



HND630H

## Moulded Case Circuit Breaker h630 3P 50kA 630A LSI

### Technical characteristics

#### Architecture

|                 |     |
|-----------------|-----|
| Number of poles | 3 P |
|-----------------|-----|

#### Functions

|                                      |     |
|--------------------------------------|-----|
| Complete device with protection unit | Yes |
| Trip Unit                            | LSI |
| 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  | 630 A                                   |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 20 kA                                   |
| Thermal protection nob setting xIN   | 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 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   |
| <b>Power</b>  |   |
| Total power loss under I <sub>N</sub>                                       | 120 W   |
| Power loss per pole at I <sub>N</sub>                                       | 40 W  |
| <b>Tripping</b>   |   |
| Trip mode   | LSI   |
| Thermal protection trip time  | 5 / 10 / 11 / 16 / 21 ms                                |
| Time of response when opening   | 10 ms   |
| <b>Electrical specifications</b>  |   |
| Magnetic trip delay time  | 100 to 200 ms   |
| <b>Endurance</b>  |   |
| Electric endurance in number of cycles                                      | 1000  |
| Number of mechanical operations   | 4000  |
| <b>Installation, mounting</b>   |   |
| DIN rail mounting with optional adaptor                                     | No  |
| <b>Connection</b>   |   |
| Connection cross-sect. rigid cable  | 35 / 240mm <sup>2</sup>                                 |
| Type of connection  | Terminal  |
| <b>Settings</b>   |   |
| Range of the magnetic adjustment  | 3500 / 4410 / 5600 / 6300 / 6300 / 6300 / 6300 / 6300 A |
| Magnetic protection nob setting xI <sub>N</sub>                             | 2.5 / 5 / 8   |
| Setting type I <sub>N</sub> or I <sub>th</sub>                              | I <sub>r</sub> Th                                       |
| <b>Equipment</b>  |   |
| 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   |
| <b>Use cases</b>  |   |
| Category of use   | A   |
| <b>Standards</b>  |   |
| Standard text   | IEC 60947-2   |
| European directive WEEE   | concerned   |

**Use conditions**

|                               |             |
|-------------------------------|-------------|
| Operating temperature         | -25...70 °C |
| Altitude                      | 2000 m      |
| Storage/transport temperature | -35...70 °C |