Product data sheet
Characteristics

C160N3FM
Circuit breaker frame, ComPacT NS1600N, 50kA at 415VAC, 1600A, 3P, fixed, manually operated, without control unit



Main

Range	ComPacT
Range of product	ComPacT NS630b...1600 new generation
Product or component type	Basic frame
Device application	Distribution
Poles description	3P
[In] rated current	1600 A at 50 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category B
Breaking capacity	85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 40 KA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 30 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	N 50 kA 415 V AC
Control type	Manually operated
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz conforming to IEC 60947-2
[Uimp] rated impulse withstand voltage	8 KV conforming to IEC 60947-2
[Ics] rated service breaking capacity	37 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 37 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 37 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 30 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 22 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
[Icw] rated short-time withstand current	19.2 KA 1 s conforming to IEC 60947-2
Integral instant protection	40 KA
Mechanical durability	10000 Cycles conforming to IEC 60947-2
Electrical durability	1000 Cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2 2000 Cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 2000 Cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 5000 Cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Power losses	74 W
Mounting support	Backplate
Connection pitch	70 Mm
Protection type	Without protection

Height	224 Mm
Width	210 Mm
Depth	147 Mm

Environment

Standards	IEC 60947-2
Product certifications	IECEE CB Scheme
Overvoltage category	III
Electrical shock protection class	Class II on front face
Pollution degree	3 conforming to IEC 60947
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-50…85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.0 Cm
Package 1 Width	1.0 Cm
Package 1 Length	2.0 Cm
Package 1 Weight	10.0 G

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	1 476 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	157.04950858969238
Carbon footprint of the manufacturing phase [A1 to A3]	157 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	3.2371832201358375
Carbon footprint of the distribution phase [A4]	3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	1.4024264482620856
Carbon footprint of the installation phase [A5]	1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1298.1865350670105
Carbon footprint of the use phase [B2, B3, B4, B6]	1 298 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	16.359996803835397
Carbon footprint of the end-of-life phase [C1 to C4]	16 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1476
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	76c2e213-3b51-4d8b-afdf-632ded42d731
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
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

Contractual warranty

Warranty (in months)	18

Product Life Status :	Commercialised