



HMS161JC

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

#### Technical Features

##### Electric current

|   |         |
|---|---------|
| Rated current   | 160 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           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |
| Neutral position          | Left           |

##### Electric current

|   |       |
|---|-------|
| Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2 | 6 kA  |
| Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2   | 65 kA |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2   | 65 kA |
| Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2   | 65 kA |
| Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2   | 6 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 70°C according to IEC 60947                                     | 135 A |
| Rated current 65°C according to IEC 60947                                     | 145 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 Uimp | 8000 V      |
| Rated insulation voltage Ui          | 800 V       |
| Rated operational voltage Ue         | 220 - 690 V |

#### Functions

|           |     |
|-----------|-----|
| Trip unit | LSI |
|-----------|-----|

#### Power

|                           |      |
|---------------------------|------|
| Total power loss under IN | 27 W |
| Power loss per pole at In | 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> |
|----------------------------------|------------------------|

#### Cover, door

|               |     |
|---------------|-----|
| Interlockable | Yes |
|---------------|-----|

#### Connection

|                               |                        |
|-------------------------------|------------------------|
| Cross-section rigid conductor | 6 - 95 mm <sup>2</sup> |
|-------------------------------|------------------------|

#### Cable

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

#### Use conditions

|  |   |
|--|---|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
|--|---|

#### 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 |
|-----------------------|---------------|

#### Connectivity

|                    |                |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

**Electrical protection**

|   |        |
|---|--------|
| Long-time overload protection (ltd): delay (tr)         | 0.5 s  |
|   | 1.5 s  |
|   | 2.5 s  |
|   | 5 s    |
|   | 7.5 s  |
|   | 9 s    |
|   | 10 s   |
|   | 12 s   |
|   | 14 s   |
|   | 16 s   |
|   |        |
| Short-time protection (std): current (lsd)              | 1.5    |
|   | 2      |
|   | 3      |
|   | 4      |
|   | 5      |
|   | 6      |
|   | 7      |
|   | 8      |
|   | 10     |
|   |        |
| Short-time protection (std): delay (tsd)                | 50 ms  |
|   | 100 ms |
|   | 200 ms |
|   | 300 ms |
|   | 400 ms |
| Instantaneous protection (li): dial setting coefficient | 3      |
|   | 4      |
|   | 5      |
|   | 6      |
|   | 7      |
|   | 8      |
|   | 9      |
|   | 10     |
|   | 11     |
|   |        |

**Sustainability**

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