Product data sheet
Characteristics

C10N3
Circuit breaker basic frame, ComPacT NSX100N, 50kA/415VAC, 3 poles, 100A frame rating, without trip unit



Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX100N
Product or component type	Basic frame
Device application	Distribution
Poles description	3P
[In] rated current	100 A at 40 °C
[Ue] rated operational voltage	690 V AC 50/60 Hz conforming to IEC 60947-2
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Utilisation category	Category A
Breaking capacity	10 KA at 600 V AC 50/60 Hz conforming to UL 508 85 KA at 240 V AC 50/60 Hz conforming to UL 508 10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 480 V AC 50/60 Hz conforming to UL 508 36 KA Icu at 500 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 90 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	N 50 kA 415 V AC
Control type	Toggle
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	10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 50 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2 90 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2
Mechanical durability	50000 Cycles conforming to IEC 60947-2
Electrical durability	10000 Cycles 690 V AC 50/60 Hz In conforming to IEC 60947-2 20000 Cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2 30000 Cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2 50000 Cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2
Mounting support	Backplate
Upside connection	Front

Downside connection	Front
Connection pitch	35 Mm
Protection type	Without protection
Width	105 Mm
Height	161 Mm
Depth	86 Mm

Environment

Standards	EN/IEC 60947-2 UL 60947-4-1
Overvoltage category	III
Electrical shock protection class	Class II on front face
Pollution degree	3 conforming to IEC 60664-1
IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
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	11.200 Cm
Package 1 Width	14.000 Cm
Package 1 Length	19.200 Cm
Package 1 Weight	1.440 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	7
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	10.477 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	56
Package 3 Height	42.500 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	94.618 Kg

Offer Sustainability

Recyclability potential, in %	54
Total lifecycle Carbon footprint	83 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7.90457142857143
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4125006997084548
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.12078669096209914
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	71.89776
Carbon footprint of the use phase [B2, B3, B4, B6]	72 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	2.419280029154519
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	83

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	206b752d-15ab-4228-8cd8-4e338f718b28
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, wh
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised