



### UTS400 FRAME

UTS400 breaker is HACR rated

#### UL489 RATINGS

| BREAKER TYPE | NUMBER OF POLES | INTERRUPTING CAPACITY (kA rms) AC 50/60Hz |         |         | INTERRUPTING CAPACITY (kA) DC |            |
|--------------|-----------------|-------------------------------------------|---------|---------|-------------------------------|------------|
|              |                 | 240V ac                                   | 480V ac | 600V ac | 250V DC-2P                    | 600V DC-3P |
| UTS400N      | 2, 3            | 65                                        | 35      | 18      | 35                            | 35         |
| UTS400H      | 2, 3            | 100                                       | 65      | 35      | 50                            | 50         |
| UTS400L      | 2, 3            | 150                                       | 100     | 50      | 65                            | 65         |

#### IEC60947-2 RATINGS

| BREAKER TYPE                          | NUMBER OF POLES | INTERRUPTING CAPACITY(kA rms) AC 50/60Hz, Icu |          |          |
|---------------------------------------|-----------------|-----------------------------------------------|----------|----------|
|                                       |                 | 220/240V                                      | 380/415V | 480/500V |
| UTS400N                               | 2, 3            | 65                                            | 35       | 18       |
| UTS400H                               | 2, 3            | 100                                           | 65       | 35       |
| UTS400L                               | 2, 3            | 150                                           | 100      | 50       |
| Service breaking capacity, Ics (%Icu) |                 | 100%                                          |          |          |
| Insulation Voltage, Ui                |                 | 750 VAC                                       |          |          |
| Impulse Withstand Voltage, Uimp       |                 | 8 KVAC                                        |          |          |
| Utilization Category                  |                 | A                                             |          |          |

#### DIMENSIONS

| POLE   | DIMENSIONS inch (mm) |             |            |
|--------|----------------------|-------------|------------|
|        | W                    | H           | D          |
| 2-Pole | 5.51 (140)           | 11.42 (290) | 4.33 (110) |
| 3-Pole |                      |             |            |

#### TRIP UNIT TYPES

|     | THERMAL                | MAGNETIC                | REMARKS       |
|-----|------------------------|-------------------------|---------------|
| FTU | Fixed                  | Fixed                   |               |
| FMU | Adjustable, 0.8~1 x In | Fixed                   |               |
| ATU | Adjustable, 0.8~1 x In | Adjustable, 5~10 x In   |               |
| ETS | Adjustable, 80~600 A   | Adjustable, 1.5~11 x In | Electronic    |
| ETM | Adjustable, 80~600 A   | Adjustable, 1.5~11 x In | Electronic    |
| MCS | N.A.                   | Fixed, 10 x In          | Magnetic only |
| MCP | N.A.                   | Adjustable, 6~12 x In   | Magnetic only |

#### CIRCUIT BREAKER

| WITH FTU TRIP UNIT (FIXED THERMAL, FIXED MAGNETIC) |                                          |                    |                                           |                    |
|----------------------------------------------------|------------------------------------------|--------------------|-------------------------------------------|--------------------|
| Ampere Rating, In                                  | 65kA at 240V, 35kA at 480V, 18kA at 600V |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                    |
|                                                    | 2-Pole                                   | 3-Pole             | 2-Pole                                    | 3-Pole             |
| 250A                                               | UTS400-N-FTU-250-2                       | UTS400-N-FTU-250-3 | UTS400-H-FTU-250-2                        | UTS400-H-FTU-250-3 |
| 300A                                               | UTS400-N-FTU-300-2                       | UTS400-N-FTU-300-3 | UTS400-H-FTU-300-2                        | UTS400-H-FTU-300-3 |
| 350A                                               | UTS400-N-FTU-350-2                       | UTS400-N-FTU-350-3 | UTS400-H-FTU-350-2                        | UTS400-H-FTU-350-3 |
| 400A                                               | UTS400-N-FTU-400-2                       | UTS400-N-FTU-400-3 | UTS400-H-FTU-400-2                        | UTS400-H-FTU-400-3 |

| Ampere Rating, In | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    |
|-------------------|--------------------------------------------|--------------------|
|                   | 2-Pole                                     | 3-Pole             |
| 250A              | UTS400-L-FTU-250-2                         | UTS400-L-FTU-250-3 |
| 300A              | UTS400-L-FTU-300-2                         | UTS400-L-FTU-300-3 |
| 350A              | UTS400-L-FTU-350-2                         | UTS400-L-FTU-350-3 |
| 400A              | UTS400-L-FTU-400-2                         | UTS400-L-FTU-400-3 |

## CIRCUIT BREAKER

| WITH FMU TRIP UNIT (ADJUSTABLE THERMAL, FIXED MAGNETIC)      |                                            |                    |                                           |                                      |                                                  |
|--------------------------------------------------------------|--------------------------------------------|--------------------|-------------------------------------------|--------------------------------------|--------------------------------------------------|
| Ampere Rating, In                                            | 65kA at 240V, 35kA at 480V, 18kA at 600V   |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                                      |                                                  |
|                                                              | 2-Pole                                     | 3-Pole             | 2-Pole                                    | 3-Pole                               |                                                  |
| 300A                                                         | UTS400-N-FMU-300-2                         | UTS400-N-FMU-300-3 | UTS400-H-FMU-300-2                        | UTS400-H-FMU-300-3                   |                                                  |
| 400A                                                         | UTS400-N-FMU-400-2                         | UTS400-N-FMU-400-3 | UTS400-H-FMU-400-2                        | UTS400-H-FMU-400-3                   |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    |                                           | Thermal range                        |                                                  |
|                                                              | 2-Pole                                     | 3-Pole             |                                           |                                      |                                                  |
| 300A                                                         | UTS400-L-FMU-300-2                         | UTS400-L-FMU-300-3 | 240~300A                                  |                                      |                                                  |
| 400A                                                         | UTS400-L-FMU-400-2                         | UTS400-L-FMU-400-3 | 320~400A                                  |                                      |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| WITH ATU TRIP UNIT (ADJUSTABLE THERMAL, ADJUSTABLE MAGNETIC) |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 65kA at 240V, 35kA at 480V, 18kA at 600V   |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                                      |                                                  |
|                                                              | 2-Pole                                     | 3-Pole             | 2-Pole                                    | 3-Pole                               |                                                  |
| 300A                                                         | UTS400-N-ATU-300-2                         | UTS400-N-ATU-300-3 | UTS400-H-ATU-300-2                        | UTS400-H-ATU-300-3                   |                                                  |
| 400A                                                         | UTS400-N-ATU-400-2                         | UTS400-N-ATU-400-3 | UTS400-H-ATU-400-2                        | UTS400-H-ATU-400-3                   |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    | Adjustable range                          |                                      |                                                  |
|                                                              | 2-Pole                                     | 3-Pole             | Thermal                                   | Magnetic                             |                                                  |
| 300A                                                         | UTS400-L-ATU-300-2                         | UTS400-L-ATU-300-3 | 240-300A                                  | 1500-3000A                           |                                                  |
| 400A                                                         | UTS400-L-ATU-400-2                         | UTS400-L-ATU-400-3 | 320-400A                                  | 2000-4000A                           |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| WITH ETS33 LI TRIP UNIT (ELECTRONIC)                         |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 65kA at 240V, 35kA at 480V, 18kA at 600V   |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                                      |                                                  |
|                                                              | 3-Pole                                     |                    | 3-Pole                                    |                                      |                                                  |
| 250A                                                         | UTS400-N-ETS33-250-3                       |                    | UTS400-H-ETS33-250-3                      |                                      |                                                  |
| 400A                                                         | UTS400-N-ETS33-450-3                       |                    | UTS400-H-ETS33-450-3                      |                                      |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    | Setting value                             |                                      |                                                  |
|                                                              | 3-Pole                                     |                    | Ir (A)                                    | Ii (A)                               | Tr (s)                                           |
| 250A                                                         | UTS400-L-ETS33-250-3                       |                    | 80~250A                                   | (1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In | 0.5, 1, 2, 4, 8, 16, Accuracy ±20%               |
| 400A                                                         | UTS400-L-ETS33-450-3                       |                    | 150~400A                                  |                                      |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| WITH ETS33 LSI TRIP UNIT (ELECTRONIC)                        |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 65kA at 240V, 35kA at 480V, 18kA at 600V   |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                                      |                                                  |
|                                                              | 3-Pole                                     |                    | 3-Pole                                    |                                      |                                                  |
| 250A                                                         | UTS400-N-ETS33-250-3                       |                    | UTS400-H-ETS33-250-3                      |                                      |                                                  |
| 400A                                                         | UTS400-N-ETS33-450-3                       |                    | UTS400-H-ETS33-450-3                      |                                      |                                                  |
|                                                              |                                            |                    |                                           |                                      |                                                  |
| Ampere Rating, In                                            | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    | Setting value                             |                                      |                                                  |
|                                                              | 3-Pole                                     |                    | Ir (A)                                    | Ii (A)                               | Istd (A)                                         |
| 250A                                                         | UTS400-L-ETS33-250-3                       |                    | 80~250A                                   | (1.5, 2, 3, 4, 5, 6, 8, 10, 11) x In | (1.5, 2, 3, 4, 5, 6, 7, 8, 10) x Ir Accuracy±15% |
| 400A                                                         | UTS400-L-ETS33-450-3                       |                    | 150~400A                                  |                                      |                                                  |

\* Time delay at 6 x I<sub>r</sub>: fixed 16s, accuracy ±20%

\* Time delay: non-tripping time 20ms / maximum break time 80ms

\* Tripping time: ≤50ms

## UTS400 FRAME

### CIRCUIT BREAKER

| WITH ETM33 TRIP UNIT (ELECTRONIC) |                                          |  |                                           |  |                                            |  |  |
|-----------------------------------|------------------------------------------|--|-------------------------------------------|--|--------------------------------------------|--|--|
| Ampere Rating, In                 | 65kA at 240V, 35kA at 480V, 18kA at 600V |  | 100kA at 240V, 65kA at 480V, 35kA at 600V |  | 150kA at 240V, 100kA at 480V, 50kA at 600V |  |  |
|                                   | 3-Pole                                   |  | 3-Pole                                    |  | 3-Pole                                     |  |  |
| 250A                              | UTS400-N-ETM33-250-3                     |  | UTS400-H-ETM33-250-3                      |  | UTS400-L-ETM33-250-3                       |  |  |
| 400A                              | UTS400-N-ETM33-450-3                     |  | UTS400-H-ETM33-450-3                      |  | UTS400-L-ETM33-450-3                       |  |  |

| Ampere Rating, In | Setting value                   |                                    |                                                   |                        |                                      |            |                    |
|-------------------|---------------------------------|------------------------------------|---------------------------------------------------|------------------------|--------------------------------------|------------|--------------------|
|                   | Overload protection (long time) |                                    | Short-circuit protection (short time)             |                        | Instantaneous                        | Option     |                    |
|                   | Ir (A)                          | Tr (s)                             | I <sub>sd</sub> (A)                               | t <sub>sd</sub> (ms)   | Ii (A)                               | Ig (A)     | tg (A)             |
| 250A              | 80~250A                         | 0.5, 1, 2, 4, 8, 16, Accuracy ±20% | (1.5, 2, 3, 4, 5, 6, 7, 8, 10) x Ir Accuracy ±15% | 50, 100, 200, 300, 400 | (1.5, 2, 3, 4, 5, 6, 8, 10, 11) x Ii | 0.2~1 x Ii | 100, 200, 300, 400 |
| 400A              | 150~400A                        |                                    |                                                   |                        |                                      |            |                    |

### MOLDED CASE SWITCH

| WITH MCS TRIP UNIT (FIXED MAGNETIC ONLY) |                                          |                    |                                           |                    |
|------------------------------------------|------------------------------------------|--------------------|-------------------------------------------|--------------------|
| Ampere Rating, In                        | 65kA at 240V, 35kA at 480V, 18kA at 600V |                    | 100kA at 240V, 65kA at 480V, 35kA at 600V |                    |
|                                          | 2-Pole                                   | 3-Pole             | 2-Pole                                    | 3-Pole             |
| 400A                                     | UTS400-N-MCS-400-2                       | UTS400-N-MCS-400-3 | UTS400-H-MCS-400-2                        | UTS400-H-MCS-400-3 |

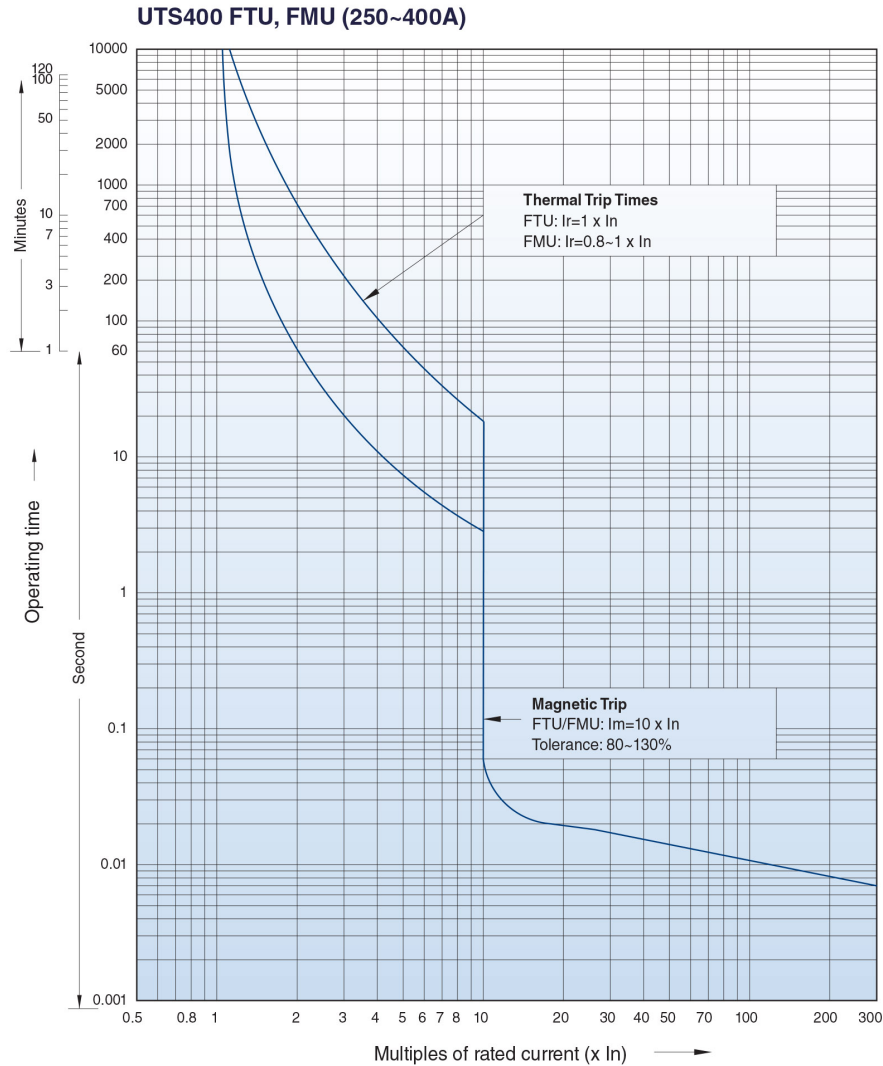
| Ampere Rating, In | 150kA at 240V, 100kA at 480V, 50kA at 600V |                    |
|-------------------|--------------------------------------------|--------------------|
|                   | 2-Pole                                     | 3-Pole             |
| 400A              | UTS400-L-MCS-400-2                         | UTS400-L-MCS-400-3 |

### MOTOR CIRCUIT PROTECTOR

| WITH MCP TRIP UNIT (ADJUSTABLE MAGNETIC ONLY) |                    |                    |                    |                |
|-----------------------------------------------|--------------------|--------------------|--------------------|----------------|
| Ampere Rating, In                             | 3-Pole             | 3-Pole             | 3-Pole             | Magnetic Range |
| 320A                                          | UTS400-N-MCP-320-3 | UTS400-H-MCP-320-3 | UTS400-L-MCP-320-3 | 1920-3840A     |

## UTS400 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<br>UTS400 | FTU                   |                        |
|------------------|-----------------------|------------------------|
|                  | 2P/3P                 | MAG TRIP<br>(80%~130%) |
| 250              | <input type="radio"/> | 2500A                  |
| 300              | <input type="radio"/> | 3000A                  |
| 350              | <input type="radio"/> | 3500A                  |
| 400              | <input type="radio"/> | 4000A                  |

| RATING<br>UTS400 | FMU                   |                            |                        |
|------------------|-----------------------|----------------------------|------------------------|
|                  | 2P/3P                 | RATING RANGE<br>(0.8~1xIn) | MAG TRIP<br>(80%~130%) |
| 300              | <input type="radio"/> | 240~300A                   | 3000A                  |
| 400              | <input type="radio"/> | 320~400A                   | 4000A                  |