



HMS161GC

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

Technical Features

Electric current

| | |
|---|---------|
| Rated current | 160 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} 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 | 4 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |
| Neutral position | Left |

Electric current

| | |
|---|-------|
| Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2 | 65 kA |
| Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2 | 50 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

| | |
|---|-------------|
| I _{r1} 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 _{imp} | 8000 V |
| Rated insulation voltage U _i | 800 V |
| Rated operational voltage U _e | 220 - 690 V |

Functions

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

Power

| | |
|---------------------------------------|------|
| Total power loss under I _N | 27 W |
| Power loss per pole at I _N | 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 ² |
| Cross-section rigid conductor | 6 - 95 mm ² |

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 (I _{td}): delay (t _r) | 5 s |
| Short-time protection (I _{sd}): current (I _{sd}) | 1.5 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 10 |
| Short-time protection (I _{sd}): delay (t _{sd}) | 100 ms |
| Instantaneous protection (I _i): dial setting coefficient | 11 |

Sustainability

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