

Product data sheet

Specifications



Circuit breaker frame, MasterPact NW10NDC-C, 1000A, 900VDC, 85kA/500VDC (Icu), 3 poles, drawout, without control unit

48660

Main

| | |
|--------------------------------|----------------------------------|
| Range | MasterPacT |
| Product name | MasterPact NW DC |
| Circuit breaker name | MasterPact NW10NDC-C |
| Product or component type | Circuit breaker |
| Device application | DC voltage switching |
| Poles description | 3P |
| Control unit | Without control unit |
| [In] rated current | 1000 A at 40 °C |
| Performance type | N 35 kA 500 V DC |
| [Ue] rated operational voltage | 500/900 V DC |
| 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 | 25 kA Icu at 500 V DC L/R = 30 ms 35 kA Icu at 500 V DC L/R = 15 ms 85 kA Icu at 500 V DC L/R = 5 ms |
| [Ics] rated service breaking capacity | 25 kA at 500 V DC (L/R = 30 ms) 35 kA at 500 V DC (L/R = 5 ms) 85 kA at 500 V DC (L/R = 5 ms) |
| [Icw] rated short-time withstand current | 50 kA 1 s |
| [Icm] rated short-circuit making capacity | 25 kA L/R = 30 ms 500 V DC 35 kA L/R = 15 ms 500 V DC 85 kA L/R = 5 ms 500 V DC |
| Sensor rating | 1000 A |
| [Ui] rated insulation voltage | 1000 V DC |
| [Uimp] rated impulse withstand voltage | 12 kV |
| Power dissipation in W | 1000 W |
| Maximum breaking time | 30...75 ms |
| Maximum closing response time | 70 ms |
| Mounting support | Backplate Rails |
| Upside connection | Rear |

| | |
|-------------------------------|---|
| Downside connection | Rear |
| Connection pitch | 115 mm |
| Mechanical durability | 10000 cycles without maintenance conforming to IEC 60947-2 20000 cycles with maintenance conforming to IEC 60947-2 |
| Electrical durability | 8500 cycles 500 V DC without maintenance conforming to IEC 60947-2 |
| Height | 439 mm |
| Width | 441 mm |
| Depth | 494 mm |
| Net weight | 90...116 kg |
| Standards | IEC 60947-2 |
| Product certifications | ASTA ASEFA |

Environment

| | |
|--|--|
| 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 2000 m...5000 m with derating |

Packing Units

| | |
|-------------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 0.1 cm |
| Package 1 Width | 0.1 cm |
| Package 1 Length | 0.2 cm |
| Package 1 Weight | 93.734 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 | 874 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 434 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 11 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 15 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 258 kg CO2 eq. |
| Carbon footprint of the end-of-life phase [C1 to C4] | 156 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |

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 |
| SCIP Number | A5b47f2e-24bf-47cc-87fb-b0762b13883c |
| EU RoHS Directive | Compliant By Exemption |
| REACH Regulation | Reference contains Substances of Very High Concern above the threshold |

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 |