# LV429872

circuit breaker Compact NSX100B - Micrologic 5.2 A - 40 A - 3 poles 3d

Green Premium™ Product

## Main

| | |
|---|---|
| Range | ComPact |
| Product name | ComPact NSX |
| Range of product | ComPact NSX100...250 |
| Device short name | NSX100B |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Number of poles | 3P |
| Protected poles description | 3t |
| [In] rated current | 40 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 |
| [Icu] rated ultimate short-circuit breaking capacity | 15 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>20 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>40 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | B 25 kA 415 V AC |
| Trip unit name | Micrologic 5.2 A |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

## Complementary

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|---|---|
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ics] rated service short-circuit breaking capacity | 20 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>7.5 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 50000 cycles |
| Electrical durability | 10000 Cycles at 690 V In<br>20000 Cycles at 690 V In/2<br>30000 Cycles at 440 V In<br>50000 cycles at 440 V In/2 |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 mm |

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|---|---|
| Protection type | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection |
| Trip unit rating | 40 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable |
| [Ir] long-time protection pick-up adjustment range | 18...40 A |
| Long-time protection delay adjustment type tr | Adjustable |
| [tr] long-time protection delay adjustment range | 15…400 S at 1.5 x Ir<br>0.35…11 S at 7.2 x Ir<br>0.5…16 s at 6 x Ir |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type Isd | Adjustable |
| [Isd] Short-time protection pick-up adjustment range | 1.5...10 x Ir |
| Short-time protection delay adjustment type tsd | Adjustable |
| [tsd] Short-time protection delay adjustment range | 0…0.4 s |
| Instantaneous protection pick-up adjustment type Ii | Adjustable |
| [Ii] instantaneous protection pick-up adjustment range | 1.5...15 x In |
| Earth-leakage protection | Without |
| Zone selective interlocking ZSI | With |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload |
| Display type | LCD display |
| Type of measurement | Ammeter |
| Communication of data | Demand current and power<br>Instantaneous and demand values<br>Time-stamped histories and event tables<br>Maximeters/Minimeters<br>Protection and alarm settings<br>Maintenance indicators<br>Energy metering<br>Power quality |
| Width (W) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.05 kg |

## Environment

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|---|---|
| Standards | EN/IEC 60947 |
| Product certifications | CCC<br>EAC<br>Marine |
| Overvoltage category | Class II |
| Electrical shock protection class | Class II |
| 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<br>2000 m...5000 m with derating |

## Packing Units

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|---|---|
| Package 1 Weight | 2.050 kg |
| Package 1 Height | 1.000 dm |
| Package 1 width | 1.000 dm |
| Package 1 Length | 1.001 dm |

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## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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|---|---|
| Warranty | 18 months |