



MOLDED CASE CIRCUIT BREAKERS UTS250N

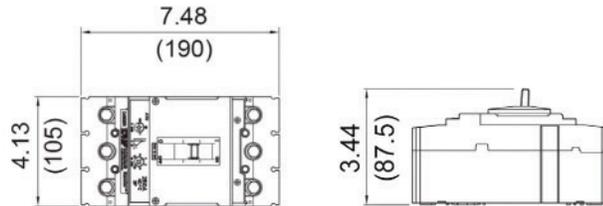
Features & Accessories

- Thermal-Magnetic 150 A through 250 A
- Suitable for Branch Circuit Protection
- Rated Current of 150 to 250 A, Max. 600 Vac, 600 Vdc
- UL489 Listed for use on UL508 Control Panels
- Shunt Trip, Undervoltage Release and Other Accessories available.
- Line and Load Lug Terminals included on All MCCBs
- Toggle Handle provides Three Positions (On/Off and Tripped)
- HACR (Heating, Air Conditioning and Refrigeration Rated)
- Auxiliary Switch, Alarm Switch, Shunt Trip and Undervoltage Release can be installed in the field.
- Door-Mounted or Flange-Mounted, Flex Shaft Operating Handles available.
- All Frame Sizes Suitable For Reverse-Feed Applications
- All Breakers include Mounting Hardware



UL Listings

- UL489 MCCB, File E231289
- UL489 Circuit-Breaker Accessories, File E223241



General Specifications

| Rated Current (A) | Type | Number of Poles | UL489 Rated Voltage (Vac) | UL489 Interrupting Capacity (kA rms) AC(50/60Hz) 480 Vac | Wire Size (AWG) (CU) | Torque (Lb-In) | Approx. Weight (Lbs.) |
|--|--------------------------|-----------------|---------------------------|--|----------------------|----------------|-----------------------|
| UTS250 Frame | | | | | | | |
| 150 | UTS250N-FTU-150-3P-LL-UL | 3 | 600 (600 Vdc) | 35 | 1/0-2/0 | 283.2 | 4.49 |
| 175 | UTS250N-FTU-175-3P-LL-UL | | | | 3/0-4/0 | 389.4 | |
| 200 | UTS250N-FTU-200-3P-LL-UL | | | | | | |
| 225 | UTS250N-FTU-225-3P-LL-UL | | | | | | |
| 250 | UTS250N-FTU-250-3P-LL-UL | | | | 250-300MCM | | |
| Trip Unit: Fixed Thermal/Fixed Magnetic; Terminals: Lugs on Line and Load Sides; Frame (Width x Height x Depth mm/in): 105/4.13 x 190/7.48 x 87.5/3.44 | | | | | | | |

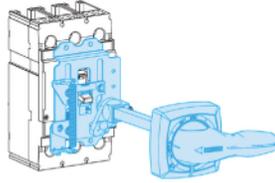


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Handles

UL489 Extended Disconnect Handles

- Mechanism for mounting on outside of enclosure
- Padlockable provision for safety lockout
- Shafts can be cut to length to fit your enclosure
- Choose from UL Type 1, 12 or UL Type 3, 4, 4X

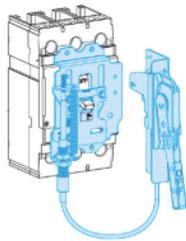


| Type 1, 12 | Type 3, 3R, 4 | Type 3, 4, 4X | Used with MCCB: |
|-------------|---------------|---------------|-----------------|
| EHUOC-12 | EHVOC-12 | EHXOC-12 | UTE100 |
| EHUOC-16/24 | EHVOC-16/24 | EHXOC-16/24 | UTE100 |
| EHU2-12 | EHV2-12 | EHX2-12 | UTS150, UTS250 |
| EHU2-16/24 | EHV2-16/24 | EHX2-16/24 | UTS150, UTS250 |
| EHU3-12 | EHV3-12 | EHX3-12 | UTS400, UTS600 |
| EHU3-16/24 | EHV3-16/24 | EHX3-16/24 | UTS400, UTS600 |
| EHU5-12 | EHV5-12 | EHX5-12 | UTS800, UTS1200 |
| EHU5-16/24 | EHV5-16/24 | EHX5-16/24 | UTS800, UTS1200 |

Flange-Mounted Cable Operating Handles

- Cable-operated disconnect handle for flange mount
- Flexible cable allows for easy installation
- Padlockable for safety lockout
- Cable lengths available: 36, 48, 60, 72, 84, & 128"
- Cable sold separately
- Choose from UL Type 1, 12, 3R, 4, 12 or UL Type 4, 4X

| Type 1, 3, 3R, 4, 12 | TYPE 4, 4X | Used with MCCB: |
|----------------------|------------|-----------------|
| COM0/FHU-S | COM0/FHX-S | UTE100 |
| COM2/FHU-S | COM2/FHX-S | UTS150, UTS250 |
| COM3/FHU-L | COM3/FHX-L | UTS400, UTS600 |
| COM5/FHU-L | COM5/FHX-L | UTS800, UTS1200 |



Locking Devices

Removable Locking Device

- Easily attaches to the MCCB
- Allows handle to be locked in "OFF" position which guarantees isolation according to UL489
- 3 padlocks may be used with shackle diameters ranging from 0.2" - 0.3" (not supplied)

Mechanical Interlock Device

- Device locks two breakers together and provides 3 positions: Left Off - Right On, Left On - Right Off, and Left Off - Right Off
- Front interlocking plate allows installation of a padlock (not supplied) in order to fix the position. Two padlocks may be used to fix Left Off - Right Off

Fixed Plate Locking Device

- Easily attaches to the MCCB
- Allows handle to be padlocked in "ON" or "OFF" position. Locking in "OFF" position guarantees isolation according to IEC 60947-2

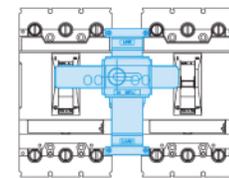
| Part Number: | Used with MCCB: |
|-----------------------------|-----------------|
| Pad Lock | |
| PL0 | UTE100 |
| PL2 | UTS150, UTS250 |
| PL3 | UTS400, UTS600 |
| PL5 | UTS800, UTS1200 |
| Pad Handle Lock | |
| PHL0 | UTE100 |
| PHL2 | UTS150, UTS250 |
| PHL3 | UTS400, UTS600 |
| PHL5 | UTS800, UTS1200 |
| Mechanical Interlock | |
| MIT03 | UTE100 |
| MIT23 | UTS150, UTS250 |
| MIT33 | UTS400, UTS600 |
| MIT53 | UTS800, UTS1200 |

Flange Cables

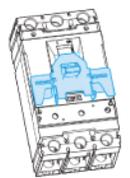
| Part #: | Cable Length (Inch): | Used with MCCB: |
|---------|----------------------|------------------------|
| FH2-36 | 36 | UTE100, UTS150, UTS250 |
| FH2-48 | 48 | UTE100, UTS150, UTS250 |
| FH2-60 | 60 | UTE100, UTS150, UTS250 |
| FH2-72 | 72 | UTE100, UTS150, UTS250 |
| FH4-36 | 36 | UTS400, UTS600 |
| FH4-48 | 48 | UTS400, UTS600 |
| FH4-60 | 60 | UTS400, UTS600 |
| FH4-72 | 72 | UTS400, UTS600 |
| FH5-60 | 60 | UTS800, UTS1200 |
| FH5-84 | 84 | UTS800, UTS1200 |
| FH5-128 | 128 | UTS800, UTS1200 |



Removable Locking Device



Mechanical Interlock Device

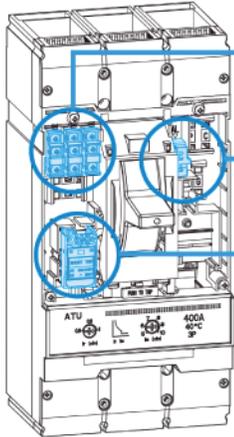


Fixed Plate Locking Device



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Internal Modules



Module Options

Auxiliary Switch (AX)

- Provides remote "On" and "Off" indication

Alarm Switch (AL)

- Provides immediate indication of a breaker trip.

Shunt and Undervoltage Trips (SHT) & (UVT)

- (SHT) - Opens breaker in response to externally applied volt age signal.
- (UVT) - Automatically trips when control voltage drops. Breaker cannot be closed again until voltage returns to 85% of control voltage.

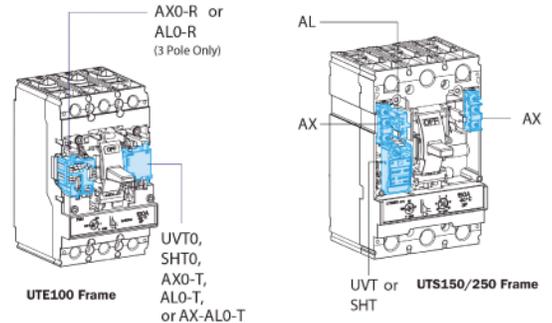
Auxiliary and Alarm Switch Modules

| Part #: | Used on MCCB: | Side: | Contact Rating: | Configuration: |
|---------------------------------|---------------|-------|--|-----------------------|
| Auxiliary Switch Modules | | | | |
| AX-0-R | UTE100 | Left | 5A @ 125Vac 3A @ 250Vac 0.4A @ 125Vdc 0.2A @ 250Vdc | SPDT (1NO, 1NC) |
| AX-0-T | | Right | | |
| AX-AL-0-T | | Right | | |
| AX | UTS150-600 | - | | |
| AX-5 | UTS800-1200 | - | | |
| Alarm Switch Modules | | | | |
| AL0-R | UTE100 | Left | 5A @ 125Vac 3A @ 250Vac 0.4A @ 125Vdc 0.2A @ 250Vdc | SPDT (1NO, 1NC) |
| AL0-T | | Right | | |
| AL | UTS150-600 | - | | |
| AL-5 | UTS800-1200 | - | | |

Shunt Trip Modules

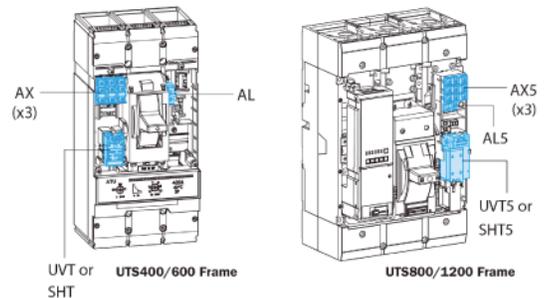
| Part #: | Control Voltage (Vn) | Current: | Operating Voltage: | Used on MCCB: |
|-----------|-------------------------|--|--------------------------------|--------------------------------------|
| SHT-0-12 | 12 Vac/dc | 30mA | AC: 0.7-1.1Vn DC: 0.8-1.1Vn | UTE100 |
| SHT-0-24 | 24 Vac/dc | 27mA | | |
| SHT-0-100 | 110-130 Vac/dc | 5.8mA | | |
| SHT-0-200 | 200-250 Vac/dc | 5.4mA | | |
| SHT-0-440 | 440-500 Vac/dc | 3.5mA | | |
| SHT-12 | 12 Vdc | 30mA | AC/DC: 0.7-1.1Vn | UTS150 UTS250 UTS400 UTS600 |
| SHT-24 | 24 Vac/dc | 24mA | | |
| SHT-110 | 110-130 Vac/dc | 10.5mA | | |
| SHT-220 | 220-240 Vac, 250 Vdc | 7.5mA | | |
| SHT-380 | 380-500 Vac/dc | 2.3mA | | |
| SHT-5-24 | 24-30 Vdc | Power Consumption 200W Inrush 5W Steady-State | 0.6-1.1Vn | UTS800 UTS1200 |
| SHT-5-100 | 110-130 Vac/dc | | 0.56-1.1Vn | |
| SHT-5-200 | 200-250 Vac/dc | | | |
| SHT-5-440 | 380-480 Vac/dc | | | |

Possible Configuration of Internal Modules



Undervoltage Release Modules

| Part #: | Control Voltage (Vn) | Current: | Tripping Voltage: | Used on MCCB: |
|-----------|-------------------------|--|-------------------|--------------------------------------|
| UVT-0-24 | 24 Vac/dc | 27mA | 0.20-0.70Vn | UTE100 |
| UVT-0-100 | 110-110 Vac/dc | 5.8mA | | |
| UVT-0-200 | 200-220 Vac/dc | 5.4mA | | |
| UVT-0-440 | 440-480 Vac/dc | 3.5mA | | |
| UVT-24 | 24 Vac/dc | 27mA | 0.35-0.70Vn | UTS150 UTS250 UTS400 UTS600 |
| UVT-100 | 110-130 Vac/dc | 5.8mA | | |
| UVT-200 | 220-240 Vac, 250 Vdc | 5.4mA | | |
| UVT-440 | 440-480 Vac/dc | 3.5mA | | |
| UVT-5-24 | 24-30 Vdc | Power Consumption 200W Inrush 5W Steady-State | 0.44-0.60Vn | UTS800 UTS1200 |
| UVT-5-100 | 110-130 Vac/dc | | | |
| UVT-5-200 | 200-250 Vac/dc | | | |
| UVT-5-440 | 380-480 Vac/dc | | | |

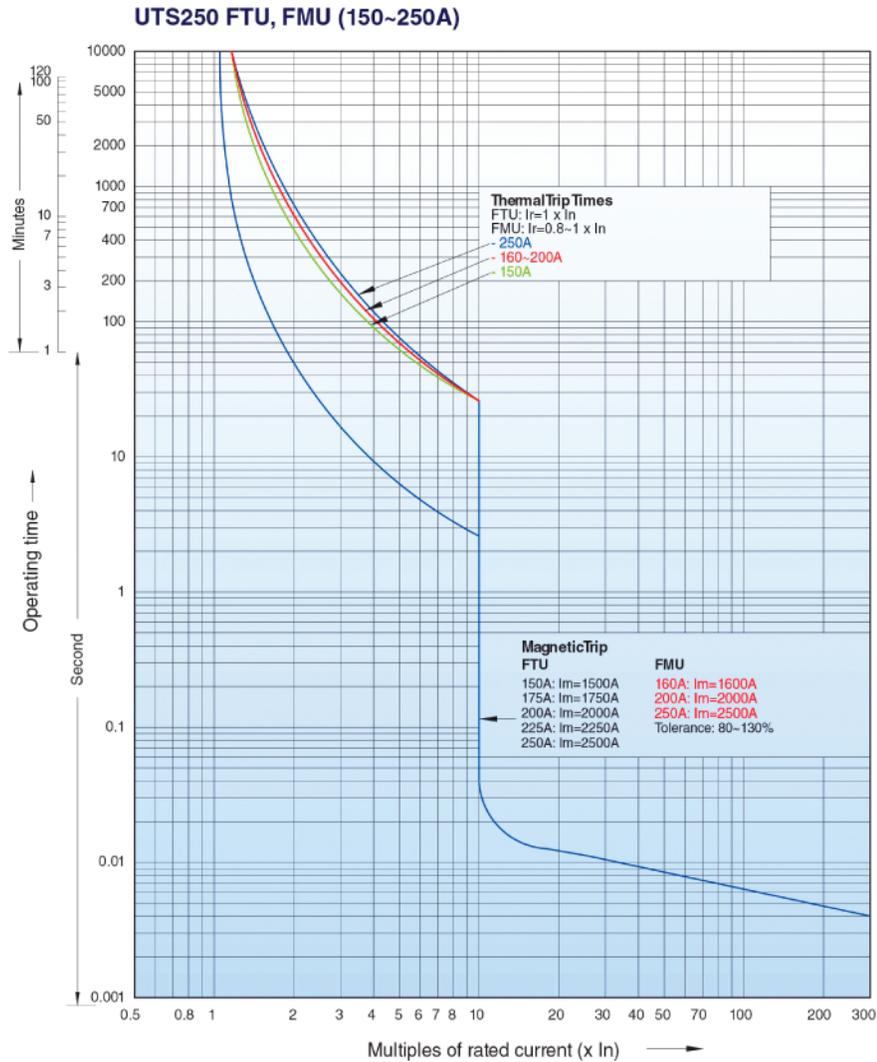




UTS250N CHARACTERISTIC

This curve is to be used for application and coordination purposes only.

All time/current characteristic curve data is based on 40°C ambient cold start.



| RATING UTS250 | FTU | |
|------------------|-----------------------|------------------------|
| | 2P/3P | MAG TRIP (80%~130%) |
| 150 | <input type="radio"/> | 1500A |
| 175 | <input type="radio"/> | 1750A |
| 200 | <input type="radio"/> | 2000A |
| 225 | <input type="radio"/> | 2250A |
| 250 | <input type="radio"/> | 2500A |

| RATING UTS250 | FMU | | |
|------------------|-----------------------|------------------------------|------------------------|
| | 2P/3P | RATING RANGE (0.8-1 x In) | MAG TRIP (80%~130%) |
| 160 | <input type="radio"/> | 128-160A | 1600A |
| 200 | <input type="radio"/> | 160-200A | 2000A |
| 250 | <input type="radio"/> | 200-250A | 2500A |