

Product data sheet

Specifications



Circuit breaker, ComPact NSX400N, 50kA/415VAC, MicroLogic 4.3 Vigi trip unit 400A, 4 poles 4d

LV433940

! To be discontinued on: 30 June 2023

! To be discontinued

Important message : This product has been switched to new ComPact range and is no longer commercialized. It will continue to be available in H1 2023 only limited to specific projects.

Main

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| Range | ComPact |
| Product name | ComPact NSX |
| Range of product | ComPact NSX400...630 |
| Device short name | VigiCompact NSX400N |
| Product or component type | Earth leakage circuit breaker |
| Device application | Distribution |
| Number of poles | 4P |
| Protected poles description | 4t 3t 3t + N/2 |
| Neutral position | Left |
| [In] rated current | 400 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 EN/IEC 60947-2 |
| Utilisation category | Category A |
| [Icu] rated ultimate short-circuit breaking capacity | 85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | N 50 kA 415 V AC |
| Trip unit name | MicroLogic 4.3 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSolR |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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| [Ui] rated insulation voltage | 500 V AC 50/60 Hz |
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| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ics] rated service short-circuit breaking capacity | 85 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 42 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 15000 cycles |
| Electrical durability | 6000 cycles at 440 V In 12000 cycles at 440 V In/2 |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 45 mm |
| Protection type | L : for overload protection (long time) So : for short time short-circuit protection with fixed delay I : for instantaneous short-circuit protection R : for earth-leakage protection |
| Trip unit rating | 400 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 160...400 A |
| Long-time protection delay adjustment type tr | Fixed |
| [Tr] long-time protection delay adjustment range | 11 s at 7.2 x Ir 16 s at 6 x Ir 400 s at 1.5 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 | Fixed |
| [Tsd] Short-time protection delay adjustment range | 0.02 s |
| Instantaneous protection pick-up adjustment type Ii | Fixed |
| [Ii] instantaneous protection pick-up adjustment range | 4800 A |
| Earth-leakage protection | Integrated |
| Earth-leakage protection class | Class A |
| Earth-leakage protection sensitivity adjustment type IΔn | Adjustable |
| [IΔn] earth-leakage protection sensitivity adjustment range | 300 mA 500 mA 1 A 3 A 5 A 10 A |
| Earth-leakage protection specific mode | OFF using the IΔn rotary switch |
| Earth-leakage protection time delay adjustment type Δt | Adjustable |
| [Δt] Earth-leakage protection time delay adjustment range | 0 ms 60 ms 150 ms 500 ms 1 s |

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| Neutral protection settings | 0.5 x Ir (3t + N/2) 1 x Ir (4t) No protection (3t) |
| Zone selective interlocking ZSI | Without |
| Number of slots for electrical auxiliaries | 6 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate LED 105 % Ir (red) for overload LED 90 % Ir (orange) for overload |
| Width (W) | 140 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.4 kg |

Environment

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| Standards | EN/IEC 60947 |
| Product certifications | CCC EAC 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 2000 m...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 | 15.300 cm |
| Package 1 Width | 20.200 cm |
| Package 1 Length | 29.300 cm |
| Package 1 Weight | 7.715 kg |

Offer Sustainability

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|-----------------------------------|---|
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

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| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
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| California proposition 65 | WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
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Contractual warranty

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| Warranty | 18 months |
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Recommended replacement(s)

LV433940 is replaced by:

1x



Circuit breaker, ComPacT NSX400N, 50kA/415VAC, 4 poles, MicroLogic Vigi 4.3 trip unit 400A
C40N44V400
