



HNT051DR

### Moulded Case Circuit Breaker h3+ P250 TM ADJ 4P4D N0-100% 50A 40kA FTC

#### Technical Features

##### Electric current

|                                                                                           |         |
|-------------------------------------------------------------------------------------------|---------|
| Rated current                                                                             | 50 A    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 40 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 50 kA   |
| Rated service breaking capacity I <sub>cs</sub> under 230 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   | 40 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                                                 | 63.10 A |
| Rated current 15°C according to IEC 60947                                                 | 61.60 A |
| Rated current 20°C according to IEC 60947                                                 | 60.10 A |
| Rated current 25°C according to IEC 60947                                                 | 58.50 A |
| Rated current 30°C according to IEC 60947                                                 | 56.90 A |
| Rated current at 35°C according to IEC 60947                                              | 55.30 A |
| Rated current at 40°C according to IEC 60947                                              | 53.60 A |
| Rated current 45°C according to IEC 60947                                                 | 51.80 A |
| Rated current 50°C according to IEC 60947                                                 | 50 A    |
| Rated current 55°C according to IEC 60947                                                 | 48.10 A |
| Rated current at 60°C according to IEC 60947                                              | 46.20 A |
| Rated current 65°C according to IEC 60947                                                 | 44.10 A |
| Rated current 70°C according to IEC 60947                                                 | 42 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> | 15 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 | 35 - 150 mm <sup>2</sup> |
| Cross-section rigid conductor    | 35 - 185 mm <sup>2</sup> |

##### Cover, door

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

##### Settings

|                                                 |                  |
|-------------------------------------------------|------------------|
| Thermal protection knob setting xI <sub>N</sub> | 0.63<br>0.8<br>1 |
|-------------------------------------------------|------------------|

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**Cable**

|                |                     |
|----------------|---------------------|
| Cable material | Copper<br>Aluminium |
|----------------|---------------------|

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**Compatibility**

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

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**Dimensions**

|                                                         |                         |
|---------------------------------------------------------|-------------------------|
| Dimensions                                              | 165 x 140 mm            |
| Height                                                  | 165 mm                  |
| Width                                                   | 140 mm                  |
| Depth                                                   | 97 mm                   |
| Downstream busbar: width, height, diameter screw (max.) | 4 mm<br>8.5 mm<br>25 mm |
| Top stream busbar: width, height, diameter screw (max.) | 4 mm<br>8.5 mm<br>25 mm |

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**Installation, mounting**

|                                         |            |
|-----------------------------------------|------------|
| Mounting-/Connection Position           | Front      |
| Nominal tightening torque               | 12 - 12 Nm |
| Nominal tightening torque down terminal | 12 - 12 Nm |
| Nominal tightening torque top terminal  | 12 - 12 Nm |

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**Electrical protection**

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| Instantaneous protection (li): dial setting coefficient | 6<br>8<br>10<br>13 |
|---------------------------------------------------------|--------------------|

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**Sustainability**

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