are rated up to 90°C (195°F) for continuous operation. They also stay elastic down to -40°C (-40°F) without fracturing.

International Approvals

OMEGA's OMTBV7-W terminal block line is UL recognized and CSA Certified. Many terminals have also been certified for use in hazardous locations. The line also carries the CE Mark for use in most international markets.

DIN Rail Terminal Blocks

- Thermocouple and Sensor Terminal Blocks
- Type J, K, T, E Terminal Blocks
- Easy-to-Use Sensor Terminal Blocks
- Reliable Connections



Standard Thermocouple Blocks

To Order	
BAR MATERIAL	**MODEL NO**
Chrome/Constantan - Type E	**OMTBV7-WTC3E-10**
Iron/Constantan - Type J	**OMTBV7-WTC3J-10**
Chromel/Alumel - Type K	**OMTBV7-WTC3K-10**
Copper/Constantan - Type T	**OMTBV7-WTC3T-10**
ACCESSORIES	
End Barrier (pkg of 50)	**OMTBV7-EB3-50**
End Anchors-50 (pkg of 50) -10 (pkg of 10)	
Screw Type—Normal Duty	**OMTBV7-EA35-50**
Screw Type—Heavy Duty	**OMTBV7-EAH35-10**
SPECIFICATIONS	
Wire Range (Rated Cross Section)	0.2 to 2.5 mm (#28 to #14 AWG)
Wire Strip Length	10 mm (0.35")
Recommended Tightening Torque	0.6 Nm (5.0 to 5.6 lb-in.)
Density	100/m (30 pcs./ft)
Insulation Temperature Range	-40 to 90°C (-40 to 195°F)

Standard Sensor Blocks

To Order						
TERMINAL	**MODEL NO.**			**MODEL NO.**		
Gray, pkg of 25	**OMTBV7-WTF3-25**			**OMTBV7-WTS3-25**		
ACCESSORIES						
End Barrier, pkg of 25	**OMTBV7-EBTF3-25**			**OMTBV7-EBTS3-25**		
End Anchors -50 (pkg of 50) -10 (pkg of 10) Screw Type—Normal Duty	**OMTBV7-EA35-50**			**OMTBV7-EA35-50**		
Screw Type—Heavy Duty	**OMTBV7-EAH35-10**			**OMTBV7-EAH35-10**		
DIN rail, 35 x 7.5 mm x 2 m, slotted	**XBANS3575P**			**XBANS3575P**		
DIN rail, 35 x 7.5 mm x 2 m, solid	**XBANS3575U**			**XBANS3575U**		
DIN rail, 35 x 15 mm x 2 m, slotted	**XBANS3515P**			**XBANS3515P**		
DIN rail, 35 x 15 mm x 2 m, solid	**XBANS3515U**			**XBANS3515U**		
Blank marking tags, 5 x 9 mm, cards of 100	**OMTBV7-SM5X9**			**OMTBV7-SM5X9**		
Pre-printed marking tabs, single digit (0...9), sticks of 10	**OMTBV7-MP5**			**OMTBV7-MP5**		
JUMPERS (PKG OF 5 OR 10)						
Side Jumper – 10-pole Insulated	**OMTBV7-SJT5-20-R-10**			**OMTBV7-SJT5-20-R-10**		
Center Jumper – 50-pole	**OMTBV7-CJT5-50-5**			**OMTBV7-CJT5-50-5**		
Center Jumper – 10-pole	**OMTBV7-CJT5-10-10**			**OMTBV7-CJT5-10-10**		
Center Jumper Link	**OMTBV7-CJL5-10**			**OMTBV7-CJL5-10**		
SPECIFICATIONS	**OMTBV7-WTF3-25**			**OMTBV7-WTS3-25**		
Approvals	CSA	UL	IEC	CSA	UL	IEC
Voltage Rating (AC/DC)	300V	300V	500V	300V	300V	500V
Maximum Current	10 A	10 A	24 A	10 A	10 A	24 A
Wire Range (Rated Cross Section)	#26 to #14 AWG	26 to #14 AWG	0.5 to 2.5 mm²	#26 to #14 AWG	#26 to #14 AWG	0.5 to 2.5 mm²
Wire Strip Length	8 mm (0.31")			8 mm (0.31")		
Recommended Tightening Torque	0.5 Nm (4.2 to 4.6 lb-in.)			0.5 Nm (4.2 to 4.6 lb-in.)		
Density	197/m (60 pcs./ft)			197/m (60 pcs./ft)		
Insulation Temperature Range	-40 to 90°C (-40 to 195°F)			-40 to 90°C (-40 to 195°F)		

Ordering Examples: OMTBV7-WTC3K-10, *K thermocouple terminal blocks,* ***OMTBV7-EB3-50,*** *end barriers, and* ***OMTBV7-EAH35-10,*** *end anchors.* ***OMTBV7-WTS3-25,*** *sensor terminal blocks.*