

Product datasheet

Specifications



Circuit breaker frame, MasterPact NW12N1, 1250A, 42kA/440VAC 50/60Hz (Icu), 3 poles, fixed, without control unit

48028

Main

Range	MasterPacT
product name	MasterPact NW
Circuit breaker name	MasterPact NW12N1
Product or component type	Circuit breaker
Device application	Power distribution protection
Poles description	3P
Control unit	Without control unit
[In] rated current	1250 A at 40 °C
Performance type	N1 42 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	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 690 V AC 50/60 Hz
[Ics] rated service breaking capacity	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 690 V AC 50/60 Hz
[Icw] rated short-time withstand current	42 kA 1 s 22 kA 3 s
[Icm] rated short-circuit making capacity	88 kA 220/415 V AC at 50/60 Hz 88 kA 440 V AC at 50/60 Hz 88 kA 525 V AC at 50/60 Hz 88 kA 690 V AC at 50/60 Hz
Sensor rating	630 A 1250 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV
Power dissipation in W	150 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	12500 cycles without maintenance 25000 cycles with maintenance
Electrical durability	10000 cycles 440 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2 10000 cycles 690 V AC 50/60 Hz without maintenance conforming to EN/IEC 60947-2
Height	352 mm
Width	422 mm
Depth	297 mm
Product weight	50 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	-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	34.0 cm
Package 1 Width	40.0 cm
Package 1 Length	31.0 cm
Package 1 Weight	41.252 kg

Contractual warranty

Warranty	18 months
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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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) **1211**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Packaging

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

SCIP Number **6a3c1e0b-44cb-4a11-80eb-a083722777c1**

China RoHS Regulation [China RoHS declaration](#)

PVC free **Yes**

Silicon free **No**

Use Again

Repack and remanufacture

Circularity Profile [End of Life Information](#)

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Halogen content performance **Product contains halogen above thresholds**

Take-back **No**