



HMS100GC

### Moulded Case Circuit Breaker h3+ P160 LSnl 3P3D 100A 50kA CTC

#### Technical Features

##### Electric current

|                                                                                           |         |
|-------------------------------------------------------------------------------------------|---------|
| Rated current                                                                             | 100 A   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2 | 65 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 65 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 50 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> 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 I <sub>cs</sub> under 230 V AC according to IEC 60947-2 | 65 kA |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2 | 50 kA |
| Rated current 10°C according to IEC 60947                                               | 100 A |
| Rated current 15°C according to IEC 60947                                               | 100 A |
| Rated current 20°C according to IEC 60947                                               | 100 A |
| Rated current 25°C according to IEC 60947                                               | 100 A |
| Rated current 30°C according to IEC 60947                                               | 100 A |
| Rated current at 35°C according to IEC 60947                                            | 100 A |
| Rated current at 40°C according to IEC 60947                                            | 100 A |
| Rated current 45°C according to IEC 60947                                               | 100 A |
| Rated current 50°C according to IEC 60947                                               | 100 A |
| Rated current 55°C according to IEC 60947                                               | 100 A |
| Rated current at 60°C according to IEC 60947                                            | 100 A |
| Rated current 65°C according to IEC 60947                                               | 100 A |
| Rated current 70°C according to IEC 60947                                               | 100 A |

##### Settings

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| Ir1 current dial setting                                  | 40 A            |
|                                                           | 45 A            |
|                                                           | 50 A            |
|                                                           | 57 A            |
|                                                           | 63 A            |
|                                                           | 72 A            |
|                                                           | 80 A            |
|                                                           | 87 A            |
|                                                           | 93 A            |
|                                                           | 100 A           |
| Adjustment range short-term delayed short-circuit release | 54.6 - 1000.0 A |

##### Frequency

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

##### Installation, mounting

|                               |          |
|-------------------------------|----------|
| Nominal tightening torque     | 6 - 6 Nm |
| Mounting-/Connection Position | Front    |

##### Voltage

|                                                  |             |
|--------------------------------------------------|-------------|
| Rated impulse withstand voltage U <sub>imp</sub> | 8000 V      |
| Rated insulation voltage U <sub>i</sub>          | 800 V       |
| Rated operational voltage U <sub>e</sub>         | 220 - 690 V |

##### Functions

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

#### Power

|                                       |         |
|---------------------------------------|---------|
| Total power loss under I <sub>N</sub> | 10.50 W |
| Power loss per pole at I <sub>N</sub> | 3.50 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 | 6 - 70 mm <sup>2</sup> |
| Cross-section rigid conductor    | 6 - 95 mm <sup>2</sup> |

#### Cable

|                |        |
|----------------|--------|
| Cable material | Copper |
|----------------|--------|

#### Dimensions

|        |        |
|--------|--------|
| Height | 130 mm |
| Width  | 90 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     |