# Product data sheet
## Characteristics

# C16H6TM160
Circuit breaker, ComPacT NSX160H, 70kA/415VAC, 4 poles 3D (neutral not protected), TMD trip unit 160A



## Main

| | |
|---|---|
| Range | ComPacT |
| Product name | ComPacT NSX |
| Device short name | NSX160H |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 3D |
| Neutral position | Left |
| [In] rated current | 160 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 | 100 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 KA Icu at 240 V AC 50/60 Hz conforming to UL 60947-4-1<br>65 KA Icu at 480 V AC 50/60 Hz conforming to UL 60947-4-1<br>10 KA Icu at 600 V AC 50/60 Hz conforming to UL 60947-4-1 |
| Breaking capacity code | H 70 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 | 100 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 40000 Cycles |
| Electrical durability | 40000 Cycles at 440 V In/2<br>20000 Cycles at 440 V In<br>15000 Cycles at 690 V In/2<br>7500 Cycles at 690 V In |
| Power dissipation per pole | 13.95 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical<br>Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 Mm |
| Protection type | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic) |
| Trip unit rating | 160 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 |
| [tr] long-time delay adjustment range | 120…400 S at 1.5 x In<br>15 S at 6 x Ir |

| | |
|---|---|
| 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 | 5 slot(s) |
| Width | 140 Mm |
| Height | 161 Mm |
| Depth | 86 Mm |
| Net weight | 2.6 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 | -50…85 °C |
| Relative humidity | 0…95 % |
| Operating altitude | 0...2000 m without derating<br>2000 m...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 | 14.500 Cm |
| Package 1 Length | 19.000 Cm |
| Package 1 Weight | 2.376 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 | 9.888 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 54 |
| Total lifecycle Carbon footprint | 246 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 13.12457142857143 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 13 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.6849068221574345 |
| Carbon footprint of the distribution phase [A4] | 0.7 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.2005514868804665 |
| Carbon footprint of the installation phase [A5] | 0.2 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 227.487744 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 227 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4.0169177842565595 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 4 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 246 |
| Packaging made with recycled cardboard | Yes |

| | |
|---|---|
| Packaging without single use plastic | Yes |
| SCIP Number | 3874e08b-fcb8-4aa9-87c4-d36abebf2833 |
| 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, which |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | 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 and |

## Contractual warranty

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

Product Life Status : Commercialised