



HHA100U

## Moulded Case Circuit Breaker h3 x160 TM ADJ 3P3D 100A 25kA CTC

### Technical properties

#### Architecture

|                           |                 |
|---------------------------|-----------------|
| Neutral position          | without neutral |
| Number of protected poles | 3               |
| Number of poles           | 3 P             |

#### Functions

|                                   |        |
|-----------------------------------|--------|
| Trip Unit                         | TM A/F |
| Integrated earth fault protection | No     |
| Concurrently switching N-neutral  | No     |

#### Controls and indicators

|                        |    |
|------------------------|----|
| Motor drive integrated | No |
|------------------------|----|

#### Main electrical features

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 415 V |
| Frequency                    | 50/60 Hz    |

#### Voltage

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 690 V |
| Rated impulse withstand voltage | 8 kV  |
| With under voltage release      | No    |

#### Electric current

|  |                |
|--|----------------|
| Rated current  | 100 A          |
| Thermal protection nob setting xIN   | 0.63 / 0.8 / 1 |
| Rating current 10°C according to IEC 60947                                   | 121.6 A        |
| Rating current 15°C according to IEC 60947                                   | 119.1 A        |
| Rating current 20°C according to IEC 60947                                   | 116.6 A        |
| Rating current 25°C according to IEC 60947                                   | 114 A          |
| Rating current 30°C according to IEC 60947                                   | 111.3 A        |
| Rating current 35°C according to IEC 60947                                   | 108.6 A        |
| Rating current 40°C according to IEC 60947                                   | 105.8 A        |
| Rating current 45°C according to IEC 60947                                   | 102.9 A        |
| Rating current 50°C according to IEC 60947                                   | 100 A          |
| Rating current 55°C according to IEC 60947                                   | 96.9 A         |
| Rating current 60°C according to IEC 60947                                   | 93.8 A         |
| Rating current 65°C according to IEC 60947                                   | 90.5 A         |
| Rating current 70°C according to IEC 60947                                   | 87.1 A         |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 35 kA          |

|  |                 |
|--|-----------------|
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 35 kA           |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 25 kA           |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 25 kA           |
| Range of the thermal adjustment  | 63 / 80 / 100 A |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 25 kA           |

#### Dimensions

|                             |        |
|-----------------------------|--------|
| Depth of installed product  | 68 mm  |
| Height of installed product | 130 mm |
| Width of installed product  | 75 mm  |

#### Frequency

|           |             |
|-----------|-------------|
| Frequency | 50 to 60 Hz |
|-----------|-------------|

#### Power

|                                |        |
|--------------------------------|--------|
| Power loss per pole at 0.63*In | 4.7 W  |
| Power loss per pole at 0.8*In  | 7.6 W  |
| Total power loss at 0.63*In    | 14.2 W |
| Total power loss at 0.8*In     | 22.9 W |
| Total power loss under IN      | 35.7 W |
| Power loss per pole at In      | 11.9 W |

#### Endurance

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

#### Settings

|                                  |        |
|----------------------------------|--------|
| Range of the magnetic adjustment | 1500 A |
|----------------------------------|--------|

#### 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   |
| Can be accessorized                                     | Yes |

#### Standards

|                         |             |
|-------------------------|-------------|
| Standard text           | IEC 60947-2 |
| European directive WEEE | concerned   |

#### Safety

|               |     |
|---------------|-----|
| REACH conform | Yes |
| RoHS conform  | Yes |
| Halogen free  | No  |

#### Use conditions

|   |        |
|---|--------|
| Degree of pollution according to IEC 60664 /<br>IEC 60947-2 | 3      |
| Altitude  | 2000 m |
| <b>temperatur</b>   |        |
| Temperature of calibration                                  | 50 °C  |