



Product Selector

# Tmax

## Molded Case Circuit Breakers

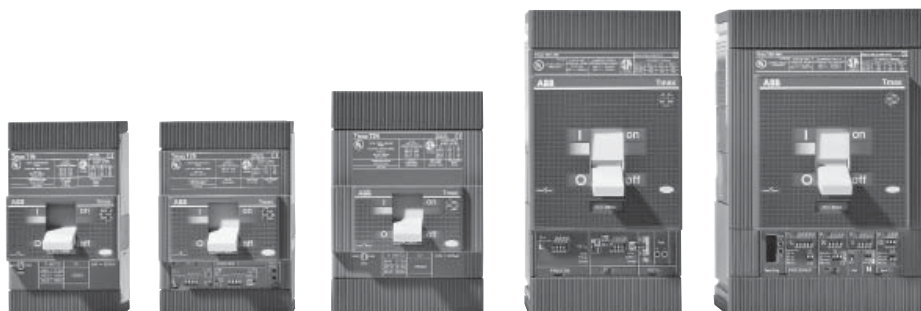
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# Molded Case Circuit Breakers

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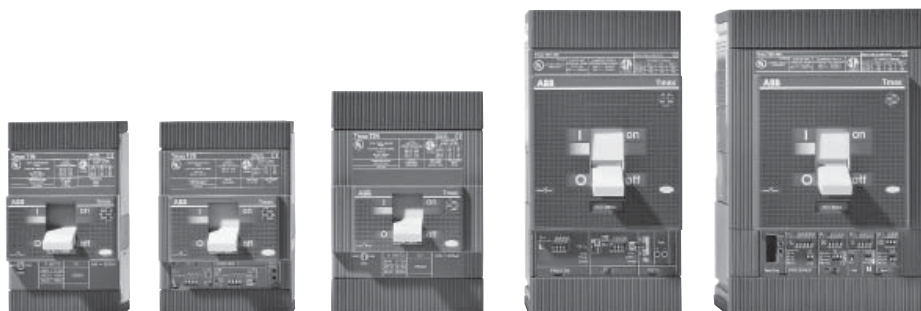
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# Tmax Molded case circuit breakers

## ABB Tmax Molded Case Circuit Breakers



### Introduction

ABB is once again demonstrating its commitment to new product development and its superiority in product technology. Never before has the industry seen such high performance, versatility and standardization in a range of molded case circuit breakers.

The ABB Tmax line of circuit breakers, with a range up to 3000A, has several key features that go along with its very small size:

- Double insulation – this construction characteristic allows for the CSA/UL listed field installation of internal accessories without exposure to energized parts
- Complete range of electrical and mechanical accessories
- Positive operation – breakers from ABB ensure that the toggle indicates the precise position of the moving contacts. This guarantees safe and reliable signaling by the device
- Installation – Tmax molded case circuit breakers can be installed in panels and switchboards in either the horizontal or vertical planes while being fed from either end without any derating of their performance characteristics
- Interrupting ratings at 600VAC up to 100kAIC
- Compact size
- All Tmax molded case circuit breakers are CSA-UL listed and IEC rated for global application and acceptance

- All versions of the Tmax family are suitable for reverse feed applications

The ABB Tmax series includes eight basic frame sizes as well as the T1 single pole with the range rated from 15A to 3000A at 600VAC.

### Frame Sizes — Eight Basic Sizes

The ABB Tmax series includes eight basic frame sizes as well as the T1 single pole with the range rated from 15A to 3000A at 600VAC. The various versions carry the following interrupting capacities:

- **B** Basic breaking capacity
- **N** Normal breaking capacity
- **S** Standard breaking capacity
- **H** High breaking capacity
- **L** Extra high breaking capacity
- **V** Very high breaking capacity

### Derived Versions

- Thermal magnetic
- Electronic
- Molded case switches
- Motor circuit protectors (MCPs)
- Direct current (DC) rated

### ABB Tmax Versions

- Fixed: all models
- Drawout or plug-in: T2, T3, Ts3, T4, T5, T6 and T7
- UL File #E93565 (breakers and MCPs)
- #E116596 (Accessories)
- #E116595 (Molded case switches)
- CSA file #LR54280

## Selection Guide

### Circuit Breakers for Power Distribution

#### T1 – Ts3



T1 1P



T1



T2



T3



Ts3

| Type                        |                  | Tmax T1 1p | Tmax T1  | Tmax T2  |  | Tmax T3  |  | Tmax Ts3     |  |  | Tmax Ts3   |  |  |
|-----------------------------|------------------|------------|----------|----------|--|----------|--|--------------|--|--|------------|--|--|
| Frame size                  | [A]              | 100        | 100      | 100      |  | 225      |  | 150          |  |  | 225        |  |  |
| Number of poles             | [Nr]             | 1          | 3-4      | 3-4      |  | 3-4      |  | 2-3-4        |  |  | 2-3-4      |  |  |
| Rated voltage               | AC (50-60Hz)     | [V]        | 347      | 600Y/347 |  | 480      |  | 600Y/347     |  |  | 480        |  |  |
|                             | DC               | [V]        |          | 500      |  | 500      |  | 600          |  |  | 500        |  |  |
| Interrupting ratings        |                  |            | B        | N        |  | S H      |  | N H L        |  |  | N H L      |  |  |
|                             |                  |            |          | 50 (2)   |  | 65 100   |  | 65 100 150   |  |  | 65 100 150 |  |  |
| 240V AC                     | [kA rms]         |            |          |          |  |          |  |              |  |  |            |  |  |
| 277V AC                     | [kA rms]         | 18 (1)     |          |          |  |          |  |              |  |  |            |  |  |
| 347V AC                     | [kA rms]         | 14 (1)     |          |          |  |          |  |              |  |  |            |  |  |
| 480V AC                     | [kA rms]         |            | 22 (2)   | 35 65    |  | 25 35    |  | 25 50 85 (3) |  |  | 25 50 65   |  |  |
| 600Y/347V AC                | [kA rms]         |            | 10       |          |  | 10 10    |  |              |  |  |            |  |  |
| 600V AC                     | [kA rms]         |            |          |          |  |          |  | 14 14 25     |  |  |            |  |  |
| 250V DC (2 poles in series) | [kA rms]         |            | 25       |          |  | 25 35    |  |              |  |  |            |  |  |
| 500V DC (3 poles in series) | [kA rms]         |            | 25       |          |  | 25 35    |  |              |  |  |            |  |  |
| 500V DC (2 poles in series) | [kA rms]         |            |          |          |  |          |  | 35 50 65     |  |  | 20 35 50   |  |  |
| 600V DC (3 poles in series) | [kA rms]         |            |          |          |  |          |  | 20 35 50     |  |  |            |  |  |
| Trip units                  | TMF              | •          | •        | •        |  | •        |  | •            |  |  | •          |  |  |
|                             | TMD/TMA          |            |          |          |  |          |  |              |  |  |            |  |  |
|                             | MA               |            |          | •        |  | •        |  | •            |  |  | •          |  |  |
|                             | Electronic       |            |          | •        |  |          |  |              |  |  |            |  |  |
| Dimensions                  | H                | [in/mm]    | 5.12/130 | 5.12/130 |  | 5.12/130 |  | 6.7/170      |  |  | 6.7/170    |  |  |
|                             | W 3p             | [in/mm]    | 1/25.4   | 3/76     |  | 3.54/90  |  | 4.13/105     |  |  | 4.13/105   |  |  |
|                             | D                | [in/mm]    | 2.76/70  | 2.76/70  |  | 2.76/70  |  | 4.07/103.5   |  |  | 4.07/103.5 |  |  |
| Mechanical life             | [No. operations] |            | 25000    | 25000    |  | 25000    |  | 25000        |  |  | 25000      |  |  |

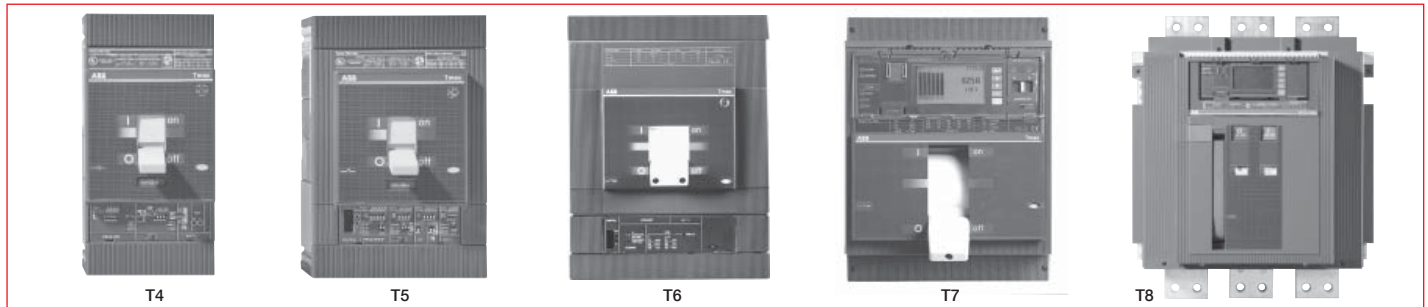
(1) In15A = 10kA@277VAC 10kA@347VAC  
 (2) In15A = 35kA@240VAC 14kA@480Y/277 VAC  
 (3) In from 15A up to 30A=65kA@480V AC

# Selection Guide

## Circuit Breakers for Power Distribution

### T4 – T8

Tmax



| Type                        |              |                  | Tmax T4              |     |     |     |     | Tmax T5                |     |     |     |     | Tmax T6    |     |     |     | Tmax T7                            |     |     | Insulated Case T8       |
|-----------------------------|--------------|------------------|----------------------|-----|-----|-----|-----|------------------------|-----|-----|-----|-----|------------|-----|-----|-----|------------------------------------|-----|-----|-------------------------|
| Frame size                  |              | [A]              | 250                  |     |     |     |     | 400-600 <sup>(3)</sup> |     |     |     |     | 800        |     |     |     | 1000-1200                          |     |     | 1600, 2000, 2500 & 3000 |
| Number of poles             |              | [Nr]             | 2-3-4 <sup>(4)</sup> |     |     |     |     | 2-3-4 <sup>(4)</sup>   |     |     |     |     | 3-4        |     |     |     | 3-4                                |     |     | 3                       |
| Rated voltage               | AC (50-60Hz) | [V]              | 600                  |     |     |     |     | 600                    |     |     |     |     | 600        |     |     |     | 600                                |     |     | 600                     |
|                             | DC           | [V]              | 600                  |     |     |     |     | 600                    |     |     |     |     | 600        |     |     |     | 600                                |     |     | T8                      |
| Interrupting ratings        |              |                  | N                    | S   | H   | L   | V   | N                      | S   | H   | L   | V   | N          | S   | H   | L   | S                                  | H   | L   | T8V                     |
| 240V AC                     |              | [kA rms]         | 65                   | 100 | 150 | 200 | 200 | 65                     | 100 | 150 | 200 | 200 | 65         | 100 | 200 | 200 | 65                                 | 100 | 150 | 125                     |
| 277V AC                     |              | [kA rms]         |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| 347V AC                     |              | [kA rms]         |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| 480V AC                     |              | [kA rms]         | 25                   | 35  | 65  | 100 | 150 | 25                     | 35  | 65  | 100 | 150 | 35         | 50  | 65  | 100 | 50                                 | 65  | 100 | 125                     |
| 600Y/347V AC                |              | [kA rms]         |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| 600V AC                     |              | [kA rms]         | 18                   | 25  | 35  | 65  | 100 | 18                     | 25  | 35  | 65  | 100 | 20         | 25  | 35  | 42  | 25                                 | 50  | 65  | 100                     |
| 250V DC (2 poles in series) |              | [kA rms]         |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| 500V DC (3 poles in series) |              | [kA rms]         |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| 500V DC (2 poles in series) |              | [kA rms]         | 25                   | 35  | 50  | 65  | 100 | 25                     | 35  | 50  | 65  | 100 | 35         | 35  | 50  | 65  |                                    |     |     |                         |
| 600V DC (3 poles in series) |              | [kA rms]         | 16                   | 25  | 35  | 50  | 65  | 16                     | 25  | 35  | 50  | 65  | 20         | 20  | 35  | 50  |                                    |     |     |                         |
| Trip units                  |              | TMF              |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
|                             |              | TMD/TMA          |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
|                             |              | MA               |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
|                             |              | Electronic       |                      |     |     |     |     |                        |     |     |     |     |            |     |     |     |                                    |     |     |                         |
| Dimensions                  |              | H [in/mm]        | 8.07/205             |     |     |     |     | 8.07/205               |     |     |     |     | 10.55/268  |     |     |     | 10.55/268                          |     |     | 15 / 382                |
|                             |              | W 3p [in/mm]     | 4.13/105             |     |     |     |     | 5.51/140               |     |     |     |     | 8.26/210   |     |     |     | 8.26/210                           |     |     | 16.8 / 427              |
|                             |              | D [in/mm]        | 4.07/103.5           |     |     |     |     | 4.07/103.5             |     |     |     |     | 4.07/103.5 |     |     |     | 6.06/154 (toggle)<br>7/178 (motor) |     |     | 11.2 / 282              |
| Mechanical life             |              | [No. operations] | 20,000               |     |     |     |     | 20,000                 |     |     |     |     | 20,000     |     |     |     | 10,000                             |     |     | 15,000                  |

(3) T5 600 with electronic trip units only and in three pole version-

(4) 2 pole T4N250 and T5N400 available only in N interrupting capacity.



## General Information

### Catalog Number Explanation

# T3 S 080 T W - 4 xxx

#### Accessories (Added In Alpha-Numeric Order) <sup>(1)</sup>

A = Auxiliary Switch  
S\_ = Shunt trip with voltage code  
U\_ = Undervoltage release with voltage code

#### Number Of Poles

-1 = 1 pole (T1 only)  
-2 = 2 pole  
-4 = 4 pole  
None = 3 pole

#### Type Connectors

W = None  
L = Lugs on top/bottom terminals  
T = Lugs on top terminal  
B = Lugs on bottom terminal

#### Trip Unit Function

B = LS/I (AC only)  
D = Molded Case Switch (MCS)  
T = Thermal-magnetic  
M = Magnetic only (MCP)  
E5 = Electronic MCP (AC only)  
C = LSI (AC only)  
E = LSIG (AC only)  
P = PR332/P LI  
R = PR332/P LSI  
S = PR332/P LSIG

#### Current Rating

|              |            |
|--------------|------------|
| 015 = 15A    | 16 = 1600A |
| 080 = 80A    | 20 = 2000A |
| 100 = 100A   | 25 = 2500A |
| 225 = 225A   | 30 = 3000A |
| 250 = 250A   |            |
| 400 = 400A   |            |
| 600 = 600A   |            |
| 800 = 800A   |            |
| 1000 = 1000A |            |
| 1200 = 1200A |            |

#### Interrupting Rating Class

B = Basic  
N = Normal  
S = Standard  
H = High  
L = Extra High  
V = Very high

#### Frame Size

|                                  |                           |
|----------------------------------|---------------------------|
| T1 = 100A                        | T8 <sup>(3)</sup> = 1600A |
| T2 = 100A                        | = 2000A                   |
| T3 = 225A                        | = 2500A                   |
| Ts3 = 225A                       | = 3000A                   |
| T4 = 250A                        |                           |
| T5 = 400A, 600A                  |                           |
| T6 = 600A, 800A                  |                           |
| T7 <sup>(2)</sup> = 1000A, 1200A |                           |



(1) Consult ABB for factory installed accessories.

(2) For T7, refer to page 40

(3) For T8, refer to page 46

# T1

## 100A, 600Y/347VAC, 480VAC Δ

### Thermal-Magnetic

T1



T1

**Dimensions** 3P Fixed Version 5.12H x 3.00W x 2.76D  
**Weight** 2.34 (lbs)

#### General

The T1 breaker family ranges from 15 through 100 amperes. The T1 trip units are non-interchangeable and use the very latest technology in electromagnetic relays for overcurrent trip protection. Thermal overload protection is provided by heat sensitive bimetals. Short-circuit protection for the breaker is accomplished using a precise magnetic coil. State of the art construction in contacts and arcing chambers aid in limiting damaging fault currents through the protected circuits.

#### Standards

The UL489/CSA C22.2 No. 5 version of T1 also carries an IEC-60947-2 rating.

#### Versions

The T1 frame is available in two versions:

- T = Thermal-magnetic, fixed
- D = Molded case switch

#### Performance Levels

The T1 breaker has two performance levels available:

- B = Basic (Single Pole)
- N = Normal (3 or 4 pole)

#### Number of Poles

The UL/CSA version of the T1 is available in single, three and four pole versions. IEC versions of the T1 are also available with the same dimensions up to 160 amperes. Please contact ABB for details.

#### Reverse Feeding

All versions of the T1 family are suitable for reverse feed applications.

#### Molded Case Switches

UL/CSA switches include no overcurrent protection except for a high instantaneous trip mechanism for self protection.

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

| Voltage              | Continuous Rating | B (1-Pole) | N        |
|----------------------|-------------------|------------|----------|
| 240VAC               | 15<br>20 – 100    | —<br>—     | 35<br>50 |
| 277VAC               | 15<br>20 – 100    | 10<br>18   | —<br>—   |
| 347VAC               | 15<br>20 – 100    | 10<br>14   | —<br>—   |
| 480Y/277VAC          | 15                | —          | 14       |
| 480VAC               | 20 – 100          | —          | 22       |
| 600Y/347VAC          | 15 – 100          | —          | 10       |
| 250VDC 2 pole series | 15 – 100A         | —          | 25       |
| 500VDC 3 pole series | 15 – 100A         | —          | 25       |

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

| Voltage              | Continuous Rating | B (1-Pole) | N  |
|----------------------|-------------------|------------|----|
| 230VAC               | 16 – 160A         | 25         | 50 |
| 415VAC               | 16 – 160A         | —          | 36 |
| 440VAC               | 16 – 160A         | —          | 22 |
| 500VAC               | 16 – 160A         | —          | 15 |
| 690VAC               | 16 – 160A         | —          | 6  |
| 250VDC 2 pole series | 16 – 160A         | —          | 36 |
| 500VDC 2 pole series | 16 – 160A         | —          | 36 |



T1

# T1

## 600Y/347VAC, 480VAC Δ

### Thermal-Magnetic/Molded Case Switch

#### T1-100A Frame, Thermal-Magnetic Trip Unit Fixed, 1 pole

| Breaker | IC at 347VAC | Rating | Magnetic Trip | 1-Pole, 347VAC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------|------------|
| T1B     | 10kA         | 15A    | 1000A         | T1B015TL-1                 |            |
|         | 14kA         | 20A    | 1000A         | T1B020TL-1                 |            |
|         |              | 25A    | 1000A         | T1B025TL-1                 |            |
|         |              | 30A    | 1000A         | T1B030TL-1                 |            |
|         |              | 40A    | 1000A         | T1B040TL-1                 |            |
|         |              | 50A    | 1500A         | T1B050TL-1                 |            |
|         |              | 60A    | 1500A         | T1B060TL-1                 |            |
|         |              | 70A    | 1500A         | T1B070TL-1                 |            |
|         |              | 80A    | 1500A         | T1B080TL-1                 |            |
|         |              | 90A    | 1500A         | T1B090TL-1                 |            |
|         |              | 100A   | 1500A         | T1B100TL-1                 |            |

#### T1-100A Frame, Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 600Y/347VAC/500VDC Part Number | List Price | 4-Pole, 600Y/347VAC/500VDC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------------------|------------|----------------------------------------|------------|
| T1N     | 14kA         | 15A    | 1000A         | T1N015TL                               |            | T1N015TL-4                             |            |
|         | 22kA         | 20A    | 1000A         | T1N020TL                               |            | T1N020TL-4                             |            |
|         |              | 25A    | 1000A         | T1N025TL                               |            | T1N025TL-4                             |            |
|         |              | 30A    | 1000A         | T1N030TL                               |            | T1N030TL-4                             |            |
|         |              | 40A    | 1000A         | T1N040TL                               |            | T1N040TL-4                             |            |
|         |              | 50A    | 1500A         | T1N050TL                               |            | T1N050TL-4                             |            |
|         |              | 60A    | 1500A         | T1N060TL                               |            | T1N060TL-4                             |            |
|         |              | 70A    | 1500A         | T1N070TL                               |            | T1N070TL-4                             |            |
|         |              | 80A    | 1500A         | T1N080TL                               |            | T1N080TL-4                             |            |
|         |              | 90A    | 1500A         | T1N090TL                               |            | T1N090TL-4                             |            |
|         |              | 100A   | 1500A         | T1N100TL                               |            | T1N100TL-4                             |            |

#### T-100A Frame, 100% Rated Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating            | Magnetic Trip | 3-Pole, 600Y/347VAC/500VDC Part Number | List Price |
|---------|--------------|-------------------|---------------|----------------------------------------|------------|
| T1NQ    | 14kA         | 15 <sup>(1)</sup> | 1000A         | T1NQ015TL                              |            |
|         | 22kA         | 20                | 1000A         | T1NQ020TL                              |            |
|         |              | 25                | 1000A         | T1NQ025TL                              |            |
|         |              | 30                | 1000A         | T1NQ030TL                              |            |
|         |              | 40                | 1000A         | T1NQ040TL                              |            |
|         |              | 50                | 1500A         | T1NQ050TL                              |            |
|         |              | 60                | 1500A         | T1NQ060TL                              |            |
|         |              | 70                | 1500A         | T1NQ070TL                              |            |
|         |              | 80                | 1500A         | T1NQ080TL                              |            |
|         |              | 90                | 1500A         | T1NQ090TL                              |            |
|         |              | 100               | 1500A         | T1NQ100TL                              |            |

#### T1-100A Frame, Molded Case Switch

| Breaker | Interrupting Capacity <sup>(2)</sup> | Rating | Magnetic Trip | 3-Pole, 600Y/347V/500VDC Part Number | List Price | 4-Pole, 600Y/347V/500VDC Part Number | List Price |
|---------|--------------------------------------|--------|---------------|--------------------------------------|------------|--------------------------------------|------------|
| T1-D    | 240V, 50kA                           | 100A   | 1000A         | T1N100DL                             |            | T1N100DL-4                           |            |

1 Rated 480Y/277VAC for 15A.

2 When protected by a OCPD with appropriate ratings.

# T2

## 100A, 480VAC Δ

### Thermal-Magnetic/Electronic/Current Limiting

T2



**Dimensions** 3P Fixed Version 5.12H x 3.54W x 2.76D  
**Weight** 2.84 (lbs)

#### General

The T2 breaker family ranges from 10 through 100 amperes. The T2 trip units are non-interchangeable and use the very latest technology in electromagnetic relays for overcurrent trip protection as well as a version with microprocessor-based electronic trip unit. Thermal overload protection is provided by heat sensitive bimetals. State of the art construction in contacts and arcing chambers aid in limiting damaging fault currents through the protected circuits.

#### Standards

The UL489/CSA C22.2 No. 5 version of T2 also carries an IEC-60947-2 rating.

#### Versions

The T2 frame is available in four versions:

- T = Thermal-magnetic, fixed
- B = Adjustable LS/I electronic
- M = Magnetic only (MCP)
- E5 = Electronic instantaneous only (MCP)

#### Trip Functions

These tripping functions are available:

- L = Long time
- S = Short time
- I = Instantaneous

#### Performance Levels

The T2 breaker has two performance levels available:

- S = Standard
- H = High - UL Current Limiting

#### Number of Poles

The UL/CSA version of the T2 is available in three and four pole versions. IEC versions of the T2 are also available with the same dimensions up to 160 amperes. Please contact ABB for details.

#### Reverse Feeding

All versions of the T2 family are suitable for reverse feed applications.

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

| Voltage  | Continuous Rating | S  | H   |
|----------|-------------------|----|-----|
| 240VAC   | 10 – 100A         | 65 | 150 |
| 480VAC Δ | 10 – 100A         | 35 | 65  |

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

| Voltage              | Continuous Rating | S  | H   |
|----------------------|-------------------|----|-----|
| 230VAC               | 1.6 – 160A        | 85 | 100 |
| 415VAC               | 1.6 – 160A        | 50 | 70  |
| 440V                 | 1.6 – 160A        | 45 | 55  |
| 500V                 | 1.6 – 160A        | 30 | 36  |
| 690VAC               | 1.6 – 160A        | 7  | 8   |
| 250VDC 2 pole series | 1.6 – 160A        | 50 | 70  |
| 500VDC 3 pole series | 1.6 – 160A        | 50 | 70  |

T2

## T2

### 100A, 480VAC Δ

### Thermal-Magnetic/Current Limiting

#### T2-100A Frame, Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 480VAC Part Number | List Price | 4-Pole, 480VAC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------|------------|----------------------------|------------|
| T2S     | 35kA         | 15A    | 500A          | T2S015TW                   |            | T2S015TW-4                 |            |
|         |              | 20A    | 500A          | T2S020TW                   |            | T2S020TW-4                 |            |
|         |              | 25A    | 500A          | T2S025TW                   |            | T2S025TW-4                 |            |
|         |              | 30A    | 500A          | T2S030TW                   |            | T2S030TW-4                 |            |
|         |              | 40A    | 500A          | T2S040TW                   |            | T2S040TW-4                 |            |
|         |              | 50A    | 500A          | T2S050TW                   |            | T2S050TW-4                 |            |
|         |              | 60A    | 600A          | T2S060TW                   |            | T2S060TW-4                 |            |
|         |              | 70A    | 700A          | T2S070TW                   |            | T2S070TW-4                 |            |
|         |              | 80A    | 800A          | T2S080TW                   |            | T2S080TW-4                 |            |
|         |              | 90A    | 900A          | T2S090TW                   |            | T2S090TW-4                 |            |
|         |              | 100A   | 1000A         | T2S100TW                   |            | T2S100TW-4                 |            |

| Breaker                    | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 480VAC Part Number | List Price | 4-Pole, 480VAC Part Number | List Price |
|----------------------------|--------------|--------|---------------|----------------------------|------------|----------------------------|------------|
| T2H<br>UL Current Limiting | 65kA         | 15A    | 500A          | T2H015TW                   |            | T2H015TW-4                 |            |
|                            |              | 20A    | 500A          | T2H020TW                   |            | T2H020TW-4                 |            |
|                            |              | 25A    | 500A          | T2H025TW                   |            | T2H025TW-4                 |            |
|                            |              | 30A    | 500A          | T2H030TW                   |            | T2H030TW-4                 |            |
|                            |              | 40A    | 500A          | T2H040TW                   |            | T2H040TW-4                 |            |
|                            |              | 50A    | 500A          | T2H050TW                   |            | T2H050TW-4                 |            |
|                            |              | 60A    | 600A          | T2H060TW                   |            | T2H060TW-4                 |            |
|                            |              | 70A    | 700A          | T2H070TW                   |            | T2H070TW-4                 |            |
|                            |              | 80A    | 800A          | T2H080TW                   |            | T2H080TW-4                 |            |
|                            |              | 90A    | 900A          | T2H090TW                   |            | T2H090TW-4                 |            |
|                            |              | 100A   | 1000A         | T2H100TW                   |            | T2H100TW-4                 |            |

#### T2-100A Frame, 100% Rated Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 480VAC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------|------------|
| T2SQ    | 35kA         | 15A    | 500A          | T2SQ015TW                  |            |
|         |              | 20A    | 500A          | T2SQ020TW                  |            |
|         |              | 25A    | 500A          | T2SQ025TW                  |            |
|         |              | 30A    | 500A          | T2SQ030TW                  |            |
|         |              | 40A    | 500A          | T2SQ040TW                  |            |
|         |              | 50A    | 500A          | T2SQ050TW                  |            |
|         |              | 60A    | 600A          | T2SQ060TW                  |            |
|         |              | 70A    | 700A          | T2SQ070TW                  |            |
|         |              | 80A    | 800A          | T2SQ080TW                  |            |
|         |              | 90A    | 900A          | T2SQ090TW                  |            |
|         |              | 100A   | 1000A         | T2SQ100TW                  |            |

| Breaker                     | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 480VAC Part Number | List Price |
|-----------------------------|--------------|--------|---------------|----------------------------|------------|
| T2HQ<br>UL Current Limiting | 65kA         | 15A    | 500A          | T2HQ015TW                  |            |
|                             |              | 20A    | 500A          | T2HQ020TW                  |            |
|                             |              | 25A    | 500A          | T2HQ025TW                  |            |
|                             |              | 30A    | 500A          | T2HQ030TW                  |            |
|                             |              | 40A    | 500A          | T2HQ040TW                  |            |
|                             |              | 50A    | 500A          | T2HQ050TW                  |            |
|                             |              | 60A    | 600A          | T2HQ060TW                  |            |
|                             |              | 70A    | 700A          | T2HQ070TW                  |            |
|                             |              | 80A    | 800A          | T2HQ080TW                  |            |
|                             |              | 90A    | 900A          | T2HQ090TW                  |            |
|                             |              | 100A   | 1000A         | T2HQ100TW                  |            |

# T2

## 100A, 480VAC Δ

### Electronic/Current Limiting, 100% Rated, MCP

T2

#### T2-100A Frame, Electronic Trip Unit (AC Only)

| Breaker                    | IC at 480VAC | Trip Unit Type | CT Rating          | 3-Pole, 480VAC Part Number       | List Price | 4-Pole, 480VAC Part Number             | List Price |
|----------------------------|--------------|----------------|--------------------|----------------------------------|------------|----------------------------------------|------------|
| T2S                        | 35kA         | PR221DS-LS/I   | 25A<br>60A<br>100A | T2S025BW<br>T2S060BW<br>T2S100BW |            | T2S025BW-4<br>T2S060BW-4<br>T2S100BW-4 |            |
| T2H<br>UL Current Limiting | 65kA         | PR221DS-LS/I   | 25A<br>60A<br>100A | T2H025BW<br>T2H060BW<br>T2H100BW |            | T2H025BW-4<br>T2H060BW-4<br>T2H100BW-4 |            |

#### T2-100A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker                     | IC at 480VAC | Trip Unit Type | CT Rating          | 3-Pole, 480VAC Part Number          | List Price |
|-----------------------------|--------------|----------------|--------------------|-------------------------------------|------------|
| T2SQ                        | 35kA         | PR221DS-LS/I   | 25A<br>60A<br>100A | T2SQ025BW<br>T2SQ060BW<br>T2SQ100BW |            |
| T2HQ<br>UL Current Limiting | 65kA         | PR221DS-LS/I   | 25A<br>60A<br>100A | T2HQ025BW<br>T2HQ060BW<br>T2HQ100BW |            |

#### T2 -100A Frame, Motor Control Protection (MCP) Magnetic Only Trip Unit

| Breaker | IC at 480VAC | Trip Unit Type | Rating             | Adjustment Range                     | 3-Pole, 480VAC Part Number       | List Price |
|---------|--------------|----------------|--------------------|--------------------------------------|----------------------------------|------------|
| T2S     | 35kA         | Mag only       | 20A<br>50A<br>100A | 120 - 240<br>300 - 600<br>600 - 1200 | T2S020MW<br>T2S050MW<br>T2S100MW |            |
| T2H     | 65kA         | Mag only       | 20A<br>50A<br>100A | 120 - 240<br>300 - 600<br>600 - 1200 | T2H020MW<br>T2H050MW<br>T2H100MW |            |

#### T2 -100A Frame, Motor Control Protection (MCP) Magnetic Only Electronic Trip Unit (AC Only)

| Breaker | IC at 480VAC | Trip Unit Type     | Rating             | Adjustment Range                   | 3-Pole, 480VAC Part Number          | List Price |
|---------|--------------|--------------------|--------------------|------------------------------------|-------------------------------------|------------|
| T2S     | 35kA         | Instantaneous only | 25A<br>60A<br>100A | 25 - 250<br>60 - 600<br>100 - 1000 | T2S025E5W<br>T2S060E5W<br>T2S100E5W |            |
| T2H     | 65kA         | Instantaneous only | 25A<br>60A<br>100A | 25 - 250<br>60 - 600<br>100 - 1000 | T2H025E5W<br>T2H060E5W<br>T2H100E5W |            |

## T3

### 225A, 600Y/347VAC, 480VAC Δ

### Thermal-Magnetic



T3

**Dimensions** 3P Fixed Version 5.9H x 4.13W x 2.76D  
**Weight** 5.45 (lbs)

#### General

The T3 breaker family ranges from 60 through 225 amperes. The T3 trip units are non-interchangeable and use the very latest technology in electromagnetic relays for overcurrent trip protection. Thermal overload protection is provided by heat sensitive bimetals. Short-circuit protection begins at 10 times the thermal rating of the breaker using a precise magnetic coil. State of the art construction in contacts and arcing chambers aid in limiting damaging fault currents through the protected circuits.

#### Standards

The UL489/CSA C22.2 No. 5 version of T3 also carries an IEC-60947-2 rating.

#### Versions

The T3 frame is available in three versions:

- T = Thermal-magnetic, fixed
- M = Magnetic only (MCP)
- D = Molded case switch

#### Performance Levels

The T3 breaker has two performance levels available:

- N = Normal
- S = Standard

#### Number of Poles

The UL/CSA version of the T3 is available in three and four pole versions. IEC versions of the T3 are also available with the same dimensions up to 250 amperes. Please contact ABB for details.

#### Molded Case Switches

UL/CSA switches include no overcurrent protection except for a high instantaneous trip mechanism for self protection.

#### Reverse Feeding

All versions of the T3 family are suitable for reverse feed application.

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

| Voltage               | Continuous Rating | N  | S  |
|-----------------------|-------------------|----|----|
| 240VAC                | 60 – 225A         | 50 | 65 |
| 480VAC Δ              | 60 – 225A         | 25 | 35 |
| 600Y/347VAC           | 60 – 225A         | 10 | 10 |
| 250VDC <sup>(1)</sup> | 60 – 225A         | 25 | 35 |
| 500VDC <sup>(2)</sup> | 60 – 225A         | 25 | 35 |

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

| Voltage               | Continuous Rating | B (1-Pole) | N  |
|-----------------------|-------------------|------------|----|
| 230VAC                | 63 – 250A         | 50         | 85 |
| 415VAC                | 63 – 250A         | 36         | 50 |
| 440V                  | 63 – 250A         | 25         | 40 |
| 500V                  | 63 – 250A         | 20         | 30 |
| 690VAC                | 63 – 250A         | 5          | 8  |
| 250VDC <sup>(1)</sup> | 63 – 250A         | 36         | 50 |
| 500VDC <sup>(2)</sup> | 63 – 250A         | 36         | 50 |

(1) 2 poles in series.

(2) 3 poles in series.

# T3

## 225A, 600Y/347VAC, 480VAC Δ

### Thermal-Magnetic

T3

#### T3-225A Frame, Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 600Y/347VAC-500DC Part Number | List Price | 4-Pole, 600Y/347VAC-500DC Part Number | List Price |
|---------|--------------|--------|---------------|---------------------------------------|------------|---------------------------------------|------------|
| T3N     | 25kA         | 60A    | 600A          | T3N060TW                              |            | T3N060TW-4                            |            |
|         |              | 70A    | 700A          | T3N070TW                              |            | T3N070TW-4                            |            |
|         |              | 80A    | 800A          | T3N080TW                              |            | T3N080TW-4                            |            |
|         |              | 90A    | 900A          | T3N090TW                              |            | T3N090TW-4                            |            |
|         |              | 100A   | 1000A         | T3N100TW                              |            | T3N100TW-4                            |            |
|         |              | 125A   | 1250A         | T3N125TW                              |            | T3N125TW-4                            |            |
|         |              | 150A   | 1500A         | T3N150TW                              |            | T3N150TW-4                            |            |
|         |              | 175A   | 1750A         | T3N175TW                              |            | T3N175TW-4                            |            |
|         |              | 200A   | 2000A         | T3N200TW                              |            | T3N200TW-4                            |            |
|         |              | 225A   | 2250A         | T3N225TW                              |            | T3N225TW-4                            |            |

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 600Y/347VAC-500DC Part Number | List Price | 4-Pole, 600Y/347VAC-500DC Part Number | List Price |
|---------|--------------|--------|---------------|---------------------------------------|------------|---------------------------------------|------------|
| T3S     | 35kA         | 60A    | 600A          | T3S060TW                              |            | T3S060TW-4                            |            |
|         |              | 70A    | 700A          | T3S070TW                              |            | T3S070TW-4                            |            |
|         |              | 80A    | 800A          | T3S080TW                              |            | T3S080TW-4                            |            |
|         |              | 90A    | 900A          | T3S090TW                              |            | T3S090TW-4                            |            |
|         |              | 100A   | 1000A         | T3S100TW                              |            | T3S100TW-4                            |            |
|         |              | 125A   | 1250A         | T3S125TW                              |            | T3S125TW-4                            |            |
|         |              | 150A   | 1500A         | T3S150TW                              |            | T3S200TW-4                            |            |
|         |              | 175A   | 1750A         | T3S175TW                              |            | T3S175TW-4                            |            |
|         |              | 200A   | 2000A         | T3S200TW                              |            | T3S200TW-4                            |            |
|         |              | 225A   | 2250A         | T3S225TW                              |            | T3S225TW-4                            |            |

#### T3-225A Frame, 100% Rated Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 600Y/347VAC-500VDC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------------------|------------|
| T3NQ    | 25kA         | 60A    | 600A          | T3NQ060TW                              |            |
|         |              | 70A    | 700A          | T3NQ070TW                              |            |
|         |              | 80A    | 800A          | T3NQ080TW                              |            |
|         |              | 90A    | 900A          | T3NQ090TW                              |            |
|         |              | 100A   | 1000A         | T3NQ100TW                              |            |
|         |              | 125A   | 1250A         | T3NQ125TW                              |            |
|         |              | 150A   | 1500A         | T3NQ150TW                              |            |
|         |              | 175A   | 1750A         | T3NQ175TW                              |            |
|         |              | 200A   | 2000A         | T3NQ200TW                              |            |
|         |              | 225A   | 2250A         | T3NQ225TW                              |            |

| Breaker | IC at 480VAC | Rating | Magnetic Trip | 3-Pole, 600Y/347VAC-500VDC Part Number | List Price |
|---------|--------------|--------|---------------|----------------------------------------|------------|
| T3SQ    | 35kA         | 60A    | 600A          | T3SQ060TW                              |            |
|         |              | 70A    | 700A          | T3SQ070TW                              |            |
|         |              | 80A    | 800A          | T3SQ080TW                              |            |
|         |              | 90A    | 900A          | T3SQ090TW                              |            |
|         |              | 100A   | 1000A         | T3SQ100TW                              |            |
|         |              | 125A   | 1250A         | T3SQ125TW                              |            |
|         |              | 150A   | 1500A         | T3SQ150TW                              |            |
|         |              | 175A   | 1750A         | T3SQ175TW                              |            |
|         |              | 200A   | 2000A         | T3SQ200TW                              |            |
|         |              | 225A   | 2250A         | T3SQ225TW                              |            |



T3

## T3

### 225A, 600Y/347VAC, 480VAC Δ

### MCP/Molded Case Switch

#### T3-225A Frame, Motor Control Protection (MCP) Magnetic Only Trip Unit

| Breaker | IC at<br>480VAC | IC at<br>600Y/347VAC | IC at<br>500VDC | Trip Unit<br>Type | Rating                       | Adjustment<br>Range                                   | 3-Pole, 600Y/347VAC-500VDC<br>Part Number    | List<br>Price |
|---------|-----------------|----------------------|-----------------|-------------------|------------------------------|-------------------------------------------------------|----------------------------------------------|---------------|
| T3S     | 35kA            | 10kA                 | 35kA            | Mag only          | 100A<br>125A<br>150A<br>200A | 600 – 1200<br>750 - 1500<br>900 - 1800<br>1200 - 2400 | T3S100MW<br>T3S125MW<br>T3S150MW<br>T3S200MW |               |

#### T3S-225A Frame, Molded Case Switch

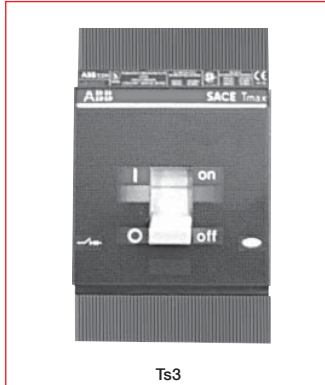
| Breaker | Rating       | Magnetic<br>Trip | 3-Pole, 600Y/347VAC-500VDC<br>Part Number | List<br>Price | 4-Pole, 600Y/3 500VDC<br>Part Number | List<br>Price |
|---------|--------------|------------------|-------------------------------------------|---------------|--------------------------------------|---------------|
| T3S-D   | 150A<br>225A | 1500A<br>2250A   | T3S150DW<br>T3S225DW                      |               | T3S150DW-4<br>T3S225DW-4             |               |

# Ts3

## 150A 600VAC Δ / 225A, 480VAC

### Thermal-Magnetic

Ts3



Ts3

**Dimensions** 3P Fixed Version 6.7H x 4.13W x 4.07D  
**Weight** 6.75 (lbs)

#### General

The Ts3 breaker family ranges from 15 through 225 amperes. The Ts3 trip mechanisms are non-interchangeable and use sensitive electromagnetic relays for overcurrent trip protection. Heat sensitive bimetals are used for thermal overcurrent protection. Short-circuit current protection begins at 10 times the thermal rating of the breaker and uses a magnetic coil principle.

#### Standards

The UL489/CSA C22.2 No. 5 version of Ts3 also carries an IEC-60947-2 rating.

#### Versions

To meet all application needs, the Ts3 is available in various versions:

- T = Thermal-magnetic
- D = Molded case switch
- M = Magnetic only (MCP)

#### Performance Level

Each version is also available in different maximum fault interrupting levels

- N = Normal
- H = High
- L = Extra high

#### Number of Poles

In UL/CSA form, the Ts3 is available in two pole or three pole versions, both with the same dimensions. A four-pole version is also available in the N version. For price estimation, add 35% to list price of selected version three pole breaker, contact ABB for details.

#### Molded Case Switches

UL/CSA switches include no overcurrent protection except for a high instantaneous trip mechanism for self protection. IEC type molded case switches with no trip protection are also available.

#### Reverse Feeding

All versions of the Ts3 family are suitable for reverse feed application.

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

| Voltage                        | N  | H   | L                 |
|--------------------------------|----|-----|-------------------|
| 240 VAC                        | 65 | 100 | 150               |
| 480 VAC                        | 25 | 50  | 85 <sup>(1)</sup> |
| 600 VAC <sup>(2)</sup>         | 14 | 14  | 25                |
| 500 VDC <sup>(4)</sup>         | 35 | 50  | 65                |
| 600 VDC <sup>(5)</sup>         | 20 | 35  | 50                |
| Ts3/225A 500VDC <sup>(3)</sup> | 20 | 35  | 50                |

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

| Voltage        | N  | H   | L   |
|----------------|----|-----|-----|
| 230 VAC        | 65 | 100 | 170 |
| 380/400/415VAC | 35 | 65  | 85  |
| 440 VAC        | 30 | 50  | 65  |
| 500 VAC        | 25 | 40  | 50  |
| 690 VAC        | 14 | 18  | 20  |
| 500 VDC        | 35 | 50  | 65  |
| 750 VDC        | 20 | 35  | 50  |

(1) 15-30A and 175-200-225A are 65kA at 480VAC  
 (2) Ts3 175A, 200A, 225A are rated 480VAC / 500DVC maximum  
 (3) Ts3 175A, 200A, 225A  
 (4) 2 poles in series  
 (5) 3 poles in series

Ts3

# Ts3 150A, 600VAC Δ / 225A, 480VAC Δ Thermal-Magnetic

## Ts3-150A Frame, Thermal-Magnetic Trip Unit Fixed

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 2-Pole, 480VAC/500VDC Part Number | List Price | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|-----------------------------------|------------|-----------------------------------|------------|
| Ts3N    | 14kA              | 15A                 | 500A          | Ts3N015TW-2                       |            | Ts3N015TW                         |            | Ts3N015TW-4                       |            |
|         |                   | 20A                 | 500A          | Ts3N020TW-2                       |            | Ts3N020TW                         |            | Ts3N020TW-4                       |            |
|         |                   | 25A                 | 500A          | Ts3N025TW-2                       |            | Ts3N025TW                         |            | Ts3N025TW-4                       |            |
|         |                   | 30A                 | 500A          | Ts3N030TW-2                       |            | Ts3N030TW                         |            | Ts3N030TW-4                       |            |
|         |                   | 35A                 | 500A          | Ts3N035TW-2                       |            | Ts3N035TW                         |            | Ts3N035TW-4                       |            |
|         |                   | 40A                 | 500A          | Ts3N040TW-2                       |            | Ts3N040TW                         |            | Ts3N040TW-4                       |            |
|         |                   | 50A                 | 500A          | Ts3N050TW-2                       |            | Ts3N050TW                         |            | Ts3N050TW-4                       |            |
|         |                   | 60A                 | 600A          | Ts3N060TW-2                       |            | Ts3N060TW                         |            | Ts3N060TW-4                       |            |
|         |                   | 70A                 | 700A          | Ts3N070TW-2                       |            | Ts3N070TW                         |            | Ts3N070TW-4                       |            |
|         |                   | 80A                 | 800A          | Ts3N080TW-2                       |            | Ts3N080TW                         |            | Ts3N080TW-4                       |            |
|         |                   | 90A                 | 900A          | Ts3N090TW-2                       |            | Ts3N090TW                         |            | Ts3N090TW-4                       |            |
|         |                   | 100A                | 1000A         | Ts3N100TW-2                       |            | Ts3N100TW                         |            | Ts3N100TW-4                       |            |
|         | IC at 480VAC 25kA | 125A                | 1250A         | Ts3N125TW-2                       |            | Ts3N125TW                         |            | Ts3N125TW-4                       |            |
|         |                   | 150A                | 1500A         | Ts3N150TW-2                       |            | Ts3N150TW                         |            | Ts3N150TW-4                       |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3N175TW-2                       |            | Ts3N175TW                         |            | Ts3N175TW-4                       |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3N200TW-2                       |            | Ts3N200TW                         |            | Ts3N200TW-4                       |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3N225TW-2                       |            | Ts3N225TW                         |            | Ts3N225TW-4                       |            |

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 2-Pole, 480VAC/500VDC Part Number | List Price | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|-----------------------------------|------------|
| Ts3H    | 14kA              | 15A                 | 500A          | Ts3H015TW-2                       |            | Ts3H015TW                         |            |
|         |                   | 20A                 | 500A          | Ts3H020TW-2                       |            | Ts3H020TW                         |            |
|         |                   | 25A                 | 500A          | Ts3H025TW-2                       |            | Ts3H025TW                         |            |
|         |                   | 30A                 | 500A          | Ts3H030TW-2                       |            | Ts3H030TW                         |            |
|         |                   | 35A                 | 500A          | Ts3H035TW-2                       |            | Ts3H035TW                         |            |
|         |                   | 40A                 | 500A          | Ts3H040TW-2                       |            | Ts3H040TW                         |            |
|         |                   | 50A                 | 500A          | Ts3H050TW-2                       |            | Ts3H050TW                         |            |
|         |                   | 60A                 | 600A          | Ts3H060TW-2                       |            | Ts3H060TW                         |            |
|         |                   | 70A                 | 700A          | Ts3H070TW-2                       |            | Ts3H070TW                         |            |
|         |                   | 80A                 | 800A          | Ts3H080TW-2                       |            | Ts3H080TW                         |            |
|         |                   | 90A                 | 900A          | Ts3H090TW-2                       |            | Ts3H090TW                         |            |
|         |                   | 100A                | 1000A         | Ts3H100TW-2                       |            | Ts3H100TW                         |            |
|         | IC at 480VAC 50kA | 125A                | 1250A         | Ts3H125TW-2                       |            | Ts3H125TW                         |            |
|         |                   | 150A                | 1500A         | Ts3H150TW-2                       |            | Ts3H150TW                         |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3H175TW-2                       |            | Ts3H175TW                         |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3H200TW-2                       |            | Ts3H200TW                         |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3H225TW-2                       |            | Ts3H225TW                         |            |

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 2-Pole, 480VAC/500VDC Part Number | List Price | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|-----------------------------------|------------|
| Ts3L    | 25kA              | 15A                 | 500A          | Ts3L015TW-2                       |            | Ts3L015TW                         |            |
|         |                   | 20A                 | 500A          | Ts3L020TW-2                       |            | Ts3L020TW                         |            |
|         |                   | 25A                 | 500A          | Ts3L025TW-2                       |            | Ts3L025TW                         |            |
|         |                   | 30A                 | 500A          | Ts3L030TW-2                       |            | Ts3L030TW                         |            |
|         |                   | 35A                 | 500A          | Ts3L035TW-2                       |            | Ts3L035TW                         |            |
|         |                   | 40A                 | 500A          | Ts3L040TW-2                       |            | Ts3L040TW                         |            |
|         |                   | 50A                 | 500A          | Ts3L050TW-2                       |            | Ts3L050TW                         |            |
|         |                   | 60A                 | 600A          | Ts3L060TW-2                       |            | Ts3L060TW                         |            |
|         |                   | 70A                 | 700A          | Ts3L070TW-2                       |            | Ts3L070TW                         |            |
|         |                   | 80A                 | 800A          | Ts3L080TW-2                       |            | Ts3L080TW                         |            |
|         |                   | 90A                 | 900A          | Ts3L090TW-2                       |            | Ts3L090TW                         |            |
|         |                   | 100A                | 1000A         | Ts3L100TW-2                       |            | Ts3L100TW                         |            |
|         | IC at 480VAC 65kA | 125A                | 1250A         | Ts3L125TW-2                       |            | Ts3L125TW                         |            |
|         |                   | 150A                | 1500A         | Ts3L150TW-2                       |            | Ts3L150TW                         |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3L175TW-2                       |            | Ts3L175TW                         |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3L200TW-2                       |            | Ts3L200TW                         |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3L225TW-2                       |            | Ts3L225TW                         |            |

(1) 480VAC/500VDC maximum

# Ts3

## 150A, 600VAC Δ / 225A, 480VAC Δ, 100% Rated Thermal-Magnetic

Ts3

### Ts3-225A Frame, 100% Rated Thermal-Magnetic Trip Units

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|
| Ts3NQ   | 14kA              | 15A                 | 500A          | Ts3NQ015TW                        |            |
|         |                   | 20A                 | 500A          | Ts3NQ020TW                        |            |
|         |                   | 25A                 | 500A          | Ts3NQ025TW                        |            |
|         |                   | 30A                 | 500A          | Ts3NQ030TW                        |            |
|         |                   | 35A                 | 500A          | Ts3NQ035TW                        |            |
|         |                   | 40A                 | 500A          | Ts3NQ040TW                        |            |
|         |                   | 50A                 | 500A          | Ts3NQ050TW                        |            |
|         |                   | 60A                 | 600A          | Ts3NQ060TW                        |            |
|         |                   | 70A                 | 700A          | Ts3NQ070TW                        |            |
|         |                   | 80A                 | 800A          | Ts3NQ080TW                        |            |
|         |                   | 90A                 | 900A          | Ts3NQ090TW                        |            |
|         |                   | 100A                | 1000A         | Ts3NQ100TW                        |            |
|         | IC at 480VAC 25kA | 125A                | 1250A         | Ts3NQ125TW                        |            |
|         |                   | 150A                | 1500A         | Ts3NQ150TW                        |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3NQ175TW                        |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3NQ200TW                        |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3NQ225TW                        |            |

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|
| Ts3HQ   | 14kA              | 15A                 | 500A          | Ts3HQ015TW                        |            |
|         |                   | 20A                 | 500A          | Ts3HQ020TW                        |            |
|         |                   | 25A                 | 500A          | Ts3HQ025TW                        |            |
|         |                   | 30A                 | 500A          | Ts3HQ030TW                        |            |
|         |                   | 35A                 | 500A          | Ts3HQ035TW                        |            |
|         |                   | 40A                 | 500A          | Ts3HQ040TW                        |            |
|         |                   | 50A                 | 500A          | Ts3HQ050TW                        |            |
|         |                   | 60A                 | 600A          | Ts3HQ060TW                        |            |
|         |                   | 70A                 | 700A          | Ts3HQ070TW                        |            |
|         |                   | 80A                 | 800A          | Ts3HQ080TW                        |            |
|         |                   | 90A                 | 900A          | Ts3HQ090TW                        |            |
|         |                   | 100A                | 1000A         | Ts3HQ100TW                        |            |
|         | IC at 480VAC 50kA | 125A                | 1250A         | Ts3HQ125TW                        |            |
|         |                   | 150A                | 1500A         | Ts3HQ150TW                        |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3HQ175TW                        |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3HQ200TW                        |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3HQ225TW                        |            |

| Breaker | IC at 600VAC      | Rating              | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|-------------------|---------------------|---------------|-----------------------------------|------------|
| Ts3LQ   | 25kA              | 15A                 | 500A          | Ts3LQ015TW                        |            |
|         |                   | 20A                 | 500A          | Ts3LQ020TW                        |            |
|         |                   | 25A                 | 500A          | Ts3LQ025TW                        |            |
|         |                   | 30A                 | 500A          | Ts3LQ030TW                        |            |
|         |                   | 35A                 | 500A          | Ts3LQ035TW                        |            |
|         |                   | 40A                 | 500A          | Ts3LQ040TW                        |            |
|         |                   | 50A                 | 500A          | Ts3LQ050TW                        |            |
|         |                   | 60A                 | 600A          | Ts3LQ060TW                        |            |
|         |                   | 70A                 | 700A          | Ts3LQ070TW                        |            |
|         |                   | 80A                 | 800A          | Ts3LQ080TW                        |            |
|         |                   | 90A                 | 900A          | Ts3LQ090TW                        |            |
|         |                   | 100A                | 1000A         | Ts3LQ100TW                        |            |
|         | IC at 480VAC 65kA | 125A                | 1250A         | Ts3LQ125TW                        |            |
|         |                   | 150A                | 1500A         | Ts3LQ150TW                        |            |
|         |                   | 175A <sup>(1)</sup> | 1750A         | Ts3LQ175TW                        |            |
|         |                   | 200A <sup>(1)</sup> | 2000A         | Ts3LQ200TW                        |            |
|         |                   | 225A <sup>(1)</sup> | 2250A         | Ts3LQ225TW                        |            |

(1) 480VAC/500VDC maximum

Ts3

## Ts3

### 150A, 600VAC Δ / 225A, 450VAC, 480VAC

### MCP/Molded Case Switch

#### Ts3-225A Frame, Motor Control Protection (MCP) Magnetic Only Trip Unit

| Breaker | IC at 480VAC | IC at 600VAC | IC at 500VDC | IC at 600VDC | Trip Unit Type | Rating             | Adjustment Range | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|--------------|--------------|--------------|----------------|--------------------|------------------|-----------------------------------|------------|
| Ts3L    | 25kA         | 10kA         | -            | 50kA         | Mag only       | 3                  | 12-36            | Ts3L003MW                         |            |
|         | 25kA         | 10kA         | -            | 50kA         | Mag only       | 5                  | 20-60            | Ts3L005MW                         |            |
|         | 25kA         | 10kA         | -            | 50kA         | Mag only       | 10                 | 40-120           | Ts3L010MW                         |            |
|         | 25kA         | 10kA         | 65kA         | 50kA         | Mag only       | 25                 | 100-300          | Ts3L025MW                         |            |
|         | 85kA         | 25kA         | 65kA         | 50kA         | Mag only       | 50                 | 200-600          | Ts3L050MW                         |            |
|         | 85kA         | 25kA         | 65kA         | 50kA         | Mag only       | 100                | 400-1200         | Ts3L100MW                         |            |
|         | 85kA         | 25kA         | 65kA         | 50kA         | Mag only       | 125                | 500-1500         | Ts3L125MW                         |            |
|         | 85kA         | 25kA         | 50kA         | 50kA         | Mag only       | 150                | 600-1500         | Ts3L150MW                         |            |
|         | 65kA         | -            | 50kA         | -            | Mag only       | 175 <sup>(1)</sup> | 700-2100         | Ts3L175MW                         |            |
|         | 65kA         | -            | 50kA         | -            | Mag only       | 200 <sup>(1)</sup> | 800-2400         | Ts3L200MW                         |            |

#### Ts3-225A Frame, Molded Case Switch

| Type | Voltage (max.) | Magnetic Trip | Amps               | 3-Pole 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|------|----------------|---------------|--------------------|----------------------------------|------------|-----------------------------------|------------|
| Ts3H | 600VAC/600VDC  | 1500          | 150                | Ts3H150DW                        |            | Ts3H150DW-4                       |            |
|      | 480VAC/500VDC  | 2250          | 225 <sup>(1)</sup> | Ts3H225DW                        |            | Ts3H225DW-4                       |            |

(1) 480VAC/500VDC Maximum

# T4

## 250A, 600VAC Δ

### Electronic and Thermal-Magnetic

T4



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 C22.2 No. 5 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 LSIg
- 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 <sup>(3)</sup>

The T4 is available as a 2, 3 and 4 pole breaker. The 2 and 3 pole versions have the same dimensions.

#### Reverse Feeding

All versions of the T4 family are suitable for reverse feed application.

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

| Voltage               | Continuous Rating | N  | S   | H   | L   | V   |
|-----------------------|-------------------|----|-----|-----|-----|-----|
| 240VAC                | 20 - 250A         | 65 | 100 | 150 | 200 | 200 |
| 480VAC                | 20 - 250A         | 25 | 35  | 65  | 100 | 150 |
| 600VAC                | 20 - 250A         | 18 | 25  | 35  | 65  | 100 |
| 500VDC <sup>(1)</sup> | 20 - 250A         | 25 | 35  | 50  | 65  | 100 |
| 600VDC <sup>(2)</sup> | 20 - 250A         | 16 | 25  | 35  | 50  | 65  |

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

| Voltage | Continuous Rating | N  | S  | H   | L   | V   |
|---------|-------------------|----|----|-----|-----|-----|
| 230VAC  | 20 - 320A         | 70 | 85 | 100 | 200 | 200 |
| 415VAC  | 20 - 320A         | 36 | 50 | 70  | 120 | 200 |
| 440VAC  | 20 - 320A         | 30 | 40 | 65  | 100 | 180 |
| 500VAC  | 20 - 320A         | 25 | 30 | 50  | 85  | 150 |
| 690VAC  | 20 - 320A         | 20 | 25 | 40  | 70  | 80  |
| 750VDC  | 20 - 320A         | 18 | 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

# T4 250A, 600VAC Δ Electronic (AC Only)

## T4-100A Frame, Electronic Trip Unit (AC Only) 40-100A Adjustable Range

| Breaker                    | IC at 600VAC | Trip Unit                             | 2-Pole, 600VAC Part Number             | List Price | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|----------------------------|--------------|---------------------------------------|----------------------------------------|------------|----------------------------------|------------|----------------------------------------|------------|
| T4N                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4N100BW-2<br>T4N100CW-2<br>T4N100EW-2 |            | T4N100BW<br>T4N100CW<br>T4N100EW |            | T4N100BW-4<br>T4N100CW-4<br>T4N100EW-4 |            |
| T4S                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4S100BW<br>T4S100CW<br>T4S100EW |            |                                        |            |
| T4H<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4H100BW<br>T4H100CW<br>T4H100EW |            | T4H100BW-4<br>T4H100CW-4<br>T4H100EW-4 |            |
| T4L                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4L100BW<br>T4L100CW<br>T4L100EW |            |                                        |            |
| T4V<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4V100BW<br>T4V100CW<br>T4V100EW |            |                                        |            |

## T4-150A Frame, Electronic Trip Unit (AC Only) 60-150A Adjustable Range

| Breaker                    | IC at 600VAC | Trip Unit                             | 2-Pole, 600VAC Part Number             | List Price | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|----------------------------|--------------|---------------------------------------|----------------------------------------|------------|----------------------------------|------------|----------------------------------------|------------|
| T4N                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4N150BW-2<br>T4N150CW-2<br>T4N150EW-2 |            | T4N150BW<br>T4N150CW<br>T4N150EW |            | T4N150BW-4<br>T4N150CW-4<br>T4N150EW-4 |            |
| T4S                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4S150BW<br>T4S150CW<br>T4S150EW |            |                                        |            |
| T4H<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4H150BW<br>T4H150CW<br>T4H150EW |            | T4H150BW-4<br>T4H150CW-4<br>T4H150EW-4 |            |
| T4L                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4L150BW<br>T4L150CW<br>T4L150EW |            |                                        |            |
| T4V<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4V150BW<br>T4V150CW<br>T4V150EW |            |                                        |            |
| T4V<br>UL current limiting | 100          | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4V150BW<br>T4V150CW<br>T4V150EW |            |                                        |            |

## T4-250A Frame, Electronic Trip Unit (AC Only) 100-250A Adjustable Range

| Breaker                    | IC at 600VAC | Trip Unit                             | 2-Pole, 600VAC Part Number             | List Price | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|----------------------------|--------------|---------------------------------------|----------------------------------------|------------|----------------------------------|------------|----------------------------------------|------------|
| T4N                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4N250BW-2<br>T4N250CW-2<br>T4N250EW-2 |            | T4N250BW<br>T4N250CW<br>T4N250EW |            | T4N250BW-4<br>T4N250CW-4<br>T4N250EW-4 |            |
| T4S                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4S250BW<br>T4S250CW<br>T4S250EW |            |                                        |            |
| T4H<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4H250BW<br>T4H250CW<br>T4H250EW |            | T4H250BW-4<br>T4H250CW-4<br>T4H250EW-4 |            |
| T4L                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4L250BW<br>T4L250CW<br>T4L250EW |            |                                        |            |
| T4V<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T4V250BW<br>T4V250CW<br>T4V250EW |            |                                        |            |



# **T4** **250A, 600VAC Δ** **Electronic 100% Rated (AC Only)**

T4

| Breaker                     | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number          | List Price |
|-----------------------------|--------------|---------------------------------------|-------------------------------------|------------|
| T4NQ                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4NQ100BW<br>T4NQ100CW<br>T4NQ100EW |            |
| T4SQ                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4SQ100BW<br>T4SQ100CW<br>T4SQ100EW |            |
| T4HQ<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4HQ100BW<br>T4HQ100CW<br>T4HQ100EW |            |
| T4LQ                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4LQ100BW<br>T4LQ100CW<br>T4LQ100EW |            |
| T4VQ<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4VQ100BW<br>T4VQ100CW<br>T4VQ100EW |            |

## **T4-150A Frame, 100% Rated Electronic Trip Unit (AC Only) 60-150A Adjustable Range**

| Breaker                     | IC at 600VAC | Trip Unit                             | 3-Pole, 600V Part Number            | List Price |
|-----------------------------|--------------|---------------------------------------|-------------------------------------|------------|
| T4NQ                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4NQ150BW<br>T4NQ150CW<br>T4NQ150EW |            |
| T4SQ                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4SQ150BW<br>T4SQ150CW<br>T4SQ150EW |            |
| T4HQ<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4HQ150BW<br>T4HQ150CW<br>T4HQ150EW |            |
| T4LQ                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4LQ150BW<br>T4LQ150CW<br>T4LQ150EW |            |
| T4VQ<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4VQ150BW<br>T4VQ150CW<br>T4VQ150EW |            |

## **T4-250A Frame, 100% Rated Electronic Trip Unit (AC Only) 100-250A Adjustable Range**

| Breaker                     | IC at 600VAC | Trip Unit                             | 3-Pole, 600V Part Number            | List Price |
|-----------------------------|--------------|---------------------------------------|-------------------------------------|------------|
| T4NQ                        | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4NQ250BW<br>T4NQ250CW<br>T4NQ250EW |            |
| T4SQ                        | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4SQ250BW<br>T4SQ250CW<br>T4SQ250EW |            |
| T4HQ<br>UL Current Limiting | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4HQ250BW<br>T4HQ250CW<br>T4HQ250EW |            |
| T4LQ                        | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4LQ250BW<br>T4LQ250CW<br>T4LQ250EW |            |
| T4VQ<br>UL Current Limiting | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T4VQ250BW<br>T4VQ250CW<br>T4VQ250EW |            |

T4

# T4 250A, 600VAC Δ Thermal-Magnetic Trip Units

## T4-250A Frame, Thermal-Magnetic Trip Unit

| Breaker                    | IC at 600VAC | Rating          | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|----------------------------|--------------|-----------------|---------------|-----------------------------------|------------|-----------------------------------|------------|
| T4N                        | 18kA         | 20A             | 500           | T4N020TW                          |            | T4N020TW-4                        |            |
|                            |              | 30A (21-30A)    | 500           | T4N030TW                          |            | T4N030TW-4                        |            |
|                            |              | 40A (28-40A)    | 500           | T4N040TW                          |            | T4N040TW-4                        |            |
|                            |              | 50A (35-50A)    | 500           | T4N050TW                          |            | T4N050TW-4                        |            |
|                            |              | 80A (56-80A)    | 400-800       | T4N080TW                          |            | T4N080TW-4                        |            |
|                            |              | 100A (70-100A)  | 500-1000      | T4N100TW                          |            | T4N100TW-4                        |            |
|                            |              | 125A (88-125A)  | 625-1250      | T4N125TW                          |            | T4N125TW-4                        |            |
|                            |              | 150A (105-150A) | 750-1500      | T4N150TW                          |            | T4N150TW-4                        |            |
|                            |              | 200A (140-200A) | 1000-2000     | T4N200TW                          |            | T4N200TW-4                        |            |
|                            |              | 250A (175-250A) | 1250-2500     | T4N250TW                          |            | T4N250TW-4                        |            |
| T4S                        | 25kA         | 20A             | 500           | T4S020TW                          |            |                                   |            |
|                            |              | 30A (21-30A)    | 500           | T4S030TW                          |            |                                   |            |
|                            |              | 40A (28-40A)    | 500           | T4S040TW                          |            |                                   |            |
|                            |              | 50A (35-50A)    | 500           | T4S050TW                          |            |                                   |            |
|                            |              | 80A (56-80A)    | 400-800       | T4S080TW                          |            |                                   |            |
|                            |              | 100A (70-100A)  | 500-1000      | T4S100TW                          |            |                                   |            |
|                            |              | 125A (88-125A)  | 625-1250      | T4S125TW                          |            |                                   |            |
|                            |              | 150A (105-150A) | 750-1500      | T4S150TW                          |            |                                   |            |
|                            |              | 200A (140-200A) | 1000-2000     | T4S200TW                          |            |                                   |            |
|                            |              | 250A (175-250A) | 1250-2500     | T4S250TW                          |            |                                   |            |
| T4H<br>UL Current Limiting | 35kA         | 20A             | 500           | T4H020TW                          |            | T4H020TW-4                        |            |
|                            |              | 30A (21-30A)    | 500           | T4H030TW                          |            | T4H030TW-4                        |            |
|                            |              | 40A (28-40A)    | 500           | T4H040TW                          |            | T4H040TW-4                        |            |
|                            |              | 50A (35-50A)    | 500           | T4H050TW                          |            | T4H050TW-4                        |            |
|                            |              | 80A (56-80A)    | 400-800       | T4H080TW                          |            | T4H080TW-4                        |            |
|                            |              | 100A (70-100A)  | 500-1000      | T4H100TW                          |            | T4H100TW-4                        |            |
|                            |              | 125A (88-125A)  | 625-1250      | T4H125TW                          |            | T4H125TW-4                        |            |
|                            |              | 150A (105-150A) | 750-1500      | T4H150TW                          |            | T4H150TW-4                        |            |
|                            |              | 200A (140-200A) | 1000-2000     | T4H200TW                          |            | T4H200TW-4                        |            |
|                            |              | 250A (175-250A) | 1250-2500     | T4H250TW                          |            | T4H250TW-4                        |            |
| T4L                        | 65kA         | 20A             | 500           | T4L020TW                          |            |                                   |            |
|                            |              | 30A (21-30A)    | 500           | T4L030TW                          |            |                                   |            |
|                            |              | 40A (28-40A)    | 500           | T4L040TW                          |            |                                   |            |
|                            |              | 50A (35-50A)    | 500           | T4L050TW                          |            |                                   |            |
|                            |              | 80A (56-80A)    | 400-800       | T4L080TW                          |            |                                   |            |
|                            |              | 100A (70-100A)  | 500-1000      | T4L100TW                          |            |                                   |            |
|                            |              | 125A (88-125A)  | 625-1250      | T4L125TW                          |            |                                   |            |
|                            |              | 150A (105-150A) | 750-1500      | T4L150TW                          |            |                                   |            |
|                            |              | 200A (140-200A) | 1000-2000     | T4L200TW                          |            |                                   |            |
|                            |              | 250A (175-250A) | 1250-2500     | T4L250TW                          |            |                                   |            |
| T4V<br>UL Current Limiting | 100kA        | 20A             | 500           | T4V020TW                          |            |                                   |            |
|                            |              | 30A (21-30A)    | 500           | T4V030TW                          |            |                                   |            |
|                            |              | 40A (28-40A)    | 500           | T4V040TW                          |            |                                   |            |
|                            |              | 50A (35-50A)    | 500           | T4V050TW                          |            |                                   |            |
|                            |              | 80A (56-80A)    | 400-800       | T4V080TW                          |            |                                   |            |
|                            |              | 100A (70-100A)  | 500-1000      | T4V100TW                          |            |                                   |            |
|                            |              | 125A (88-125A)  | 625-1250      | T4V125TW                          |            |                                   |            |
|                            |              | 150A (105-150A) | 750-1500      | T4V150TW                          |            |                                   |            |
|                            |              | 200A (140-200A) | 1000-2000     | T4V200TW                          |            |                                   |            |
|                            |              | 250A (175-250A) | 1250-2500     | T4V250TW                          |            |                                   |            |

| Breaker | IC at 600VAC | Rating          | Magnetic Trip | 2-Pole, 600VAC/500VDC Part Number | List Price |
|---------|--------------|-----------------|---------------|-----------------------------------|------------|
| T4N     | 18kA         | 30A (21-30A)    | 500           | T4N030TW-2                        |            |
|         |              | 40A (28-40A)    | 500           | T4N040TW-2                        |            |
|         |              | 50A (35-50A)    | 500           | T4N050TW-2                        |            |
|         |              | 80A (56-80A)    | 400-800       | T4N080TW-2                        |            |
|         |              | 100A (70-100A)  | 500-1000      | T4N100TW-2                        |            |
|         |              | 125A (88-125A)  | 625-1250      | T4N125TW-2                        |            |
|         |              | 150A (100-150A) | 750-1500      | T4N150TW-2                        |            |
|         |              | 200A (140-200A) | 1000-2000     | T4N200TW-2                        |            |
|         |              | 250A (175-250A) | 1250-2500     | T4N250TW-2                        |            |

# T4 250A, 600VAC 100% Rated Thermal-Magnetic Trip Units

T4

## T4-250A Frame, 100% Rated Thermal-Magnetic Trip Unit

| Breaker | IC at 600VAC | Rating          | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|-----------------|---------------|-----------------------------------|------------|
| T4NQ    | 18kA         | 20A             | 500           | T4NQ020TW                         |            |
|         |              | 30A (21-30A)    | 500           | T4NQ030TW                         |            |
|         |              | 40A (28-40A)    | 500           | T4NQ040TW                         |            |
|         |              | 50A (35-50A)    | 500           | T4NQ050TW                         |            |
|         |              | 80A (56-80A)    | 400-800       | T4NQ080TW                         |            |
|         |              | 100A (70-100A)  | 500-1000      | T4NQ100TW                         |            |
|         |              | 125A (88-125A)  | 625-1250      | T4NQ125TW                         |            |
|         |              | 150A (105-150A) | 750-1500      | T4NQ150TW                         |            |
|         |              | 200A (140-200A) | 1000-2000     | T4NQ200TW                         |            |
|         |              | 250A (175-250A) | 1250-2500     | T4NQ250TW                         |            |
| T4SQ    | 25kA         | 20A             | 500           | T4SQ020TW                         |            |
|         |              | 30A (21-30A)    | 500           | T4SQ030TW                         |            |
|         |              | 40A (28-40A)    | 500           | T4SQ040TW                         |            |
|         |              | 50A (35-50A)    | 500           | T4SQ050TW                         |            |
|         |              | 80A (56-80A)    | 400-800       | T4SQ080TW                         |            |
|         |              | 100A (70-100A)  | 500-1000      | T4SQ100TW                         |            |
|         |              | 125A (88-125A)  | 625-1250      | T4SQ125TW                         |            |
|         |              | 150A (105-150A) | 750-1500      | T4SQ150TW                         |            |
|         |              | 200A (140-200A) | 1000-2000     | T4SQ200TW                         |            |
|         |              | 250A (175-250A) | 1250-2500     | T4SQ250TW                         |            |
| T4HQ    | 35kA         | 20A             | 500           | T4HQ020TW                         |            |
|         |              | 30A (21-30A)    | 500           | T4HQ030TW                         |            |
|         |              | 40A (28-40A)    | 500           | T4HQ040TW                         |            |
|         |              | 50A (35-50A)    | 500           | T4HQ050TW                         |            |
|         |              | 80A (56-80A)    | 400-800       | T4HQ080TW                         |            |
|         |              | 100A (70-100A)  | 500-1000      | T4HQ100TW                         |            |
|         |              | 125A (88-125A)  | 625-1250      | T4HQ125TW                         |            |
|         |              | 150A (105-150A) | 750-1500      | T4HQ150TW                         |            |
|         |              | 200A (140-200A) | 1000-2000     | T4HQ200TW                         |            |
|         |              | 250A (175-250A) | 1250-2500     | T4HQ250TW                         |            |
| T4LQ    | 65kA         | 20A             | 500           | T4LQ020TW                         |            |
|         |              | 30A (21-30A)    | 500           | T4LQ030TW                         |            |
|         |              | 40A (28-40A)    | 500           | T4LQ040TW                         |            |
|         |              | 50A (35-50A)    | 500           | T4LQ050TW                         |            |
|         |              | 80A (56-80A)    | 400-800       | T4LQ080TW                         |            |
|         |              | 100A (70-100A)  | 500-1000      | T4LQ100TW                         |            |
|         |              | 125A (88-125A)  | 625-1250      | T4LQ125TW                         |            |
|         |              | 150A (105-150A) | 750-1500      | T4LQ150TW                         |            |
|         |              | 200A (140-200A) | 1000-2000     | T4LQ200TW                         |            |
|         |              | 250A (175-250A) | 1250-2500     | T4LQ250TW                         |            |
| T4VQ    | 100kA        | 20A             | 500           | T4VQ020TW                         |            |
|         |              | 30A (21-30A)    | 500           | T4VQ030TW                         |            |
|         |              | 40A (28-40A)    | 500           | T4VQ040TW                         |            |
|         |              | 50A (35-50A)    | 500           | T4VQ050TW                         |            |
|         |              | 80A (56-80A)    | 400-800       | T4VQ080TW                         |            |
|         |              | 100A (70-100A)  | 500-1000      | T4VQ100TW                         |            |
|         |              | 125A (88-125A)  | 625-1250      | T4VQ125TW                         |            |
|         |              | 150A (105-150A) | 750-1500      | T4VQ150TW                         |            |
|         |              | 200A (140-200A) | 1000-2000     | T4VQ200TW                         |            |
|         |              | 250A (175-250A) | 1250-2500     | T4VQ250TW                         |            |

T4

# T4 250A, 600VAC Δ MCP (Instantaneous Only), Molded Case Switch

## T4-250A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit Type | Rating               | Adjustment Range                 | 3-Pole, 600VAC Part Number          | List Price |
|---------|--------------|----------------|----------------------|----------------------------------|-------------------------------------|------------|
| T4N     | 18kA         | PR221 DS-I     | 100A<br>150A<br>250A | 100-1000<br>150-1500<br>250-2500 | T4N100E5W<br>T4N150E5W<br>T4N250E5W |            |
| T4S     | 25kA         | PR221 DS-I     | 100A<br>150A<br>250A | 100-1000<br>150-1500<br>250-2500 | T4S100E5W<br>T4S150E5W<br>T4S250E5W |            |
| T4H     | 35kA         | PR221 DS-I     | 100A<br>150A<br>250A | 100-1000<br>150-1500<br>250-2500 | T4H100E5W<br>T4H150E5W<br>T4H250E5W |            |
| T4L     | 65kA         | PR221 DS-I     | 100A<br>150A<br>250A | 100-1000<br>150-1500<br>250-2500 | T4L100E5W<br>T4L150E5W<br>T4L250E5W |            |

## T4-250A Frame, Molded Case Switch

| Type  | Amps | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|-------|------|---------------|-----------------------------------|------------|-----------------------------------|------------|
| T4N-D | 250  | 3000          | T4N250DW                          |            | T4H250DW-4                        |            |
| T4S-D | 250  | 3000          | T4S250DW                          |            |                                   |            |
| T4H-D | 250  | 3000          | T4H250DW                          |            |                                   |            |
| T4L-D | 250  | 3000          | T4L250DW                          |            |                                   |            |
| T4V-D | 250  | 3000          | T4V250DW                          |            |                                   |            |

# T5

## 400A / 600A, 600VAC Δ

### Electronic and Thermal-Magnetic

T5



T5

**Dimensions** 3P Fixed Version 8.07H x 5.51W x 4.07D  
**Weight** 8.55 (lbs)

#### General

The T5 breaker is a 400/600 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit. <sup>(3)</sup>

#### Standards

The UL489/CSA C22.2 No. 5 version of T5 also carries an IEC-60947-2 rating.

#### Versions

To meet all application requirements, the T5 is available in the following versions:

- T = Thermal-magnetic
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSIG
- 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
- L = Extra high
- V = Very high

#### Number of Poles <sup>(4)</sup>

The T5 is available as a 2, 3 and 4 pole breaker. The 2 and 3 pole versions have the same dimensions.

#### Reverse Feeding

All versions of the T5 family are suitable for reverse feed application.

#### 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 <sup>(1)</sup> | 25 | 35  | 50  | 65  | 100 |
| 600VDC <sup>(2)</sup> | 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 |
| 440VAC                | 30 | 40 | 65  | 100 | 180 |
| 500VAC                | 25 | 30 | 50  | 85  | 150 |
| 690VAC                | 20 | 25 | 40  | 70  | 80  |
| 750VDC <sup>(2)</sup> | 16 | 25 | 36  | 50  | 70  |

(1) 2 poles in series.

(2) 3 poles in series.

(3) T5 600A not available with thermal magnetic trip unit.

(4) 2 pole available in N version only. 4 pole available in N and H version only.

T5

# T5 400A / 600A Electronic (AC Only)

## T5-300A Frame, Electronic Trip Unit (AC Only) 120-300A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 2-Pole, 600VAC Part Number             | List Price | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|---------|--------------|---------------------------------------|----------------------------------------|------------|----------------------------------|------------|----------------------------------------|------------|
| T5N     | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5N300BW-2<br>T5N300CW-2<br>T5N300EW-2 |            | T5N300BW<br>T5N300CW<br>T5N300EW |            | T5N300BW-4<br>T5N300CW-4<br>T5N300EW-4 |            |
| T5S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5S300BW<br>T5S300CW<br>T5S300EW |            |                                        |            |
| T5H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5H300BW<br>T5H300CW<br>T5H300EW |            | T5H300BW-4<br>T5H300CW-4<br>T5H300EW-4 |            |
| T5L     | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5L300BW<br>T5L300CW<br>T5L300EW |            |                                        |            |
| T5V     | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5V300BW<br>T5V300CW<br>T5V300EW |            |                                        |            |

## T5-400A Frame, Electronic Trip Unit (AC Only) 160-400A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 2-Pole, 600VAC Part Number             | List Price | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|---------|--------------|---------------------------------------|----------------------------------------|------------|----------------------------------|------------|----------------------------------------|------------|
| T5N     | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5N400BW-2<br>T5N400CW-2<br>T5N400EW-2 |            | T5N400BW<br>T5N400CW<br>T5N400EW |            | T5N400BW-4<br>T5N400CW-4<br>T5N400EW-4 |            |
| T5S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5S400BW<br>T5S400CW<br>T5S400EW |            |                                        |            |
| T5H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5H400BW<br>T5H400CW<br>T5H400EW |            | T5H400BW-4<br>T5H400CW-4<br>T5H400EW-4 |            |
| T5L     | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5L400BW<br>T5L400CW<br>T5L400EW |            |                                        |            |
| T5V     | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG |                                        |            | T5V400BW<br>T5V400CW<br>T5V400EW |            |                                        |            |

## T5-600A Frame, Electronic Trip Unit (AC Only) 240-600A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number       | List Price |
|---------|--------------|---------------------------------------|----------------------------------|------------|
| T5N     | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5N600BW<br>T5N600CW<br>T5N600EW |            |
| T5S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5S600BW<br>T5S600CW<br>T5S600EW |            |
| T5H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5H600BW<br>T5H600CW<br>T5H600EW |            |
| T5L     | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5L600BW<br>T5L600CW<br>T5L600EW |            |
| T5V     | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5V600BW<br>T5V600CW<br>T5V600EW |            |

# T5 400A 100% Rated Electronic (AC only) <sup>(1)</sup>

T5

## T5-300A Frame, 100% Rated Electronic Trip Units (AC Only) 120-300A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number          | List Price |
|---------|--------------|---------------------------------------|-------------------------------------|------------|
| T5N     | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5NQ300BW<br>T5NQ300CW<br>T5NQ300EW |            |
| T5S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5SQ300BW<br>T5SQ300CW<br>T5SQ300EW |            |
| T5H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5HQ300BW<br>T5HQ300CW<br>T5HQ300EW |            |
| T5L     | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5LQ300BW<br>T5LQ300CW<br>T5LQ300EW |            |
| T5V     | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5VQ300BW<br>T5VQ300CW<br>T5VQ300EW |            |

## T5-400A Frame, 100% Rated Electronic Trip Units (AC Only) 160-400A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number          | List Price |
|---------|--------------|---------------------------------------|-------------------------------------|------------|
| T5N     | 18kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5NQ400BW<br>T5NQ400CW<br>T5NQ400EW |            |
| T5S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5SQ400BW<br>T5SQ400CW<br>T5SQ400EW |            |
| T5H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5HQ400BW<br>T5HQ400CW<br>T5HQ400EW |            |
| T5L     | 65kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5LQ400BW<br>T5LQ400CW<br>T5LQ400EW |            |
| T5V     | 100kA        | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T5VQ400BW<br>T5VQ400CW<br>T5VQ400EW |            |

(1) T5 600A not available as 100% rated

T5

# T5 400A, 600VAC Δ Thermal-Magnetic <sup>(1)</sup>

## T5-300/400A Frame, Thermal-Magnetic Trip Unit

| Breaker | IC at 600VAC | Rating       | Magnetic Trip          | 2-Pole, 600VAC/500VDC Part Number | List Price | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|--------------|------------------------|-----------------------------------|------------|-----------------------------------|------------|-----------------------------------|------------|
| T5N     | 18kA         | 300A<br>400A | 1500-3000<br>2000-4000 | T5N300TW-2<br>T5N400TW-2          |            | T5N300TW<br>T5N400TW              |            | T5N300TW-4<br>T5N400TW-4          |            |
| T5S     | 25kA         | 300A<br>400A | 1500-3000<br>2000-4000 |                                   |            | T5S300TW<br>T5S400TW              |            | T5S300TW-4<br>T5S400TW-4          |            |
| T5H     | 35kA         | 300A<br>400A | 1500-3000<br>2000-4000 |                                   |            | T5H300TW<br>T5H400TW              |            | T5H300TW-4<br>T5H400TW-4          |            |
| T5L     | 65kA         | 300A<br>400A | 1500-3000<br>2000-4000 |                                   |            | T5L300TW<br>T5L400TW              |            | T5L300TW-4<br>T5L400TW-4          |            |
| T5V     | 100kA        | 300A<br>400A | 1500-3000<br>2000-4000 |                                   |            | T5V300TW<br>T5V400TW              |            | T5V300TW-4<br>T5V400TW-4          |            |

## T5-300/400A Frames, 100% Rated, Thermal-Magnetic Trip Unit

| Breaker | IC at 600VAC | Rating       | Magnetic Trip          | 3-Pole, 600VAC/500VDC Part Number | List Price |
|---------|--------------|--------------|------------------------|-----------------------------------|------------|
| T5N     | 18kA         | 300A<br>400A | 1500-3000<br>2000-4000 | T5NQ300TW<br>T5NQ400TW            |            |
| T5S     | 25kA         | 300A<br>400A | 1500-3000<br>2000-4000 | T5SQ300TW<br>T5SQ400TW            |            |
| T5H     | 35kA         | 300A<br>400A | 1500-3000<br>2000-4000 | T5HQ300TW<br>T5HQ400TW            |            |
| T5L     | 65kA         | 300A<br>400A | 1500-3000<br>2000-4000 | T5LQ300TW<br>T5LQ400TW            |            |
| T5V     | 100kA        | 300A<br>400A | 1500-3000<br>2000-4000 | T5VQ300TW<br>T5VQ400TW            |            |

(1) T5 600A not available with thermal-magnetic trip unit.



# T5

## 400A / 600A

### MCP (Instantaneous Only), Molded Case Switch

T5

#### T5-300/400A Frame, Motor Control Protection (MCP) Electronic Trip Unit (Ac Only)

| Breaker | IC at 600VAC | Trip Unit | Rating       | Adjustment Range     | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|-----------|--------------|----------------------|-----------------------------------|------------|
| T5N     | 18kA         | PR221DS-I | 300A<br>400A | 300-3000<br>400-4000 | T5N300E5W<br>T5N400E5W            |            |
| T5S     | 25kA         | PR221DS-I | 300A<br>400A | 300-3000<br>400-4000 | T5S300E5W<br>T5S400E5W            |            |
| T5H     | 55kA         | PR221DS-I | 300A<br>400A | 300-3000<br>400-4000 | T5H300E5W<br>T5H400E5W            |            |
| T5L     | 65kA         | PR221DS-I | 300A<br>400A | 300-3000<br>400-4000 | T5L300E5W<br>T5L400E5W            |            |

#### T5-600A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Rating | Adjustment Range | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|-----------|--------|------------------|-----------------------------------|------------|
| T5N     | 18kA         | PR221DS-I | 600A   | 600-6000         | T5N600E5W                         |            |
| T5S     | 25kA         | PR221DS-I | 600A   | 600-6000         | T5S600E5W                         |            |
| T5H     | 55kA         | PR221DS-I | 600A   | 600-6000         | T5H600E5W                         |            |
| T5L     | 65kA         | PR221DS-I | 600A   | 600-6000         | T5L600E5W                         |            |

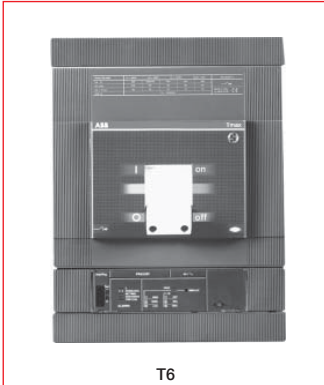
#### T5-400/600A Frame, Molded Case Switch

| Type  | IC at 600VAC | Amps | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|-------|--------------|------|---------------|-----------------------------------|------------|-----------------------------------|------------|
| T5N-D | 18kA         | 400  | 5000          | T5N400DW                          |            | T5H400DW-4                        |            |
| T5S-D | 25kA         | 400  | 5000          | T5S400DW                          |            |                                   |            |
| T5H-D | 35kA         | 400  | 5000          | T5H400DW                          |            |                                   |            |
| T5L-D | 65kA         | 400  | 5000          | T5L400DW                          |            |                                   |            |
| T5V-D | 100kA        | 400  | 5000          | T5V400DW                          |            |                                   |            |
| T5N-D | 18kA         | 600  | 6000          | T5N600DW                          |            |                                   |            |
| T5S-D | 25kA         | 600  | 6000          | T5S600DW                          |            |                                   |            |
| T5H-D | 35kA         | 600  | 6000          | T5H600DW                          |            |                                   |            |
| T5L-D | 65kA         | 600  | 6000          | T5L600DW                          |            |                                   |            |
| T5V-D | 100kA        | 600  | 6000          | T5V600DW                          |            |                                   |            |

# T6

## 600A / 800A, 600VAC Δ

### Electronic & Thermal-Magnetic



T6

**Dimensions** 3P Fixed Version 10.55H x 8.26W x 4.07D  
**Weight** 20.9 (lbs)

#### General

The T6 breaker is an 800 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit. The T6 is available as a 600 or 800A frame.

#### Standards

The UL489/CSA C22.2 No. 5 version of T6 also carries an IEC-60947-2 rating.

#### Versions

To meet all application requirements, the T6 is available in the following versions:

- T = Thermal-magnetic, fixed
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSIG
- 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
- L = Extra high

#### Number of Poles <sup>(3)</sup>

The T6 is available as a 3 and 4 pole breaker.

4 poles only available in N or H version.

#### Reverse Feeding

All versions of the T6 family are suitable for reverse feed application.

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

| Voltage               | N  | S   | H   | L   |
|-----------------------|----|-----|-----|-----|
| 240VAC                | 65 | 100 | 200 | 200 |
| 480VAC                | 35 | 50  | 65  | 100 |
| 600VAC                | 20 | 25  | 35  | 42  |
| 500VDC <sup>(1)</sup> | 35 | 35  | 50  | 65  |
| 600VDC <sup>(2)</sup> | 20 | 20  | 35  | 50  |

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

| Voltage               | N  | S  | H   | L   |
|-----------------------|----|----|-----|-----|
| 230VAC                | 70 | 85 | 100 | 200 |
| 415VAC                | 36 | 50 | 70  | 100 |
| 600VAC                | 20 | 22 | 25  | 30  |
| 750VDC <sup>(2)</sup> | 16 | 20 | 36  | 50  |

<sup>(1)</sup> 2 poles in series.

<sup>(2)</sup> 3 poles in series.

<sup>(3)</sup> 4 pole available N and H version only.

# T6

## 600A / 800A, 600VAC Δ

### Electronic (AC Only)

T6

#### T6-600A Frame, Electronic Trip Unit (AC Only) 240-600A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|---------|--------------|---------------------------------------|----------------------------------|------------|----------------------------------------|------------|
| T6N     | 20kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6N600BW<br>T6N600CW<br>T6N600EW |            | T6N600BW-4<br>T6N600CW-4<br>T6N600EW-4 |            |
| T6S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6S600BW<br>T6S600CW<br>T6S600EW |            |                                        |            |
| T6H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6H600BW<br>T6H600CW<br>T6H600EW |            | T6H600BW-4<br>T6H600CW-4<br>T6H600EW-4 |            |
| T6L     | 42kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6L600BW<br>T6L600CW<br>T6L600EW |            |                                        |            |

#### T6-800A Frame, Electronic Trip Unit (AC Only) 320-800A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number       | List Price | 4-Pole, 600VAC Part Number             | List Price |
|---------|--------------|---------------------------------------|----------------------------------|------------|----------------------------------------|------------|
| T6N     | 20kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6N800BW<br>T6N800CW<br>T6N800EW |            | T6N800BW-4<br>T6N800CW-4<br>T6N800EW-4 |            |
| T6S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6S800BW<br>T6S800CW<br>T6S800EW |            |                                        |            |
| T6H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6H800BW<br>T6H800CW<br>T6H800EW |            | T6H800BW-4<br>T6H800CW-4<br>T6H800EW-4 |            |
| T6L     | 42kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6L800BW<br>T6L800CW<br>T6L800EW |            |                                        |            |

#### T6-600A Frame, 100% Rated Electronic Trip Unit (AC Only) 240-600A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number          | List Price |
|---------|--------------|---------------------------------------|-------------------------------------|------------|
| T6N     | 20kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6NQ600BW<br>T6NQ600CW<br>T6NQ600EW |            |
| T6S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6SQ600BW<br>T6SQ600CW<br>T6SQ600EW |            |
| T6H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6HQ600BW<br>T6HQ600CW<br>T6HQ600EW |            |
| T6L     | 42kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6LQ600BW<br>T6LQ600CW<br>T6LQ600EW |            |

#### T6-800A Frame, 100% Rated Electronic Trip Unit (AC Only) 320-800A Adjustable Range

| Breaker | IC at 600VAC | Trip Unit                             | 3-Pole, 600VAC Part Number          | List Price |
|---------|--------------|---------------------------------------|-------------------------------------|------------|
| T6N     | 20kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6NQ800BW<br>T6NQ800CW<br>T6NQ800EW |            |
| T6S     | 25kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6SQ800BW<br>T6SQ800CW<br>T6SQ800EW |            |
| T6H     | 35kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6HQ800BW<br>T6HQ800CW<br>T6HQ800EW |            |
| T6L     | 42kA         | PR221 LS/I<br>PR222 LSI<br>PR222 LSIG | T6LQ800BW<br>T6LQ800CW<br>T6LQ800EW |            |

# T6

## T6 600A / 800A, 600VAC Δ Electronic & Thermal-Magnetic

### T6-600/800A Frame, Thermal-Magnetic Trip Unit

| Breaker | IC at 600VAC | Rating       | Magnetic Trip                | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|--------------|------------------------------|-----------------------------------|------------|-----------------------------------|------------|
| T6N     | 20kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6N600TW<br>T6N800TW              |            | T6N600TW-4<br>T6N800TW-4          |            |
| T6S     | 25kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6S600TW<br>T6S800TW              |            |                                   |            |
| T6H     | 35kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6H600TW<br>T6H800TW              |            | T6H600TW-4<br>T6H800TW-4          |            |
| T6L     | 42kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6L600TW<br>T6L800TW              |            |                                   |            |

### T6-600/800A Frame, 100% Rated Thermal-Magnetic Trip Unit

| Breaker | IC at 600VAC | Rating       | Magnetic Trip                | 3-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|--------------|------------------------------|-----------------------------------|------------|
| T6N     | 20kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6NQ600TW<br>T6NQ800TW            |            |
| T6S     | 25kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6SQ600TW<br>T6SQ800TW            |            |
| T6H     | 35kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6HQ600TW<br>T6HQ800TW            |            |
| T6L     | 42kA         | 600A<br>800A | 3000 - 6000A<br>4000 - 8000A | T6LQ600TW<br>T6LQ800TW            |            |

### T6-600A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit  | Adjustment Range | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|------------|------------------|----------------------------|------------|
| T6N     | 20kA         | PR221 DS-I | 600-6000         | T6N600E5W                  |            |
| T6S     | 25kA         | PR221 DS-I | 600-6000         | T6S600E5W                  |            |
| T6H     | 35kA         | PR221 DS-I | 600-6000         | T6H600E5W                  |            |
| T6L     | 42kA         | PR221 DS-I | 600-6000         | T6L600E5W                  |            |

### T6-800A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit  | Adjustment Range | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|------------|------------------|----------------------------|------------|
| T6N     | 20kA         | PR221 DS-I | 800-8000         | T6N800E5W                  |            |
| T6S     | 25kA         | PR221 DS-I | 800-8000         | T6S800E5W                  |            |
| T6H     | 35kA         | PR221 DS-I | 800-8000         | T6H800E5W                  |            |
| T6L     | 42kA         | PR221 DS-I | 800-8000         | T6L800E5W                  |            |

### T6-800A Frame, Molded Case Switch

| Breaker | IC at 600VAC | Amp | Magnetic Trip | 3-Pole, 600VAC/600VDC Part Number | List Price | 4-Pole, 600VAC/600VDC Part Number | List Price |
|---------|--------------|-----|---------------|-----------------------------------|------------|-----------------------------------|------------|
| T6H     | 35kA         | 800 | 10,000        | T6H800DW                          |            | T6H800DW-4                        |            |

# T7-T7M

## 1000A / 1200A, 600VAC Δ

### Electronic (AC Only)

T7



**Dimensions** 3P Fixed Version 10.55H x 8.26W x 6.07D <sup>(1)</sup>  
**Weight** 21.4 (lbs)

#### General

The T7 breaker is a 1200 amp frame with a microprocessor based over current protective trip system.

Available in 2 versions: T7 for toggle operated, T7M for motor operated

#### Standards

The UL489/CSA C22.2 No. 5 version of T7 also carries an IEC-60947-2 rating.

#### Versions

To meet all application requirements, the T7 is available in the following versions:

- B = PR231-LS/I adjustable (dip switch)
- C = PR232-LSI adjustable (dip switch)
- E = PR331-LSIG adjustable (dip switch)
- D = Moulded Case Switch
- P = PR332-LI adjustable (keypad + LCD display)
- R = PR332-LSI adjustable (keypad + LCD display)
- S = PR332-LSIG adjustable (keypad + LCD display)

#### 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:

- S = Standard
- H = High
- L = Extra high

#### Number of Poles

The T7 is available as a 3 and 4 pole breaker.

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

| Voltage | S  | H   | L   |
|---------|----|-----|-----|
| 240VAC  | 65 | 100 | 150 |
| 480VAC  | 50 | 65  | 100 |
| 600VAC  | 25 | 50  | 65  |

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

| Voltage | S  | H   | L   |
|---------|----|-----|-----|
| 230VAC  | 85 | 100 | 200 |
| 415VAC  | 50 | 70  | 120 |
| 690VAC  | 30 | 42  | 50  |

(1) Toggle type (dimensions of toggle not included)

T7

## T7

### 1000A / 1200A, 600VAC Δ

#### Electronic (AC Only)

#### T7S-1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7S     | 25kA         | PR231/P   | LS/I       | T7S1000BW                  |            | T7S1000BW-4                |            |
|         |              | PR232/P   | LSI        | T7S1000CW                  |            | T7S1000CW-4                |            |
|         |              | PR331/P   | LSIG       | T7S1000EW                  |            | T7S1000EW-4                |            |
|         |              | PR332/P   | LI         | T7S1000PW                  |            | T7S1000PW-4                |            |
|         |              | PR332/P   | LSI        | T7S1000RW                  |            | T7S1000RW-4                |            |
|         |              | PR332/P   | LSIG       | T7S1000SW                  |            | T7S1000SW-4                |            |

#### T7S-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7S     | 25kA         | PR231/P   | LS/I       | T7S1200BW                  |            | T7S1200BW-4                |            |
|         |              | PR232/P   | LSI        | T7S1200CW                  |            | T7S1200CW-4                |            |
|         |              | PR331/P   | LSIG       | T7S1200EW                  |            | T7S1200EW-4                |            |
|         |              | PR332/P   | LI         | T7S1200PW                  |            | T7S1200PW-4                |            |
|         |              | PR332/P   | LSI        | T7S1200RW                  |            | T7S1200RW-4                |            |
|         |              | PR332/P   | LSIG       | T7S1200SW                  |            | T7S1200SW-4                |            |

#### T7H-1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7H     | 50kA         | PR231/P   | LS/I       | T7H1000BW                  |            | T7H1000BW-4                |            |
|         |              | PR232/P   | LSI        | T7H1000CW                  |            | T7H1000CW-4                |            |
|         |              | PR331/P   | LSIG       | T7H1000EW                  |            | T7H1000EW-4                |            |
|         |              | PR332/P   | LI         | T7H1000PW                  |            | T7H1000PW-4                |            |
|         |              | PR332/P   | LSI        | T7H1000RW                  |            | T7H1000RW-4                |            |
|         |              | PR332/P   | LSIG       | T7H1000SW                  |            | T7H1000SW-4                |            |

#### T7H-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7H     | 50kA         | PR231/P   | LS/I       | T7H1200BW                  |            | T7H1200BW-4                |            |
|         |              | PR232/P   | LSI        | T7H1200CW                  |            | T7H1200CW-4                |            |
|         |              | PR331/P   | LSIG       | T7H1200EW                  |            | T7H1200EW-4                |            |
|         |              | PR332/P   | LI         | T7H1200PW                  |            | T7H1200PW-4                |            |
|         |              | PR332/P   | LSI        | T7H1200RW                  |            | T7H1200RW-4                |            |
|         |              | PR332/P   | LSIG       | T7H1200SW                  |            | T7H1200SW-4                |            |

#### T7L-1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7L     | 65kA         | PR231/P   | LS/I       | T7L1000BW                  |            | T7L1000BW-4                |            |
|         |              | PR232/P   | LSI        | T7L1000CW                  |            | T7L1000CW-4                |            |
|         |              | PR331/P   | LSIG       | T7L1000EW                  |            | T7L1000EW-4                |            |
|         |              | PR332/P   | LI         | T7L1000PW                  |            | T7L1000PW-4                |            |
|         |              | PR332/P   | LSI        | T7L1000RW                  |            | T7L1000RW-4                |            |
|         |              | PR332/P   | LSIG       | T7L1000SW                  |            | T7L1000SW-4                |            |

#### T7L-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7L     | 65kA         | PR231/P   | LS/I       | T7L1200BW                  |            | T7L1200BW-4                |            |
|         |              | PR232/P   | LSI        | T7L1200CW                  |            | T7L1200CW-4                |            |
|         |              | PR331/P   | LSIG       | T7L1200EW                  |            | T7L1200EW-4                |            |
|         |              | PR332/P   | LI         | T7L1200PW                  |            | T7L1200PW-4                |            |
|         |              | PR332/P   | LSI        | T7L1200RW                  |            | T7L1200RW-4                |            |
|         |              | PR332/P   | LSIG       | T7L1200SW                  |            | T7L1200SW-4                |            |

# T7M

## 1000A / 1200A, 600VAC Δ

### Electronic (AC Only)

T7

#### T7MS-1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7MS    | 25kA         | PR231/P   | LS/I       | T7MS1000BW                 |            | T7MS1000BW-4               |            |
|         |              | PR232/P   | LSI        | T7MS1000CW                 |            | T7MS1000CW-4               |            |
|         |              | PR331/P   | LSIG       | T7MS1000EW                 |            | T7MS1000EW-4               |            |
|         |              | PR332/P   | LI         | T7MS1000PW                 |            | T7MS1000PW-4               |            |
|         |              | PR332/P   | LSI        | T7MS1000RW                 |            | T7MS1000RW-4               |            |
|         |              | PR332/P   | LSIG       | T7MS1000SW                 |            | T7MS1000SW-4               |            |

#### T7MS-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7MS    | 25kA         | PR231/P   | LS/I       | T7MS1200BW                 |            | T7MS1200BW-4               |            |
|         |              | PR232/P   | LSI        | T7MS1200CW                 |            | T7MS1200CW-4               |            |
|         |              | PR331/P   | LSIG       | T7MS1200EW                 |            | T7MS1200EW-4               |            |
|         |              | PR332/P   | LI         | T7MS1200PW                 |            | T7MS1200PW-4               |            |
|         |              | PR332/P   | LSI        | T7MS1200RW                 |            | T7MS1200RW-4               |            |
|         |              | PR332/P   | LSIG       | T7MS1200SW                 |            | T7MS1200SW-4               |            |

#### T7MH, 1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7MH    | 50kA         | PR231/P   | LS/I       | T7MH1000BW                 |            | T7MH1000BW-4               |            |
|         |              | PR232/P   | LSI        | T7MH1000CW                 |            | T7MH1000CW-4               |            |
|         |              | PR331/P   | LSIG       | T7MH1000EW                 |            | T7MH1000EW-4               |            |
|         |              | PR332/P   | LI         | T7MH1000PW                 |            | T7MH1000PW-4               |            |
|         |              | PR232/P   | LSI        | T7MH1000RW                 |            | T7MH1000RW-4               |            |
|         |              | PR332/P   | LSIG       | T7MH1000SW                 |            | T7MH1000SW-4               |            |

#### T7MH-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7MH    | 50kA         | PR231/P   | LS/I       | T7MH1200BW                 |            | T7MH1200BW-4               |            |
|         |              | PR232/P   | LSI        | T7MH1200CW                 |            | T7MH1200CW-4               |            |
|         |              | PR331/P   | LSIG       | T7MH1200EW                 |            | T7MH1200EW-4               |            |
|         |              | PR332/P   | LI         | T7MH1200PW                 |            | T7MH1200PW-4               |            |
|         |              | PR332/P   | LSI        | T7MH1200RW                 |            | T7MH1200RW-4               |            |
|         |              | PR332/P   | LSIG       | T7MH1200SW                 |            | T7MH1200SW-4               |            |

#### T7ML-1000A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7ML    | 65kA         | PR231/P   | LS/I       | T7ML1000BW                 |            | T7ML1000BW-4               |            |
|         |              | PR232/P   | LSI        | T7ML1000CW                 |            | T7ML1000CW-4               |            |
|         |              | PR331/P   | LSIG       | T7ML1000EW                 |            | T7ML1000EW-4               |            |
|         |              | PR332/P   | LI         | T7ML1000PW                 |            | T7ML1000PW-4               |            |
|         |              | PR332/P   | LSI        | T7ML1000RW                 |            | T7ML1000RW-4               |            |
|         |              | PR332/P   | LSIG       | T7ML1000SW                 |            | T7ML1000SW-4               |            |

#### T7ML-1200A Frame, Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T7ML    | 65kA         | PR231/P   | LS/I       | T7ML1200BW                 |            | T7ML1200BW-4               |            |
|         |              | PR232/P   | LSI        | T7ML1200CW                 |            | T7ML1200CW-4               |            |
|         |              | PR331/P   | LSIG       | T7ML1200EW                 |            | T7ML1200EW-4               |            |
|         |              | PR332/P   | LI         | T7ML1200PW                 |            | T7ML1200PW-4               |            |
|         |              | PR332/P   | LSI        | T7ML1200RW                 |            | T7ML1200RW-4               |            |
|         |              | PR332/P   | LSIG       | T7ML1200SW                 |            | T7ML1200SW-4               |            |

T7

# **T7** **1000A / 1200A, 600VAC Δ** **100% Rated Electronic (AC Only)**

## **T7S-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7SQ    | 25kA         | PR231/P   | LS/I       | T7SQ1000BW                 |            |
|         |              | PR232/P   | LSI        | T7SQ1000CW                 |            |
|         |              | PR331/P   | LSIG       | T7SQ1000EW                 |            |
|         |              | PR332/P   | LI         | T7SQ1000PW                 |            |
|         |              | PR332/P   | LSI        | T7SQ1000RW                 |            |
|         |              | PR332/P   | LSIG       | T7SQ1000SW                 |            |

## **T7S-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7SQ    | 25kA         | PR231/P   | LS/I       | T7SQ1200BW                 |            |
|         |              | PR232/P   | LSI        | T7SQ1200CW                 |            |
|         |              | PR331/P   | LSIG       | T7SQ1200EW                 |            |
|         |              | PR332/P   | LI         | T7SQ1200PW                 |            |
|         |              | PR332/P   | LSI        | T7SQ1200RW                 |            |
|         |              | PR332/P   | LSIG       | T7SQ1200SW                 |            |

## **T7H-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7HQ    | 50kA         | PR231/P   | LS/I       | T7HQ1000BW                 |            |
|         |              | PR232/P   | LSI        | T7HQ1000CW                 |            |
|         |              | PR331/P   | LSIG       | T7HQ1000EW                 |            |
|         |              | PR332/P   | LI         | T7HQ1000PW                 |            |
|         |              | PR332/P   | LSI        | T7HQ1000RW                 |            |
|         |              | PR332/P   | LSIG       | T7HQ1000SW                 |            |

## **T7H-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7HQ    | 50kA         | PR231/P   | LS/I       | T7HQ1200BW                 |            |
|         |              | PR232/P   | LSI        | T7HQ1200CW                 |            |
|         |              | PR331/P   | LSIG       | T7HQ1200EW                 |            |
|         |              | PR332/P   | LI         | T7HQ1200PW                 |            |
|         |              | PR332/P   | LSI        | T7HQ1200RW                 |            |
|         |              | PR332/P   | LSIG       | T7HQ1200SW                 |            |

## **T7L-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7LQ    | 65kA         | PR231/P   | LS/I       | T7LQ1000BW                 |            |
|         |              | PR232/P   | LSI        | T7LQ1000CW                 |            |
|         |              | PR331/P   | LSIG       | T7LQ1000EW                 |            |
|         |              | PR332/P   | LI         | T7LQ1000PW                 |            |
|         |              | PR332/P   | LSI        | T7LQ1000RW                 |            |
|         |              | PR332/P   | LSIG       | T7LQ1000SW                 |            |

## **T7L-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7LQ    | 65kA         | PR231/P   | LS/I       | T7LQ1200BW                 |            |
|         |              | PR232/P   | LSI        | T7LQ1200CW                 |            |
|         |              | PR331/P   | LSIG       | T7LQ1200EW                 |            |
|         |              | PR332/P   | LI         | T7LQ1200PW                 |            |
|         |              | PR332/P   | LSI        | T7LQ1200RW                 |            |
|         |              | PR332/P   | LSIG       | T7LQ1200SW                 |            |



# T7M

## 1000A / 1200A, 600VAC Δ

### 100% Rated Electronic (AC Only)

T7

#### T7MS-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MSQ   | 25kA         | PR231/P   | LS/I       | T7MSQ1000BW                |            |
|         |              | PR232/P   | LSI        | T7MSQ1000CW                |            |
|         |              | PR331/P   | LSIG       | T7MSQ1000EW                |            |
|         |              | PR332/P   | LI         | T7MSQ1000PW                |            |
|         |              | PR332/P   | LSI        | T7MSQ1000RW                |            |
|         |              | PR332/P   | LSIG       | T7MSQ1000SW                |            |

#### T7MS-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MSQ   | 25kA         | PR231/P   | LS/I       | T7MSQ1200BW                |            |
|         |              | PR232/P   | LSI        | T7MSQ1200CW                |            |
|         |              | PR331/P   | LSIG       | T7MSQ1200EW                |            |
|         |              | PR332/P   | LI         | T7MSQ1200PW                |            |
|         |              | PR332/P   | LSI        | T7MSQ1200RW                |            |
|         |              | PR332/P   | LSIG       | T7MSQ1200SW                |            |

#### T7MH-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MHQ   | 50kA         | PR231/P   | LS/I       | T7MHQ1000BW                |            |
|         |              | PR232/P   | LSI        | T7MHQ1000CW                |            |
|         |              | PR331/P   | LSIG       | T7MHQ1000EW                |            |
|         |              | PR332/P   | LI         | T7MHQ1000PW                |            |
|         |              | PR332/P   | LSI        | T7MHQ1000RW                |            |
|         |              | PR332/P   | LSIG       | T7MHQ1000SW                |            |

#### T7MH-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MHQ   | 50kA         | PR231/P   | LS/I       | T7MHQ1200BW                |            |
|         |              | PR232/P   | LSI        | T7MHQ1200CW                |            |
|         |              | PR331/P   | LSIG       | T7MHQ1200EW                |            |
|         |              | PR332/P   | LI         | T7MHQ1200PW                |            |
|         |              | PR332/P   | LSI        | T7MHQ1200RW                |            |
|         |              | PR332/P   | LSIG       | T7MHQ1200SW                |            |

#### T7ML-1000A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MLQ   | 65kA         | PR231/P   | LS/I       | T7MLQ1000BW                |            |
|         |              | PR232/P   | LSI        | T7MLQ1000CW                |            |
|         |              | PR331/P   | LSIG       | T7MLQ1000EW                |            |
|         |              | PR332/P   | LI         | T7MLQ1000PW                |            |
|         |              | PR332/P   | LSI        | T7MLQ1000RW                |            |
|         |              | PR332/P   | LSIG       | T7MLQ1000SW                |            |

#### T7ML-1200A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|
| T7MLQ   | 65kA         | PR231/P   | LS/I       | T7MLQ1200BW                |            |
|         |              | PR232/P   | LSI        | T7MLQ1200CW                |            |
|         |              | PR331/P   | LSIG       | T7MLQ1200EW                |            |
|         |              | PR332/P   | LI         | T7MLQ1200PW                |            |
|         |              | PR332/P   | LSI        | T7MLQ1200RW                |            |
|         |              | PR332/P   | LSIG       | T7MLQ1200SW                |            |

# T7

## T7-T7M

1000A / 1200A, 600VAC Δ

MCP (Instantaneous Only), Molded Case Switch

### T7-1000/1200A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Amps | Trip Unit | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|------|-----------|----------------------------|------------|
| T7      | 25kA         | 1000 | PR231/P-I | T7S1000MW                  |            |
|         | 50kA         | 1000 | PR231/P-I | T7H1000MW                  |            |
|         | 65kA         | 1000 | PR231/P-I | T7L1000MW                  |            |
|         | 25kA         | 1200 | PR231/P-I | T7S1200MW                  |            |
|         | 50kA         | 1200 | PR231/P-I | T7H1200MW                  |            |
|         | 65kA         | 1200 | PR231/P-I | T7L1200MW                  |            |

### T7M-1000/1200A Frame, Motor Control Protection (MCP) Electronic Trip Unit (AC Only)

| Breaker | IC at 600VAC | Amps | Trip Unit | 3-Pole, 600VAC Part Number | List Price |
|---------|--------------|------|-----------|----------------------------|------------|
| T7M     | 25kA         | 1000 | PR231/P-I | T7MS1000MW                 |            |
|         | 50kA         | 1000 | PR231/P-I | T7MH1000MW                 |            |
|         | 65kA         | 1000 | PR231/P-I | T7ML1000MW                 |            |
|         | 25kA         | 1200 | PR231/P-I | T7MS1200MW                 |            |
|         | 50kA         | 1200 | PR231/P-I | T7MH1200MW                 |            |
|         | 65kA         | 1200 | PR231/P-I | T7ML1200MW                 |            |

### T7/T7M-1200A Frame, Molded Case Switch (AC Only)

| Breaker | IC at 600VAC | Amps | Magnetic Trip | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|------|---------------|----------------------------|------------|----------------------------|------------|
| T7      | 50kA         | 1200 | 12000         | T7H1200DW                  |            | T7H1200DW-4                |            |
| T7M     | 50kA         | 1200 | 12000         | T7MH1200DW                 |            | T7MH1200DW-4               |            |

# T7-T7M

## 1000A / 1200A, 600VAC Δ

### Accessories

T7



T7 X1 Shunt trip - UVR

#### Shunt Trips (YO)

| Frame Size | Voltage       | Part Number | List Price |
|------------|---------------|-------------|------------|
| T7 - T7M   | 415-440VAC    | KT7XS1      |            |
|            | 380-400VAC    | KT7XS2      |            |
|            | 240-250VAC/DC | KT7XS3      |            |
|            | 220-240VAC/DC | KT7XS4      |            |
|            | 120-127VAC/DC | KT7XS5      |            |
|            | 110-120VAC/DC | KT7XS6      |            |
|            | 60VAC/DC      | KT7XS7      |            |
|            | 48VAC/DC      | KT7XS8      |            |
|            | 30VAC/DC      | KT7XS9      |            |
|            | 24VAC/DC      | KT7XS0      |            |

#### Undervoltage Release - (UVR)

| Frame Size | Voltage       | Part Number | List Price |
|------------|---------------|-------------|------------|
| T7 - T7M   | 415-440VAC    | KT7XU1      |            |
|            | 380-400VAC    | KT7XU2      |            |
|            | 240-250VAC/DC | KT7XU3      |            |
|            | 220-240VAC/DC | KT7XU4      |            |
|            | 120-127VAC/DC | KT7XU5      |            |
|            | 110-120VAC/DC | KT7XU6      |            |
|            | 60VAC/DC      | KT7XU7      |            |
|            | 48VAC/DC      | KT7XU8      |            |
|            | 30VAC/DC      | KT7XU9      |            |
|            | 24VAC/DC      | KT7XU0      |            |

#### Shunt Closing Release (YC)

| Frame Size | Voltage       | Part Number | List Price |
|------------|---------------|-------------|------------|
| T7M        | 415-440VAC    | KT7MXC1     |            |
|            | 380-400VAC    | KT7MXC2     |            |
|            | 240-250VAC/DC | KT7MXC3     |            |
|            | 220-240VAC/DC | KT7MXC4     |            |
|            | 120-127VAC/DC | KT7MXC5     |            |
|            | 110-120VAC/DC | KT7MXC6     |            |
|            | 60VAC/DC      | KT7MXC7     |            |
|            | 48VAC/DC      | KT7MXC8     |            |
|            | 30VAC/DC      | KT7MXC9     |            |
|            | 24VAC/DC      | KT7MXC0     |            |

#### Auxiliary Contacts - (AUX)

| Frame Size | Type / Voltage              | Part Number            | List Price |
|------------|-----------------------------|------------------------|------------|
| T7-T7M     | 1 AUX "C" + 1 BA "C" 400VAC | KT7AS <sup>(1)</sup>   |            |
|            | 2 AUX "C" 400VAC            | KT7XAS2                |            |
|            | 1 AUX "C" + 1 BA "C" 24VDC  | KT7ASL <sup>(1)</sup>  |            |
|            | 2 AUX "C" 24VDC             | KT7XAS2L               |            |
|            | 1 S51"C" 250VAC             | KT7XS51 <sup>(2)</sup> |            |
|            | 1 S51"C" 250VAC             | KT7S51 <sup>(1)</sup>  |            |

Possible combinations are:

T7: a) 1 Aux + 1BA b) 2 Aux,  
c) 3 Aux + 1BA  
T7M: a) 2 Aux , b) 4 Aux

#### Spring Charging Motor (M)

| Frame Size | Type / Voltage  | Part Number | List Price |
|------------|-----------------|-------------|------------|
| T7M        | 380...415VAC    | KT7MXM2     |            |
|            | 220...250VAC/DC | KT7MXM3     |            |
|            | 100/130VAC/DC   | KT7MXM5     |            |
|            | 48...60VAC/DC   | KT7MXM7     |            |
|            | 24...30VAC/DC   | KT7MXM9     |            |

(1) For installation on T7 only  
(2) For installation on T7M only

# T7-T7M

## 1000A / 1200A, 600VAC Δ

### Accessories

#### Standard Cable Terminal <sup>(1)</sup>

| Frame    | Wire Size         | Part Number<br>(set of 3) | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|----------|-------------------|---------------------------|---------------|---------------------------|---------------|
| T7-T7M 1 | (4) 4/0-500 kcmil | KT7X1200-3                |               | KT7X1200-4                |               |

(1) Comes standard with high profile terminal covers.

#### Terminal Covers for Fixed Breakers - Low Profile-Kit Includes Two Pieces

| Frame  | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|--------|-------------------------|---------------|-------------------------|---------------|
| T7-T7M | KT7XLTC-3               |               | KT7XLTC-4               |               |

#### Terminal Covers for Fixed Breakers - High Profile-Kit Includes Two Pieces

| Frame  | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|--------|-------------------------|---------------|-------------------------|---------------|
| T7-T7M | KT7XHTC-3               |               | KT7XHTC-4               |               |

#### Phase Barriers - Low Profile - 100mm - 3.93 in

| Frame  | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|--------|-------------------------|---------------|-------------------------|---------------|
| T7-T7M | KT7PBL-3                |               | KT7PBL-4                |               |

#### Phase Barriers - High Profile - 200mm - 7.87 in

| Frame  | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|--------|-------------------------|---------------|-------------------------|---------------|
| T7-T7M | KT7PBH-3                |               | KT7PBH-4                |               |

#### Extended Front Terminals - IEC

| Frame  | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|--------|-------------------------|---------------|-------------------------|---------------|
| T7-T7M | KT7EF-3                 |               | KT7EF-4                 |               |

#### Rear Terminals - IEC

| Frame  | Part Number<br>(set of 3) | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|--------|---------------------------|---------------|---------------------------|---------------|
| T7-T7M | KT7XR-3                   |               | KT7XR-4                   |               |

#### Variable Depth Handle Operators

| Frame | Mechanism<br>Part Number | List<br>Price | Shaft Part Number | List<br>Price | Handle<br>Part Number                | List<br>Price |
|-------|--------------------------|---------------|-------------------|---------------|--------------------------------------|---------------|
| T7    | KT7VD-M                  |               | OXF10X500 (19.7") |               | OHB175J10X<br>OHY175J10<br>OHB175L10 |               |
|       |                          |               | KT7VD-S (19.7")   |               | KT7VD-H                              |               |

#### Direct Mount Rotary Operator Handle

| Frame | Breaker Mounting | Part Number | List Price |
|-------|------------------|-------------|------------|
| T7    | Fixed, Plug-In   | KT7RH       |            |

#### Early Make Contact

| Frame | Part Number | List Price |
|-------|-------------|------------|
| T7    | KT7EM       |            |

#### Padlock Locking Device

| Frame | Style | Locking Position | Breaker Mounting | Part Number | List<br>Price |
|-------|-------|------------------|------------------|-------------|---------------|
| T7    | PLL   | OPEN             | Fixed, Drawout   | KT7LDO      |               |
| T7M   | PLL   | OPEN             | Fixed, Draw-out  | KT7MLDO     |               |

#### Keylocks for the Rotary Handle Mechanism

| Frame | Style | Locking Position | Keys             | Part Number   | List<br>Price |
|-------|-------|------------------|------------------|---------------|---------------|
| T7    | KLF-D | OPEN             | Different        | KT7KLFD       |               |
|       | KLF-S | OPEN             | Same key # 20005 | KT7KLFS-20005 |               |
|       | KLF-S | OPEN             | Same key # 20006 | KT7KLFS-20006 |               |
|       | KLF-S | OPEN             | Same key # 20007 | KT7KLFS-20007 |               |
|       | KLF-S | OPEN             | Same key # 20008 | KT7KLFS-20008 |               |

#### Keylocks on the Circuit-Breaker

| Frame | Style | Locking Position | Keys             | Part Number    | List<br>Price |
|-------|-------|------------------|------------------|----------------|---------------|
| T7    | KLF-D | OPEN             | Different        | KT7KLCD        |               |
|       | KLF-S | OPEN             | Same key # 20005 | KT7KLCS-20005  |               |
|       | KLF-S | OPEN             | Same key # 20006 | KT7KLCS-20006  |               |
|       | KLF-S | OPEN             | Same key # 20007 | KT7KLCS-20007  |               |
|       | KLF-S | OPEN             | Same key # 20008 | KT7KLCS-20008  |               |
| T7M   | KLF-D | OPEN             | Different        | KT7MKLCD       |               |
|       | KLF-S | OPEN             | Same key # 20005 | KT7MKLCS-20005 |               |
|       | KLF-S | OPEN             | Same key # 20006 | KT7MKLCS-20006 |               |
|       | KLF-S | OPEN             | Same key # 20007 | KT7MKLCS-20007 |               |
|       | KLF-S | OPEN             | Same key # 20008 | KT7MKLCS-20008 |               |

# T7-T7M

## 1000A / 1200A, 600VAC Δ

### Accessories

T7

#### Draw-Out Kits

| Item                   | Part Number<br>Adaptor Moving Part | List<br>Price | Part Number<br>Fixed Part | List<br>Price |
|------------------------|------------------------------------|---------------|---------------------------|---------------|
| T7 - 3 pole with RC-RC | KT7WMK                             |               | KT7WFRC                   |               |
| T7 - 4 pole with RC-RC | KT7WMK-4                           |               | KT7WFRC-4                 |               |

#### Sliding Contact Blocks — T7-Draw-Out <sup>(1)</sup>

| Item                                                                                                                                                                         | Moving Part<br>Breaker | List<br>Price | Fixed Part<br>Cradle                   | List<br>Price |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------|----------------------------------------|---------------|
| <b>Left Block</b><br>Spring charging motor<br>Spring charged contact<br>Ready to close contact<br>Early auxiliary contact<br>Contact for trip coil release trip<br>Trip rest | KT7XSCMP-L             |               | KT7SCFP-L (T7)<br>KT7MXSCFP-L<br>(T7M) |               |
| <b>Center Block</b><br>PR331<br>PR332                                                                                                                                        | KT7XSCMP-C             |               | KT7XSCFP-C                             |               |
| <b>Right Block</b><br>Auxiliary contacts<br>Shunt trip<br>Closing Coil<br>Undervoltage release                                                                               | KT7XSCMP-R             |               | KT7XSCFP-R                             |               |

#### Position Key Lock (Fixed Part) — T7 - T7M

| Item                                                                                      | Part<br>Number                                                           | List<br>Price |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------|
| Different key<br>Same key #20005<br>Same key #20006<br>Same key #20007<br>Same key #20008 | KT7XPL-D<br>KT7XPL-20005<br>KT7XPL-20006<br>KT7XPL-20007<br>KT7XPL-20008 |               |

Locks drawout breaker in racked-in / test isolation / racked-out position.

#### Position Key Lock Accessory (Fixed Part) — T7 - T7M

| Item               | Part<br>Number | List<br>Price |
|--------------------|----------------|---------------|
| Key lock accessory | KT7XPLA        |               |

Accessory added to position key lock allows breaker to be locked in racked-out position only.

#### Mechanical Interlocks

| Item                                                                                                  | Part<br>Number                  | List<br>Price |
|-------------------------------------------------------------------------------------------------------|---------------------------------|---------------|
| <b>T7 <sup>(2)</sup></b><br>Cable T7<br>Mech. interlock plate-fixed<br>Mech. interlock plate-draw-out | KT7XMLC<br>KT7XMLPW<br>KT7XMLPF |               |

#### Neutral Current Transformers (Required for 4-Wire Ground Fault System)

| Frame | Part<br>Number             | List<br>Price |
|-------|----------------------------|---------------|
| T7    | 400...1200A<br>KT7XNCT1200 |               |

#### Rating Plugs

| Frame | Rating Plug                            | Part<br>Number                                                | List<br>Price |
|-------|----------------------------------------|---------------------------------------------------------------|---------------|
| T7    | 400A<br>600A<br>800A<br>1000A<br>1200A | KT70400RP<br>KT70600RP<br>KT70800RP<br>KT71000RP<br>KT71200RP |               |

#### Mechanical Accessories

| Item                       | Part<br>Number | List<br>Price |
|----------------------------|----------------|---------------|
| Flange T7                  | KT7XFCD        |               |
| Mech. operation<br>counter | KT7XEMC        |               |
| IP54 door cover            | KT7XDC         |               |

(1) If at least one of the accessories in table is installed on the breaker - respective pair of contact blocks must be installed on the fixed part (cradle) and the moving part. (breaker)

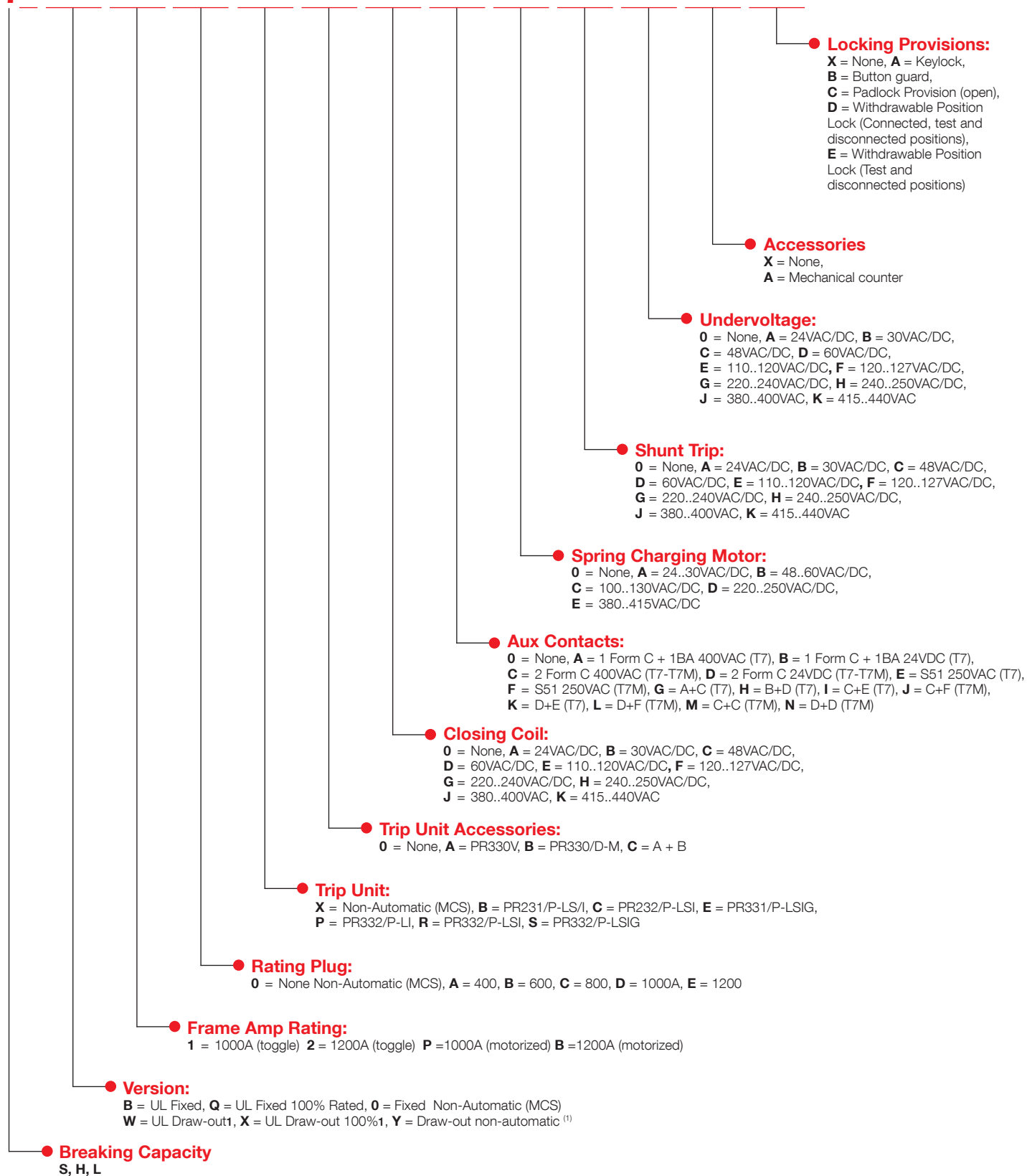
(2) To interlock two circuit breakers, you have to order a cable kit and two plates.

# T7 / T7M

## 1000A / 1200A, 600VAC Δ

### Part-Numbering System

T7



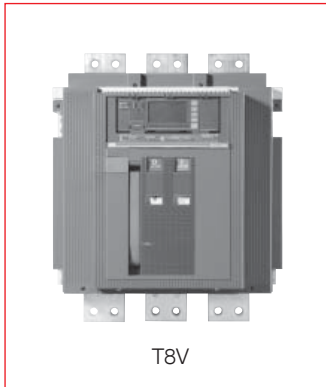
(1) Fixed part and accessories to be ordered separately

# T8V

## 1600A / 2000A / 2500A / 3000A

### Insulated Case Circuit Breaker

T8



T8V

**Dimensions** 3P Version: 15.00" H x 16.8" W x 11.2"D  
**Weight** 161 (lbs) 1600A/2000A/2500A  
 236 (lbs) 3000A

The Tmax family, conforming to the UL489 and CSA C22.2 No. 5.0 Standards, is enriched with the TmaxT8 size, which allows 3000 A to be reached. Also available in the 1600A, 2000A and 2500A frames, Tmax T8 is equipped with the same electronic trip units as Tmax T7 thereby guaranteeing extremely high performances able to satisfy all installation requirements. Tmax T8 is able to interrupt the following short-circuit currents: 125kA@480VAC and 100kA@600 VAC.

- Available in 3 and 4 pole versions
- Four different frame ratings, 1600, 2000, 2500 & 3000 Amps
- Available 100% rated version up to 3000A
- Installation in vertical position only
- Wide range of CSA/UL field-installable accessories
- Solid state trip unit available in three different versions:
  - PR331/P-LSI
  - PR331/P-LSIG
  - PR332/P-LI (LCD display)
  - PR332/P-LSI (LCD display)
  - PR332/P-LSIG (LCD display)
- The ability to add internal modules for flexible and precise configuration:
  - Optional modules includes:
    - Voltage module
    - Signaling module
    - Communications module

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

| Voltage | V   |
|---------|-----|
| 240VAC  | 125 |
| 480VAC  | 125 |
| 600VAC  | 100 |

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

| Voltage | V   |
|---------|-----|
| 230VAC  | 130 |
| 415VAC  | 130 |
| 440VAC  | 130 |
| 500VAC  | 100 |
| 600VAC  | 80  |

T8

**T8V**1600A / 2000A / 2500A / 3000A, 600VAC Δ  
Electronic (AC Only)**T8-1600A Frame, Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T8V     | 100kA        | PR331/P   | LSI        | T8V16CW                    |            | T8V16CW-4                  |            |
|         |              | PR331/P   | LSIG       | T8V16EW                    |            | T8V16EW-4                  |            |
|         |              | PR332/P   | LI         | T8V16PW                    |            | T8V16PW-4                  |            |
|         |              | PR332/P   | LSI        | T8V16RW                    |            | T8V16RW-4                  |            |
|         |              | PR332/P   | LSIG       | T8V16SW                    |            | T8V16SW-4                  |            |
|         |              |           |            |                            |            |                            |            |

**T8-2000A Frame, Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T8V     | 100kA        | PR331/P   | LSI        | T8V20CW                    |            | T8V20CW-4                  |            |
|         |              | PR331/P   | LSIG       | T8V20EW                    |            | T8V20EW-4                  |            |
|         |              | PR332/P   | LI         | T8V20PW                    |            | T8V20PW-4                  |            |
|         |              | PR332/P   | LSI        | T8V20RW                    |            | T8V20RW-4                  |            |
|         |              | PR332/P   | LSIG       | T8V20SW                    |            | T8V20SW-4                  |            |
|         |              |           |            |                            |            |                            |            |

**T8-2500A Frame, Electronic Trip Unit (AC Only)**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T8V     | 100kA        | PR331/P   | LSI        | T8V25CW                    |            | T8V25CW-4                  |            |
|         |              | PR331/P   | LSIG       | T8V25EW                    |            | T8V25EW-4                  |            |
|         |              | PR332/P   | LI         | T8V25PW                    |            | T8V25PW-4                  |            |
|         |              | PR332/P   | LSI        | T8V25RW                    |            | T8V25RW-4                  |            |
|         |              | PR332/P   | LSIG       | T8V25SW                    |            | T8V25SW-4                  |            |
|         |              |           |            |                            |            |                            |            |

**T8-3000A Frame, Electronic Trip Unit (AC Only)<sup>1</sup>**

| Breaker | IC at 600VAC | Trip Unit | Adjustment | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|--------------|-----------|------------|----------------------------|------------|----------------------------|------------|
| T8V     | 100kA        | PR331/P   | LSI        | T8V30CW                    |            | T8V30CW-4                  |            |
|         |              | PR331/P   | LSIG       | T8V30EW                    |            | T8V30EW-4                  |            |
|         |              | PR332/P   | LI         | T8V30PW                    |            | T8V30PW-4                  |            |
|         |              | PR332/P   | LSI        | T8V30RW                    |            | T8V30RW-4                  |            |
|         |              | PR332/P   | LSIG       | T8V30SW                    |            | T8V30SW-4                  |            |
|         |              |           |            |                            |            |                            |            |

**T8-3000A Frame, Molded Case Switch (AC Only)<sup>1</sup>**

| Breaker | Rating    | Magnetic Override | 3-Pole, 600VAC Part Number | List Price | 4-Pole, 600VAC Part Number | List Price |
|---------|-----------|-------------------|----------------------------|------------|----------------------------|------------|
| T8V-D   | 2000A     | 40000A            | T8V20DW                    |            | T8V20DW-4                  |            |
|         | 2500A     |                   | T8V25DW                    |            | T8V25DW-4                  |            |
|         | 3000A (1) |                   | T8V30DW                    |            | T8V30DW-4                  |            |
|         |           |                   |                            |            |                            |            |

<sup>(1)</sup> Vertical terminals only



## T8V

1600A / 2000A / 2500A / 3000A, 600VAC  $\Delta$   
100% Rated Electronic (AC Only)

T8

### T8-1600A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at<br>600VAC | Trip<br>Unit | Adjustment | 3-Pole, 600VAC<br>Part Number | List<br>Price |
|---------|-----------------|--------------|------------|-------------------------------|---------------|
| T8VQ    | 100kA           | PR331/P      | LSI        | T8VQ16CW                      |               |
|         |                 | PR331/P      | LSIG       | T8VQ16EW                      |               |
|         |                 | PR332/P      | LI         | T8VQ16PW                      |               |
|         |                 | PR332/P      | LSI        | T8VQ16RW                      |               |
|         |                 | PR332/P      | LSIG       | T8VQ16SW                      |               |

### T8-2000A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at<br>600VAC | Trip<br>Unit | Adjustment | 3-Pole, 600VAC<br>Part Number | List<br>Price |
|---------|-----------------|--------------|------------|-------------------------------|---------------|
| T8VQ    | 100kA           | PR331/P      | LSI        | T8VQ20CW                      |               |
|         |                 | PR331/P      | LSIG       | T8VQ20EW                      |               |
|         |                 | PR332/P      | LI         | T8VQ20PW                      |               |
|         |                 | PR332/P      | LSI        | T8VQ20RW                      |               |
|         |                 | PR332/P      | LSIG       | T8VQ20SW                      |               |

### T8-2500A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at<br>600VAC | Trip<br>Unit | Adjustment | 3-Pole, 600VAC<br>Part Number | List<br>Price |
|---------|-----------------|--------------|------------|-------------------------------|---------------|
| T8VQ    | 100kA           | PR331/P      | LSI        | T8VQ25CW                      |               |
|         |                 | PR331/P      | LSIG       | T8VQ25EW                      |               |
|         |                 | PR332/P      | LI         | T8VQ25PW                      |               |
|         |                 | PR332/P      | LSI        | T8VQ25RW                      |               |
|         |                 | PR332/P      | LSIG       | T8VQ25SW                      |               |

Note: vertical terminals only

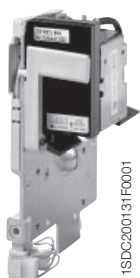
### T8-3000A Frame, 100% Rated Electronic Trip Unit (AC Only)

| Breaker | IC at<br>600VAC | Trip<br>Unit | Adjustment | 3-Pole, 600VAC<br>Part Number | List<br>Price |
|---------|-----------------|--------------|------------|-------------------------------|---------------|
| T8VQ    | 100kA           | PR331/P      | LSI        | T8VQ30CW                      |               |
|         |                 | PR331/P      | LSIG       | T8VQ30EW                      |               |
|         |                 | PR332/P      | LI         | T8VQ30PW                      |               |
|         |                 | PR332/P      | LSI        | T8VQ30RW                      |               |
|         |                 | PR332/P      | LSIG       | T8VQ30SW                      |               |

Note: vertical terminals only

**T8V**

1600A / 2000A / 2500A / 3000A, 600VAC Δ  
Accessories



1SDC200131F0001

**Shunt Trips (YO) and Closing Coils (YC)**

| Frame Size | Voltage       | YO<br>Part Number | List<br>Price | YC<br>Part Number | List<br>Price |
|------------|---------------|-------------------|---------------|-------------------|---------------|
| T8         | 24VDC         | KT8ES0            |               | KT8EC0            |               |
|            | 30VAC/DC      | KT8ES9            |               | KT8EC9            |               |
|            | 48VAC/DC      | KT8ES8            |               | KT8EC8            |               |
|            | 60VAC/DC      | KT8ES7            |               | KT8EC7            |               |
|            | 110/120VAC/DC | KT8ES6            |               | KT8EC6            |               |
|            | 120/127VAC/DC | KT8ES5            |               | KT8EC5            |               |
|            | 220/240VAC/DC | KT8ES4            |               | KT8EC4            |               |
|            | 250VAC/DC     | KT8ES3            |               | KT8EC3            |               |
|            | 380/400VAC    | KT8ES2            |               | KT8EC2            |               |
|            | 440/480VAC    | KT8ES1            |               | KT8EC1            |               |

**Undervoltage Release (UVR) or Additional Shunt Trip (YO2)**

| Frame Size | Voltage       | YO<br>Part Number | List<br>Price | YC<br>Part Number | List<br>Price |
|------------|---------------|-------------------|---------------|-------------------|---------------|
| T8         | 24VDC         | KT8EU0            |               | KT8ES0-2          |               |
|            | 30VAC/DC      | KT8EU9            |               | KT8ES9-2          |               |
|            | 48VAC/DC      | KT8EU8            |               | KT8ES8-2          |               |
|            | 60VAC/DC      | KT8EU7            |               | KT8ES7-2          |               |
|            | 110/120VAC/DC | KT8EU6            |               | KT8ES6-2          |               |
|            | 120/127VAC/DC | KT8EU5            |               | KT8ES5-2          |               |
|            | 220/240VAC/DC | KT8EU4            |               | KT8ES4-2          |               |
|            | 250VAC/DC     | KT8EU3            |               | KT8ES3-2          |               |
|            | 380/400VAC    | KT8EU2            |               | KT8ES2-2          |               |
|            | 440/480VAC    | KT8EU1            |               | KT8ES1-2          |               |

**Note:** UVR and YO2 are mutually exclusive (only one device can be installed)

**Stored Energy Motor (M)**

| Frame Size | Voltage       | Part<br>Number | List<br>Price |
|------------|---------------|----------------|---------------|
| T8         | 24/30VAC/DC   | KT8EM9         |               |
|            | 48/60VAC/DC   | KT8EM7         |               |
|            | 100/130VAC/DC | KT8EM5         |               |
|            | 220/250VAC/DC | KT8EM3         |               |

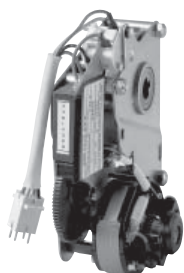
**Signaling Contacts**

| Frame Size | Voltage                                                | Part<br>Number | List<br>Price |
|------------|--------------------------------------------------------|----------------|---------------|
| T8         | 4 aux. cont. open/close PR331                          | KT8AS4         |               |
|            | 4 aux. cont. open/close PR332                          | KT8AS4-332     |               |
|            | 4 aux. cont. open/close for PR232-331 (low power <24V) | KT8AS4L        |               |
|            | 4 aux. cont. open/close for PR332 (low power <24V)     | KT8AS4L-332    |               |
|            | BA - bell alarm contact ( 1 form "c")                  | KT8ETBA        |               |
|            | BA + remote reset 24...30VAC/DC                        | KT8ETBAR9      |               |
|            | BA + remote reset 110...130VAC/DC                      | KT8ETBAR5      |               |
|            | BA + remote reset 220...240VAC/DC                      | KT8ETBAR4      |               |
|            | UVR de-energized contact - NC                          | KT8EUE10       |               |
|            | UVR de-energized contact - NO                          | KT8EUE01       |               |

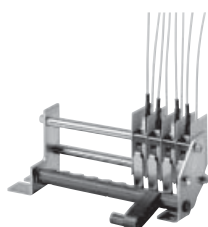
**Note:** 4 aux. cont. open/close supplied as standard with PR332 trip unit



1SDC200132F0001



1SDC200139F0001



1SDC200145F0001

# T8V

1600A / 2000A / 2500A / 3000A, 600VAC Δ  
Accessories

T8



1SDC200158F0001



1SDC200157F0001



1SDC200166F0001

## Locking Devices

| Frame Size | Description                                 | Part Number | List Price |
|------------|---------------------------------------------|-------------|------------|
| T8         | Key lock open position - different keys     | KT8KL-D     |            |
|            | Key lock open position - same key no. 20005 | KT8KL-20005 |            |
|            | Key lock open position - same key no. 20006 | KT8KL-20006 |            |
|            | Key lock open position - same key no. 20007 | KT8KL-20007 |            |
|            | Key lock open position - same key no. 20008 | KT8KL-20008 |            |
|            | Padlock device in open position             | KT8EPD1     |            |
|            | Padlock device in open position (HD)        | KT8EPDHD1   |            |
|            | Pushbuttons protection                      | KT8EPG      |            |

**Note:** KT8EPD1/KT8EPDHD1 are mutually exclusive with KT8EPG

## Connection Accessories

| Frame Size | Description                                     | Part Number | List Price |
|------------|-------------------------------------------------|-------------|------------|
| T8         | Cable terminals 1600A (1/0 - 750MCM) - kit of 3 | K8TL        |            |
|            | Cable terminals 2500A (1/0 - 750MCM) - kit of 3 | K8TM        |            |
|            | Rear T terminal (2500A max.) - kit of 6         | KT8VR2500   |            |
|            | Rear T terminal (2500A max.) - kit of 8         | KT8VR2500-4 |            |

**Note:** K8TL/K8TM requires the installation of KT8PBH-3

## Mechanical Accessories

| Frame Size | Description                                   | Part Number | List Price |
|------------|-----------------------------------------------|-------------|------------|
| T8         | Door flange                                   | KT8FCD      |            |
|            | IP54 protection cover (NEMA 3S/13)            | KT8EDC      |            |
|            | Separating partition low PB100 3 pole - 2pcs  | KT8PBL-3    |            |
|            | Separating partition low PB100 4 pole - 3pcs  | KT8PBL-4    |            |
|            | Separating partition high PB200 3 pole - 2pcs | KT8PBH-3    |            |
|            | Separating partition high PB200 4 pole - 2pcs | KT8PBH-4    |            |
|            | Mechanical operation counter                  | KT8EMC      |            |

## Accessories for Trip Units

| Frame Size | Description                                      | Part Number | List Price |
|------------|--------------------------------------------------|-------------|------------|
| T8         | Rating plug In=1000A                             | KT81000RP   |            |
|            | Rating plug In=1200A                             | KT81200RP   |            |
|            | Rating plug In=1600A                             | KT81600RP   |            |
|            | Rating plug In=2000A                             | KT82000RP   |            |
|            | Rating plug In=2500A                             | KT82500RP   |            |
|            | Rating plug In=3000A                             | KT83000RP   |            |
|            | PR330/V for PR332/P 3 pole (voltage measurement) | KT8PR330V-3 |            |
|            | PR330/V for PR332/P 4 pole (voltage measurement) | KT8PR330V-4 |            |
|            | PR330/D-M for PR332/P (MODBUS RTU communication) | KT8330DMOD  |            |
|            | PR030B - Battery power supply unit               | KT8EPR030B  |            |

## Current Sensor for External Neutral

| Frame Size | Description                          | Part Number | List Price |
|------------|--------------------------------------|-------------|------------|
| T8         | Current sensor neutral In=1000-3000A | KT8NCT-3000 |            |

**T8V**

1600A / 2000A / 2500A / 3000A, 600VAC Δ  
Part-Numbering System

**T8V****Locking Provisions:**

**A** = Keylock  
**B** = Button guard  
**C** = Padlock Provision  
**D** = A+B  
**E** = A+C  
**X** = None

**Accessories**

**X** = None  
**A** = Mechanical counter  
**B** = Bell Alarm  
**C** = Bell Alarm w/remote reset 24..30VAC/DC  
**D** = Bell Alarm w/remote reset 110..130VAC/DC  
**E** = Bell Alarm w/remote reset 220..240VAC/DC  
**F** = A+B  
**G** = A+C  
**H** = A+D  
**J** = A+E

**Undervoltage:**

**0** = None  
**A** = 24VDC  
**B** = 30VAC/DC  
**C** = 48VAC/DC  
**D** = 60VAC/DC  
**E** = 110..120VAC/DC  
**F** = 120..127VAC/DC  
**G** = 220..240VAC/DC  
**H** = 240..250VAC/DC  
**J** = 380..400VAC  
**K** = 440VAC

**Second shunt trip:**

**L** = 24VDC  
**M** = 30VAC/DC  
**N** = 48VAC/DC  
**P** = 60VAC/DC  
**Q** = 110..120VAC/DC  
**R** = 120..127VAC/DC  
**S** = 220..240VAC/DC  
**T** = 240..250VAC/DC  
**U** = 380..400VAC  
**V** = 440..480VAC

**Shunt Trip:**

**0** = none  
**A** = 24VDC  
**B** = 30VAC/DC  
**C** = 48VAC/DC  
**D** = 60VAC/DC  
**E** = 110..120VAC/DC  
**F** = 120..127VAC/DC  
**G** = 220..240VAC/DC  
**H** = 240..250VAC/DC  
**J** = 380VAC  
**K** = 440VAC

**Contacts<sup>1</sup>:**

**0** = None  
**A** = 4 aux contacts  
**B** = 4 aux. contacts digital (24V)  
**C** = UVR De-Energized NO  
**D** = UVR De-Energized NC  
**E** = A + D  
**F** = A + E  
**G** = B + E  
<sup>1</sup> 4 Aux. contacts supplied as standard with PR332.

**Spring Charging Motor:**

**0** = None  
**A** = 24..30VAC/DC  
**B** = 48..60VAC/DC  
**C** = 100..130VAC/DC  
**D** = 220..250VAC/DC

**Closing Coil:**

**0** = None  
**A** = 24VDC  
**B** = 30VAC/DC  
**C** = 48VAC/DC  
**D** = 60VAC/DC  
**E** = 110..120VAC/DC  
**F** = 120..127VAC/DC  
**G** = 220..240VAC/DC  
**H** = 240..250VAC/DC  
**J** = 380..400VAC  
**K** = 440VAC

**Trip Unit Accessories PR332/P only:**

**0** = None  
**B** = Voltage measuring module  
**C** = Modbus module

**Trip Unit:**

**C** = PR331/P-LSI  
**D** = Non-Automatic (MCS)  
**E** = PR331/P-LSIG  
**P** = PR332/P-LI  
**R** = PR332/P-LSI  
**S** = PR332/P-LSIG

**Rating Plug:**

**D** = 1000  
**E** = 1200  
**F** = 1600  
**G** = 2000  
**H** = 2500  
**J** = 3000  
**0** = Non-Automatic (MCS)

**Frame Amp Rating:**

**C** = 1600 (3P)  
**D** = 2000 (3P)  
**E** = 2500 (3P)  
**F** = 3000 (3P)  
**G** = 1600 (4P)  
**H** = 2000 (4P)  
**J** = 2500 (4P)  
**K** = 3000 (4P)

**Version:**

**B** = UL Fixed 80% rated

**Q** = UL Fixed 100% Rated

**0** = Fixed Non-Automatic (MCS)

**Breaking Capacity**

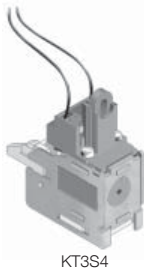
**V** (T8 UL)

# Accessories

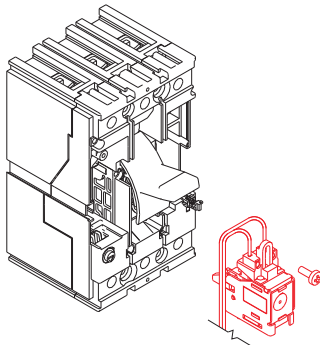
## Electrical

### T1-T6

Acc.



KT3S4



T1 with KT3S4

#### Shunt Trips (Standard)<sup>(1)</sup>

For remote opening of circuit breaker. Guaranteed operation for a voltage of between 75-110% of the rated power supply voltage. T1-T6 mounts in the left hand cavity cannot be used with UVR on 2-3P breakers

| Frame Size | Voltage         | Factory Installation <sup>(1)</sup> |                     | Field Installation |               |
|------------|-----------------|-------------------------------------|---------------------|--------------------|---------------|
|            |                 | Part Number<br>Suffix               | List Price<br>Adder | Part<br>Number     | List<br>Price |
| T1-T2-T3   | 480 - 500VAC    | S1                                  |                     | KT3S1              |               |
|            | 220-250VAC/DC   | S2                                  |                     | KT3S2              |               |
|            | 380 - 440VAC    | S3                                  |                     | KT3S3              |               |
|            | 110 - 125VAC/DC | S4                                  |                     | KT3S4              |               |
|            | 48 - 60VAC/DC   | S7                                  |                     | KT3S7              |               |
|            | 24 - 30VAC/DC   | S8                                  |                     | KT3S8              |               |
|            | 12VDC           | S9                                  |                     | KT3S9              |               |
|            | 480VAC/250VDC   | S1                                  |                     | KTs3S1             |               |
|            | 240 VAC         | S2                                  |                     | KTs3S2             |               |
| Ts3        | 120VAC/125VDC   | S4                                  |                     | KTs3S4             |               |
|            | 48VDC           | S7                                  |                     | KTs3S7             |               |
|            | 24VAC/VDC       | S8                                  |                     | KTs3S8             |               |
|            | 12VDC           | S9                                  |                     | KTs3S9             |               |
|            | 480-500VAC      | S1                                  |                     | KT6S1              |               |
| T4-T5-T6   | 220/250VAC/DC   | S2                                  |                     | KT6S2              |               |
|            | 380-440VAC      | S3                                  |                     | KT6S3              |               |
|            | 110-125VAC/DC   | S4                                  |                     | KT6S4              |               |
|            | 48-60VAC/DC     | S7                                  |                     | KT6S7              |               |
|            | 24VAC/DC        | S8                                  |                     | KT6S8              |               |
|            | 12VDC           | S9                                  |                     | KT6S9              |               |

#### Shunt Trips (Permanent Supply)<sup>(1)</sup>

For remote opening of circuit breaker. Guaranteed operation for a voltage of between 75-110% of the rated power supply voltage. These shunt trips have much lower power consumption.

| Frame Size | Voltage     | Factory Installation <sup>(1)</sup> |                     | Field Installation |               |
|------------|-------------|-------------------------------------|---------------------|--------------------|---------------|
|            |             | Part Number<br>Suffix               | List Price<br>Adder | Part<br>Number     | List<br>Price |
| Ts3        | 24VDC       | SA                                  |                     | KTs3SP4            |               |
|            | 120VAC      | SB                                  |                     | KTs3SP8            |               |
| T4-T5-T6   | 24-30VDC    | SP4                                 |                     | KT6SP4             |               |
|            | 110/120/VAC | SP8                                 |                     | KT6SP8             |               |

#### Shunt Trip Connector (Required for Ts3) <sup>(2)</sup>

|     |                         |                                    |           |  |
|-----|-------------------------|------------------------------------|-----------|--|
| Ts3 | Fixed Mount<br>Draw-out | Not required for factory installed | KTs3C-SU  |  |
|     |                         | Not required for factory installed | KTs3C-SUP |  |

(1) Add suffix to circuit breaker part number. See p.4 for more details.  
(2) Must be ordered separately for field installation.

## Accessories

### Electrical T1-T6



KT3U2

#### Undervoltage Release - UVR

Will trip circuit breaker when connected voltage drops to 35-70% of the undervoltage release voltage rating. Will allow circuit breaker to close when voltage is approximately 85% of the rated voltage. T1-T6 mounts in the left hand cavity cannot be used with shunt trip on 2-3P breakers

| Frame Size | Voltage         | Factory Installation <sup>(1)</sup> |                     | Field Installation |               |
|------------|-----------------|-------------------------------------|---------------------|--------------------|---------------|
|            |                 | Part Number<br>Suffix               | List Price<br>Adder | Part<br>Number     | List<br>Price |
| T1-T2-T3   | 480 - 500VAC    | U1                                  |                     | KT3U1              |               |
|            | 220-250VAC/DC   | U2                                  |                     | KT3U2              |               |
|            | 380 - 440VAC    | U3                                  |                     | KT3U3              |               |
|            | 110 - 125VAC/DC | U4                                  |                     | KT3U4              |               |
|            | 60VAC/DC        | U5                                  |                     | KT3U5              |               |
|            | 48VAC/DC        | U7                                  |                     | KT3U7              |               |
|            | 24 - 30VAC/DC   | U8                                  |                     | KT3U8              |               |
|            |                 |                                     |                     |                    |               |
| Ts3        | 480VAC          | U1                                  |                     | KTs3U1             |               |
|            | 240VAC          | U2                                  |                     | KTs3U2             |               |
|            | 24VAC           | U3                                  |                     | KTs3U3             |               |
|            | 120VAC          | U4                                  |                     | KTs3U4             |               |
|            | 250VDC          | U5                                  |                     | KTs3U5             |               |
|            | 125VDC          | U6                                  |                     | KTs3U6             |               |
|            | 48VDC           | U7                                  |                     | KTs3U7             |               |
|            | 24VDC           | U8                                  |                     | KTs3U8             |               |
| T4-T5-T6   | 480-500VAC      | U1                                  |                     | KT6U1              |               |
|            | 220/250VAC/DC   | U2                                  |                     | KT6U2              |               |
|            | 380-440VAC      | U3                                  |                     | KT6U3              |               |
|            | 110-125VAC/DC   | U4                                  |                     | KT6U4              |               |
|            | 60VAC/DC        | U5                                  |                     | KT6U5              |               |
|            | 48VAC/DC        | U7                                  |                     | KT6U7              |               |
|            | 24VAC/DC        | U8                                  |                     | KT6U8              |               |
|            |                 |                                     |                     |                    |               |

#### Undervoltage Trip Connector (Required for Ts3) <sup>(2)</sup>

|     |                  |                                    |           |  |
|-----|------------------|------------------------------------|-----------|--|
| Ts3 | Fixed Mount      | Not required for factory installed | KTs3C-SU  |  |
|     | Plug-In/Draw-out | Not required for factory installed | KTs3C-SUP |  |

(1) Add suffix to circuit breaker part number. See p.4 for more details.

(2) Must be ordered separately for field installation.

# Accessories

## Electrical

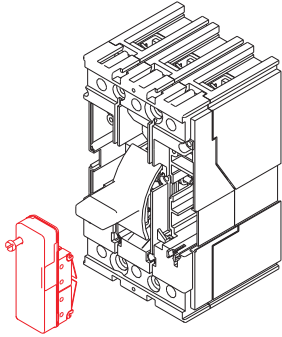
### T1-T6

Acc.

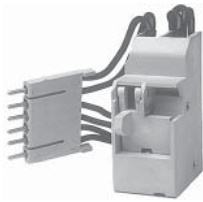
#### Auxiliary Contacts - AUX <sup>(1)</sup>

Auxiliary contacts are for indication of the circuit breaker open-closed. Bell alarm contacts (BA) can be used to indicate circuit breaker tripped.

| Frame Size              |                                         | Factory Installation  |                     | Field Installation |               |
|-------------------------|-----------------------------------------|-----------------------|---------------------|--------------------|---------------|
|                         |                                         | Part Number<br>Suffix | List Price<br>Adder | Part<br>Number     | List<br>Price |
| T1-T2-T3 <sup>(2)</sup> | 1 AUX "C" + 1 BA "C" 250VAC/DC          | A                     |                     | KT3AS              |               |
|                         | 3 AUX "C" + 1 BA "C" 250VAC/DC          | A3                    |                     | KT3AS3             |               |
| T2 <sup>(3)</sup>       | 2 AUX "C" + 1 BA "C" PR221DS            | AE                    |                     | KT2AS-E            |               |
|                         | 1 AUX "C" + 1 BA "C" + 1S51 "C" PR221DS | AE2                   |                     | KT2AS-E2           |               |
| Ts3                     | 2 AUX "C" 250VAC/DC                     | A                     |                     | KTs3AS             |               |
|                         | 1 AUX "C" + 1 BA "C" 250VAC/DC          | BA                    |                     | KTs3BA             |               |
| T4-T5-T6                | 1 AUX "C" + 1 BA "C" 250VAC/DC          | A                     |                     | KT6AS              |               |
|                         | 2 AUX "C" 400VAC                        | A2                    |                     | KT6AS2             |               |
|                         | 3 AUX "C" + 1 BA "C" 250VAC/DC          | A3                    |                     | KT6AS3             |               |
|                         | 3 AUX "C" + 1 BA "C" 24VDC              | A3L                   |                     | KT6AS3L            |               |



T1 with K3TAS



KTs3AS

#### Auxiliary Contact Connector (Required for Ts3) <sup>(4)</sup>

|     |                           |                                    |           |  |
|-----|---------------------------|------------------------------------|-----------|--|
| Ts3 | Fixed<br>Plug-In /Drawout | Not required for factory install   | C-AB      |  |
|     |                           | Not required for factory installed | KTs3C-ABP |  |

<sup>(1)</sup> Add suffix to circuit breaker part number. See p.4 for more details.

<sup>(2)</sup> Not compatible for T2 with PR221DS trip unit.

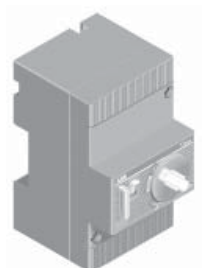
<sup>(3)</sup> For installation on T2 with PR221DS electronic trip unit

<sup>(4)</sup> Must be ordered separately for field installation.

## Accessories

### Motor Operators

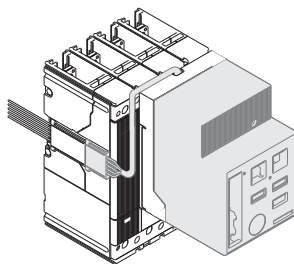
#### T1-T6



KT3M1



KT5M2



KT5M2



KTS3M2

#### Electrical Operators

Allows remote opening and closing of circuit breaker

| Frame Size | Voltage | Part Number | List Price |
|------------|---------|-------------|------------|
|------------|---------|-------------|------------|

#### Solenoid Operator

|          |                 |       |  |
|----------|-----------------|-------|--|
| T1-T2-T3 | 48 - 60VDC      | KT3M1 |  |
|          | 110 - 250VAC/DC | KT3M2 |  |

#### Direct Action Motor Operator

|     |               |        |  |
|-----|---------------|--------|--|
| Ts3 | 240VAC/250VDC | KTs3M2 |  |
|     | 120VAC/125VDC | KTs3M4 |  |
|     | 48VDC         | KTs3M7 |  |
|     | 24VDC         | KTs3M8 |  |

#### Motor Operator Connector (Required for Ts3) <sup>(1)</sup>

|     |                    |          |  |
|-----|--------------------|----------|--|
| Ts3 | Fixed Mount        | KTS3C-M  |  |
|     | Plug-In / Draw-out | KTS3C-MP |  |

#### Stored Energy Motor Operator

|       |                 |       |  |
|-------|-----------------|-------|--|
| T4-T5 | 220-250VAC/DC   | KT5M2 |  |
|       | 110--125-VAC/DC | KT5M4 |  |
|       | 48-60VDC        | KT5M7 |  |
|       | 24VDC           | KT5M8 |  |
|       | 380VAC          | KT5M3 |  |

#### Stored Energy Motor Operator

|    |                 |       |  |
|----|-----------------|-------|--|
| T6 | 220-250VAC/DC   | KT6M2 |  |
|    | 110--125-VAC/DC | KT6M4 |  |
|    | 48-60VDC        | KT6M7 |  |
|    | 24VDC           | KT6M8 |  |
|    | 380VAC          | KT6M3 |  |

#### Stored Energy Motor With Communication (IEC)

|       |               |         |  |
|-------|---------------|---------|--|
| T4-T5 | 220-250VAC/DC | KT5M2-E |  |
|       | 380VAC        | KT5M3-E |  |
|       | 110-125VAC/DC | KT5M4-E |  |
|       | 48-60VDC      | KT5M7-E |  |
|       | 24VDC         | KT5M8-E |  |
| T6    | 220-250VAC/DC | KT6M2-E |  |
|       | 380VAC        | KT6M3-E |  |
|       | 110-125VAC/DC | KT6M4-E |  |
|       | 48-60VDC      | KT6M7-E |  |
|       | 24VDC         | KT6M8-E |  |

#### Dry Contact for Remote/Manual Operation

|          |   |       |  |
|----------|---|-------|--|
| T4-T5-T6 | - | KT6MA |  |
|----------|---|-------|--|

(1) Must be ordered separately for field installation



## Accessories

### Trip Units

Acc.



KT5FDU

#### Neutral Current Transformers (Required for 4-Wire Ground Fault Systems)

| Frame Size |      | Part Number | List Price |
|------------|------|-------------|------------|
| T4         | 100A | KT4NCT-100  |            |
|            | 150A | KT4NCT-150  |            |
|            | 250A | KT4NCT-250  |            |
| T5         | 300A | KT5NCT-300  |            |
|            | 400A | KT5NCT-400  |            |
|            | 600A | KT5NCT-600  |            |
| T6         | 600A | KT6NCT-600  |            |
|            | 800A | KT6NCT-800  |            |

**Note:** X4 connector required for T4 - T5 - T6

#### Connector for PR22DS

|              | Fixed Circuit-Breaker |            | Plug-in or Draw-Out Circuit-Breaker |            |
|--------------|-----------------------|------------|-------------------------------------|------------|
|              | Part Number           | List Price | Part Number                         | List Price |
| T4-T5-T6     |                       |            |                                     |            |
| X3 Connector | KT6CX3                |            | KT6CX3-P                            |            |
| X4 Connector | KT6CX4                |            | KT6CX4-P                            |            |

#### Front Display Unit

|                                   | Used with High Profile Cover | List Price |
|-----------------------------------|------------------------------|------------|
| T4-T5 with PR22DS/P or PR222DS/PD | KT5FDU                       |            |
| T6 with PR22DS/P or PR222DS/PD    | KT6FDU                       |            |

## Technical Data

### Shunt Trips/Undervoltages

#### Standard Shunt Trip

| Voltage                     | Inrush Power Consumption |        |                         |                         |          |        |         |        |
|-----------------------------|--------------------------|--------|-------------------------|-------------------------|----------|--------|---------|--------|
|                             | T1,T2,T3                 |        | Ts3                     |                         | T4,T5,T6 |        | T7      |        |
|                             | AC (VA)                  | DC (W) | AC (VA)                 | DC (W)                  | AC (VA)  | DC (W) | AC (VA) | DC (W) |
| 12 VDC                      | -                        | 50     | -                       | 120                     | -        | 150    | -       | -      |
| 24 VAC/DC                   | -                        | -      | 100                     | 100 or 4 <sup>(1)</sup> | -        | -      | 300     | 300    |
| 24...30 VAC/DC              | 50                       | 50     | -                       | -                       | 150      | 150    | -       | -      |
| 30 VAC/DC                   | -                        | -      | -                       | -                       | -        | -      | 300     | 300    |
| 48 VAC/DC                   | -                        | -      | -                       | 120                     | -        | -      | 300     | 300    |
| 48...60 VAC/DC              | 60                       | 60     | -                       | -                       | 150      | 150    | -       | -      |
| 60 VAC/DC                   | -                        | -      | -                       | -                       | -        | -      | 300     | 300    |
| 100...120 VAC/DC            | -                        | -      | 100 or 4 <sup>(1)</sup> | -                       | -        | -      | 300     | 300    |
| 120...127 VAC/DC            | -                        | -      | -                       | -                       | -        | -      | 300     | 300    |
| 110...127 VAC 110...125 VDC | 50                       | 50     | -                       | 120                     | 150      | 150    | -       | -      |
| 220...240 VAC/DC            | -                        | -      | -                       | -                       | -        | -      | 300     | 300    |
| 220...240 VAC 220...250 VDC | 50                       | 50     | 100                     | 120                     | 150      | 150    | -       | -      |
| 240...250 VAC/DC            | -                        | -      | -                       | -                       | -        | -      | 300     | 300    |
| 380...400 VAC               | -                        | -      | -                       | -                       | -        | -      | 300     | -      |
| 380...440 VAC               | 55                       | -      | -                       | -                       | 150      | -      | -       | -      |
| 415...440 VAC               | -                        | -      | -                       | -                       | -        | -      | 300     | -      |
| 480 VAC                     | -                        | -      | 100                     | -                       | -        | -      | -       | -      |
| 480...525 VAC               | 55                       | -      | -                       | -                       | 150      | -      | -       | -      |
| Opening Time (ms)           | 15                       | 15     | ≤15                     | ≤15                     | 15       | 15     | 20      | 20     |

#### Permanent Supply Shunt Trip

| Voltage       | T4,T5,T6 |        |
|---------------|----------|--------|
|               | AC (VA)  | DC (W) |
| 24 VAC/DC     | 4        | 4      |
| 100...120 VAC | 4        | -      |

#### Undervoltage

| Voltage                     | Power Consumption During Permanent Operation |        |         |        |            |        |         |        |
|-----------------------------|----------------------------------------------|--------|---------|--------|------------|--------|---------|--------|
|                             | T1,T2,T3                                     |        | Ts3     |        | T4, T5, T6 |        | T7      |        |
|                             | AC (VA)                                      | DC (W) | AC (VA) | DC (W) | AC (VA)    | DC (W) | AC (VA) | DC (W) |
| 24 VAC/DC                   | -                                            | -      | 6       | 3      | -          | -      | 3.5     | 3.5    |
| 24...30 VAC/DC              | 1.5                                          | 1.5    | -       | -      | 6          | 3      | -       | -      |
| 30 VAC/DC                   | -                                            | -      | -       | -      | -          | -      | 3.5     | 3.5    |
| 48 VAC/DC                   | 1                                            | 1      | 6       | 3      | 6          | 3      | -       | -      |
| 60 VAC/DC                   | 1                                            | 1      | -       | -      | 6          | 3      | -       | -      |
| 110...120 VAC/DC            | -                                            | -      | 6       | -      | -          | -      | 3.5     | 3.5    |
| 120...127 VAC/DC            | -                                            | -      | -       | -      | -          | -      | 3.5     | 3.5    |
| 110...127 VAC 110...125 VDC | 2                                            | 2      | -       | -      | 6          | 3      | -       | -      |
| 220...240 VAC/DC            | -                                            | -      | -       | -      | -          | -      | 3.5     | 3.5    |
| 220...240 VAC 220...250 VDC | 2.5                                          | 2.5    | -       | 3      | 6          | 3      | -       | -      |
| 220...250 VAC               | -                                            | -      | 6       | -      | -          | -      | -       | -      |
| 240...250 VAC/DC            | -                                            | -      | -       | -      | -          | -      | 3.5     | 3.5    |
| 380...400 VAC               | -                                            | -      | -       | -      | -          | -      | 3.5     | -      |
| 380...440 VAC               | 3                                            | -      | -       | -      | 6          | -      | -       | -      |
| 415 - 440 VAC               | -                                            | -      | -       | -      | -          | -      | 3.5     | -      |
| 480...525 VAC               | 4                                            | -      | -       | -      | 6          | -      | -       | -      |
| 480 VAC                     | -                                            | -      | 6       | -      | -          | -      | -       | -      |
| Opening Time (ms)           | 15                                           | 15     | ≤18     | ≤18    | ≤25        | ≤25    | ≤25     | ≤25    |

(1) Shunt trip permanent supply

## Technical Data

### Electrical Operators

Acc.

#### Electrical Operator, T1-T3

| Rated Voltage                                            |             | AC           | DC        |
|----------------------------------------------------------|-------------|--------------|-----------|
|                                                          |             | -            | 48...60   |
|                                                          |             | 110...250    | 110...250 |
| Operating Voltage                                        |             | 85...110% Un |           |
| Inrush power absorption during operation                 |             | 1800 (VA)    | 1000 (W)  |
| Power on stand by                                        |             | < 100 (mW)   |           |
| Time                                                     | opening (s) | < 0.1        |           |
|                                                          | closing (s) | < 0.1        |           |
| Minimum control impulse time on opening and closing (ms) |             | >100         |           |

This unit is permanently supplied on stand by, a control is applied by means of external contact in a low power circuit.

Contact characteristics: Voltage AC/DC=24V  
Current 50 mA

#### Electrical Operator, Ts3

| Rated Voltage                                                    |             | AC            | DC      |
|------------------------------------------------------------------|-------------|---------------|---------|
|                                                                  |             | -             | 24      |
|                                                                  |             | -             | 48...60 |
|                                                                  |             | 120           | 125     |
|                                                                  |             | 240           | 250     |
|                                                                  |             | 440           | -       |
| Operating Voltage                                                |             | 85...110 % Un |         |
| Inrush power absorption                                          |             | 500 (VA)      | 500 (W) |
| Service power absorption                                         |             | 350 (VA)      | 350 (W) |
| Time constant (ms)                                               |             | 18            |         |
| Duration                                                         | opening (s) | 0.1           |         |
|                                                                  | closing (s) | 0.1           |         |
| Minimum duration of the opening and closing command impulse (ms) |             | ≥150          |         |

#### Electrical Operator, T4-T5

| Voltage                                                          |               | AC        | DC        |
|------------------------------------------------------------------|---------------|-----------|-----------|
|                                                                  |               | -         | 24        |
|                                                                  |               | -         | 48...60   |
|                                                                  |               | 110...125 | 110...125 |
|                                                                  |               | 220-250   | 220-250   |
|                                                                  |               | 380       | -         |
| Operating Voltage                                                |               | 85...110% |           |
| Inrush power consumption                                         |               | ≤ 300VA   | ≤ 300W    |
| In service power consumption                                     |               | ≤150VA    | ≤150W     |
| Duration                                                         | opening (s)   | 1.5       |           |
|                                                                  | closing (s)   | < 0.1     |           |
|                                                                  | resetting (s) | 3         |           |
| Minimum duration of the opening and closing command impulse (ms) |               | ≥100      |           |

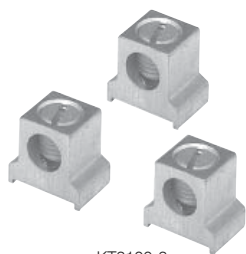
#### Electrical Operator, T6

| Voltage                                                          |               | AC        | DC      |
|------------------------------------------------------------------|---------------|-----------|---------|
|                                                                  |               | -         | 24      |
|                                                                  |               | -         | 48...60 |
|                                                                  |               | 110-125   | 110-125 |
|                                                                  |               | 220-250   | 220-250 |
|                                                                  |               | 380       | -       |
| Operating Voltage                                                |               | 85...110% |         |
| Inrush power consumption                                         |               | ≤ 400VA   | ≤ 400W  |
| In service power consumption                                     |               | ≤150VA    | ≤150W   |
| Duration                                                         | opening (s)   | 3         |         |
|                                                                  | closing (s)   | < 0.1     |         |
|                                                                  | resetting (s) | 5         |         |
| Minimum duration of the opening and closing command impulse (ms) |               | ≥100      |         |

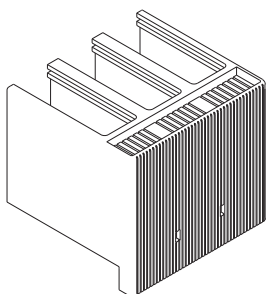
## Accessories

### Mechanical

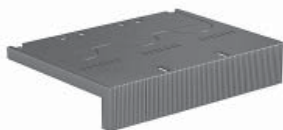
### T1-T6



KT3100-3



KT1HTC-3



KT4LTC-3

#### Standard Cable Terminal

| Frame             | Wire Size                                                                         | Part Number<br>(set of 3)           | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|-------------------|-----------------------------------------------------------------------------------|-------------------------------------|---------------|---------------------------|---------------|
| T1                | 100A (14 AWG-1/0)                                                                 | Integral                            |               | Integral                  |               |
| T2                | 100A (14 AWG-1/0)                                                                 | KT2100-3                            |               | KT2100-4                  |               |
| T3                | 100A (14 AWG - 1/0 kcmil)<br>225A (4 AWG - 350 kcmil)                             | KT3100-3<br>KT3225-3                |               | KT3100-4<br>KT3225-4      |               |
| Ts3               | 100A (14 AWG - 1/0 kcmil)<br>150A (2 AWG - 4/0 kcmil)<br>225A (4 AWG - 300 kcmil) | KTs3100-3<br>KTs3150-3<br>KTs3225-3 |               | —<br>—<br>—               |               |
| T4                | 100A (14 AWG - 1/0 kcmil)<br>250A (6 AWG - 350 kcmil)                             | KT4100-3<br>KT4250-3                |               | KT4100-4<br>KT4250-4      |               |
| T5                | 300A (250 kcmil - 500 kcmil)                                                      | KT5300-3                            |               | KT5300-4                  |               |
| T5 <sup>(1)</sup> | 400A (2x 3/0 - 2x 250 kcmil)                                                      | KT5400-3                            |               | KT5400-4                  |               |
| T5                | 600A (2x 3/0 - 2x 500 kcmil)                                                      | KT5600-3                            |               | —                         |               |
| T6                | 600A (2x 250 - 2x 500 kcmil)                                                      | KT6600-3                            |               | —                         |               |
| T6 <sup>(1)</sup> | 800A (3x 2/0 - 3x 400 kcmil)                                                      | KT6800-3                            |               | —                         |               |

**Note:** for power control tap lugs, please consult your local ABB office

#### Terminal Cover Seals

| Frame                  | Part Number<br>(3-Pole) | List<br>Price |
|------------------------|-------------------------|---------------|
| T1 - T2 - T3 - T4 - T5 | KT5LC-S                 |               |

#### Terminal Covers for Fixed Breakers - Low Profile-Kit (kit of 2)

| Frame | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|-------|-------------------------|---------------|-------------------------|---------------|
| T1    | KT1LTC-3                |               | KT1LTC-4                |               |
| T2    | KT2LTC-3                |               | KT2LTC-4                |               |
| T3    | KT3LTC-3                |               | KT3LTC-4                |               |
| Ts3   | KTs3LTC-3               |               | KTs3LTC-4               |               |
| T4    | KT4LTC-3                |               | KT4LTC-4                |               |
| T5    | KT5LTC-3                |               | KT5LTC-4                |               |
| T6    | KT6LTC-3                |               | KT6LTC-4                |               |

#### Terminal Covers for Fixed Breakers - High Profile-Kit (kit of 2)

| Frame | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|-------|-------------------------|---------------|-------------------------|---------------|
| T1    | KT1HTC-3                |               | KT1HTC-4                |               |
| T2    | KT2HTC-3                |               | KT2HTC-4                |               |
| T3    | KT3HTC-3                |               | KT3HTC-4                |               |
| Ts3   | KTs3HTC-3               |               | KTs3HTC-4               |               |
| T4    | KT4HTC-3                |               | KT4HTC-4                |               |
| T5    | KT5HTC-3                |               | KT5HTC-4                |               |
| T6    | KT6HTC-3                |               | KT6HTC-4                |               |

#### Terminal Cover Fixed Part of CB (Kit of 2)

| Frame | Part Number<br>(3-Pole) | List<br>Price | Part Number<br>(4-Pole) | List<br>Price |
|-------|-------------------------|---------------|-------------------------|---------------|
| Ts3   | KTs3TCFP-3              |               | KTs3TCFP-4              |               |
| T4    | KT4TCFP-3               |               | KT4TCFP-4               |               |
| T5    | KT5TCFP-3               |               | KT5TCFP-4               |               |

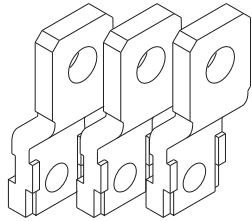
(1) Comes standard with high profile terminal covers.

# Accessories

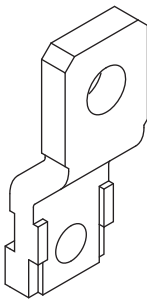
## Mechanical

### T1-T6

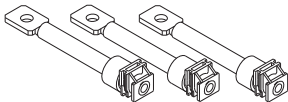
Acc.



KT2EF-3



KT4EF



KT2R-3

#### Phase Barriers - Low Profile 100mm - 3.93 in

| Frame | Part Number<br>(set of 4) | List<br>Price | Part Number<br>(set of 6) | List<br>Price |
|-------|---------------------------|---------------|---------------------------|---------------|
| T1-T3 | KT3PBL-3                  |               | KT3PBL-4                  |               |
| T4-T5 | KT5PBL-3                  |               | KT5PBL-4                  |               |
| T6    | KT6PBL-3                  |               | KT6PBL-4                  |               |

#### Phase barriers - High Profile 200mm - 7.87 in

| Frame | Part Number<br>(set of 4) | List<br>Price | Part Number<br>(set of 6) | List<br>Price |
|-------|---------------------------|---------------|---------------------------|---------------|
| T1-T3 | KT3PBH-3                  |               | KT3PBH-4                  |               |
| T4-T5 | KT5PBH-3                  |               | KT5PBH-4                  |               |

#### Saddle Terminals for Copper Cables - IEC

| Frame | Part Number<br>(set of 3) | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|-------|---------------------------|---------------|---------------------------|---------------|
| T2    | KT2100S-3                 |               | KT2100S-4                 |               |
| T3    | KT3225S-3                 |               | KT3225S-4                 |               |
| Ts3   | K4TES                     |               | K4TES-4                   |               |
| T4    | KT4250S-3                 |               | KT4250S-4                 |               |
| T5    | KT5300S-3                 |               | KT5300S-4                 |               |

#### Extended Front Terminals - IEC

| Frame | Part Number<br>(set of 3) | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|-------|---------------------------|---------------|---------------------------|---------------|
| T2    | KT2EF-3                   |               | KT2EF-4                   |               |
| T3    | KT3EF-3                   |               | KT3EF-4                   |               |
| Ts3   | KTs3EF-3                  |               | KTs3EF-4                  |               |
| T4    | KT4EF                     |               | KT4EF-4                   |               |
| T5    | KT5EF                     |               | KT5EF-4                   |               |
| T6    | KT6EF-3                   |               | KT6EF-4                   |               |

#### Rear Terminals - IEC

| Frame | Part Number<br>(set of 3) | List<br>Price | Part Number<br>(set of 4) | List<br>Price |
|-------|---------------------------|---------------|---------------------------|---------------|
| T2    | KT2R-3                    |               | KT2R-4                    |               |
| T3    | KT3R-3                    |               | KT3R-4                    |               |
| T4    | KT4R-3                    |               | KT4R-4                    |               |
| T5    | KT5R-3                    |               | KT5R-4                    |               |
| T6    | KT6R-3                    |               | KT6R-4                    |               |

(1) Includes high profile terminal cover.

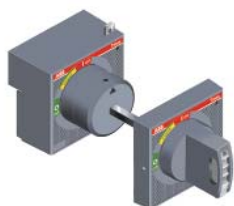
## Accessories

### Mechanical T1-T6

### Locking Devices and Handle Operators



OHB65J6



KT5VD-M, KT5VD-S, KT5VD-H



KT5RH

#### Variable Depth Handle Operators

| Frame    | NEMA Rating | Mechanism Part Number | List Price | Shaft Part Number | List Price         | Handle Part Number | List Price |
|----------|-------------|-----------------------|------------|-------------------|--------------------|--------------------|------------|
| T1-T2-T3 | 1, 3R, 12   | KT3VD-M               |            | OXp6X430 (16.9")  |                    | OHB65J6<br>OHY65J6 |            |
|          | 4, 4X       |                       |            |                   | OHB80L6<br>OHY80L6 |                    |            |
|          | 1           |                       |            |                   | KT3VD-S (11.8")    |                    | KT3VD-H    |
| Ts3      | 1, 3R, 12   | KTs3VD-M              |            | OXp10X500 (19.7") |                    | OHB125J10X         |            |
|          | 4, 4X       |                       |            |                   | OHB125L10          |                    |            |
|          | 1           |                       |            |                   | KTs3VD-S (20")     |                    | KTs3VD-H   |
| T4-T5    | 1, 3R, 12   | KT5VD-M               |            | OXp10X500 (19.7") |                    | OHB125J10X         |            |
|          | 4, 4X       |                       |            |                   | OHB125L10          |                    |            |
|          | 1           |                       |            |                   | KT5VD-S (19.7")    |                    |            |
| T6       | 1, 3R, 12   | KT6VD-M               |            | OXp10X500 (19.7") |                    | OHB125J10X         |            |
|          | 4, 4X       |                       |            |                   | OHB125L10          |                    |            |
|          | 1           |                       |            |                   | KT5VD-S (19.7")    |                    | KT6VD-H    |

**Note:** Discount schedule DS-H applies for part-numbers starting with OH and OX

#### Direct Mount Rotary

| Frame    | Breaker Mounting | Part Number | List Price |
|----------|------------------|-------------|------------|
| T1-T2-T3 | Fixed, Plug-In   | KT3RH       |            |
| Ts3      | Fixed, Plug-In   | KTs3RH      |            |
| Ts3      | Draw-Out         | KTs3RHW     |            |
| T4-T5    | Fixed, Plug-In   | KT5RH       |            |
| T4-T5    | Draw-Out         | KT5RHW      |            |
| T6       | Fixed, Plug-In   | KT6RH       |            |
| T6       | Draw-Out         | KT6RHW      |            |

#### Early Make Contact

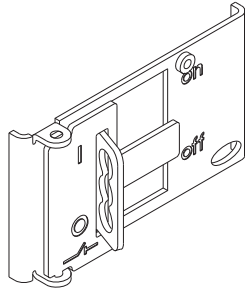
| Frame | Part Number | List Price |
|-------|-------------|------------|
| T2-T3 | KT3EM       |            |
| T4-T5 | KT5EM       |            |
| T6    | KT6EM       |            |

## Accessories

### Mechanical T1-T6

### Locking Devices and Handle Operators

Acc.



KT3LD



KT5KL-D

#### Padlock Locking Device

| Frame    | Style | Locking Position    | Breaker Mounting           | Part Number        | List Price |
|----------|-------|---------------------|----------------------------|--------------------|------------|
| T1-T2-T3 | PLL   | OPEN/CLOSED<br>OPEN | Fixed                      | KT3LD<br>KT3LDO    |            |
| Ts3      | FLD   | OPEN                | Fixed, Plug-In<br>Draw-Out | KTs3FLD<br>KTs3LDW |            |
| T4-T5    | FLD   | OPEN                | Fixed, Plug-In<br>Draw-out | KT5FLD<br>KT5FLDW  |            |
| T6       | FLD   | OPEN                | Fixed, Plug-In<br>Draw-out | KT6FLD<br>KT6FLDW  |            |

#### Keylocks for the Rotary Handle Mechanism

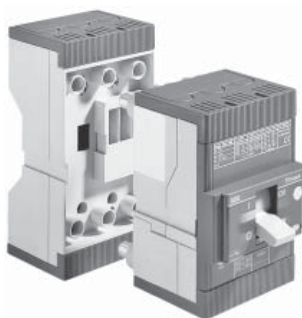
| Frame    | Style                                     | Locking Position                     | Keys                                                                                      | Part Number                                                                 | List Price |
|----------|-------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------|
| T1-T2-T3 | RHL                                       | OPEN/CLOSED                          | Different                                                                                 | KT3RHL3                                                                     |            |
| Ts3      | -                                         | OPEN                                 | Different<br>Same                                                                         | KTs3KLFD<br>KTs3KLFD-2                                                      |            |
| T4-T5    | KLF-D<br>KLF-S<br>KLF-S<br>KLF-S<br>KLF-S | OPEN<br>OPEN<br>OPEN<br>OPEN<br>OPEN | Different<br>Same key # 20005<br>Same key # 20006<br>Same key # 20007<br>Same key # 20008 | KT5KL-D<br>KT5KL-20005<br>KT5KL-20006<br>KT5KL-20007<br>KT5KL-20008         |            |
| T6       | KLF-D<br>KLF-S<br>KLF-S<br>KLF-S<br>KLF-S | OPEN<br>OPEN<br>OPEN<br>OPEN<br>OPEN | Different<br>Same key # 20005<br>Same key # 20006<br>Same key # 20007<br>Same key # 20008 | KT6KLFD<br>KT6KLFS-20005<br>KT6KLFS-20006<br>KT6KLFS-20007<br>KT6KLFS-20008 |            |

#### Keylocks for the Motor Operator

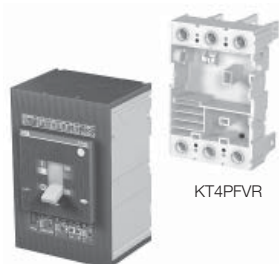
| Frame | Style                                     | Locking Position                     | Keys                                                                                      | Part Number                                                                        | List Price |
|-------|-------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------|
| T4-T5 | MOL-D<br>MOL-S<br>MOL-S<br>MOL-S<br>MOL-S | OPEN<br>OPEN<br>OPEN<br>OPEN<br>OPEN | Different<br>Same key # 20005<br>Same key # 20006<br>Same key # 20007<br>Same key # 20008 | KT5KL-MO-D<br>KT5KL-MO-20005<br>KT5KL-MO-20006<br>KT5KL-MO-20007<br>KT5KL-MO-20008 |            |
| T6    | MOL-D<br>MOL-S<br>MOL-S<br>MOL-S<br>MOL-S | OPEN<br>OPEN<br>OPEN<br>OPEN<br>OPEN | Different<br>Same key # 20005<br>Same key # 20006<br>Same key # 20007<br>Same key # 20008 | KT6KL-MO-D<br>KT6KL-MO-20005<br>KT6KL-MO-20006<br>KT6KL-MO-20007<br>KT6KL-MO-20008 |            |

## Accessories

### Mechanical T1-T6



KT2PFF + KT2PMK (on back of breaker) + breaker



KT4PMK (on back of breaker)

#### Plug-In Kits <sup>(1)</sup>

| Frame                                           | Part Number<br>Adapter Moving Part | List<br>Price | Part Number<br>Fixed Part | List<br>Price |
|-------------------------------------------------|------------------------------------|---------------|---------------------------|---------------|
| T2 - 3 pole with front terminals                | KT2PMK                             |               | KT2PFF                    |               |
| T2 - 4 pole with front terminals                | KT2PMK-4                           |               | KT2PFF-4                  |               |
| T3 - 3 pole with front terminals                | KT3PMK                             |               | KT3PFF                    |               |
| T3 - 4 pole with front terminals                | KT3PMK-4                           |               | KT3PFF-4                  |               |
| Ts3 - 3 pole with extended front terminals      |                                    |               | KTs3PFF                   |               |
| Ts3 - 3 pole with rear terminals                | KTs3PMK                            |               | KTs3PFR                   |               |
| Ts3 - 4 pole with extended front terminals      |                                    |               | KTs3PFF-4                 |               |
| Ts3 - 4 pole with rear terminals                | KTs3PMK-4                          |               | KTs3PFR-4                 |               |
| T4 - 3 pole with extended front terminals       |                                    |               | KT4PFEF                   |               |
| T4 - 3 pole with rear horizontal terminals      | KT4PMK                             |               | KT4PFHR                   |               |
| T4 - 3 pole with rear vertical terminals        |                                    |               | KT4PFVR                   |               |
| T4 - 3 pole with extended front terminals       |                                    |               | KT4PFEF-4                 |               |
| T4 - 3 pole with rear horizontal terminals      | KT4PMK-4                           |               | KT4PFHR-4                 |               |
| T4 - 3 pole with rear vertical terminals        |                                    |               | KT4PFVR-4                 |               |
| T5 400A - 3 pole with extended front terminals  |                                    |               | KT5PFEF                   |               |
| T5 400A - 3 pole with rear horizontal terminals | KT5PMK                             |               | KT5PFHR                   |               |
| T5 400A - 3 pole with rear vertical terminals   |                                    |               | KT5PFVR                   |               |
| T5 400A - 4 pole with extended front terminals  |                                    |               | KT5PFEF-4                 |               |
| T5 400A - 4 pole with rear horizontal terminals | KT5PMK-4                           |               | KT5PFHR-4                 |               |
| T5 400A - 4 pole with rear vertical terminals   |                                    |               | KT5PFVR-4                 |               |
| T5 600A - 3 pole with extended front terminals  |                                    |               | KT5PFEF6                  |               |
| T5 600A - 3 pole with rear horizontal terminals | KT5PMK6                            |               | KT5PFHR6                  |               |
| T5 600A - 3 pole with rear vertical terminals   |                                    |               | KT5PFVR6                  |               |
| T5 600A - 4 pole with extended front terminals  |                                    |               | KT5PFEF6-4                |               |
| T5 600A - 4 pole with rear horizontal terminals | KT5PMK6-4                          |               | KT56PFHR6-4               |               |
| T5 600A - 4 pole with rear vertical terminals   |                                    |               | KT56PFVR6-4               |               |

#### Plug Connectors, T2-T3 <sup>(1)</sup>

Required when adding accessories to plug-in breakers

| Plug Connector     | Part<br>Number | List<br>Price |
|--------------------|----------------|---------------|
| Shunt trip or UVR  | KT3PC-3        |               |
| 1 form C plus 1 BA | KT3PC-6        |               |
| 3 form C plus 1 BA | KT3PC-12       |               |

#### Adaptors, T4-T5-T6 <sup>(1)</sup>

Required when adding accessories to plug-in or drawout breakers

| Adaptors                                   | Part<br>Number | List<br>Price |
|--------------------------------------------|----------------|---------------|
| 1 form C plus 1 BA                         | KT6ADP-6       |               |
| Shunt trip/UVR                             | KT6ADP-5       |               |
| Stored energy operator                     | KT6ADP-10      |               |
| Stored energy operator plus shunt trip/UVR | KT6ADP-10      |               |
| 3 form C plus 1BA                          | KT6ADP-12      |               |

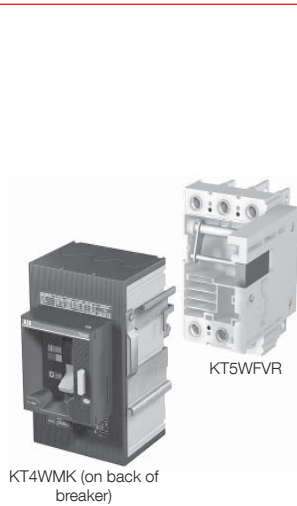
<sup>(1)</sup> Plug connectors (T2-T3), adaptors (T4-T5-T6), required when adding accessories to plug-in breakers.



## Accessories

### Mechanical T1-T6

Acc.



#### Draw-Out Kits

| Item                                            | Part Number<br>Adaptor Moving Part | List<br>Price | Part Number<br>Fixed Part | List<br>Price |
|-------------------------------------------------|------------------------------------|---------------|---------------------------|---------------|
| TS3 - 3 pole with front terminals               | KTs3WMK                            |               | KTs3WFF                   |               |
| TS3 - 3 pole with front cable terminals         |                                    |               | KTs3WFC                   |               |
| TS3 - 3 pole with rear terminals                |                                    |               | KTs3WFR                   |               |
| TS3 - 4 pole with front terminals               | KTs3WMK-4                          |               | KTs3WFF-4                 |               |
| TS3 - 4 pole with front cable terminals         |                                    |               | KTs3WFC-4                 |               |
| TS3 - 4 pole with rear terminals                |                                    |               | KTs3WFR-4                 |               |
| T4 - 3 pole with extended front terminals       | KT4WMK                             |               | KT4WFEF                   |               |
| T4 - 3 pole with rear horizontal terminals      |                                    |               | KT4WFHR                   |               |
| T4 - 3 pole with rear vertical terminals        |                                    |               | KT4WFVR                   |               |
| T4 - 4 pole with extended front terminals       | KT4WMK-4                           |               | KT4WFEF-4                 |               |
| T4 - 4 pole with rear horizontal terminals      |                                    |               | KT4WFHR-4                 |               |
| T4 - 4 pole with rear vertical terminals        |                                    |               | KT4WFVR-4                 |               |
| T5 - 400A 3 pole with extended front terminals  | KT5WMK                             |               | KT5WFEF                   |               |
| T5 - 400A 3 pole with rear horizontal terminals |                                    |               | KT5WFHR                   |               |
| T5 - 400A 3 pole with rear vertical terminals   |                                    |               | KT5WFVR                   |               |
| T5 - 400A 4 pole with front extended terminals  | KT5WMK-4                           |               | KT5WFEF-4                 |               |
| T5 - 400A 4 pole with rear horizontal terminals |                                    |               | KT5WFHR-4                 |               |
| T5 - 400A 4 pole with rear vertical terminals   |                                    |               | KT5WFVR-4                 |               |
| T5 - 600A 3 pole with extended front terminals  | KT5WMK6                            |               | KT5WFEF6                  |               |
| T5 - 600A 3 pole with rear horizontal terminals |                                    |               | KT5WFHR6                  |               |
| T5 - 600A 3 pole with rear vertical terminals   |                                    |               | KT5WFVR6                  |               |
| T5 - 600A 4 pole with extended front terminals  | KT5WMK6-4                          |               | KT5WFEF6-4                |               |
| T5 - 600A 4 pole with rear horizontal terminals |                                    |               | KT5WFHR6-4                |               |
| T5 - 600A 4 pole with rear vertical terminals   |                                    |               | KT5WFVR6-4                |               |
| T6 - 800A 3 pole with extended front terminals  | KT6WMK                             |               | KT6WFEF                   |               |
| T6 - 800A 3 pole with rear horizontal terminals |                                    |               | KT6WFHR                   |               |
| T6 - 800A 3 pole with rear vertical terminals   |                                    |               | KT6WFVR                   |               |
| T6 - 800A 4 pole with extended front terminals  | KT6WMK-4                           |               | KT6WFEF-4                 |               |
| T6 - 800A 4 pole with rear horizontal terminals |                                    |               | KT6WFHR-4                 |               |
| T6 - 800A 4 pole with rear vertical terminals   |                                    |               | KT6WFVR-4                 |               |

#### Adaptors — T4-T5-T6 <sup>(1)</sup>

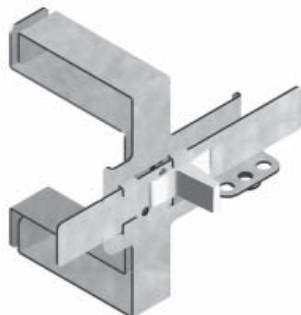
Required when adding accessories to plug-in or drawout breakers

| Adaptors                                   | Part<br>Number | List<br>Price |
|--------------------------------------------|----------------|---------------|
| 1 form C plus 1 BA                         | KT6ADP-6       |               |
| Shunt trip/UVR                             | KT6ADP-5       |               |
| Stored energy operator                     | KT6ADP-10      |               |
| Stored energy operator plus shunt trip/UVR | KT6ADP-10      |               |
| 3 form C plus 1BA                          | KT6ADP-12      |               |

<sup>(1)</sup> Adaptors (T4-T5-T6), required when adding accessories to draw-out breakers.

## Accessories

### Mechanical T1-T6



KT3MIF2



KT5FCD

#### DIN Rail Adapters

| Item                                       | Part Number | List Price |
|--------------------------------------------|-------------|------------|
| T1/T2 (mounts on 35 mm DIN rail 15mm high) | KT2DIN      |            |
| T3 (mounts on 35mm DIN rail 15mm high)     | KT3DIN      |            |
| Ts3 (mounts on 75 mm DIN rail)             | KTs3DMB     |            |

#### Mechanical Interlocks

##### T1-T2-T3

Sliding bar interlock-front mounted (2 Breakers)  
Sliding bar interlock-front mounted (3 Breakers)

##### T3

Rear Interlock-horizontal  
Rear Interlock-vertical

##### Ts3

Horizontal  
Vertical

##### T4-T5 <sup>(1)</sup>

Interlock frame  
Mechanical Interlock frame-horizontal  
Mechanical Interlock frame-vertical

##### Plate type

|   |             |                              |  |
|---|-------------|------------------------------|--|
| A | T4 (F-P-W)  | T4 (F-P-W)                   |  |
| B | T4 (F-P-W)  | T5 400 (F-P-W) OR T5 600 (F) |  |
| C | T4 (F-P-W)  | T5 600 (P-W)                 |  |
| D | T5 (F-P-W)  | T5 400 (F-P-W) OR 630 (F)    |  |
| E | T5 (F-P-W)  | T5 600 (P-W)                 |  |
| F | T5v (F-P-W) | T5 600 (P-W)                 |  |

##### T6

Horizontal  
Vertical

#### Flange

T1-T2-T3  
T4-T5  
T6

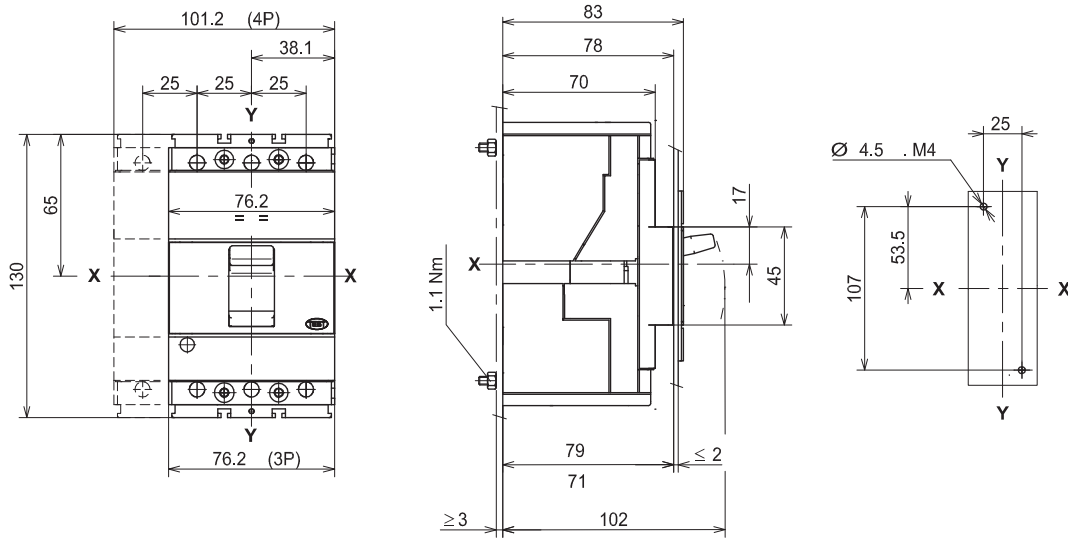
KT3FCD  
KT5FCD  
KT6FCD

(1) T4-T5 Complete assembly consists of one interlock frame and one plate.

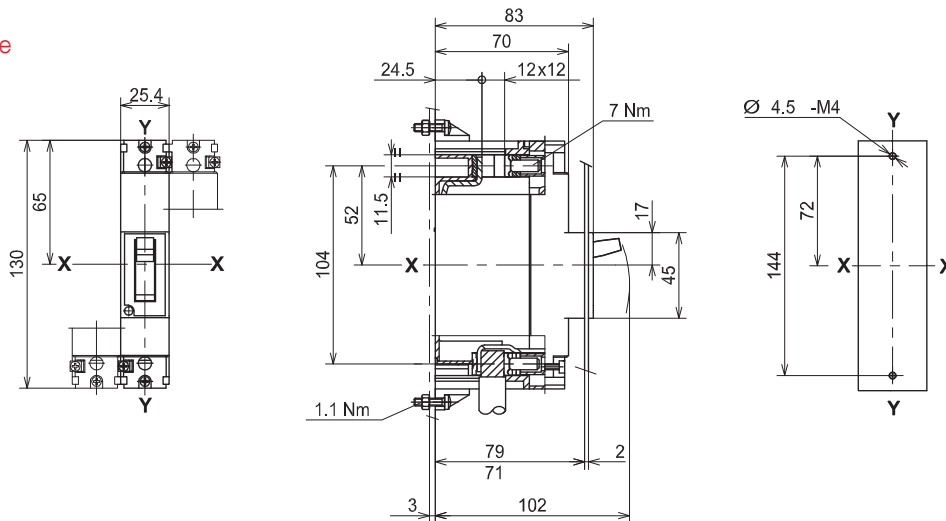
# Approximate Dimensions T1 & T2

Dim.

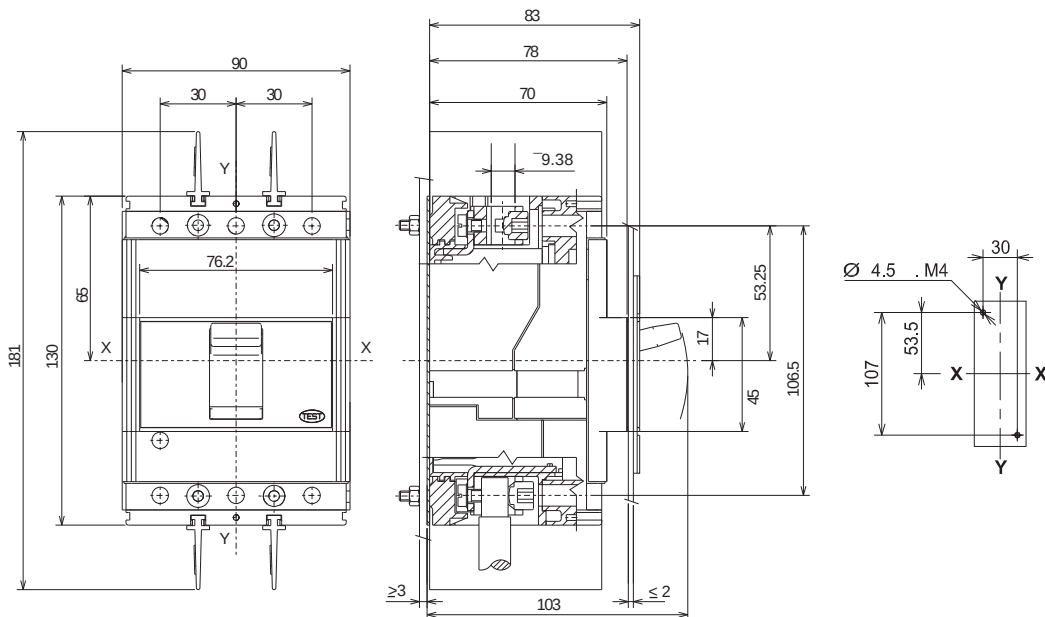
## T1 — 3-Pole



## T1 — Single Pole



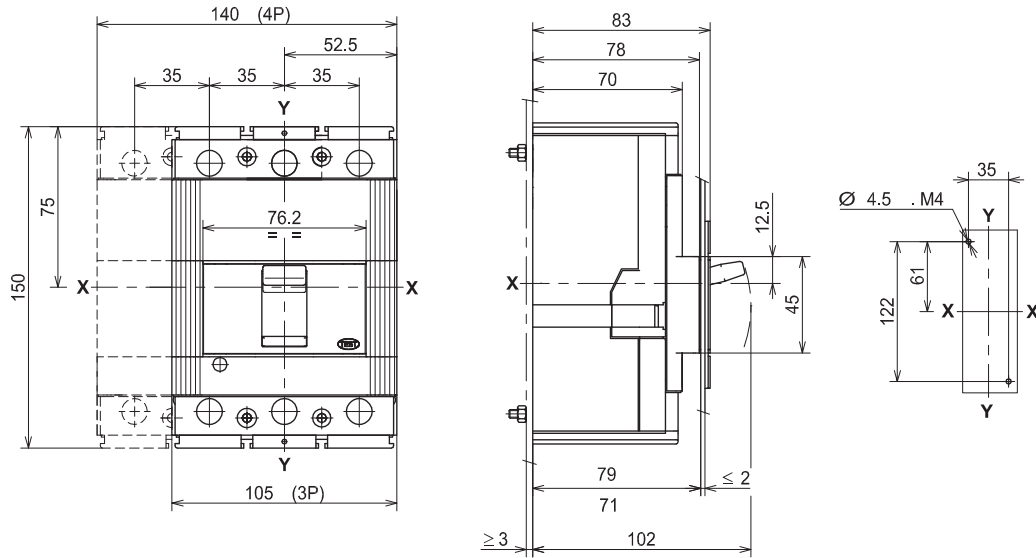
## T2 — 3 Pole



Dim.

## Approximate Dimensions T3

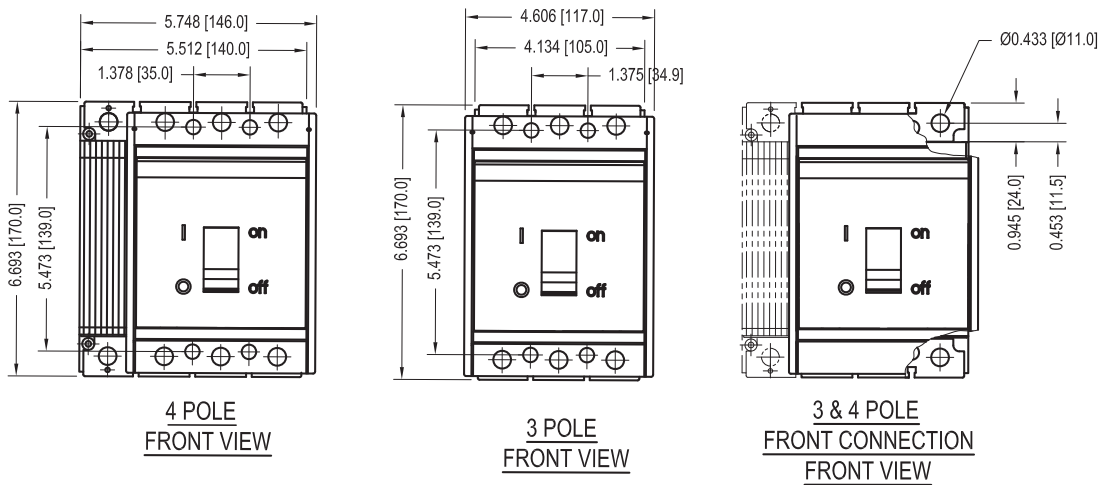
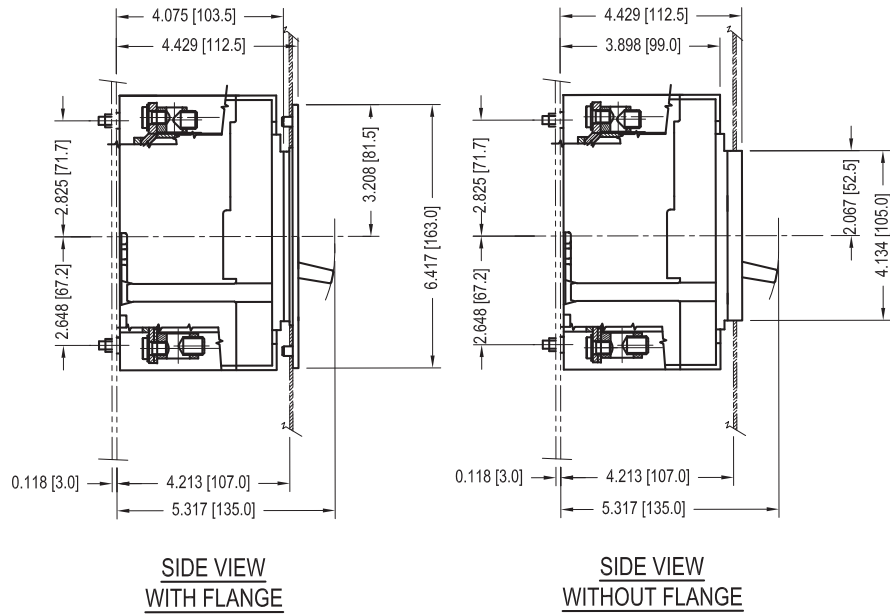
**T3** — 3 & 4 Pole



## Approximate Dimensions Ts3

Dim.

### Ts3 — 3 & 4 Pole



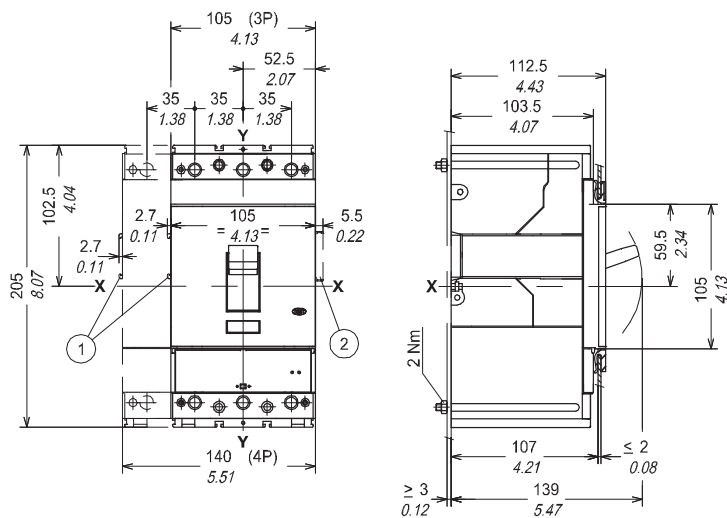
**Dim.**

## Approximate Dimensions

### T4 — 3 & 4 Pole

**Caption**

- ① Overall dimensions with cabled accessories mounted (SOR-C, UVR-C, RC221-222)
- ② Overall dimensions with cabled auxiliary contacts mounted (only 3Q 1SY)



# Approximate Dimensions T5

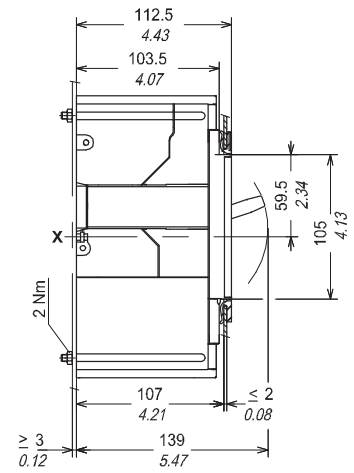
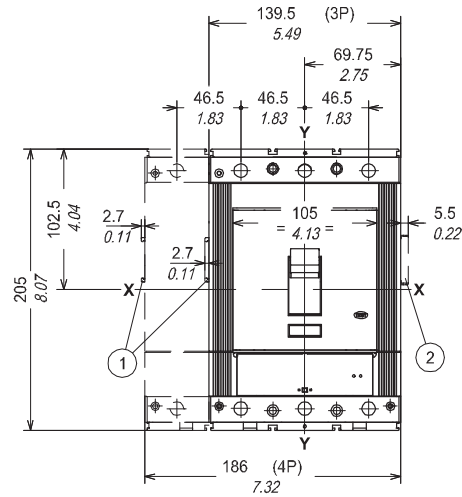
Dim.

## T5 — 3 & 4 Pole

Fixing on sheet

Caption

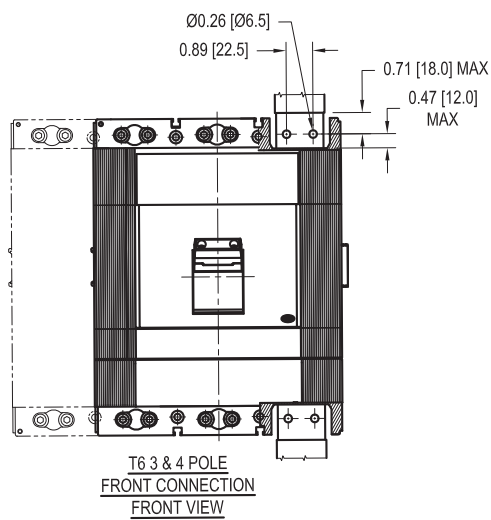
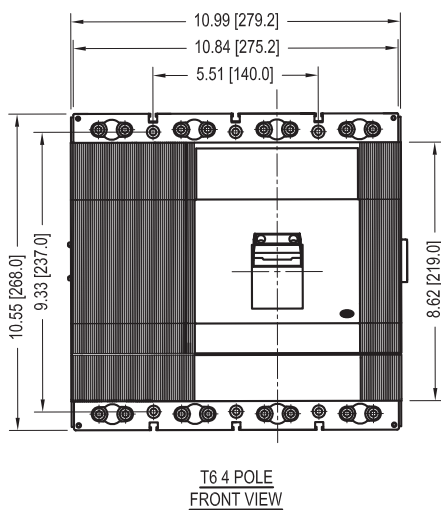
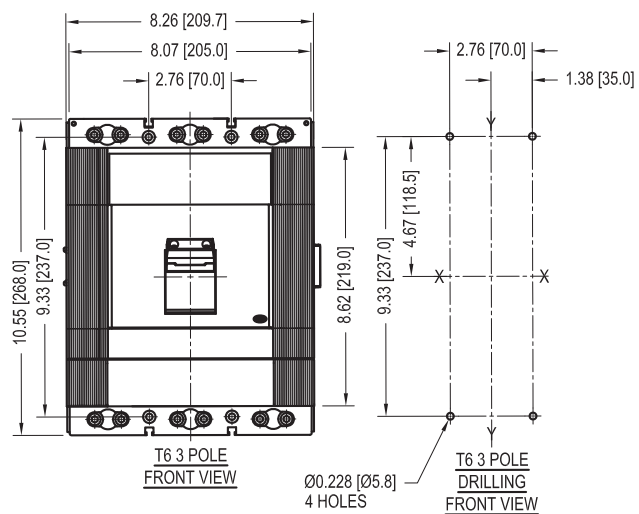
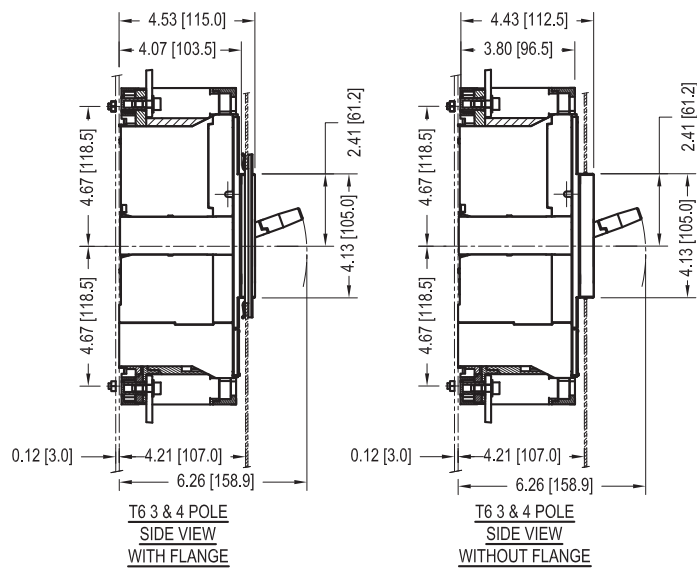
- ① Overall dimensions with cabled accessories mounted (SOR-C, UVR-C, RC221-222)
- ② Overall dimensions with cabled auxiliary contacts mounted (only 3Q 1SY)



Dim.

## Approximate Dimensions T6

### T6 — 3 & 4 Pole



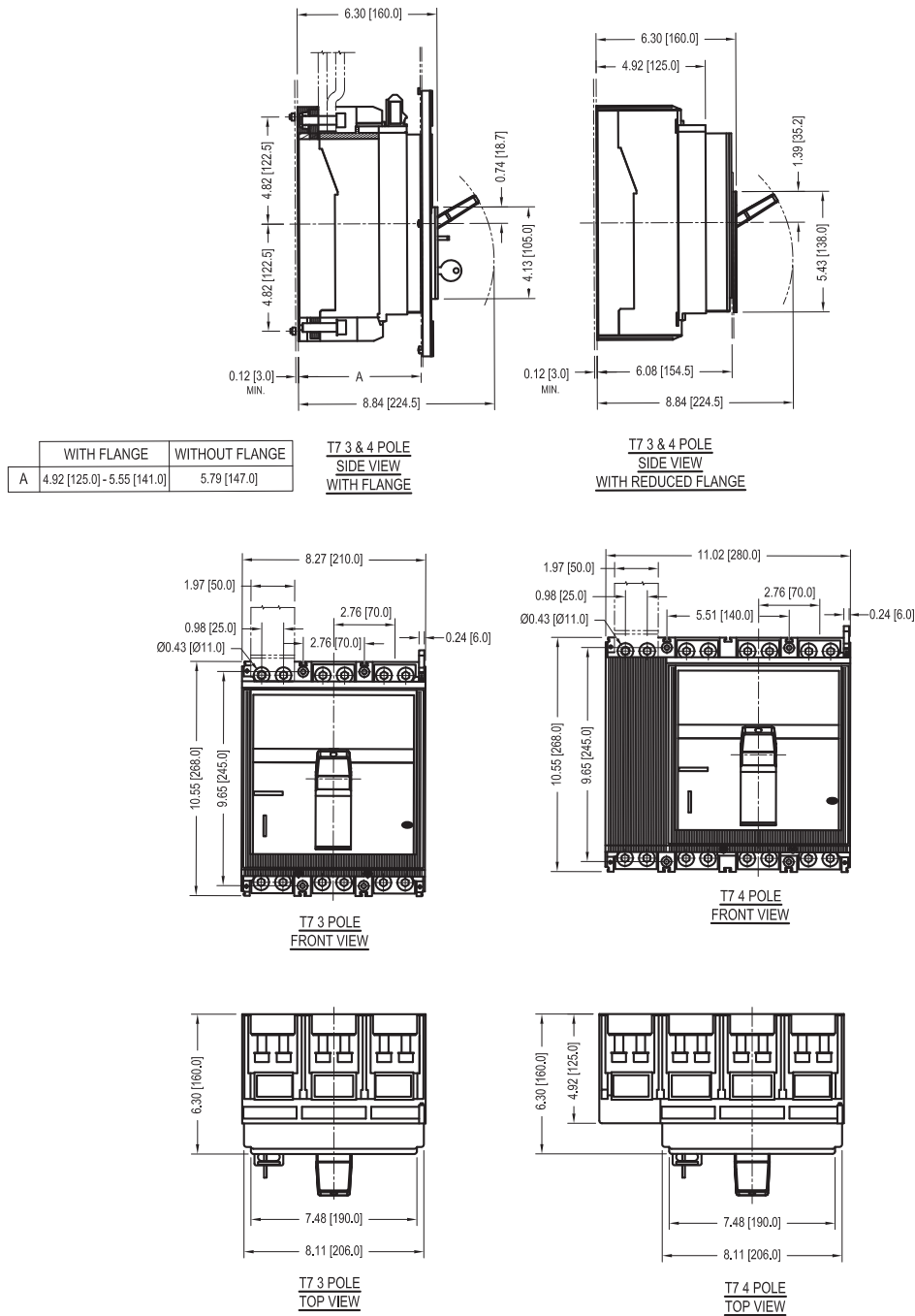


# Approximate Dimensions

## T7

Dim.

### T7 – 3 & 4 Pole



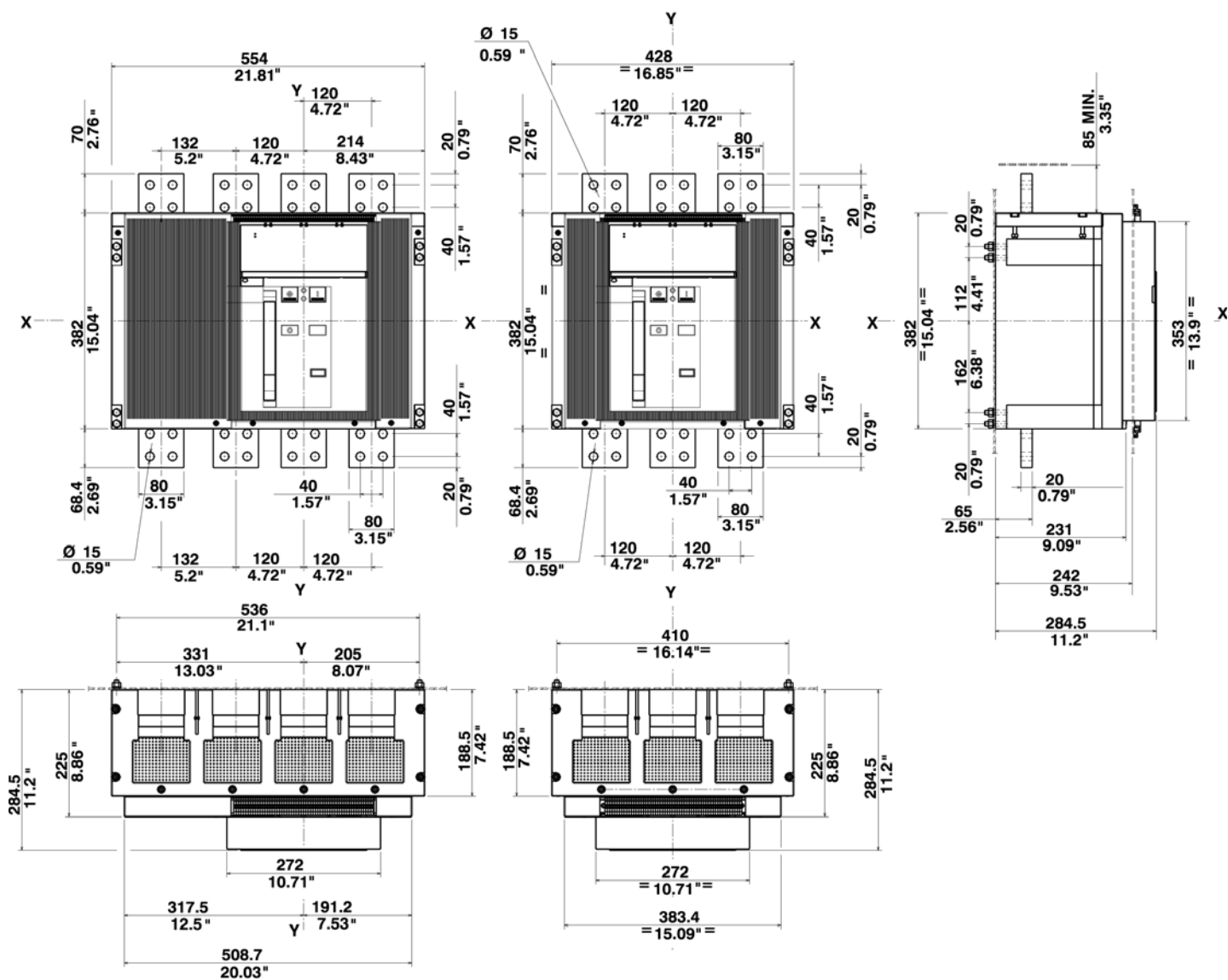
Dim.

## Approximate Dimensions

T8

### Fixed circuit breaker - 1600/2000/2500 A

#### Front terminals – F

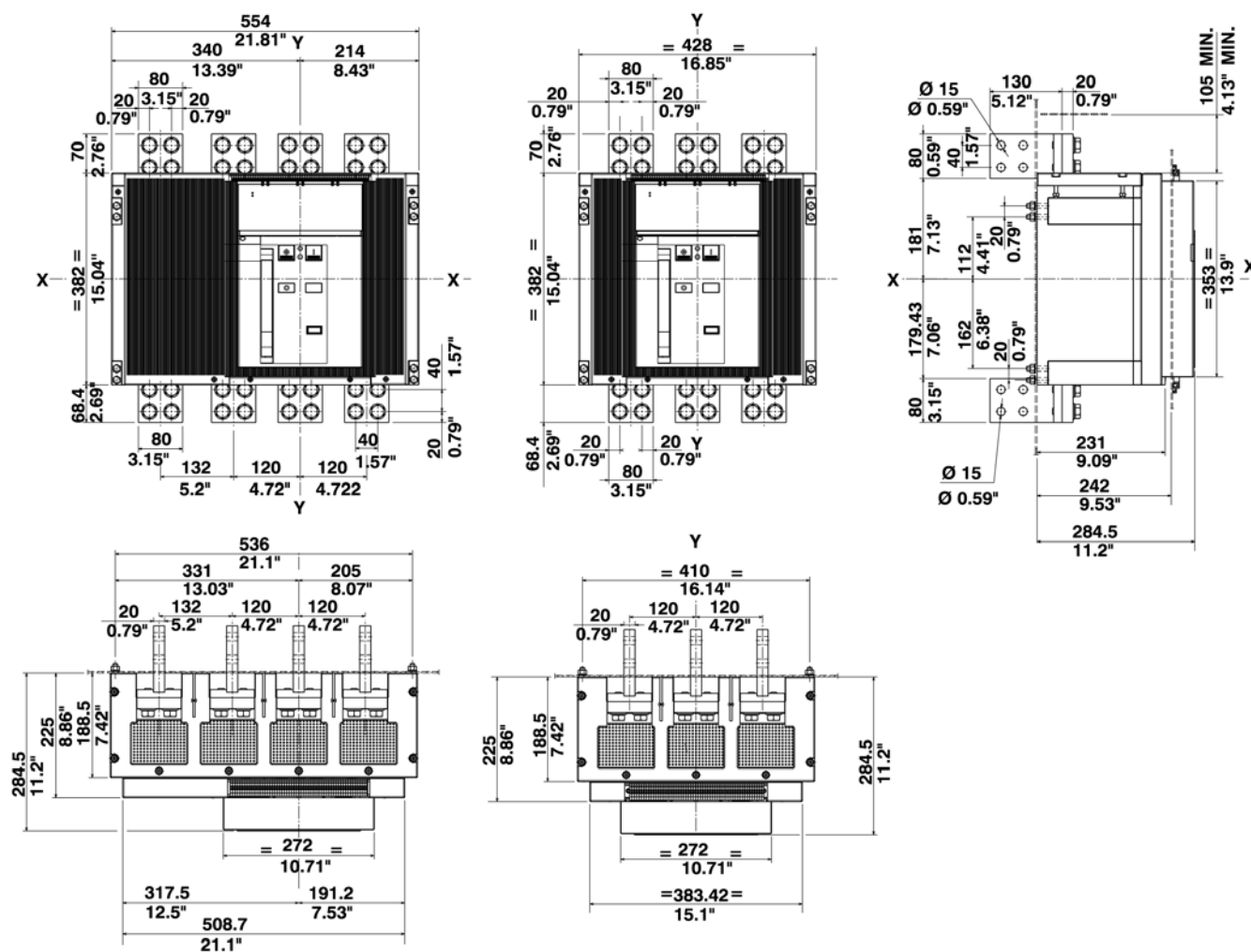


#### Caption

- ① Inside edge of compartment door
- ② Circuit breaker M8 fixing drilling (use M8 screws)
- ③ Insulating or metal-insulated wall

**Dim.**

### Rear vertical terminals – VR



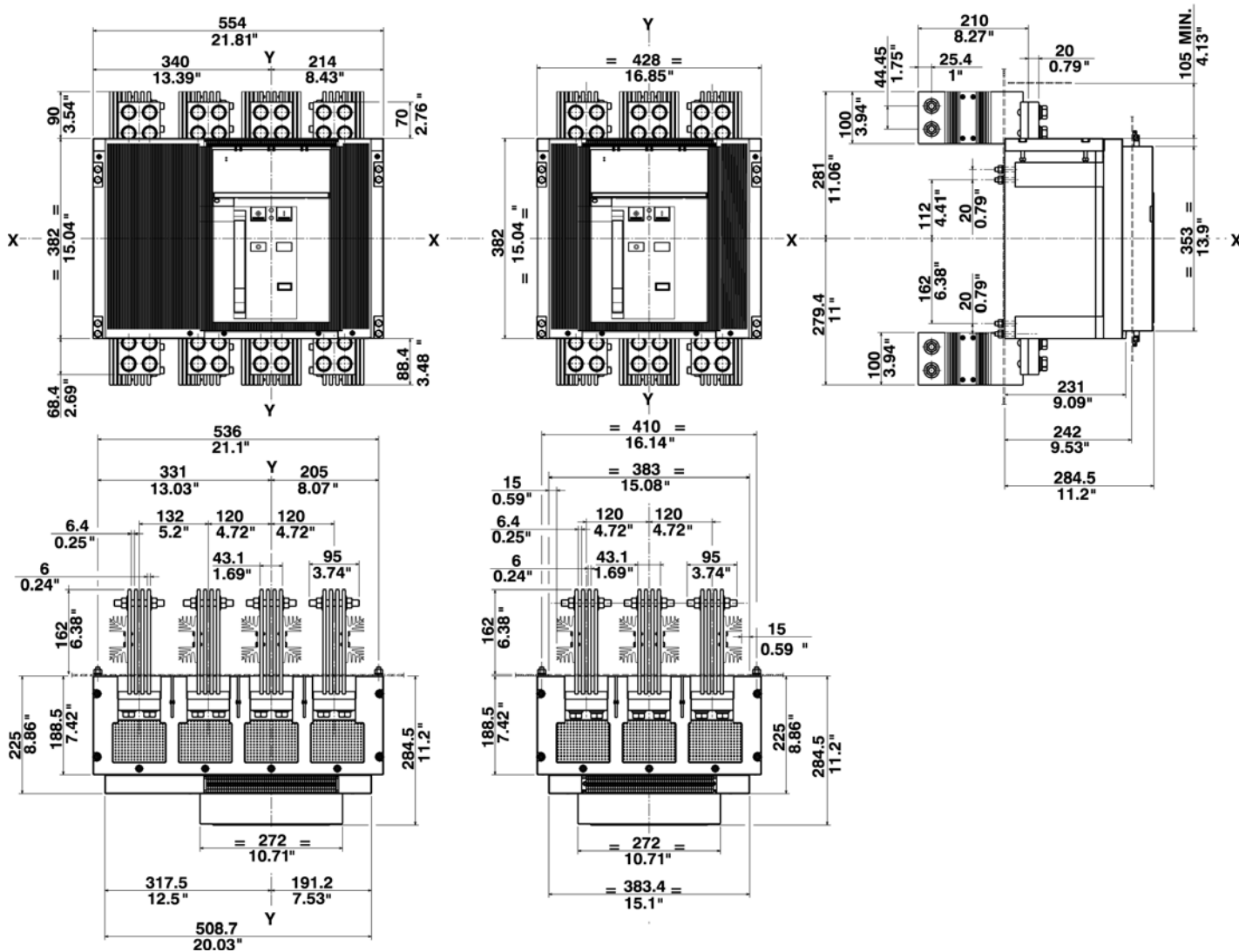
Dim.

## Approximate Dimensions

T8

### Fixed circuit breaker - 3000 A

#### Rear vertical terminals - VR



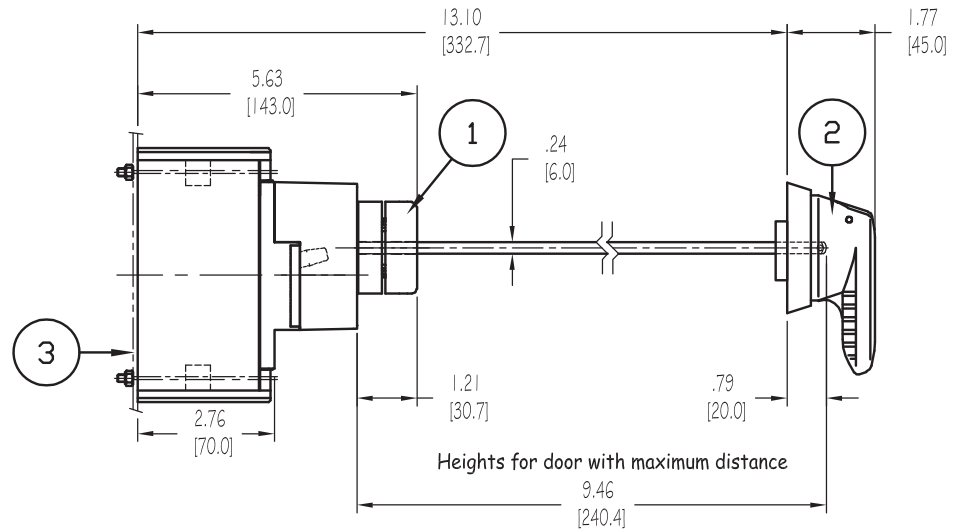
# Approximate Dimensions

## Variable Depth Mechanism with OHB Handle

### T1 - T3

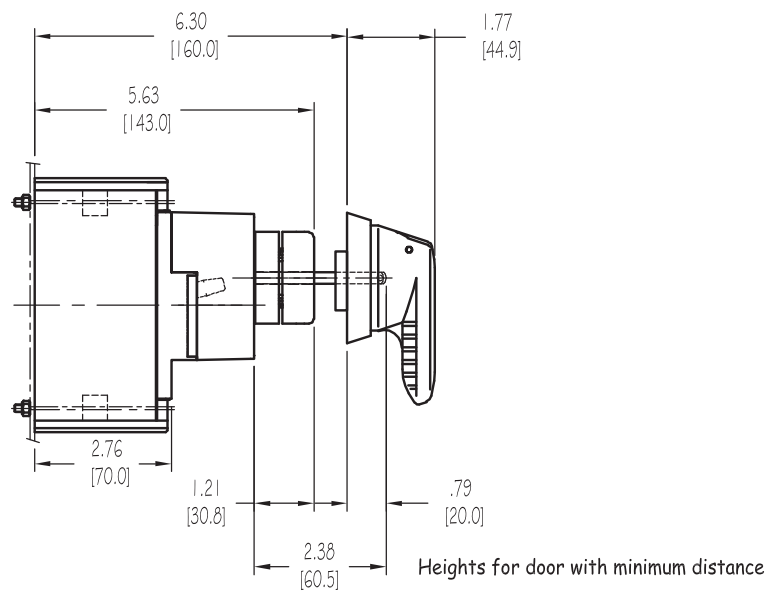
Dim.

Pistol handle operating mechanism on the compartment door



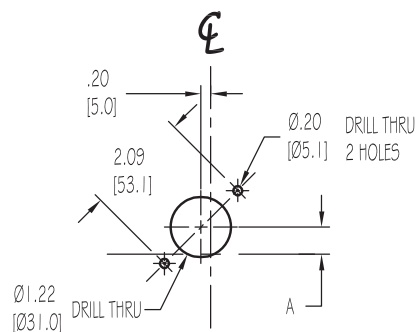
Caption

- ① Transmission unit
- ② Pistol handle operating mechanism on the compartment door
- ③ Insulating plate



Drilling template of the compartment door

| A               |               |
|-----------------|---------------|
| T1 - T2         | T3            |
| 0.55<br>[13.97] | 0.37<br>[9.4] |



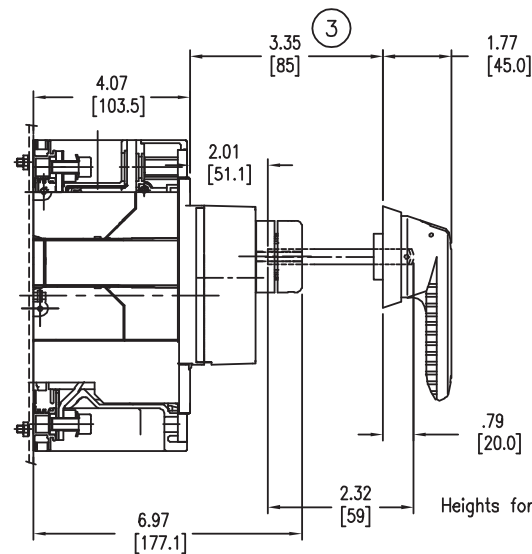
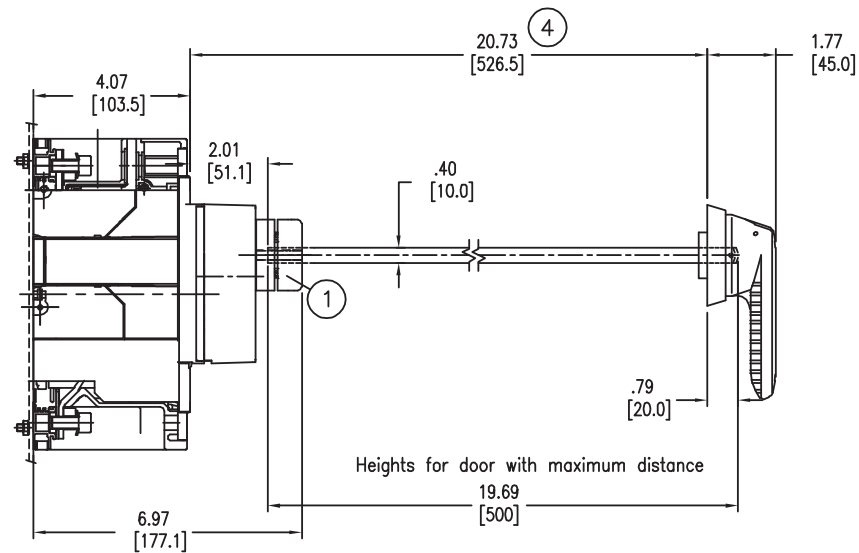
# Approximate Dimensions

## Variable Depth Mechanism with OHB Handle

### T4 - T5

Dim.

Pistol handle operating mechanism on the compartment door

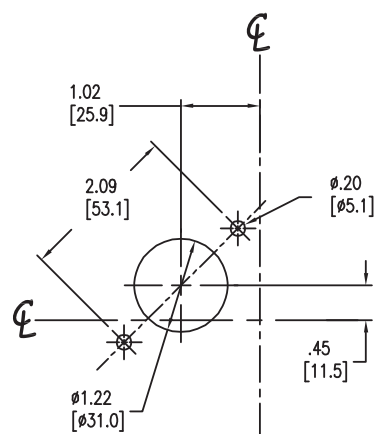


Note:  
Minimum distance from hinge of enclosure door to center of shaft is 7.87 in. [200mm]

Caption

- ① Transmission unit
- ② Pistol handle operating mechanism on the compartment door
- ③ Minimum distance from the front door with accessory
- ④ Maximum distance from the front door with accessory

Drilling template of the compartment door

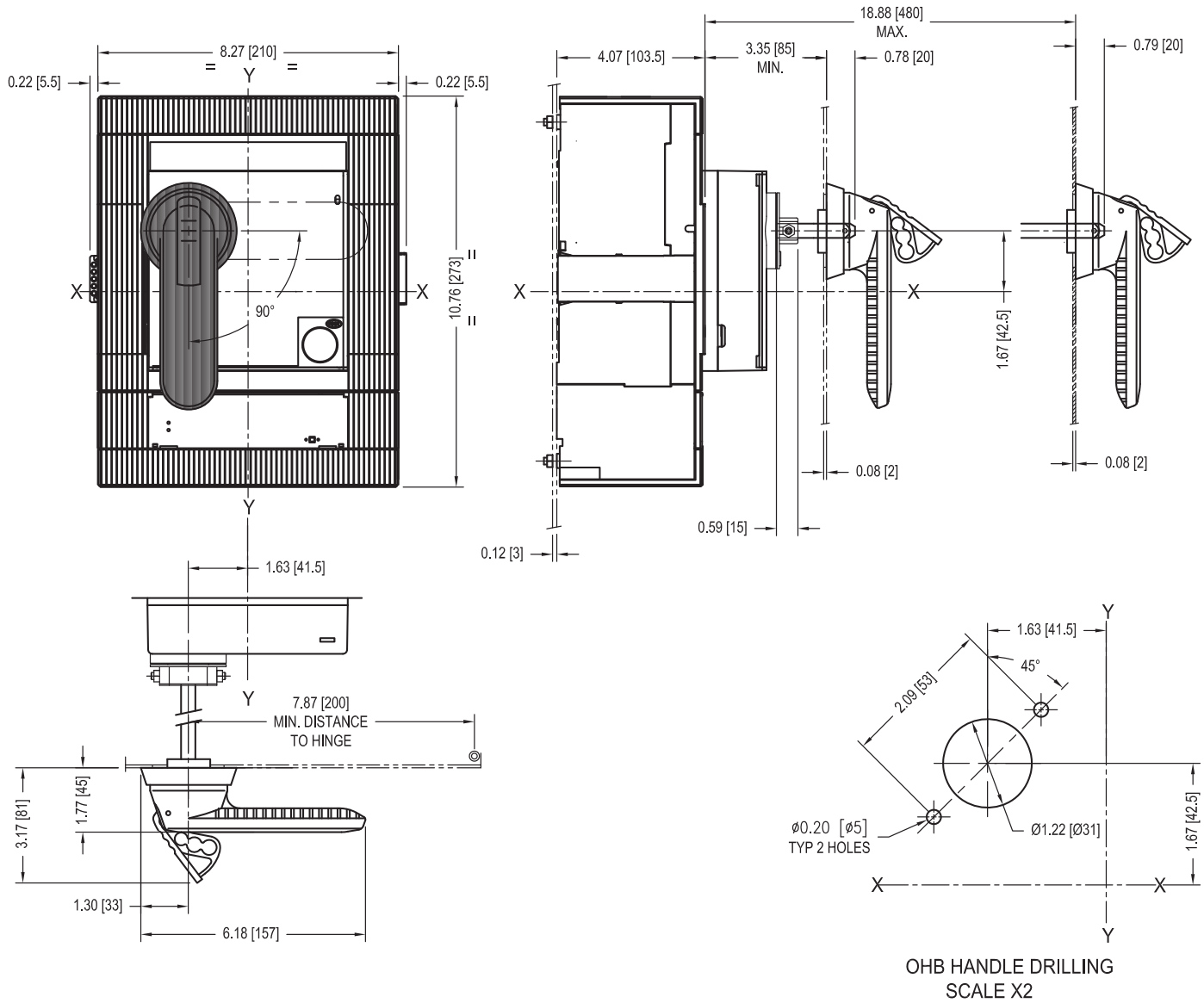


# Approximate Dimensions

## Variable Depth Mechanism

### T6

Dim.

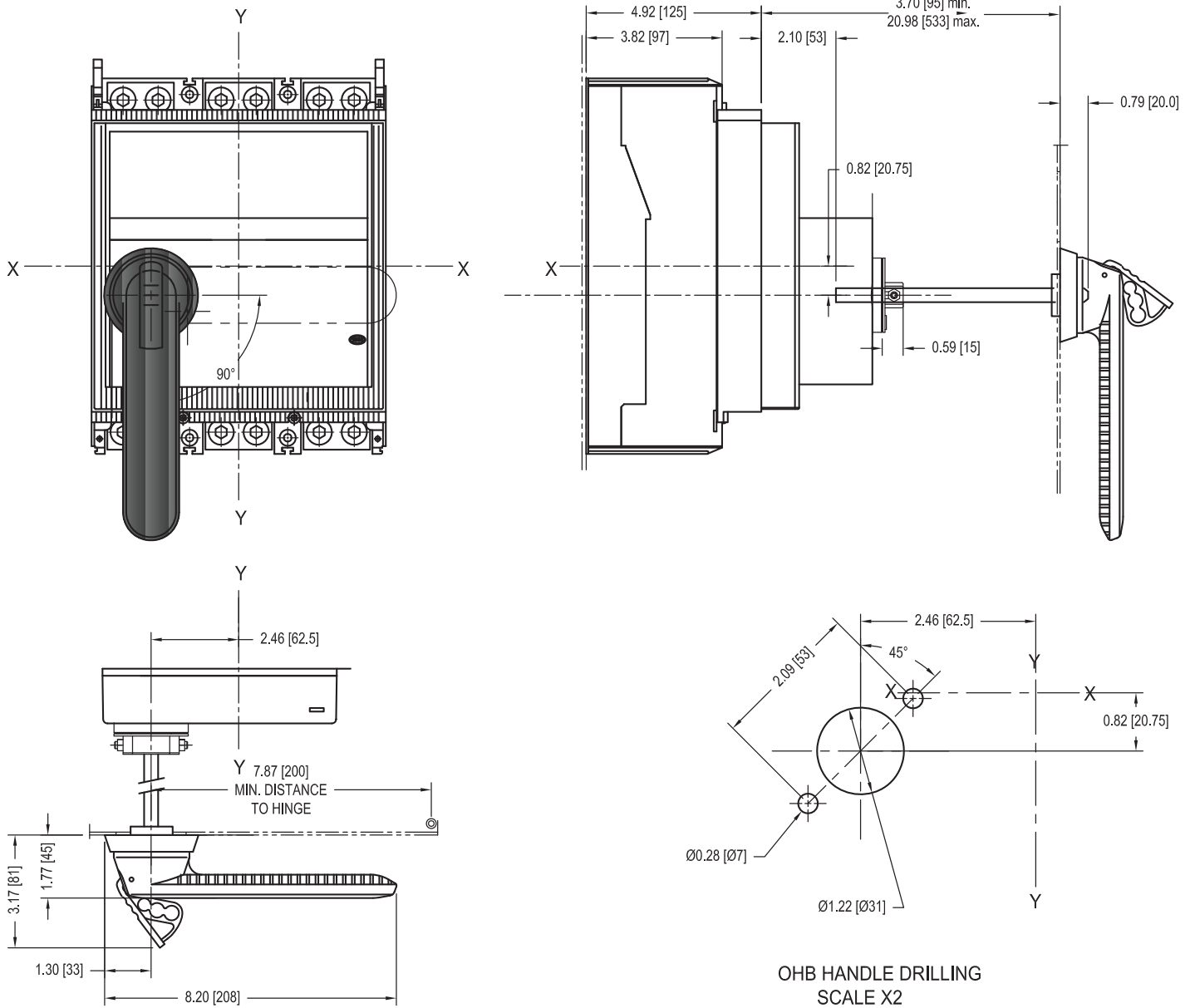


# Approximate Dimensions

## Variable Depth Mechanism

### T7

Dim.





## Notes

