# Product datasheet

Specifications

Green Premium™

## Circuit breaker frame, MasterPact NW50H2, 5000A, 150kA/440VAC 50/60Hz (Icu), 3 poles, fixed, without control unit

48113

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product Name** | MasterPact NW |
| **Circuit Breaker Name** | MasterPact NW50H2 |
| **Product Or Component Type** | Circuit breaker |
| **Device Application** | Power distribution protection |
| **Poles Description** | 3P |
| **Control Unit** | Without control unit |
| **[In] Rated Current** | 5000 A at 40 °C |
| **Performance Type** | H2 150 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** | 150 kA at 220/415 V AC 50/60 Hz<br>150 kA at 440 V AC 50/60 Hz<br>130 kA at 525 V AC 50/60 Hz<br>100 kA at 690 V AC 50/60 Hz |
| **[Ics] Rated Service Breaking Capacity** | 150 kA at 220/415 V AC 50/60 Hz<br>150 kA at 440 V AC 50/60 Hz<br>130 kA at 525 V AC 50/60 Hz<br>100 kA at 690 V AC 50/60 Hz |
| **[Icw] Rated Short-Time Withstand Current** | 100 kA 1 s<br>100 kA 3 s |
| **[Icm] Rated Short-Circuit Making Capacity** | 330 kA 220/415 V AC at 50/60 Hz<br>330 kA 440 V AC at 50/60 Hz<br>286 kA 525 V AC at 50/60 Hz<br>220 kA 690 V AC at 50/60 Hz |
| **Integrated Instantaneous Protection (Din In Ka Peak)** | 243…297 kA |
| **Sensor Rating** | 2500 A<br>5000 A |
| **[Ui] Rated Insulation Voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] Rated Impulse Withstand Voltage** | 12 kV |
| **Power Dissipation In W** | 660 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** | 80 ms |
| **Mounting Support** | Backplate<br>Rails |
| **Upside Connection** | Rear |
| **Downside Connection** | Rear |
| **Connection Pitch** | 230 mm |
| **Mechanical Durability** | 10000 cycles with maintenance<br>5000 cycles without maintenance |
| **Electrical Durability** | 1500 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>1500 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2<br>AC-23A: 1500 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3<br>AC-23A: 1500 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** | 767 mm |
| **Depth** | 297 mm |
| **Net Weight** | 120 kg |
| **Standards** | EN/IEC 60947-1<br>EN/IEC 60947-2 |
| **Product Certifications** | CE<br>CCC<br>EAC |

## Environment

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|---|---|
| **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

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 75.0 cm |
| **Package 1 Width** | 75.0 cm |
| **Package 1 Length** | 120.0 cm |
| **Package 1 Weight** | 133.409 kg |

## Contractual warranty

| | |
|---|---|
| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

| | |
|---|---|
| Mercury Free | |
| Rohs Exemption Information | Yes |
| Pvc Free | |

## Certifications & Standards

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant with Exemptions |
| **China Rohs Regulation** | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| **Circularity Profile** | End of Life Information |