



HMS081DC

### Moulded Case Circuit Breaker h3+ P160 TM ADJ 4P4D N0-100% 80A 50kA CTC

#### Technical Features

##### Electric current

|                                                                                           |          |
|-------------------------------------------------------------------------------------------|----------|
| Rated current                                                                             | 80 A     |
| 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 240 V AC 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 400 V AC according to IEC 60947-2   | 50 kA    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 660 V AC IEC 60947-2 | 6 kA     |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2 | 6 kA     |
| Rated current 10°C according to IEC 60947                                                 | 102.30 A |
| Rated current 15°C according to IEC 60947                                                 | 99.80 A  |
| Rated current 20°C according to IEC 60947                                                 | 97.20 A  |
| Rated current 25°C according to IEC 60947                                                 | 94.60 A  |
| Rated current 30°C according to IEC 60947                                                 | 91.80 A  |
| Rated current at 35°C according to IEC 60947                                              | 89 A     |
| Rated current at 40°C according to IEC 60947                                              | 86.10 A  |
| Rated current 45°C according to IEC 60947                                                 | 83.10 A  |
| Rated current 50°C according to IEC 60947                                                 | 80 A     |
| Rated current 55°C according to IEC 60947                                                 | 76.80 A  |
| Rated current at 60°C according to IEC 60947                                              | 73.40 A  |
| Rated current 65°C according to IEC 60947                                                 | 69.80 A  |
| Rated current 70°C according to IEC 60947                                                 | 66.10 A  |

##### Architecture

|                           |                |
|---------------------------|----------------|
| Number of poles           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |
| Neutral position          | Left           |

##### Frequency

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

##### 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 | TM A/A |
|-----------|--------|

##### Power

|                                       |         |
|---------------------------------------|---------|
| Total power loss under I <sub>N</sub> | 17.70 W |
|---------------------------------------|---------|

##### Endurance

|                                        |       |
|----------------------------------------|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations        | 40000 |

##### Safety

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

##### Connection

|                                  |                        |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 6 - 70 mm <sup>2</sup> |
| Cross-section rigid conductor    | 6 - 95 mm <sup>2</sup> |

##### Connectivity

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

##### Cover, door

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

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**Settings**

|                                     |                  |
|-------------------------------------|------------------|
| Thermal protection knob setting xIN | 0.63<br>0.8<br>1 |
|-------------------------------------|------------------|

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**Cable**

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

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**Compatibility**

|                                 |     |
|---------------------------------|-----|
| Compatible with RDC AOB         | No  |
| Suitable for DIN Rail           | No  |
| Suitable for distribution board | Yes |

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**Dimensions**

|            |              |
|------------|--------------|
| Dimensions | 130 x 120 mm |
| Height     | 130 mm       |
| Width      | 120 mm       |
| Depth      | 97 mm        |

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**Installation, mounting**

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

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**Electrical protection**

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| Instantaneous protection (li): dial setting coefficient | 6<br>8<br>10<br>12 |
|---------------------------------------------------------|--------------------|

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**Sustainability**

|                 |     |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform    | Yes |