



HEC040H

## Moulded Case Circuit Breaker h250 3P 70kA 40A LSI

### Technical properties

#### Architecture

|                 |        |
|-----------------|--------|
| Type of order   | Toggle |
| Number of poles | 3 P    |
| Type of pole    | 3P3D   |

#### Functions

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

#### Configuration

|                   |   |
|-------------------|---|
| Number of modules | 6 |
|-------------------|---|

#### 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  | 40 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                 | 71 %                                    |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 100 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 | 70 kA                                   |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 70 kA                                   |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 50 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 | 1.9 W |
| Power loss per pole at In | 0.6 W |

**Tripping**

|                               |                    |
|-------------------------------|--------------------|
| Tripmode                      | LSI                |
| Thermal protection trip time  | 5 / 8 / 11 / 21 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 adaptor | No |
|---|----|

**Connection**

|   |                         |
|---|-------------------------|
| Connection cross-sect. flexible conductor | 35 / 150mm <sup>2</sup> |
| Connection cross-sect. rigid cable        | 35 / 185mm <sup>2</sup> |
| Connection                                | Front connection        |
| Type of connection                        | Terminal                |

**Settings**

|                                     |   |
|-------------------------------------|---|
| Range of the magnetic adjustment    | 224 / 280 / 350 / 448 / 504 / 520 / 520 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        |
| <b>Safety</b>                 |                  |
| Protection index IP           | IP4X             |
| <b>Use conditions</b>         |                  |
| Operating temperature         | -25...70 °C      |
| Altitude                      | 2000 m           |
| Air humidity protection       | for all climates |
| Storage/transport temperature | -35...70 °C      |