

TL Series

Product Line-up/ Common Specifications/ Materials

Screw terminal block (Assembled)

Product Line-up

TL Assembled Terminal Block

A general-purpose Terminal Block assembly with an insulation voltage of 600 V.

The mounting holes are aligned along the centerline, making drilling work easy.

With a wide range of standard pole counts available, economical selection is possible.

- All models come with a cover and a seal for legends.
- Compliant with UL and CSA standards.

Ratings/Dielectric strength voltage	Ratings ^{Note1}	Terminal screw ^{Note2}	Standard Poles	Basic type name	Cover/ Seal for legends
600V	2mm ² [20A]	M3.5×8 ⊕Standard screw	2~30P	TL15	Attached
	5.5mm ² [40A]	M4×10 ⊕Standard screw	2~30P	TL25	
	8mm ² [50A]	M5×12 ⊕Standard screw	2~20P	TL35	

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°C (Without Freezing nor Dew condensation)
Relative Humidity	45~85%RH
Temperature rise	Max. 45°C 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	2500V 1Min.
Impulse Withstanding Voltage	6000V
Conformed Standards	JIS C8201-7-1 ^{Note1} NECA C2811 (JIS C2811) ^{Note2} UL1059, EN/IEC60947-7-1

Note 1: As of May 2010, JIS C2811 has been replaced by JIS C8201-7-1.

Note 2: NECA C2811 is a standard conforming to the contents of JIS C2811.

Materials

Name	Materials	Flame retardance grade
Terminal Base	Phenolic Resin (Black)	UL94V-0
Terminal screws	Steel (Zinc plated Chromate Treatment)	—
Conducting Plate	Brass (Nickel plating)	—
Seal for legends	Fiber	—
Cover	Polycarbonate	UL94V-2

Ratings for Overseas Certification

The Ratings used as conforming products to UL/CSA

TL series Terminal blocks are certified products by UL and CSA.

The ratings in using products as the UL/CSA conformed ones are as shown below:



File No. :E114903



File No. :LR80644



Basic type name	UL Standard (UL1059)						CSA Standard (C22-2 No.158)			
	Ratings Voltage (V)	Ratings Current (A)	Applicable wires(AWG) ^{Note1}		FW ^{Note2}	Tightening Torque (N·m)	Ratings Voltage (V)	Ratings Current (A)	Applicable wires ^{Note1} (AWG)	Tightening Torque (N·m)
			Single wire	Stranded wire						
TL15	600	20	20~14	20~14	2	1.3	600	20	20~14	1.3
TL25	600	30	18~10	18~10	2	1.8	600	30	18~10	1.8
TL35	600	50	16~10	16~10	2	2.7	600	45	16~8	2.7

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 CSA conformance.

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