

LV430775

circuit breaker Compact NSX160N - Micrologic 2.2 -
160 A - 3 poles 3d



Main

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| Product or component type | Circuit breaker |
| Device short name | Compact NSX160N |
| Circuit breaker application | Distribution |
| Poles description | 3P |
| Protected poles description | 3t |
| Network type | AC |
| Network frequency | 50/60 Hz |
| [In] rated current | 160 A (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 | N |
| Breaking capacity | 10 kA at 600 V AC 50/60 Hz conforming to UL 508 20 kA at 600 V AC 50/60 Hz conforming to NEMA AB1 50 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 50 kA at 480 V AC 50/60 Hz conforming to UL 508 85 kA at 240 V AC 50/60 Hz conforming to UL 508 90 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 Icu 10 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2 Icu 36 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Icu 50 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2 Icu 90 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity | Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2 Ics 35 kA 525 V AC 50/60 Hz conforming to IEC 60947-2 Ics 36 kA 500 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2 Ics 50 kA 440 V AC 50/60 Hz conforming to IEC 60947-2 Ics 90 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN 60947-2 Yes conforming to IEC 60947-2 |
| Utilisation category | Category A |
| Trip unit name | Micrologic 2.2 |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSol |
| Trip unit rating | 160 A (40 °C) |
| Protection type | Instantaneous short-circuit protection Overload protection (long time) Short time short-circuit protection |
| Pollution degree | 3 conforming to IEC 60664-1 |

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Complementary

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|--|---|
| Control type | Toggle |
| Mounting mode | Fixed |
| Mounting support | Backplate |
| Upside connection | Front |
| Downside connection | Front |
| Mechanical durability | 40000 cycles |
| Electrical durability | 10000 cycles 440 V In/2 conforming to IEC 60947-2 15000 cycles 690 V In/2 conforming to IEC 60947-2 20000 cycles 440 V In conforming to IEC 60947-2 7500 cycles 690 V In conforming to IEC 60947-2 |
| Connection pitch | 35 mm |
| Local signalling | LED 105 % I _r LED 90 % I _r LED ready |
| Long time pick-up adjustment type I _r | Adjustable 9 settings |
| Long time pick-up adjustment range | 0.9...1 x I _o |
| Long time delay adjustment type | Fixed |
| [t _r] long-time delay adjustment | 11 s 7.2 x I _r 16 s 6 x I _r 400 s 1.5 x I _r |
| Thermal memory | 20 minutes before and after tripping |
| Short-time pick-up adjustment type I _{sd} | Adjustable 9 settings |
| [I _{sd}] short-time pick-up adjustment range | 1.5...10 x I _r |
| Short-time delay adjustment type | Fixed |
| Instantaneous pick-up adjustment type I _i | Fixed |
| Instantaneous pick-up adjustment range | 2400 A |
| Height | 161 mm |
| Width | 105 mm |
| Depth | 86 mm |
| Product weight | 2.2 kg |

Environment

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|---------------------------------------|---|
| Electrical shock protection class | Class II |
| Standards | EN 60947-2 IEC 60947-2 NEMA AB1 UL 508 |
| Product certifications | CSA UL |
| 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 |
| RoHS | Compliant - since 0819 - Schneider Electric declaration of conformity |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |