



HMT040GR

### Moulded Case Circuit Breaker h3+ P250 LSnl 3P3D 40A 50kA FTC

#### Technical Features

##### Electric current

|   |         |
|---|---------|
| Rated current   | 40 A    |
| Rated ultimate short-circuit breaking capacity Icu under 230 V AC IEC 60947-2 | 65 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 65 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 | 50 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2 | 50 kA   |
| Breaking capacity on 1-pole for AC 230 V IEC 60947-2                          | 2.50 kA |
| Breaking capacity on 1-pole for AC 400 V IEC 60947-2                          | 2.50 kA |

##### Architecture

|                           |                 |
|---------------------------|-----------------|
| Number of poles           | 3               |
| Control/operation element | Toggle          |
| Device construction type  | Fixed built-in  |
| Neutral position          | Without neutral |

##### Electric current

|   |       |
|---|-------|
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2 | 65 kA |
| Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2 | 50 kA |
| Rated current 10°C according to IEC 60947                                   | 40 A  |
| Rated current 15°C according to IEC 60947                                   | 40 A  |
| Rated current 20°C according to IEC 60947                                   | 40 A  |
| Rated current 25°C according to IEC 60947                                   | 40 A  |
| Rated current 30°C according to IEC 60947                                   | 40 A  |
| Rated current at 35°C according to IEC 60947                                | 40 A  |
| Rated current at 40°C according to IEC 60947                                | 40 A  |
| Rated current 45°C according to IEC 60947                                   | 40 A  |
| Rated current 50°C according to IEC 60947                                   | 40 A  |
| Rated current 55°C according to IEC 60947                                   | 40 A  |
| Rated current at 60°C according to IEC 60947                                | 40 A  |
| Rated current 65°C according to IEC 60947                                   | 40 A  |
| Rated current 70°C according to IEC 60947                                   | 40 A  |

##### Settings

|   |                |
|---|----------------|
| Ir1 current dial setting                                  | 16 A           |
|   | 18 A           |
|   | 20 A           |
|   | 22 A           |
|   | 25 A           |
|   | 28 A           |
|   | 32 A           |
|   | 34 A           |
|   | 37 A           |
|   | 40 A           |
| Adjustment range short-term delayed short-circuit release | 21.9 - 400.0 A |

##### Frequency

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

##### Installation, mounting

|                               |            |
|-------------------------------|------------|
| Nominal tightening torque     | 12 - 12 Nm |
| Mounting-/Connection Position | Front      |

##### Voltage

|                                      |             |
|--------------------------------------|-------------|
| Rated impulse withstand voltage Uimp | 8000 V      |
| Rated insulation voltage Ui          | 800 V       |
| Rated operational voltage Ue         | 220 - 690 V |

##### Functions

|           |      |
|-----------|------|
| Trip unit | LSNI |
|-----------|------|

#### Power

|                                       |        |
|---------------------------------------|--------|
| Total power loss under I <sub>N</sub> | 1.14 W |
| Power loss per pole at I <sub>N</sub> | 0.38 W |

#### Endurance

|  |       |
|--|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations        | 40000 |

#### 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 | 35 - 150 mm <sup>2</sup> |
| Cross-section rigid conductor    | 35 - 185 mm <sup>2</sup> |
| Connector/plug type              | Terminal                 |

#### Cable

|                |                     |
|----------------|---------------------|
| Cable material | Copper<br>Aluminium |
|----------------|---------------------|

#### Dimensions

|        |        |
|--------|--------|
| Height | 165 mm |
| Width  | 105 mm |
| Depth  | 97 mm  |

#### Controls and indicators

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

#### Compatibility

|                                 |     |
|---------------------------------|-----|
| Suitable for DIN Rail           | No  |
| Compatible with RDC AOB         | No  |
| Suitable for distribution board | Yes |

#### Power supply

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

#### Electrical protection

|   |        |
|---|--------|
| Long-time overload protection (ltd): delay (tr)         | 5 s    |
| Short-time protection (std): current (Isd)              | 1.5    |
|   | 2      |
|   | 3      |
|   | 4      |
|   | 5      |
|   | 6      |
|   | 7      |
|   | 8      |
|   | 10     |
| Short-time protection (std): delay (tsd)                | 100 ms |
| Instantaneous protection (li): dial setting coefficient | 15     |

#### Sustainability

|              |     |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|