



HEF991H

## Moulded Case Circuit Breaker h1600 4P 70kA 1600A LSI

### Technical characteristics

#### Electric current

|   |         |
|---|---------|
| Rated current   | 1,600 A |
| Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2 | 100 kA  |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 100 kA  |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 | 70 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2 | 70 kA   |
| Breaking capacity on 1-pole for AC 230 V IEC 60947-2                          | 60 kA   |
| Breaking capacity on 1-pole for AC 400 V IEC 60947-2                          | 9 kA    |

#### Architecture

|                           |                |
|---------------------------|----------------|
| Number of poles           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |

#### Capacity

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

#### Tripping

|                            |       |
|----------------------------|-------|
| Response time when opening | 10 ms |
|----------------------------|-------|

#### Settings

|   |  |
|---|--|
| Magnetic protection knob setting xIN                      | 2.5, 5, 10   |
| Range of magnetic adjustment                              | 8960 A, 11200 A, 14000 A, 17920 A, 19200 A, 19200 A, 19200 A |
| Thermal protection knob setting xIN                       | 0.4, 0.5, 0.63, 0.8, 0.9, 0.95, 1                            |
| Adjustment range short-term delayed short-circuit release | 0 - 0 A  |

#### Frequency

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

#### Installation, mounting

|                               |            |
|-------------------------------|------------|
| Nominal tightening torque     | 65 - 65 Nm |
| Mounting-/Connection Position | Front      |

#### Voltage

|                                      |         |
|--------------------------------------|---------|
| Rated impulse withstand voltage Uimp | 8,000 V |
| Rated insulation voltage Ui          | 800 V   |

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 - 690 V |
|------------------------------|-------------|

### Functions

|           |     |
|-----------|-----|
| Trip unit | LSI |
|-----------|-----|

### Main electrical attributes

|                               |              |
|-------------------------------|--------------|
| Magnetic protection trip time | 100 - 200 ms |
|-------------------------------|--------------|

### Power

|                           |          |
|---------------------------|----------|
| Total power loss under IN | 168.90 W |
|---------------------------|----------|

|                           |         |
|---------------------------|---------|
| Power loss per pole at In | 56.30 W |
|---------------------------|---------|

### Endurance

|  |       |
|--|-------|
| Electric endurance in number of cycles | 1,000 |
|--|-------|

|                                 |       |
|---------------------------------|-------|
| Number of mechanical operations | 4,000 |
|---------------------------------|-------|

### Equipment

|   |   |
|---|---|
| Number of auxiliary contacts as change-over contact | 0 |
|---|---|

|   |   |
|---|---|
| Number of auxiliary contacts as normally closed contact | 0 |
|---|---|

|   |   |
|---|---|
| Number of auxiliary contacts as normally open contact | 0 |
|---|---|

### Safety

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

### Use conditions

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

### Connection

|                                  |                        |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 3x 240 mm <sup>2</sup> |
|----------------------------------|------------------------|

|                               |                        |
|-------------------------------|------------------------|
| Cross-section rigid conductor | 3x 240 mm <sup>2</sup> |
|-------------------------------|------------------------|

|                     |          |
|---------------------|----------|
| Connector/plug type | Terminal |
|---------------------|----------|

### Controls and indicators

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

### Compatibility

|                       |    |
|-----------------------|----|
| Suitable for DIN Rail | No |
|-----------------------|----|

### Power supply

|                       |               |
|-----------------------|---------------|
| Position power supply | Bidirectional |
|-----------------------|---------------|