

Screw terminal block (Assembled)

Product Line-up

■TEN•TEU Assembled Terminal block

- Both series conform to cULus standard, corresponding to both field- and factory-wiring.
- Certified by TÜV based on EN/IEC standard.
- As for TEU series, since it enables easy wiring by captive screw with touch-lock function, it contributes to improve efficiency.

Series Name	Ratings Dielectric strength voltage	Ratings ^{Note1}	Terminal screw ^{Note2}	Poles	Basic type name	Cover/Seal for legends
TEN	250V	1.25mm ² [10A]	M3×6 ⊕ Standard screw	2~20P	TEN7	Attached.
	600V	2mm ² [20A]	M3.5×7 ⊕ Standard screw	2~20P	TEN8	
		3.5mm ² [30A]	M4×8 ⊕ Standard screw	2~20P	TEN11	
TEU	600V	2mm ² [20A]	M3.5×7 ⊕ Captive screw with touch-lock function	2~20P	TEU8	
		3.5mm ² [30A]	M4×8 ⊕ Captive screw with touch-lock function	2~20P	TEU11	
		8mm ² [50A]	M5×10 ⊕ Captive screw with touch-lock function	2~20P	TEU14	

Note1 Ratings are recommended values with usage in compliance to JIS standards.

Note2 As for the Symbols in Terminal screw columns, ⊕ is plus/minus screw.

Common Specifications

Operational Ambience Temperature Range	−25~+55℃ (Without Freezing nor Dew condensation)
Relative Humidity	45~85%RH
Temperature rise	Max. 45℃ of temperature rise at conducting metals
Insulating Resistance	Between each live part and between each live part and the mounting metal plate: Min. 100 MΩ
Commercial Frequency Withstanding Voltage	Product with Ratings 250V : 2000V 1 Min. Product with Ratings 600V : 2500V 1 Min.
ImpulseWithstanding Voltage	Product with Ratings 250V : 4000V Product with Ratings 600V : 6000V
Conformed Standards	UL1059 (excluding some) EN/IEC60947-7-1 (exclud. some) JIS C8201-7-1

Materials

Name	Materials	Flame retardance grade
Terminal Base	Modified PPO (Black)	UL94V-0
Terminal screws	Steel (Zinc plated Chromate Treatment)	—
Conducting Plate	Steel (Nickel over Copper plating)	—
Seal for legends	Polypropylene	—
Cover	Polycarbonate	UL94V-2

Ratings for Overseas Certification

■The Ratings used as conforming products to UL/cULus

TEN, TEU series Terminal blocks are certified products by cULus.

The ratings in using products as the cULus conformed ones are as shown below:



Basic type name	UL Standards (UL1059)						c-UL-us Standards (CSA Standards C22.2 No.158)			
	Ratings Voltage (V)	Ratings Current (A)	Applicable wires(AWG/MCM) ^{Note1}		FW ^{Note2}	Tightening Torque (N·m)	Ratings Voltage (V)	Ratings Current (A)	Applicable wires ^{Note1} (AWG/MCM)	Tightening Torque (N·m)
			Single wire	Stranded wire						
TEN8	300	15	20~14	20~14	2	1.3	300	15	20~14	1.3
TEN11	300	25	18~12	18~12	2	1.8	300	25	18~12	1.8
TEU8	600	20	20~14	20~14	2	1.3	600	20	20~14	1.3
TEU11	600	30	18~10	18~10	2	1.8	600	30	18~10	1.8
TEU14	600	35	16~10	16~10	2	2.7	600	35	16~10	2.7
		50	—	*8	2			50	*8	

Note1: The above list applies to connection by bare copper or by crimp terminals. As for Applicable Wires, however, values with * are only for connection by crimp terminals. Please use only crimp terminals with UL or cULus conformance.

Note2: FW1: Wirings at factory, FW2: Wirings at factory and in-field

■The Ratings used as conforming products to EN/IEC

TEN, TEU series Terminal blocks are certified by TÜV, an international third-party certification organization, to conform to EN/IEC standards, enabling smoother verification of CE marking compliance for machinery. The ratings when used as EN/IEC-compliant products are as follows:



Lisence No. : R50029404



Basic type name	Ratings Voltage (V)	ImpulseWithstanding Voltage (V)	Ratings Current (A)	Applicable wires (AWG) ^{Note}		Tightening torque (N·m)	Connectable Wires
				Single wire	Stranded wire		
TEN8	600	6000	20	20~14	20~14	1.3	1 or 2
TEN11	600	6000	30	18~12 (0.75~4 mm ²)	18~12 (0.75~4 mm ²)	1.8	1 or 2
TEU8	600	6000	20	20~14 (0.5~2.5 mm ²)	20~14 (0.5~2.5 mm ²)	1.3	1 or 2
TEU11	600	6000	30	18~12 (0.75~4 mm ²)	18~12 (0.75~4 mm ²)	1.8	1 or 2
			40	—	*10 (6mm ²)		
TEU14	600	6000	45	16~10 (1.5~6 mm ²)	16~10 (1.5~6 mm ²)	2.8	1 or 2
			60	—	*8 (10mm ²)		

Note: The above table applies to both bare copper wire connections and crimp terminal connections. Please note the following points:

For crimp terminal connections: Use insulated crimp terminals, or insulate bare crimp terminals with sleeves, tubes, or tape.

When connecting two bare wires: Use wires of the same size and type (solid or stranded). Do not connect wires of different sizes or types.