



HHB251Z

### Moulded Case Circuit Breaker X250 4P 25kA 250A TM

#### Technical Features

##### Electric current

|                                                                                           |          |
|-------------------------------------------------------------------------------------------|----------|
| Rated current                                                                             | 250 A    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 25 kA    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 35 kA    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2 | 2 kA     |
| Rated current 10°C according to IEC 60947                                                 | 299 A    |
| Rated current 15°C according to IEC 60947                                                 | 293.20 A |
| Rated current 20°C according to IEC 60947                                                 | 287.50 A |
| Rated current 25°C according to IEC 60947                                                 | 281.70 A |
| Rated current 30°C according to IEC 60947                                                 | 275.50 A |
| Rated current at 35°C according to IEC 60947                                              | 269.50 A |
| Rated current at 40°C according to IEC 60947                                              | 263 A    |
| Rated current 45°C according to IEC 60947                                                 | 256.50 A |
| Rated current 50°C according to IEC 60947                                                 | 250 A    |
| Rated current 55°C according to IEC 60947                                                 | 243 A    |
| Rated current at 60°C according to IEC 60947                                              | 236.20 A |
| Rated current 65°C according to IEC 60947                                                 | 229.20 A |
| Rated current 70°C according to IEC 60947                                                 | 222.20 A |

##### Architecture

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

##### Tripping

|                            |       |
|----------------------------|-------|
| Response time when opening | 10 ms |
|----------------------------|-------|

##### 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  |

##### Functions

|           |        |
|-----------|--------|
| Trip unit | TM F/F |
|-----------|--------|

##### Power

|                                       |      |
|---------------------------------------|------|
| Total power loss under I <sub>N</sub> | 48 W |
|---------------------------------------|------|

##### Endurance

|                                        |      |
|----------------------------------------|------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations        | 4000 |

##### 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> |

##### Installation, mounting

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

##### Settings

|                                                           |         |
|-----------------------------------------------------------|---------|
| Thermal protection knob setting xI <sub>N</sub>           | 1       |
|                                                           | 1       |
| Adjustment range short-term delayed short-circuit release | 0 - 0 A |

|                                   |          |
|-----------------------------------|----------|
| <b>Compatibility</b>              |          |
| Suitable for DIN Rail             | No       |
| <b>Main electrical attributes</b> |          |
| Magnetic protection trip time     | 0 - 0 ms |
| <b>Sustainability</b>             |          |
| REACH-SVHC free                   | Yes      |
| RoHS conform                      | Yes      |