Product datasheet

Specifications





Circuit breaker frame, MasterPact NW20H2, 2000A, 100kA/440VAC 50/60Hz (Icu), 4 poles, drawout, without control unit

48295

Main

| Range | MasterPacT | |
|--------------------------------|----------------------------------|--|
| Product Name | MasterPact NW | |
| Circuit Breaker Name | MasterPact NW20H2 | |
| 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 | 2000 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 | Drawout | |

Complementary

| [Icu] Rated Ultimate Short-Circuit Breaking Capacity | 100 kA at 220/415 V AC 50/60 Hz 100 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 690 V AC 50/60 Hz |
|---|--|
| [Ics] Rated Service Breaking Capacity | 100 kA at 220/415 V AC 50/60 Hz 100 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 690 V AC 50/60 Hz |
| [Icw] Rated Short-Time Withstand Current | 85 kA 1 s 75 kA 3 s |
| [Icm] Rated Short-Circuit Making Capacity | 220 kA 220/415 V AC at 50/60 Hz 187 kA 440 V AC at 50/60 Hz 187 kA 525 V AC at 50/60 Hz 187 kA 690 V AC at 50/60 Hz |
| Integrated Instantaneous Protection (Din In Ka Peak) | 171209 kA |
| Sensor Rating | 1000 A 2000 A |
| [Ui] Rated Insulation Voltage | 1000 V AC 50/60 Hz |
| [Uimp] Rated Impulse Withstand Voltage | 12 kV |

| Power Dissipation In W | 470 W |
|-------------------------------|--|
| Maximum Breaking Time | 25 ms |
| Maximum Closing Response Time | 70 ms |
| Mounting Support | Backplate Rails |
| Upside Connection | Front Rear |
| Downside Connection | Front Rear |
| Connection Pitch | 115 mm |
| Mechanical Durability | 10000 cycles without maintenance 20000 cycles with maintenance |
| Electrical Durability | 6000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2 8000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2 AC-23A: 6000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3 AC-23A: 8000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-3 AC-3: 6000 cycles 440/690 V AC 50/60 Hz without maintenance conforming to EN/ IEC 60947-3 |
| Height | 439 mm |
| Width | 556 mm |
| Depth | 395 mm |
| Net Weight | 120 kg |
| Standards | EN/IEC 60947-1 EN/IEC 60947-2 |
| Product Certifications | CE CCC EAC |
| | |

Environment

| Ip Degree Of Protection | IP30 conforming to IEC 60529 | |
|--|--|--|
| Pollution Degree | 4 conforming to IEC 60664-1 | |
| Ambient Air Temperature For Operation | -2570 °C | |
| Ambient Air Temperature For Storage | -4085 °C | |
| Operating Altitude | 02000 m without derating 2000 m5000 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 | 49.502 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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 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 |