# Product data sheet
## Characteristics

# C12F6TM125L
Circuit breaker, ComPacT NSXm 160F, 36kA/415VAC, 4 poles 3D (neutral not protected), 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 | 4P |
| Protected poles description | 3D |
| Neutral position | Left |
| [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<br>36 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>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<br>36 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2<br>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<br>10000 Cycles at 440 V In |
| Power dissipation per pole | 9.3 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical<br>Flat on the back |

| | |
|---|---|
| Upside connection | Front |
| Downside connection | Front |
| Connections - terminals | 1 Everlink lug wire size 2.5…70 mm², flexible copper<br>1 Everlink lug wire size 2.5…95 mm², rigid or stranded copper |
| Connection pitch | 35 Mm with spreaders<br>27 Mm without spreaders |
| 9 mm pitches | 12 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 |
| Neutral protection setting | No protection (3D) |
| 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<br>1 slot(s) for alarm switch SD<br>1 slot(s) for voltage release MN or MX |
| Local signalling | Flag (green) for presence of auxiliary contacts |
| Width | 108 Mm |
| Height | 137 Mm |
| Depth | 80 Mm |
| Net weight | 1.42 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<br>5000 m with derating |

## Packing Units

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|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 12.300 Cm |
| Package 1 Width | 11.700 Cm |
| Package 1 Length | 21.500 Cm |
| Package 1 Weight | 1.528 Kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.000 Cm |
| Package 2 Width | 30.000 Cm |
| Package 2 Length | 40.000 Cm |
| Package 2 Weight | 9.550 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 57 |
| Total lifecycle Carbon footprint | 170 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 9.638208955 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 10 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.255933665 |
| Carbon footprint of the distribution phase [A4] | 0.3 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.192902156 |
| Carbon footprint of the installation phase [A5] | 0.2 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] | 4.005041459 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 170 |
| 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

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised