

# Product datasheet

Specifications



## circuit breaker Masterpact NW20N1 - 2000 A - 3 poles - fixed - w/o trip unit

48056

### Main

Range	MasterPacT
Product name	MasterPact NW
Circuit breaker name	MasterPact NW20N
Product or component type	Circuit breaker
Device application	Power distribution protection
Poles description	3P
Control unit	Without control unit
[In] rated current	2000 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	1000 A 2000 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV
Maximum breaking time	25 ms
Maximum closing response time	70 ms

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

<b>Mounting support</b>	Backplate Rails
<b>Upside connection</b>	Front Rear
<b>Downside connection</b>	Front Rear
<b>Connection pitch</b>	115 mm
<b>Mechanical durability</b>	10000 cycles 20000 cycles
<b>Electrical durability</b>	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
<b>Height</b>	352 mm
<b>Width</b>	422 mm
<b>Depth</b>	297 mm
<b>Net weight</b>	50 kg
<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-2
<b>Product certifications</b>	CE CCC EAC

## Environment

<b>IP degree of protection</b>	IP30 conforming to IEC 60529
<b>Pollution degree</b>	4 conforming to IEC 60664-1
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	30.500 cm
<b>Package 1 Width</b>	29.500 cm
<b>Package 1 Length</b>	37.500 cm
<b>Package 1 Weight</b>	47.252 kg
<b>Unit Type of Package 2</b>	P12
<b>Number of Units in Package 2</b>	16
<b>Package 2 Height</b>	90.000 cm
<b>Package 2 Width</b>	80.000 cm
<b>Package 2 Length</b>	120.000 cm
<b>Package 2 Weight</b>	768.032 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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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

Total lifecycle Carbon footprint	1 750 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	277 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	10 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 357 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	100 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## 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	6a3c1e0b-44cb-4a11-80eb-a08372277c1
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	69
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

