



HNE801H

## Moulded Case Circuit Breaker h1000 4P 50kA 800A LSI

### Technical properties

#### Architecture

|                 |     |
|-----------------|-----|
| Number of poles | 4 P |
|-----------------|-----|

#### Functions

|                                      |     |
|--------------------------------------|-----|
| Complete device with protection unit | Yes |
| Trip Unit                            | LSI |
| Integrated earth fault protection    | No  |

#### Configuration

|                   |    |
|-------------------|----|
| Number of modules | 16 |
|-------------------|----|

#### 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                                                                | 800 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 / 0.9 / 0.95 / 1 |
| Thermal setting current on neutral pole                                      | 0 / 0.5 / 1 In                    |
| 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 | 153.6 W |
| Power loss per pole at In | 51.2 W  |

#### Tripping

|                               |                               |
|-------------------------------|-------------------------------|
| Tripmode                      | LSI                           |
| Thermal protection trip time  | 5 / 10 / 11 / 19 / 21 / 29 ms |
| Time of response when opening | 10 ms                         |

#### Electrical specifications

|                          |               |
|--------------------------|---------------|
| Magnetic trip delay time | 100 to 200 ms |
|--------------------------|---------------|

#### Endurance

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

#### Installation, mounting

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

#### Connection

|                    |          |
|--------------------|----------|
| Type of connection | Terminal |
|--------------------|----------|

#### Settings

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| Range of the magnetic adjustment    | 4480 / 5600 / 7000 / 8960 / 9600 / 9600 / 9600 A |
| Magnetic protection nob setting xIN | 2.5 / 5 / 10                                     |
| Setting type In or Ith              | IrTh                                             |

#### 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 |

#### Use cases

|                 |   |
|-----------------|---|
| Category of use | A |
|-----------------|---|

#### Standards

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

#### Use conditions

|                       |             |
|-----------------------|-------------|
| Operating temperature | -25...70 °C |
|-----------------------|-------------|

Subject to technical modifications

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