# Product datasheet

Specifications



## Circuit breaker frame, MasterPact NW08H2, 800A, 100kA/440VAC 50/60Hz (Icu), 4 poles, fixed, without control unit

48009

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product name** | MasterPact NW |
| **Circuit breaker name** | MasterPact NW08H2 |
| **Product or component type** | Circuit breaker |
| **Device application** | Power distribution protection |
| **Poles description** | 4P |
| **Neutral position** | Left |
| **Control unit** | Without control unit |
| **[In] rated current** | 800 A at 40 °C |
| **Performance type** | H2 100 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** | 100 kA at 220/415 V AC 50/60 Hz<br>100 kA at 440 V AC 50/60 Hz<br>85 kA at 525 V AC 50/60 Hz<br>85 kA at 690 V AC 50/60 Hz |
| **[Ics] rated service breaking capacity** | 100 kA at 220/415 V AC 50/60 Hz<br>100 kA at 440 V AC 50/60 Hz<br>85 kA at 525 V AC 50/60 Hz<br>85 kA at 690 V AC 50/60 Hz |
| **[Icw] rated short-time withstand current** | 85 kA 1 s<br>50 kA 3 s |
| **[Icm] rated short-circuit making capacity** | 220 kA 220/415 V AC at 50/60 Hz<br>187 kA 440 V AC at 50/60 Hz<br>187 kA 525 V AC at 50/60 Hz<br>187 kA 690 V AC at 50/60 Hz |
| **Integrated instantaneous protection (DIN in kA peak)** | 171…209 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** | 42 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** | 70 ms |
| **Mounting support** | Backplate<br>Rails |
| **Upside connection** | Front<br>Rear |
| **Downside connection** | Front<br>Rear |
| **Connection pitch** | 115 mm |
| **Mechanical durability** | 12500 cycles without maintenance<br>25000 cycles with maintenance |
| **Electrical durability** | 10000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>10000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>AC-23A: 10000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3<br>AC-23A: 10000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3<br>AC-3: 6000 cycles 440/690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3 |
| **Height** | 352 mm |
| **Width** | 537 mm |
| **Depth** | 297 mm |
| **Net weight** | 65 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** | 4 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** | 30.5 cm |
| **Package 1 Width** | 29.5 cm |
| **Package 1 Length** | 49.5 cm |
| **Package 1 Weight** | 47.252 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 | **710 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **332 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **8 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **12 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **239 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **119 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 | **6a3c1e0b-44cb-4a11-80eb-a083722777c1** |
| REACh Regulation | **REACh Declaration** |
| Halogen-free status | **Product contains halogen above thresholds** |
| PVC free | **Yes** |
| Silicone-free | **No** |

## Use Longer

### Lifetime extension

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

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **69** |
| 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** |