Product data sheet
Characteristics

C12F3TM125L
Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 3 poles, TMD trip unit 125A, EverLink lugs



Main

Range	ComPacT
Product name	ComPacT NSXm
Device short name	NSXm 160F
Product or component type	Circuit breaker
Device application	Distribution
Poles description	3P
Protected poles description	3D
[In] rated current	125 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	85 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 35 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2
Breaking capacity code	F 36 kA 415 V AC
Trip unit name	TM-D
Trip unit technology	Thermal-magnetic
Trip unit protection functions	LI
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 220...240 V AC 50/60 Hz conforming to IEC 60947-2 36 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 30 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	9.3 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, flexible copper 1 Everlink lug wire size 2.5…95 mm², rigid or stranded copper
Connection pitch	35 Mm with spreaders 27 Mm without spreaders
9 mm pitches	9 module
Trip unit rating	125 A at 40 °C
Long time pick-up adjustment type Ir	Adjustable
Long time pick-up adjustment range	0.7...1 x In
Long time delay adjustment type	Fixed
Instantaneous pick-up adjustment type Ii	Fixed
Instantaneous pick-up adjustment range	1250 A
Earth-leakage protection	Without
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	81 Mm
Height	137 Mm
Depth	80 Mm
Net weight	1.06 Kg
Colour	Grey (RAL 7016)

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	-50…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	12.0 Cm
Package 1 Width	9.0 Cm
Package 1 Length	21.0 Cm
Package 1 Weight	1.206 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	9
Package 2 Height	30.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	11.244 Kg

Offer Sustainability

Recyclability potential, in %	57
Total lifecycle Carbon footprint	166 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	7.2648
Carbon footprint of the manufacturing phase [A1 to A3]	7 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.19291
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.

Carbon footprint of the installation phase [A5]	0.1454
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	155.7558722
Carbon footprint of the use phase [B2, B3, B4, B6]	156 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	3.0188
Carbon footprint of the end-of-life phase [C1 to C4]	3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	166
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	4b89979a-b2b4-46f7-b291-ed2599c8d205
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	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No
End of life manual availability	No need of specific recycling operations
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