

# Product data sheet

Specifications



## Circuit breaker frame, MasterPact NW20H2a, 2000A, 85kA/440VAC 50/60Hz (Icu), 3 poles, fixed, without control unit

48059

### Main

Range	MasterPacT
Product name	MasterPact NW
Circuit breaker name	MasterPact NW20
Product or component type	Basic frame
Poles description	3P
Control unit	Without control unit
[In] rated current	2000 A at 40 °C
Performance type	H2A
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
Suitability for isolation	Yes conforming to IEC 60947-2
Selectivity category	Category B
Control type	Push-button
Mounting mode	Fixed

### Complementary

[Icu] rated ultimate short-circuit breaking capacity	85 kA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 85 kA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2
[Ics] rated service breaking capacity	85 kA at 220/415 V AC 50/60 Hz conforming to IEC 60947-2
[Icw] rated short-time withstand current	75 kA 3 s conforming to IEC 60947-2 85 kA 1 s conforming to IEC 60947-2
[Icm] rated short-circuit making capacity	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)	171...209 kA
Sensor rating	2000 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	12 kV conforming to IEC 60947-2
Maximum breaking time	25 ms
Maximum closing response time	70 ms
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	6000 cycles 690 V AC 50/60 Hz without maintenance conforming to IEC 60947-2 8000 cycles 440 V AC 50/60 Hz without maintenance conforming to IEC 60947-2
Height	352 mm

List Price displayed is VAT EXCLUSIVE.

<b>Width</b>	422 mm
<b>Depth</b>	297 mm
<b>Standards</b>	IEC 60947-2
<b>Product certifications</b>	ASTA ASEFA

## Environment

<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>	29.5 cm
<b>Package 1 Width</b>	30.5 cm
<b>Package 1 Length</b>	37.5 cm
<b>Package 1 Weight</b>	47.249 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	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

