Product data sheet
Characteristics

C10V36E100
Circuit breaker, ComPacT NSX100HB1, 75kA/690VAC, 3 poles, MicroLogic 6.2E trip unit 100A



Main

Range	ComPacT
Product name	ComPacT NSX
Device short name	NSX100HB1
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	100 A at 40 °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 A
Breaking capacity	85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	HB1 75 kA 690 V AC
Trip unit name	MicroLogic 6.2 E
Trip unit technology	Electronic
Trip unit protection functions	LSIG
Control type	Toggle
Mounting mode	Fixed

Complementary

[Ui] rated insulation voltage	800 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
[Ics] rated service breaking capacity	85 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2 80 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2 75 KA at 660/690 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 10000 Cycles at 690 V In/2 5000 Cycles at 690 V In
Power dissipation per pole	4.7 W
Mounting support	Backplate
Mounting position	Horizontal and vertical Flat on the back

Upside connection	Front
Downside connection	Front
Connection pitch	35 Mm
Protection type	L : for overload protection (long time) S : for short time short-circuit protection I : for instantaneous short-circuit protection G : for ground fault protection
Trip unit rating	100 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	40...100 A
Long time delay adjustment type	Adjustable
[tr] long-time delay adjustment range	15…400 S at 1.5 x Ir 0.5…16 S at 6 x Ir 0.35…11 S at 7.2 x Ir
Thermal memory	20 minutes before and after tripping
Short-time pick-up adjustment type Isd	Adjustable
[Isd] short-time pick-up adjustment range	1.5...10 x Ir
Short-time delay adjustment type	Adjustable 5 settings
[tsd] short-time delay adjustment range	0…0.4 S I²t=off 0.1…0.4 S I²t=on
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...15 x In
Ground-fault pick-up adjustment type	Adjustable 9 settings
[Ig] ground-fault pick-up adjustment range	0.4...1 x In for In = 40 A 0.2...1 x In for In > 40 A Ig enable on/off
Ground-fault time delay adjustment type -tg	Adjustable 5 settings
[tg] Ground-fault time delay adjustment range	0…0.4 S I²t=off 0.1…0.4 S I²t=on
Earth-leakage protection	Without
Zone selective interlocking ZSI	With
Number of slots	5 slot(s)
Local signalling	Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload
Display type	LCD display
Type of measurement	Energy meter
Communication of data	Power quality Demand current and power Protection and alarm settings Time-stamped histories and event tables Maximeters/Minimeters Maintenance indicators Instantaneous and demand values Energy metering
Width	105 Mm
Height	161 Mm
Depth	86 Mm
Net weight	2.05 Kg

Environment

Standards	EN/IEC 60947-2
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	-40…85 °C
Relative humidity	0…95 %
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	11.000 Cm
Package 1 Width	14.000 Cm
Package 1 Length	20.000 Cm
Package 1 Weight	1.943 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	8.192 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	77.536 Kg

Offer Sustainability

Recyclability potential, in %	58
Total lifecycle Carbon footprint	97 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	17.27916121
Carbon footprint of the manufacturing phase [A1 to A3]	17 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.254075608
Carbon footprint of the distribution phase [A4]	0.3 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.152498056
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	75.93704545
Carbon footprint of the use phase [B2, B3, B4, B6]	76 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	3.671501582
Carbon footprint of the end-of-life phase [C1 to C4]	4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	97
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	811c5f45-220d-4e22-b512-f9d771b72680
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	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
Updatability	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