

Product data sheet

Characteristics

C12E34V160L

Circuit breaker, ComPacT NSXm 160E,
16kA/415VAC, 3 poles, MicroLogic 4.1 trip unit
160A, EverLink lugs



Main

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| Range | ComPacT new generation |
| Product name | ComPacT NSXm new generation |
| Range of product | ComPacT NSXm new generation |
| Device short name | NSXm 160E |
| Product or component type | Earth leakage circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 160 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 |
| [Icu] rated ultimate short-circuit breaking capacity | 25 KA Icu at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA Icu at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | E 16 kA 415 V AC |
| Trip unit name | MicroLogic 4.1 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSiR |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |

Complementary

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|---|--|
| [Ui] rated insulation voltage | 500 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ics] rated service short-circuit breaking capacity | 25 KA at 220...240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA at 380...415 V AC 50/60 Hz conforming to IEC 60947-2 10 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 10000 Cycles at 440 V In 10000 Cycles at 690 V In/2 5000 cycles at 690 V In |
| Power dissipation per pole | 12.21 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |
| Downside connection | Front |

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| Connection terminals | 1 Everlink lug wire size 2.5...70 mm ² , fine stranded copper 1 Everlink lug wire size 2.5...95 mm ² , rigid or stranded aluminium/copper |
| Connection pitch | 35 Mm with spreaders 27 mm without spreaders |
| 9 mm pitches | 9 module |
| Trip unit rating | 160 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 63...160 A |
| Long-time protection delay adjustment type tr | Fixed |
| [tr] long-time protection delay adjustment range | 200 S at 1.5 x Ir 8 S at 6 x Ir 5 s at 7.2 x Ir |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type lsd | Adjustable 9 settings |
| [lsd] Short-time protection pick-up adjustment range | 1.5...10 x Ir |
| Short-time protection delay adjustment type tsd | Fixed |
| Instantaneous protection pick-up adjustment type li | Fixed |
| [li] instantaneous protection pick-up adjustment range | 2000 A |
| Earth-leakage protection | Integrated |
| Earth-leakage protection class | Class A Class AC |
| Earth-leakage protection sensitivity adjustment type $I_{\Delta n}$ | Adjustable |
| [$I_{\Delta n}$] earth-leakage protection sensitivity adjustment range | 30 MA 100 MA 300 MA 500 MA 1 A 3 A 5 A |
| Earth-leakage sensitivity | 30 MA for class A 100 MA for class A 300 MA for class A 500 MA for class A 1 A for class A 30 MA for class AC 100 MA for class AC 300 MA for class AC 500 MA for class AC 1 A for class AC 3 A for class AC 5 A for class AC |
| 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 1000 ms |
| Number of slots for electrical auxiliaries | 1 slot(s) for auxiliary switch OF 1 slot(s) for alarm switch SD 1 slot(s) for voltage release MN or MX |
| Local signalling | Flag (green) for presence of auxiliary contacts |
| Width (W) | 108 mm |
| Height (H) | 144 mm |
| Depth (D) | 80 mm |
| Net weight | 1.63 kg |
| Colour | Grey (RAL 7016) |

Environment

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|---------------------------------------|---|
| Standards | EN/IEC 60947 |
| 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 | 2000 m without derating 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 | 15.0 cm |
| Package 1 Width | 13.0 cm |
| Package 1 Length | 19.0 cm |
| Package 1 Weight | 1.618 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 4 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 6.867 kg |

Offer Sustainability

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|-----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | <input checked="" type="checkbox"/> REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | <input checked="" type="checkbox"/> China RoHS Declaration |
| RoHS exemption information | <input checked="" type="checkbox"/> Yes |
| Environmental Disclosure | <input checked="" type="checkbox"/> Product Environmental Profile |
| Circularity Profile | <input checked="" type="checkbox"/> End Of Life Information |
| Halogen content performance | Halogen free plastic parts product |