



HMS041JC

### Moulded Case Circuit Breaker h3+ P160 LSI 4P4D N0-50-100% 40A 50kA CTC

#### Technical Features

##### Electric current

|                                                                                           |         |
|-------------------------------------------------------------------------------------------|---------|
| Rated current                                                                             | 40 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           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |
| Neutral position          | Left           |

##### Electric current

|                                                                                           |       |
|-------------------------------------------------------------------------------------------|-------|
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2 | 6 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2   | 65 kA |
| 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 240 V AC according to IEC 60947-2   | 65 kA |
| Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2   | 50 kA |
| Rated service breaking capacity I <sub>cs</sub> under 690 V AC according to IEC 60947-2   | 6 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 70°C according to IEC 60947                                                 | 40 A  |
| Rated current 65°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     | 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 | 1.68 W |
| Power loss per pole at In | 0.56 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      |
|                                                         | 10     |
|                                                         | 12     |
|                                                         | 15     |
|                                                         |        |

Sustainability

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