

Product datasheet

Specifications



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

48222

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	Drawout

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	439 mm

Width	441 mm
Depth	394.5 mm
Standards	IEC 60947-2
Product certifications	ASEFA ASTA

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	29.5 cm
Package 1 Width	30.5 cm
Package 1 Length	37.5 cm
Package 1 Weight	48.419 kg

Contractual warranty

Warranty (in months)	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	3 203 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	462 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	11 kg CO2 eq.
Carbon footprint of the installation phase [A5]	16 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 548 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	166 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	6a3c1e0b-44cb-4a11-80eb-a08372277c1
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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	End of Life Information
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

