Product data sheet
Characteristics

C125N420FM
Circuit breaker, ComPacT NS1250N, 50kA at 415VAC, 4P, fixed, manually operated, MicroLogic 2.0 control unit, 1250A



Main

Range	ComPacT
Product name	ComPacT NS new generation
Range of product	ComPacT NS630b...1600 new generation
Product or component type	Circuit breaker
Device application	Distribution
Poles description	4P
Protected poles description	4D
Neutral position	Left
[In] rated current	1250 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
Trip unit name	MicroLogic 2.0
Trip unit technology	Electronic
Trip unit protection functions	LI
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	50 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 40 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 30 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
Mechanical durability	10000 Cycles

Electrical durability	2000 Cycles at 690 V In 3000 Cycles at 690 V In/2 4000 Cycles at 440 V In 5000 Cycles at 440 V In/2
Power losses	44 W
Mounting support	Backplate
Upside connection	Front
Downside connection	Front
Connection pitch	70 Mm
Protection type	L : for overload protection (long time) I : for instantaneous short-circuit protection
Trip unit rating	1250 A at 50 °C
Long time pick-up adjustment type Ir	Adjustable 9 settings
Long time pick-up adjustment range	0.4...1 x In
Long time delay adjustment type	Adjustable 9 settings
[tr] long-time delay adjustment range	12.5…600 S at 1.5 x Ir 0.5…24 S at 6 x Ir 0.7…16.6 S at 7.2 x Ir
Thermal memory	20 mn
Instantaneous pick-up adjustment type Ii	Adjustable
Instantaneous pick-up adjustment range	1.5...10 x Ir
Earth-leakage protection	Without
Neutral protection setting	No protection (3D) 0.5 x Ir (3D + N/2) 1 x Ir (4D)
Zone selective interlocking ZSI	Without
Auxiliary contact composition	1 NO/NC
Local signalling	4 LEDs (red) for fault indication 1 LED (yellow) for overload
Width	280 Mm
Height	327 Mm
Depth	147 Mm
Net weight	18 Kg

Environment

Standards	EN/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
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	29.000 Cm
Package 1 Width	38.000 Cm
Package 1 Length	59.000 Cm
Package 1 Weight	16.600 Kg
Unit Type of Package 2	P12
Number of Units in Package 2	4
Package 2 Height	45.000 Cm
Package 2 Width	80.000 Cm

Package 2 Length	120.000 Cm
Package 2 Weight	78.400 Kg

Offer Sustainability

Recyclability potential, in %	56
Total lifecycle Carbon footprint	1 126 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	232.1479824210947
Carbon footprint of the manufacturing phase [A1 to A3]	232 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4.785150619256892
Carbon footprint of the distribution phase [A4]	5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	2.0730435477427087
Carbon footprint of the installation phase [A5]	2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	862.5349980023971
Carbon footprint of the use phase [B2, B3, B4, B6]	863 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	24.183076308429882
Carbon footprint of the end-of-life phase [C1 to C4]	24 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1126
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, w
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised