# Product datasheet

Specifications



## circuit breaker Masterpact NT08H2 - 800 A - 3 poles - fixed - w/o trip unit

47123

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product name** | MasterPact NT |
| **Circuit breaker name** | MasterPact NT08H2 |
| **Product or component type** | Circuit breaker |
| **Device application** | Power distribution protection |
| **Poles description** | 3P |
| **Control unit** | Without control unit |
| **[In] rated current** | 800 A at 40 °C |
| **Performance type** | H2 50 kA 440 V AC |
| **[Ue] rated operational voltage** | 690 V AC 50/60 Hz |
| **Suitability for isolation** | Yes conforming to EN/IEC 60947-2 |
| **Selectivity category** | Category B |
| **Control type** | Push-button |
| **Mounting mode** | Fixed |

## Complementary

| | |
|---|---|
| **[Icu] rated ultimate short-circuit breaking capacity** | 50 kA at 220/415 V AC 50/60 Hz<br>50 kA at 440 V AC 50/60 Hz<br>42 kA at 525 V AC 50/60 Hz<br>42 kA at 690 V AC 50/60 Hz |
| **[Ics] rated service breaking capacity** | 42 kA at 220/415 V AC 50/60 Hz<br>42 kA at 440 V AC 50/60 Hz<br>50 kA at 525 V AC 50/60 Hz<br>50 kA at 690 V AC 50/60 Hz |
| **[Icw] rated short-time withstand current** | 42 kA 0.5 s<br>42 kA 1 s<br>20 kA 3 s |
| **[Icm] rated short-circuit making capacity** | 105 kA 220/415 V AC at 50/60 Hz<br>105 kA 440 V AC at 50/60 Hz<br>88 kA 525 V AC at 50/60 Hz<br>88 kA 690 V AC at 50/60 Hz |
| **Integrated instantaneous protection (DIN in kA peak)** | 81…99 kA |
| **Sensor rating** | 400 A<br>800 A |
| **[Ui] rated insulation voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 12 kV |
| **Power dissipation in W** | 50 W |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

| | |
|---|---|
| **Maximum breaking time** | 25 ms |
| **Maximum closing response time** | 50 ms |
| **Mounting support** | Backplate<br>Rails |
| **Upside connection** | Front<br>Rear |
| **Downside connection** | Front<br>Rear |
| **Connection pitch** | 70 mm |
| **Mechanical durability** | 12500 cycles without maintenance |
| **Electrical durability** | 6000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>3000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>AC-23A: 6000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3<br>AC-23A: 3000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3<br>AC-3: 6000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3 |
| **Height** | 301 mm |
| **Width** | 276 mm |
| **Depth** | 196 mm |
| **Net weight** | 14 kg |
| **Standards** | EN/IEC 60947-1<br>EN/IEC 60947-2 |
| **Product certifications** | CE<br>CCC<br>EAC |

## Environment

| | |
|---|---|
| **IP degree of protection** | IP30 conforming to IEC 60529 |
| **Pollution degree** | 3 conforming to IEC 60664-1 |
| **Ambient air temperature for operation** | -25…70 °C |
| **Ambient air temperature for storage** | -40…85 °C |
| **Operating altitude** | 0...2000 m without derating<br>2000 m...5000 m with derating |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 25.0 cm |
| **Package 1 Width** | 40.0 cm |
| **Package 1 Length** | 40.0 cm |
| **Package 1 Weight** | 15.69 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **566 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **193 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **4 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **15 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **311 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **44 kg CO2 eq.** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards** |
| EU RoHS Directive | **Compliant with Exemptions** |
| SCIP Number | **27fdc503-4522-4881-a1c6-58cfc3a5b0b0** |
| REACh Regulation | **REACh Declaration** |
| Halogen-free status | **Halogen free plastic parts product** |
| PVC free | **Yes** |
| Silicone-free | **No** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **70** |
| End of life manual availability | **End of Life Information** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |