

High-capacity Assembled Terminal block

Product Line-up

■ TQB series (Branch terminal block)

The TQB series is a high-capacity terminal block for branch connections.

Compared to conventional branch wiring using copper busbars, it reduces labor time by about one-sixth and installation space by approximately 15%.

When multiple poles are combined, the absence of side bases provides excellent space efficiency.

All models are rated considering the use of heat-resistant wires.

Abstract	RatingsDielectric strength voltage	Ratings ^{Note}		Terminal screw		pitch	Standard Poles	Base Product Name
		Primary Side	Secondary Side	Primary Side	Secondary Side			
- Allows multiple branch connections in a compact space. - Reduces labor time for branch wiring. - Rated current is set considering the use of heat-resistant wires.	600V	22mm ² [90A]	5.5mm ² × 10 [40A] Sum : Max. 90A	M6 × 2 pos.	M4 × 5 pos.	50mm	1~4P	TQB60D
		60mm ² [175A]	Upper Tier: 8mm ² × 6 [50A] Lower Tier: 14mm ² × 8 [80A] Sum: Max. 175A	M8 × 2 pos. (Stud Type)	M5 × 7 pos.	60mm		TQB100D
		100mm ² [250A] 150mm ² [310A]	22mm ² × 8 [90A] 14mm ² × 6 [80A] Sum: Max. 310A	M10 × 2 pos. (Stud Type)	M6 × 4 pos. M5 × 3 pos.	77.5mm		TQB200D
		200mm ² [440A]	100mm ² × 4 [240A] 60mm ² × 2 [175A] 22mm ² × 4 [90A] Sum: Max. 440A	M12 × 2 pos. (Stud Type)	M10 × 2 pos. M8 × 1 pos. M6 × 2 pos. M4 × 1 pos. (For Voltage Meter)	112mm		TQB400D

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

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 1 Min.
Impulse Withstanding Voltage	6000V
Conformed Standards	JIS C8201-7-1 ^{Note1} , UL1059, EN/IEC60947-7-1, NECA C2811 (JIS C2811) ^{Note2}

Note 1: As of May 2010, JIS C2811 has been replaced by JIS C8201-7-1.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	Modified PPO	UL94V-0
Terminal screws	Steel (Zinc plated Chromate Treatment)	—
Conducting Plate	Brass (Nickel plating) ^{Note}	—
Seal for legends	Polypropylene	—
Safety cover	Polycarbonate	UL94V-0
General-use cover	Polycarbonate	UL94V-2

Note TQB400D is Copper (Nickel plating).

Current-carrying Current for Heat-resistant Wires

Basic type name	With standard wire	With heat-resistant wire
TQB60D	90A	120A
TQB100D	175A	250A

Basic type name	With standard wire	With heat-resistant wire
TQB200D	310A	350A
TQB400D	440A	500A

Ratings for Overseas Certification

■ The Ratings used as conforming products to UL.



File No. : E114903



Type	UL Standard (UL1059)					
	Product Name	Ratings Voltage (V)	Ratings Current (A)	Applicable wires ^{Note1}	FW ^{Note2}	Tightening torque
For Branching	TQB60D	600	85	Primary Side : AWG10~4	2	M6 : 4N•m
				Secondary Side : AWG16~10		M4 : 1.4N•m
	TQB100D	600	130	Primary Side : AWG8~1	2	M8 : 8N•m
				Secondary Side : AWG12~6		M5 : 2.2N•m
	TQB200D	600	230	Primary Side : AWG1/0~4/0	2	M10 : 15N•m
				Secondary Side : M6 : AWG10~4		M6 : 4N•m
				Secondary Side : M5 : AWG12~6		M5 : 2.2N•m
	TQB400D	600	335	Primary Side : 350~400 MCM	2	M12 : 25N•m
				Secondary Side : M10 : AWG1/0~4/0		M10 : 15N•m
				Secondary Side : M8 : AWG4~1		M8 : 8N•m
				Secondary Side : M6 : AWG10~4		M6 : 4N•m
				Secondary Side : M4 : AWG14~10		M4 : 1.4N•m

Note1: Please use only crimp terminals with UL conformance.

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