Product data sheet
Characteristics

C12N34V160L
Circuit breaker, ComPacT NSXm 160N, 50kA/415VAC, 3 poles, MicroLogic 4.1 trip unit 160A, EverLink lugs



Main

Range	ComPacT
Product name	ComPacT NSXm
Device short name	NSXm 160N
Product or component type	Earth leakage circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	160 A at 40 °C
[Ue] rated operational voltage	440 V AC 50/60 Hz
Network type	AC
Network frequency	50/60 Hz
Suitability for isolation	Yes conforming to IEC 60947-2
Utilisation category	Category A
Breaking capacity	90 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
Breaking capacity code	N 50 kA 415 V AC
Trip unit name	MicroLogic 4.1
Trip unit technology	Electronic
Trip unit protection functions	LSoIR
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	500 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	90 KA at 220...240 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
Mechanical durability	20000 Cycles
Electrical durability	20000 Cycles at 440 V In/2 10000 Cycles at 440 V In
Power dissipation per pole	12.3 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back
Upside connection	Front

Downside connection	Front
Connections - terminals	1 Everlink lug wire size 2.5…70 mm², fine stranded copper 1 Everlink lug wire size 2.5…95 mm², rigid or stranded aluminium/copper
Connection pitch	35 Mm with spreaders 27 Mm without spreaders
9 mm pitches	9 module
Trip unit rating	160 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	63...160 A
Long time delay adjustment type	Fixed
[tr] long-time delay adjustment range	200 S at 1.5 x Ir 8 S at 6 x Ir 5 S at 7.2 x Ir
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable 9 settings
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	2000 A
Earth-leakage protection	Integrated
Earth-leakage protection class	Class A Class AC
Residual earth-leakage sensitity adjustment type	Adjustable
[IΔn] residual earth-leakage sensitive adjustment	30 MA 100 MA 300 MA 500 MA 1 A 3 A 5 A
Earth-leakage sensitivity	30 MA for class A 100 MA for class A 300 MA for class A 500 MA for class A 1 A for class A 30 MA for class AC 100 MA for class AC 300 MA for class AC 500 MA for class AC 1 A for class AC 3 A for class AC 5 A for class AC
Residual earth-leakage time delay adjustment type	Adjustable
[Δt] residual earth-leakage time delay adjustment	0 Ms 60 Ms 150 Ms 500 Ms 1000 Ms
Number of slots	1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX
Local signalling	Flag (green) for presence of auxiliary contacts
Width	108 Mm
Height	144 Mm
Depth	80 Mm
Net weight	1.63 Kg
Colour	Grey (RAL 7016)

Environment

Standards	EN/IEC 60947-2
Overvoltage category	IV
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	-40…85 °C
Relative humidity	0…95 %
Operating altitude	2000 m without derating 5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 Cm
Package 1 Width	16.000 Cm
Package 1 Length	19.000 Cm
Package 1 Weight	1.700 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	7.220 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	32
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	69.760 Kg

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	220 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17.91254181
Carbon footprint of the manufacturing phase [A1 to A3]	18 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.271933668
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.301603122
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	197.28
Carbon footprint of the use phase [B2, B3, B4, B6]	197 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	4.245356745
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	220
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Af3d4202-1697-430d-83ec-d7a972ac0ddb
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, wi
Halogen-free status	Halogen free plastic parts product
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