TB300 and TB345 double row terminal blocks
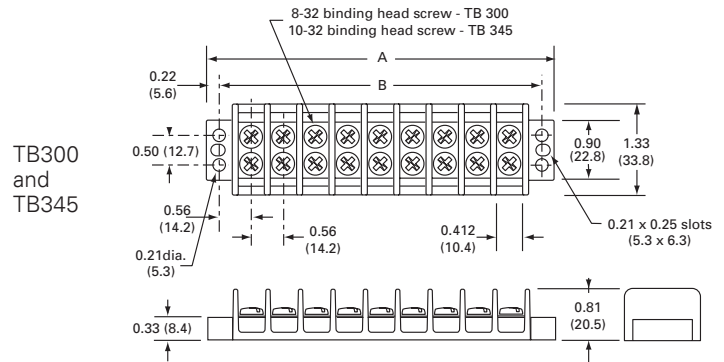
Ratings*

- Volts 600 V
- Amps
  - 30 A (TB300)
  - 45 A (TB345)
- Breakdown voltage 7500 V

* Maximum rating shown; some options may be rated lower.

TB300-08

TB345-06SP

Agency information

UL File E62622, CSA File 47235; IEC Compliance, CE

Specifications

- Poles: 2 to 24
- Wire range: 8 - 22 AWG Cu
- Center spacing: 0.562" or 9/16" (14mm)
- Screw size
  - TB300 — #8-32 phil-slot screws
  - TB345 — #10-32 phil-slot screws
- Torque rating
  - #8 screws - 16 lb-in
  - #10 screws - 20 lb-in
- Distance between barriers: 0.41" (10mm)
- Mounting
  - TB300 — #8 screws
  - TB345 — #10 screws
- Operating temperature: -40°C to 130°C (-40°F to 266°F)

Materials

- Molded black thermoplastic base, UL rated 94V0
- Tin-plated brass terminals
- Zinc-plated steel screws

Dimensions — in

TB300 and TB345

8-32 binding head screw - TB 300
10-32 binding head screw - TB 345

0.22 (5.6)
A
B
0.50 (12.7)
0.90 (22.8)
1.33 (33.8)
0.56 (14.2)
0.56 (14.2)
0.412 (10.4)
0.21 x 0.25 slots (5.3 x 6.3)
0.21dia. (5.3)
0.33 (8.4)
0.81 (20.5)

Poles	A	B	Poles	A	B	Poles	A	B
02	2.13	1.69	10	6.62	6.19	18	11.12	10.68
03	2.69	2.25	11	7.18	6.75	19	11.68	11.25
04	3.25	2.81	12	7.75	7.31	20	12.24	11.81
05	3.81	3.37	13	8.31	7.87	21	12.80	12.37
06	4.37	3.94	14	8.87	8.44	22	13.37	12.93
07	4.94	4.50	15	9.43	9.00	23	13.93	13.50
08	5.50	5.06	16	9.99	9.56	24	14.49	14.06
09	6.06	5.62	17	10.56	10.12			

1" = 25.4mm.

Catalog number build-a-code

Symbol	Screw size		Poles	Screw options	Marking/cover	Hardware options
TB		—				
	300 = 8-32 screw		**02** to **24**	**Blank** = Steel phil-slot, zinc-plated	**L1** to **L6** marking options, see page 10-16	**QC1** to **QC20** = Quick-connects (TB300 only)
	345 = 10-32 screw			**00** = Screws shipped bulk	Special markings†, see page 10-16	**Custom options (TB300 only)**†
				B = Brass phil-slot, nickel-plated		**J301** = Flat slip-on jumper
				BS = Brass SEMS phil-slot, nickel-plated (TB300 only)		**OJ6** = Over barrier jumper
				SP = Steel SEMS phil-slot, zinc-plated		**OJ11** = Over barrier jumper
				ST = Stainless steel, phil-slot		

† Contact factory for configuration.

Accessories

- Marker strips, see page 10-17
- Covers, see page 10-16

Screw options

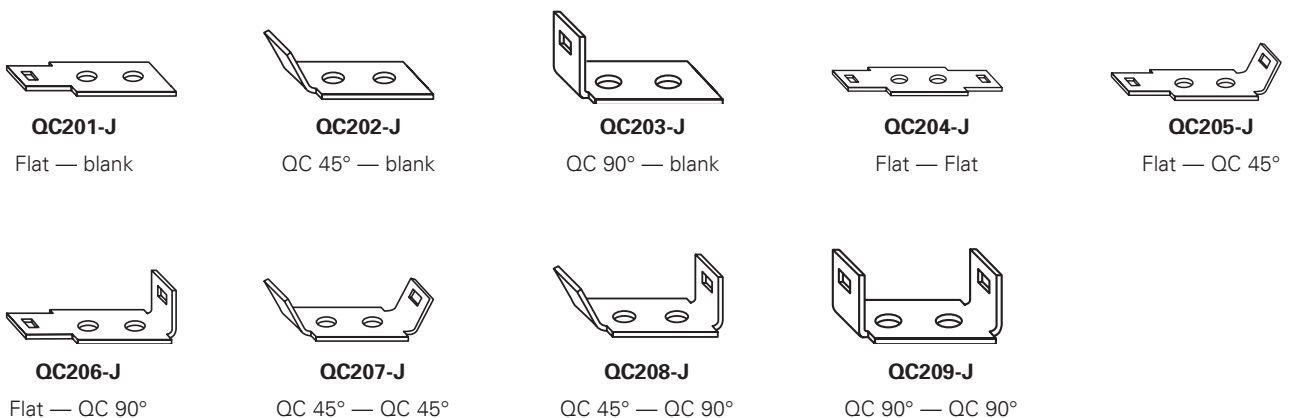| **B**	**BS**	**SP**	**ST**
Brass phil-slot nickel-plated	Brass SEMS phil-slot nickel-plated	Steel SEMS phil-slot zinc-plated	Stainless steel phil-slot
- **B001-7018-J** (TB300 bulk)	- **B001-7015-J** (TB300 bulk)	- **B001-7017-J** (TB300 bulk)	- **B001-7063-J** (TB300 bulk)
- **B500-023-028-J** (TB345 bulk)		- **B001-5774-J** (TB346 bulk)	- **B001-7064-J** (TB345 bulk)

Hardware options

Quick-connects — assembled: TB300 only; 0.25" x 0.031" terminals, 20 amps maximum. For other orientations, contact factory.

QC1   **QC2**   **QC3**   **QC4**   **QC5**   **QC6**   **QC7**

QC8   **QC9**   **QC10**   **QC11**   **QC12**   **QC13**   **QC14**

QC15   **QC16**   **QC17**   **QC18**   **QC19**   **QC20**
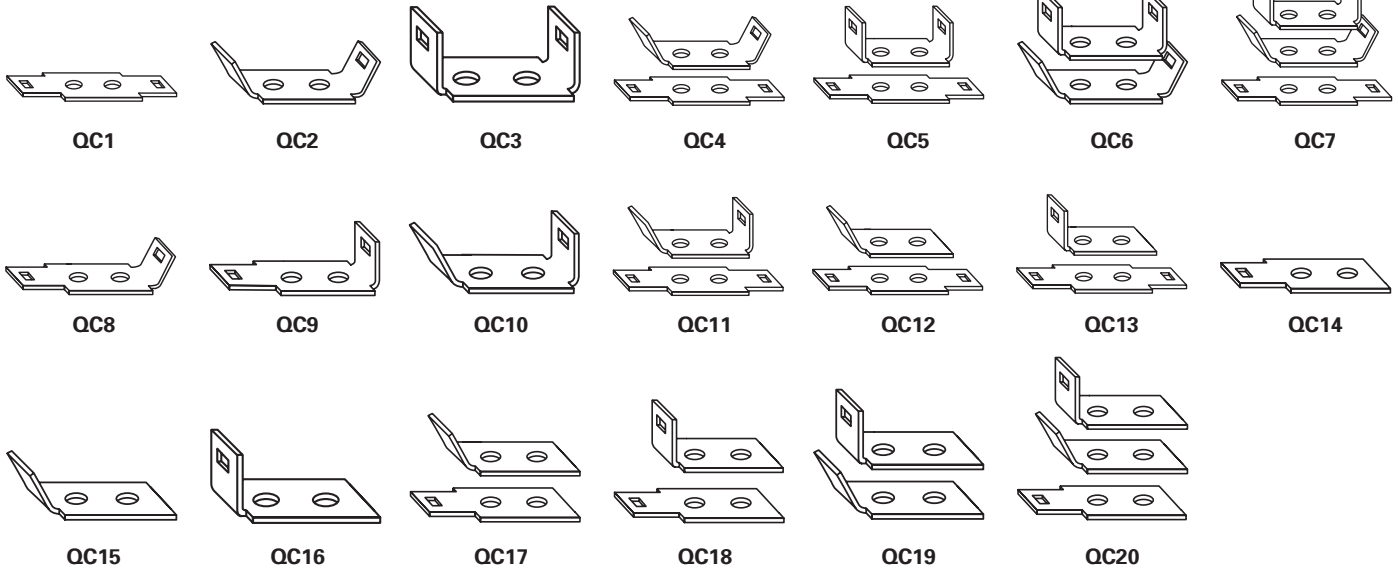
Quick-connects — bulk: *TB300 only; minimum order 100 pieces per catalog number.

QC201-J	**QC202-J**	**QC203-J**	**QC204-J**	**QC205-J**
Flat — blank	QC 45° — blank	QC 90° — blank	Flat — Flat	Flat — QC 45°

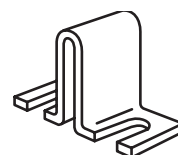| **QC206-J**	**QC207-J**	**QC208-J**	**QC209-J**
Flat — QC 90°	QC 45° — QC 45°	QC 45° — QC 90°	QC 90° — QC 90°

Jumpers — bulk: TB300 only; minimum order 100 pieces per catalog number. Contact factory for jumper assembly.
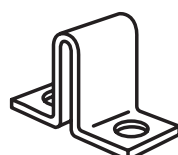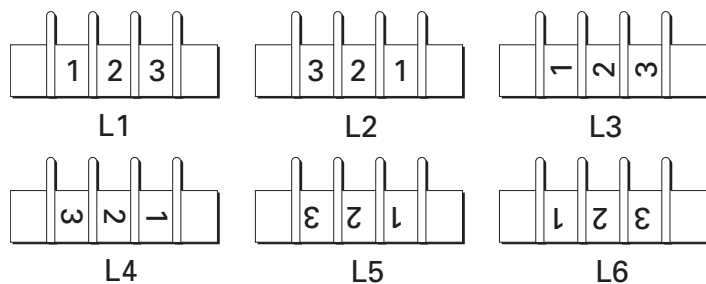
J301	**OJ6**	**OJ11**
Flat slip-on	Closed over barrier	Slip-on over barrier
J301-J (bulk)	**OJ6-J** (bulk)	**OJ11-J** (bulk)

Marking options and covers for double row terminal blocks

Standard marking

L1 | L2 | L3
L4 | L5 | L6

Standard markings are applied directly to the side(s) of a block. The standard marking color is white. The standard numeral height is 0.125 inches (3mm).

Note: Blocks marked on both sides require a different code for each side. Example: Style L1 on one side of the block requires Style L2 on the other side to ensure common terminal marking. To order, add appropriate suffix (L1, L2, L3, L4, L5 and/or L6) to block catalog number in the proper sequence.
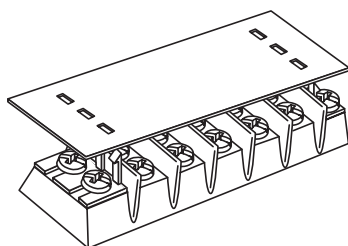
Special marking*
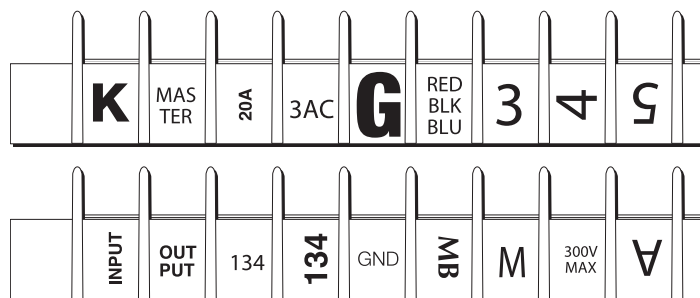
Special markings are available at an additional charge. Drawing(s) must be submitted to ensure accuracy of part required. Consult factory for price and delivery.

* Not available on TB400 products

Covers

(must be ordered separately)

Covers prevent personnel, screws and foreign items from contacting live terminals, and are available in white (opaque) or clear plastic. Two cover clips are supplied with each cover. The cover width is 1.31 inches (33mm). Example: 10 position cover, white, TB100 = catalog number X12010.

Catalog no.	For block family
DD1-J	TB100
DD2-J	TB200
DD2HB-J	TB200HB
DD3-J	TB300

Cover catalog number build-a-code†

Symbol	Cover strip†	Poles	High barrier option only
X			
	119 = TB100 - clear	02 to 36 (TB100)	HB = High barrier††
	120 = TB100 - white	02 to 30 (TB200/ TB200HB)	
	219 = TB200/TB200HB - clear	02 to 24 (TB300/ TB345)	
	220 = TB200/TB200HB - white		
	319 = TB300/TB345 - clear		
	320 = TB300/TB345 - white		

† Cover strip not available for TB400 products.
††Applicable to X219 and X220 only.

Cover clips — bulk

Top marker strips

(order separately from blocks)
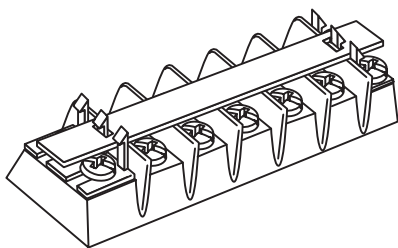
Top mounting marker strips must be ordered separately and are only available in white (opaque) plastic. Two cover clips are supplied with each marker strip.

Example: 12 position cover, TB200, 0.032" x 0.312" = catalog number X20312.

Example: 12 position cover, TB200HB, 0.06" x 0.50" = catalog number X23312HB.

Top marker strip catalog number build-a-code

Series	Top marker strip†	Poles	High barrier option only
X			
	103 = TB100 (0.032 thk x 0.312 w)	**02** to **36** (TB100)	**HB** = High barrier††
	133 = TB100 (0.060 thk x 0.500 w)	**02** to **30** (TB200/TB200HB)	
	203 = TB200/TB200HB (0.032 thk x 0.312 w)	**02** to **24** (TB300/TB345)	
	233 = TB200/TB200HB (0.060 thk x 0.500 w)		
	303 = TB300/TB345 (0.032 thk x 0.380 w)		
	333 = TB300/TB345 (0.060 thk x 0.500 w)		

† Marking strips not available for TB400 products
†† Applicable to X203 and X233 only.

Bottom marker strips

(order separately from blocks)

Marking one side

Marking two sides

Marking two sides
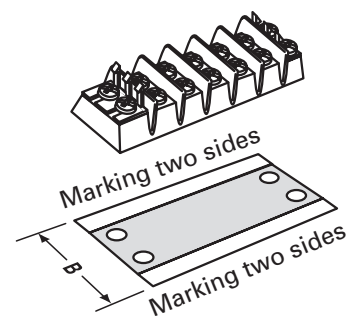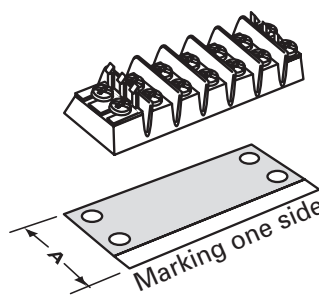
Bottom mounting marker strips are made of 0.03" thick black PVC. Space is available along the edge to handle most marking needs. All marker strips must be ordered separately.

To order, specify catalog number and required marking orientation. Example: 13 position strip, TB100 with no markings, space for marking one side = catalog number X10513. Consult factory for specials.

Standard numeral height is 0.125". Standard markings are 0-99. Special markings are available on special order. Drawing(s) must be submitted to ensure accuracy of part required.

Dimensions — in

Dim.	For TB block					
	TB100	**TB200**	**TB200HB**	**TB300**	**TB345**	**TB400**
A	1.13	1.37	1.62	1.58	1.58	N/A
B	1.38	1.62	1.81	1.81	1.81	N/A

Bottom marker strip catalog number build-a-code

Symbol	Bottom Marker Strip†	Poles	Marking orientation
X			
	101 = TB100 marking both sides	**02** to **36** (TB100)	**BF** = Bottom forward
	105 = TB100 marking one side	**02** to **30** (TB200/TB200HB)	**BR** = Bottom reverse
	201 = TB200 marking both sides	**02** to **24** (TB300/TB345)	**TF** = Top forward
	205 = TB200 marking one side		**TR** = Top reverse
	291 = TB200HB marking both sides		
	295 = TB200HB marking one side		
	301 = TB300 and TB345 marking both sides		
	305 = TB300 and TB345 marking one side		

† Not available for TB400 products.