



HND400U

**Moulded Case Circuit Breaker h400 3P 50kA 400A TM**

**Technical properties**

**Architecture**

|                 |     |
|-----------------|-----|
| Number of poles | 3 P |
| Type of pole    | 3 P |

**Functions**

|                                      |        |
|--------------------------------------|--------|
| Complete device with protection unit | Yes    |
| Trip Unit                            | TM A/A |
| Integrated earth fault protection    | No     |

**Configuration**

|                   |   |
|-------------------|---|
| Number of modules | 8 |
|-------------------|---|

**Main electrical features**

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Frequency                    | 50/60 Hz    |

**Voltage**

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 800 V |
| Rated impulse withstand voltage | 8 kV  |
| With under voltage release      | No    |

**Electric current**

|  |                |
|--|----------------|
| Rated current  | 400 A          |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 20 kA          |
| Thermal protection nob setting xIN   | 0.63 / 0.8 / 1 |
| Breaking capacity on 1 pole for IT 230V NF 60947-2                           | 51 kA          |
| Breaking capacity on 1 pole for IT 400V NF 60947-2                           | 9 kA           |
| Rated service breaking capacity Ics AC according IEC 60947-2                 | 100 %          |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA          |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 85 kA          |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA          |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 kA          |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 45 kA          |

**Current correction factors**

|   |   |
|---|---|
| Correction factor of rating current for 2 devices placed side-by-side       | 1 |
| Correction factor of rating current for 3 devices placed side-by-side       | 1 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 1 |
| Correction factor of rating current for 6 devices placed side-by-side       | 1 |

#### Power

|                           |      |
|---------------------------|------|
| Total power loss under IN | 75 W |
| Power loss per pole at In | 25 W |

#### Tripping

|                               |       |
|-------------------------------|-------|
| Tripmode                      | TM    |
| Thermal protection trip time  | 0 ms  |
| Time of response when opening | 10 ms |

#### Electrical specifications

|                          |      |
|--------------------------|------|
| Magnetic trip delay time | 0 ms |
|--------------------------|------|

#### Endurance

|  |      |
|--|------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations        | 4000 |

#### Installation, mounting

|   |    |
|---|----|
| DIN rail mounting with optional adaptator | No |
|---|----|

#### Connection

|                                    |                         |
|------------------------------------|-------------------------|
| Connection cross-sect. rigid cable | 35 / 240mm <sup>2</sup> |
| Type of connection                 | Terminal                |

#### Settings

|                                     |  |
|-------------------------------------|--|
| Range of the magnetic adjustment    | 2400 / 2800 / 3200 / 3600 / 4000 / 4400 / 4800 A |
| Magnetic protection nob setting xIN | 6 / 8 / 10 / 12                                  |
| Setting type In or Ith              | IN   |

#### Equipment

|   |     |
|---|-----|
| Number of auxiliary contacts as normally closed contact | 0   |
| Number of auxiliary contacts as normally open contact   | 0   |
| Number of auxiliary contacts as change-over contact     | 0   |
| Motor drive optional                                    | Yes |

#### Standards

|                         |           |
|-------------------------|-----------|
| European directive WEEE | concerned |
|-------------------------|-----------|

#### Safety

|               |     |
|---------------|-----|
| REACH conform | Yes |
| RoHS conform  | Yes |

#### Use conditions

Subject to technical modifications

|                               |                  |
|-------------------------------|------------------|
| Operating temperature         | -25...70 °C      |
| Altitude                      | 2000 m           |
| Air humidity protection       | for all climates |
| Storage/transport temperature | -35...70 °C      |