



HHS161GC

**Moulded Case Circuit Breaker h3+ P160 LSnl 4P4D N0-50-100% 160A 25kA CTC**

**Technical Features**

**Electric current**

|   |         |
|---|---------|
| Rated current   | 160 A   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2 | 35 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 35 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 25 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2 | 25 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           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |
| Neutral position          | Left           |

**Electric current**

|   |       |
|---|-------|
| Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947 | 35 kA |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947 | 25 kA |
| Rated current 10°C according to IEC 60947   | 160 A |
| Rated current 15°C according to IEC 60947   | 160 A |
| Rated current 20°C according to IEC 60947   | 160 A |
| Rated current 25°C according to IEC 60947   | 160 A |
| Rated current 30°C according to IEC 60947   | 160 A |
| Rated current at 35°C according to IEC 60947  | 160 A |
| Rated current at 40°C according to IEC 60947  | 160 A |
| Rated current 45°C according to IEC 60947   | 160 A |
| Rated current 50°C according to IEC 60947   | 160 A |
| Rated current 55°C according to IEC 60947   | 160 A |
| Rated current at 60°C according to IEC 60947  | 159 A |
| Rated current 65°C according to IEC 60947   | 145 A |
| Rated current 70°C according to IEC 60947   | 135 A |

**Settings**

|   |             |
|---|-------------|
| Ir1 current dial setting                                  | 63 A        |
|   | 70 A        |
|   | 80 A        |
|   | 90 A        |
|   | 100 A       |
|   | 110 A       |
|   | 125 A       |
|   | 135 A       |
|   | 150 A       |
|   | 160 A       |
| Adjustment range short-term delayed short-circuit release | 86 - 1600 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> | 27 W |
| Power loss per pole at I <sub>N</sub> | 9 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  | 120 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 | 11     |

**Sustainability**

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