C12E4TM125L

Circuit breaker, ComPacT NSXm 160E, 16kA/415VAC, 4 poles 4D (neutral fully protected), TMD trip unit 125A, EverLink lugs





Main

| 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 | Circuit breaker |
| Device application | Distribution |
| Poles description | 4P |
| Protected poles description | 4D |
| Neutral position | Left |
| [In] rated current | 125 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 IEC 60947-2 |
| Utilisation category | Category A |
| [Icu] rated ultimate short-circuit breaking capacity | 25 KA Icu at 220240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA Icu at 380415 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 | TM-D |
| Trip unit technology | Thermal-magnetic |
| Trip unit protection functions | LI |
| Control type | Toggle |
| Circuit breaker mounting mode | Fixed |
| | |

Complementary

| [Ui] rated insulation voltage | 800 V AC 50/60 Hz |
|---|--|
| [Uimp] rated impulse withstand voltage | 8 kV |
| [lcs] rated service short-circuit breaking capacity | 25 KA at 220240 V AC 50/60 Hz conforming to IEC 60947-2 16 KA at 380415 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 | 9.64 W |
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical Flat on the back |
| Upside connection | Front |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| 9 mm pitches 12 module Trip unit rating 125 A at 40 °C Long-time pick-up adjustment type Ir (thermal protection) [Ir] long-time protection pick-up adjustment range 0.71 x In Long-time protection delay adjustment type tr Fixed Neutral protection settings 1 x Ir (4D) Instantaneous protection pick-up adjustment rape is Fixed [Ii] instantaneous protection pick-up adjustment adjustment range 250 A Earth-leakage protection Without 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 | Downside connection | Front |
|---|---|---|
| 9 mm pitches 12 module Trip unit rating 125 A at 40 °C Long-time pick-up adjustment type Ir (thermal protection) [Ir] long-time protection pick-up adjustment range 0.71 x In Long-time protection delay adjustment type tr Fixed Neutral protection settings 1 x Ir (4D) Instantaneous protection pick-up adjustment type li Fixed [Ii] instantaneous protection pick-up adjustment range 1250 A range Earth-leakage protection Without 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Connection terminals | |
| Trip unit rating 125 A at 40 °C Long-time pick-up adjustment type Ir (thermal protection) [Ir] long-time protection pick-up adjustment range 0.71 x In Long-time protection delay adjustment type tr Fixed Neutral protection settings 1 x Ir (4D) Instantaneous protection pick-up adjustment type Ii Fixed [Ii] instantaneous protection pick-up adjustment range 1250 A Earth-leakage protection Without 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) 137 mm Depth (D) 80 mm Net weight | Connection pitch | |
| Long-time pick-up adjustment type Ir (thermal protection) [Ir] long-time protection pick-up adjustment range 0.71 x In Long-time protection delay adjustment type tr Fixed Neutral protection settings 1 x Ir (4D) Instantaneous protection pick-up adjustment type Ii Fixed [Ii] instantaneous protection pick-up adjustment range 1250 A Farth-leakage protection Without 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | 9 mm pitches | 12 module |
| protection) [Ir] long-time protection pick-up adjustment range | Trip unit rating | 125 A at 40 °C |
| Long-time protection delay adjustment type tr Neutral protection settings 1 x lr (4D) Instantaneous protection pick-up adjustment type li [li] instantaneous protection pick-up adjustment range Earth-leakage protection 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) 137 mm Depth (D) 80 mm Net weight | • | Adjustable |
| Neutral protection settings 1 x Ir (4D) Instantaneous protection pick-up adjustment type Ii Fixed [Ii] instantaneous protection pick-up adjustment range Earth-leakage protection Without 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | [Ir] long-time protection pick-up adjustment range | 0.71 x ln |
| Instantaneous protection pick-up adjustment type li Fixed 1250 A Earth-leakage protection 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Long-time protection delay adjustment type tr | Fixed |
| [li] instantaneous protection pick-up adjustment range Earth-leakage protection 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Neutral protection settings | 1 x lr (4D) |
| Earth-leakage protection Without 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Instantaneous protection pick-up adjustment type li | Fixed |
| 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | | 1250 A |
| 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) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Earth-leakage protection | Without |
| Width (W) 108 mm Height (H) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Number of slots for electrical auxiliaries | 1 slot(s) for alarm switch SD |
| Height (H) 137 mm Depth (D) 80 mm Net weight 1.42 kg | Local signalling | Flag (green) for presence of auxiliary contacts |
| Depth (D) 80 mm Net weight 1.42 kg | Width (W) | 108 mm |
| Net weight 1.42 kg | Height (H) | 137 mm |
| · · · · · · · · · · · · · · · · · · · | Depth (D) | 80 mm |
| Colour Grey (RAL 7016) | Net weight | 1.42 kg |
| | Colour | Grey (RAL 7016) |

Environment

| 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 | -2570 °C |
| Ambient air temperature for storage | -5085 °C |
| Relative humidity | 095 % |
| Operating altitude | 2000 m without derating 5000 m with derating |

Packing Units

| Unit Type of Package 1 | PCE |
|------------------------------|----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 12.0 cm |
| Package 1 Width | 11.5 cm |
| Package 1 Length | 21.0 cm |
| Package 1 Weight | 1.55 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 30.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 9.656 kg |

Offer Sustainability

| Sustainable offer status | Green Premium product | |
|-----------------------------|--|--|
| REACh Regulation | ☑ REACh Declaration | |
| EU RoHS Directive | Compliant with Exemptions | |
| Mercury free | Yes | |
| China RoHS Regulation | China RoHS Declaration | |
| RoHS exemption information | ₫Yes | |
| Environmental Disclosure | Product Environmental Profile | |
| Circularity Profile | No need of specific recycling operations | |
| Halogen content performance | Halogen free plastic parts product | |