# Product datasheet
## Characteristics

# LV433627
circuit breaker Compact NSX400HB1, 85 kA at 500 VAC, Micrologic 5.3 E trip unit 400 A, 4 poles 4d

## Main

| | |
|---|---|
| Range | Compact |
| Product name | Compact NSX |
| Product or component type | Circuit breaker |
| Device short name | Compact NSX400HB1 |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 3t<br>3t + OSN<br>3t + N/2<br>4t |
| Neutral position | Left |
| Network type | AC |
| Network frequency | 50/60 Hz |
| [In] rated current | 400 A at 40 °C |
| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz |
| Breaking capacity code | HB1 75 kA 690 V AC |
| Breaking capacity | 85 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | 85 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN 60947-2<br>Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| Trip unit name | Micrologic 5.3 E |
| Trip unit technology | Electronic |

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|---|---|
| Trip unit protection functions | LSI |
| Pollution degree | 3 conforming to IEC 60664-1 |

## Complementary

| | |
|---|---|
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Auxiliary contact composition | Without |
| Mechanical durability | 15000 cycles |
| Electrical durability | 12000 cycles 440 V In/2 conforming to IEC 60947-2<br>3000 cycles 690 V In conforming to IEC 60947-2<br>6000 cycles 440 V In conforming to IEC 60947-2<br>6000 cycles 690 V In/2 conforming to IEC 60947-2 |
| Connection pitch | 45 mm |
| Local signalling | LED 90 % Ir<br>LED 105 % Ir<br>LED ready |
| Neutral protection setting | 0.5 x Ir (3t + N/2)<br>1 x Ir (4t)<br>1.6 x Ir (3t + OSN)<br>No protection (3t) |
| 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 | 400 A at 40 °C |
| Long time pick-up adjustment type Ir | Adjustable 9 settings |
| Long time pick-up adjustment range | 160...400 A |
| Long time delay adjustment type | Adjustable |
| [Tr] long-time 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 pick-up adjustment type Isd | Adjustable 9 settings |
| [Isd] short-time pick-up adjustment range | 1.5...10 x Ir |
| Short-time delay adjustment type | Adjustable 5 settings |
| [Tsd] short-time delay adjustment range | 0…0.4 s |
| Instantaneous pick-up adjustment type Ii | Adjustable |
| Instantaneous pick-up adjustment range | 1.5...12 x In |
| Zone selective interlocking ZSI | With |
| Communication of data | Energy metering<br>Demand current and power<br>Power quality<br>Maintenance indicators<br>Maximeters/minimeters<br>Protection and alarm settings<br>Instantaneous and demand values<br>Time-stamped histories and event tables |
| Display type | LCD display |
| Type of measurement | Energy meter |
| Electrical data recording | Maintenance indicators |
| Height | 255 mm |
| Width | 185 mm |
| Depth | 110 mm |

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|---|---|
| Product weight | 7.9 kg |
| Compatibility code | NSX400 |

## Environment

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|---|---|
| Overvoltage category | Class II |
| Electrical shock protection class | Class II |
| Standards | EN/IEC 60947 |
| Product certifications | Marine<br>EAC<br>CCC |
| IP degree of protection | IP40 conforming to IEC 60529 |
| IK degree of protection | IK07 conforming to IEC 62262 |
| Ambient air temperature for operation | -35…70 °C |
| Ambient air temperature for storage | -55…85 °C |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| EU RoHS Directive | Compliant<br>EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration<br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

## Contractual warranty

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