

# T4

## 250A, 600V Δ

### Electronic and thermal magnetic



T4

**Dimensions** 3P Fixed Version 8.07H x 4.13W x 4.07D  
**Weight** 6.18 (lbs)

#### General

The T4 breaker is a 250 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit.

#### Standards

The UL489/CSA 22.2 version of T4 also carries an IEC-60947-2 rating.

#### Versions

To meet all application requirements, the T4 is available in the following versions:

- T = Thermal-magnetic
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSI
- D = Molded Case Switch
- E5 = Electronic instantaneous only (MCP)

#### Trip functions

These trip functions are available:

- L = Long time
- S = Short time
- I = Instantaneous
- G = Ground fault

#### Performance levels

Each version is also available in different maximum fault interrupting levels:

- N = Normal
- S = Standard
- H = High - UL Current Limiting
- L = Extra high
- V = Very high - UL Current Limiting

#### Number of poles ③

The T4 is available in two, three and four pole versions. Estimate 4 pole pricing by adding 35% to the 3 pole price and contact your ABB sales person for details.

#### UL489 / CSA C22.2 Interrupting capacity (kA RMS)

| Voltage  | N  | S   | H   | L   | V   |
|----------|----|-----|-----|-----|-----|
| 240VAC   | 65 | 100 | 150 | 200 | 200 |
| 480VAC   | 25 | 35  | 65  | 100 | 150 |
| 600VAC   | 18 | 25  | 35  | 65  | 100 |
| 500VDC ① | 25 | 35  | 50  | 65  | 100 |
| 600VDC ② | 16 | 25  | 35  | 50  | 65  |

#### IEC 60947-2 Interrupting capacity (kA RMS)

| Voltage  | N  | S  | H   | L   | V   |
|----------|----|----|-----|-----|-----|
| 230VAC   | 70 | 85 | 100 | 200 | 200 |
| 415VAC   | 36 | 50 | 70  | 120 | 200 |
| 690VAC   | 20 | 25 | 40  | 70  | 80  |
| 750VDC ② | 16 | 25 | 36  | 50  | 70  |

① 2 poles in series.

② 3 poles in series.

③ 2 pole breakers available in N version only. 4 pole breakers available in N and H version only.

## T4

### 250A, 600V $\Delta$

#### Adjustable thermal magnetic

#### 20A - 250A Frame

| Breaker                       | IC at<br>480VAC | Rating | Magnetic<br>trip | 2 pole, 600VAC/600VDC<br>catalog number | 3 pole, 600VAC/600VDC<br>catalog number |
|-------------------------------|-----------------|--------|------------------|-----------------------------------------|-----------------------------------------|
| T4N                           | 25              | 125A   | 625-1250         | T4N125TW-2                              | T4N125TW                                |
|                               |                 | 150A   | 750-1500         | T4N150TW-2                              | T4N150TW                                |
|                               |                 | 200A   | 1000-2000        | T4N200TW-2                              | T4N200TW                                |
|                               |                 | 250A   | 1250-2500        | T4N250TW-2                              | T4N250TW                                |
| T4S                           | 35              | 125A   | 625-1250         | -                                       | T4S125TW                                |
|                               |                 | 150A   | 750-1500         | -                                       | T4S150TW                                |
|                               |                 | 200A   | 1000-2000        | -                                       | T4S200TW                                |
|                               |                 | 250A   | 1250-2500        | -                                       | T4S250TW                                |
| T4H<br>UL Current<br>Limiting | 65              | 125A   | 625-1250         | -                                       | T4H125TW                                |
|                               |                 | 150A   | 750-1500         | -                                       | T4H150TW                                |
|                               |                 | 200A   | 1000-2000        | -                                       | T4H200TW                                |
|                               |                 | 250A   | 1250-2500        | -                                       | T4H250TW                                |
| T4L                           | 100             | 125A   | 625-1250         | -                                       | T4L125TW                                |
|                               |                 | 150A   | 750-1500         | -                                       | T4L150TW                                |
|                               |                 | 200A   | 1000-2000        | -                                       | T4L200TW                                |
|                               |                 | 250A   | 1250-2500        | -                                       | T4L250TW                                |
| T4V<br>UL Current<br>Limiting | 150             | 125A   | 625-1250         | -                                       | T4V125TW                                |
|                               |                 | 150A   | 750-1500         | -                                       | T4V150TW                                |
|                               |                 | 200A   | 1000-2000        | -                                       | T4V200TW                                |
|                               |                 | 250A   | 1250-2500        | -                                       | T4V250TW                                |

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

## T4

250A, 600V  $\Delta$  100% rated  
Adjustable thermal magnetic

### 30A - 250A Frame 100% rated

| Breaker                       | IC at 480 VAC<br>kA | Rating | Magnetic<br>trip | 3 pole,<br>600VAC/600VDC<br>Catalog number |
|-------------------------------|---------------------|--------|------------------|--------------------------------------------|
| T4N                           | 25                  | 125A   | 625-1250         | T4NQ125TW                                  |
|                               |                     | 150A   | 750-1500         | T4NQ150TW                                  |
|                               |                     | 200A   | 1000-2000        | T4NQ200TW                                  |
|                               |                     | 250A   | 1250-2500        | T4NQ250TW                                  |
| T4S                           | 35                  | 125A   | 625-1250         | T4SQ125TW                                  |
|                               |                     | 150A   | 750-1500         | T4SQ150TW                                  |
|                               |                     | 200A   | 1000-2000        | T4SQ200TW                                  |
|                               |                     | 250A   | 1250-2500        | T4SQ250TW                                  |
| T4H<br>UL Current<br>Limiting | 65                  | 125A   | 625-1250         | T4HQ125TW                                  |
|                               |                     | 150A   | 750-1500         | T4HQ150TW                                  |
|                               |                     | 200A   | 1000-2000        | T4HQ200TW                                  |
|                               |                     | 250A   | 1250-2500        | T4HQ250TW                                  |
| T4L                           | 100                 | 125A   | 625-1250         | T4LQ125TW                                  |
|                               |                     | 150A   | 750-1500         | T4LQ150TW                                  |
|                               |                     | 200A   | 1000-2000        | T4LQ200TW                                  |
|                               |                     | 250A   | 1250-2500        | T4LQ250TW                                  |
| T4V<br>UL Current<br>Limiting | 150                 | 125A   | 625-1250         | T4VQ125TW                                  |
|                               |                     | 150A   | 750-1500         | T4VQ150TW                                  |
|                               |                     | 200A   | 1000-2000        | T4VQ200TW                                  |
|                               |                     | 250A   | 1250-2500        | T4VQ250TW                                  |

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

## T4

### 250A, 600V $\Delta$

### Electronic (AC only)

#### 100A Frame, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 2 pole, 600V<br>catalog number | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4N100BW-2                     | T4N100BW                       |
|                               |                    | PR222 LSI    | T4N100CW-2                     | T4N100CW                       |
|                               |                    | PR222 LSIG   | T4N100EW-2                     | T4N100EW                       |
| T4S                           | 35                 | PR221 LS/I   | -                              | T4S100BW                       |
|                               |                    | PR222 LSI    | -                              | T4S100CW                       |
|                               |                    | PR222 LSIG   | -                              | T4S100EW                       |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | -                              | T4H100BW                       |
|                               |                    | PR222 LSI    | -                              | T4H100CW                       |
|                               |                    | PR222 LSIG   | -                              | T4H100EW                       |
| T4L                           | 100                | PR221 LS/I   | -                              | T4L100BW                       |
|                               |                    | PR222 LSI    | -                              | T4L100CW                       |
|                               |                    | PR222 LSIG   | -                              | T4L100EW                       |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | -                              | T4V100BW                       |
|                               |                    | PR222 LSI    | -                              | T4V100CW                       |
|                               |                    | PR222 LSIG   | -                              | T4V100EW                       |

#### 150A Frame, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 2 pole, 600V<br>catalog number | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4N150BW-2                     | T4N150BW                       |
|                               |                    | PR222 LSI    | T4N150CW-2                     | T4N150CW                       |
|                               |                    | PR222 LSIG   | T4N150EW-2                     | T4N150EW                       |
| T4S                           | 35                 | PR221 LS/I   | -                              | T4S150BW                       |
|                               |                    | PR222 LSI    | -                              | T4S150CW                       |
|                               |                    | PR222 LSIG   | -                              | T4S150EW                       |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | -                              | T4H150BW                       |
|                               |                    | PR222 LSI    | -                              | T4H150CW                       |
|                               |                    | PR222 LSIG   | -                              | T4H150EW                       |
| T4L                           | 100                | PR221 LS/I   | -                              | T4L150BW                       |
|                               |                    | PR222 LSI    | -                              | T4L150CW                       |
|                               |                    | PR222 LSIG   | -                              | T4L150EW                       |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | -                              | T4V150BW                       |
|                               |                    | PR222 LSI    | -                              | T4V150CW                       |
|                               |                    | PR222 LSIG   | -                              | T4V150EW                       |

#### 250A Frame, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 2 pole, 600V<br>catalog number | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4N250BW-2                     | T4N250BW                       |
|                               |                    | PR222 LSI    | T4N250CW-2                     | T4N250CW                       |
|                               |                    | PR222 LSIG   | T4N250EW-2                     | T4N250EW                       |
| T4S                           | 35                 | PR221 LS/I   | -                              | T4S250BW                       |
|                               |                    | PR222 LSI    | -                              | T4S250CW                       |
|                               |                    | PR222 LSIG   | -                              | T4S250EW                       |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | -                              | T4H250BW                       |
|                               |                    | PR222 LSI    | -                              | T4H250CW                       |
|                               |                    | PR222 LSIG   | -                              | T4H250EW                       |
| T4L                           | 100                | PR221 LS/I   | -                              | T4L250BW                       |
|                               |                    | PR222 LSI    | -                              | T4L250CW                       |
|                               |                    | PR222 LSIG   | -                              | T4L250EW                       |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | -                              | T4V250BW                       |
|                               |                    | PR222 LSI    | -                              | T4V250CW                       |
|                               |                    | PR222 LSIG   | -                              | T4V250EW                       |

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

## T4

### 250A, 600V $\Delta$ , 100% Rated Electronic (AC only)

#### 100A Frame - 100% rated, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4NQ100BW                      |
|                               |                    | PR222 LSI    | T4NQ100CW                      |
|                               |                    | PR222 LSIG   | T4NQ100EW                      |
| T4S                           | 35                 | PR221 LS/I   | T4SQ100BW                      |
|                               |                    | PR222 LSI    | T4SQ100CW                      |
|                               |                    | PR222 LSIG   | T4SQ100EW                      |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | T4HQ100BW                      |
|                               |                    | PR222 LSI    | T4HQ100CW                      |
|                               |                    | PR222 LSIG   | T4HQ100EW                      |
| T4L                           | 100                | PR221 LS/I   | T4LQ100BW                      |
|                               |                    | PR222 LSI    | T4LQ100CW                      |
|                               |                    | PR222 LSIG   | T4LQ100EW                      |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | T4VQ100BW                      |
|                               |                    | PR222 LSI    | T4VQ100CW                      |
|                               |                    | PR222 LSIG   | T4VQ100EW                      |

#### 250A Frame - 100% rated, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4NQ250BW                      |
|                               |                    | PR222 LSI    | T4NQ250CW                      |
|                               |                    | PR222 LSIG   | T4NQ250EW                      |
| T4S                           | 35                 | PR221 LS/I   | T4SQ250BW                      |
|                               |                    | PR222 LSI    | T4SQ250CW                      |
|                               |                    | PR222 LSIG   | T4SQ250EW                      |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | T4HQ250BW                      |
|                               |                    | PR222 LSI    | T4HQ250CW                      |
|                               |                    | PR222 LSIG   | T4HQ250EW                      |
| T4L                           | 100                | PR221 LS/I   | T4LQ250BW                      |
|                               |                    | PR222 LSI    | T4LQ250CW                      |
|                               |                    | PR222 LSIG   | T4LQ250EW                      |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | T4VQ250BW                      |
|                               |                    | PR222 LSI    | T4VQ250CW                      |
|                               |                    | PR222 LSIG   | T4VQ250EW                      |

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

#### 150A Frame - 100% rated, electronic trip unit (AC only)

| Breaker                       | IC at 480VAC<br>kA | Trip<br>Unit | 3 pole, 600V<br>catalog number |
|-------------------------------|--------------------|--------------|--------------------------------|
| T4N                           | 25                 | PR221 LS/I   | T4NQ150BW                      |
|                               |                    | PR222 LSI    | T4NQ150CW                      |
|                               |                    | PR222 LSIG   | T4NQ150EW                      |
| T4S                           | 35                 | PR221 LS/I   | T4SQ150BW                      |
|                               |                    | PR222 LSI    | T4SQ150CW                      |
|                               |                    | PR222 LSIG   | T4SQ150EW                      |
| T4H<br>UL Current<br>Limiting | 65                 | PR221 LS/I   | T4HQ150BW                      |
|                               |                    | PR222 LSI    | T4HQ150CW                      |
|                               |                    | PR222 LSIG   | T4HQ150EW                      |
| T4L                           | 100                | PR221 LS/I   | T4LQ150BW                      |
|                               |                    | PR222 LSI    | T4LQ150CW                      |
|                               |                    | PR222 LSIG   | T4LQ150EW                      |
| T4V<br>UL Current<br>Limiting | 150                | PR221 LS/I   | T4VQ150BW                      |
|                               |                    | PR222 LSI    | T4VQ150CW                      |
|                               |                    | PR222 LSIG   | T4VQ150EW                      |

# T4

## 250A, 600V Δ

### Instantaneous only, MCP/Molded case switch

#### Instantaneous only MCPs

##### T4 - 250A Frame magnetic only (MCP - AC only)

| Breaker | IC at 480VAC | Trip unit type     | Rating | Adjustment range | 3 pole, 600VAC<br>Catalog number |
|---------|--------------|--------------------|--------|------------------|----------------------------------|
| T4N     | 25kA         | Instantaneous only | 100A   | 100-1000         | T4N100E5W                        |
|         |              |                    | 150A   | 150-1500         | T4N150E5W                        |
|         |              |                    | 250A   | 250-2500         | T4N250E5W                        |
| T4S     | 35kA         | Instantaneous only | 100A   | 100-1000         | T4S100E5W                        |
|         |              |                    | 150A   | 150-1500         | T4S150E5W                        |
|         |              |                    | 250A   | 250-2500         | T4S250E5W                        |
| T4H     | 65kA         | Instantaneous only | 100A   | 100-1000         | T4H100E5W                        |
|         |              |                    | 150A   | 150-1500         | T4H150E5W                        |
|         |              |                    | 250A   | 250-2500         | T4H250E5W                        |
| T4L     | 100kA        | Instantaneous only | 100A   | 100-1000         | T4L100E5W                        |
|         |              |                    | 150A   | 150-1500         | T4L150E5W                        |
|         |              |                    | 250A   | 250-2500         | T4L250E5W                        |

#### Molded case switch ①

| Type  | IC at 480VAC | Amps | Magnetic trip | 3 pole 600V<br>catalog number |
|-------|--------------|------|---------------|-------------------------------|
| T4N-D | 25kA         | 250  | 3000          | T4N250DW                      |
| T4S-D | 35kA         | 250  | 3000          | T4S250DW                      |
| T4H-D | 65kA         | 250  | 3000          | T4H250DW                      |
| T4L-D | 100kA        | 250  | 3000          | T4L250DW                      |
| T4V-D | 150kA        | 250  | 3000          | T4V250DW                      |

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

① When protected by a OCPD with appropriate ratings.