# Product data sheet
## Characteristics

# C25R35E250
## circuit breaker ComPacT NSX250R, 200 kA at 415 VAC, MicroLogic 5.2 E trip unit 250 A, 3 poles 3d

## Main

| | |
|---|---|
| Range | ComPacT new generation |
| Product name | ComPacT NSX new generation |
| Device short name | NSX250R |
| Product or component type | Circuit breaker |
| Device application | Distribution |
| Poles description | 3P |
| Protected poles description | 3D |
| [In] rated current | 250 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 EN/IEC 60947-2 |
| Utilisation category | Category A |
| [Icu] rated ultimate short-circuit breaking capacity | 200 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>200 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>200 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>80 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>45 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level | R 200 kA 415 V AC |
| Trip unit name | Micrologic 5.2 E |
| Trip unit technology | Electronic |
| Trip unit protection functions | LSI |
| 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 |
| [Ics] rated service short-circuit breaking capacity | 200 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>200 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>200 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>80 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>45 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability | 20000 cycles |
| Electrical durability | 20000 Cycles at 440 V In/2<br>10000 Cycles at 440 V In<br>10000 Cycles at 690 V In/2<br>5000 cycles at 690 V In |
| Power dissipation per pole | 17.6 W |

| | |
|---|---|
| Mounting support | Backplate |
| Mounting position | Horizontal and vertical<br>Flat on the back |
| Upside connection | Front |
| Downside connection | Front |
| Connection pitch | 35 mm |
| 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 | 250 A at 40 °C |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings |
| [Ir] long-time protection pick-up adjustment range | 100...250 A |
| Long-time protection delay adjustment type tr | Adjustable |
| [tr] long-time protection delay adjustment range | 15…400 S at 1.5 x Ir<br>0.5…16 S at 6 x Ir<br>0.35…11 s at 7.2 x Ir |
| Thermal memory | 20 minutes before and after tripping |
| Short-time protection pick-up adjustment type Isd | Adjustable 9 settings |
| [Isd] Short-time protection pick-up adjustment range | 1.5...10 x Ir |
| Short-time protection delay adjustment type tsd | Adjustable 5 settings |
| [tsd] Short-time protection delay adjustment range | 0…0.4 S $I^2t$=off<br>0.1…0.4 s $I^2t$=on |
| Instantaneous protection pick-up adjustment type Ii | Adjustable |
| [Ii] instantaneous protection pick-up adjustment range | 1.5...12 x In |
| Earth-leakage protection | Without |
| Zone selective interlocking ZSI | With |
| Number of slots for electrical auxiliaries | 5 slot(s) |
| Local signalling | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload |
| Display type | LCD display |
| Type of measurement | Energy meter |
| Communication of data | Time-stamped histories and event tables<br>Maximeters/Minimeters<br>Maintenance indicators<br>Power quality<br>Demand current and power<br>Instantaneous and demand values<br>Energy metering<br>Protection and alarm settings |
| Width (W) | 105 mm |
| Height (H) | 161 mm |
| Depth (D) | 86 mm |
| Net weight | 2.4 kg |

## Environment

| | |
|---|---|
| Standards | EN/IEC 60947 |
| Product certifications | EAC<br>Marine<br>CCC |
| 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<br>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 | 11 cm |
| Package 1 Width | 14 cm |
| Package 1 Length | 20 cm |
| Package 1 Weight | 2.099 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 1 |
| Package 2 Height | 30 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 2.099 kg |
| Unit Type of Package 3 | BB1 |
| Number of Units in Package 3 | 1 |
| Package 3 Height | 14 cm |
| Package 3 Width | 11 cm |
| Package 3 Length | 20 cm |
| Package 3 Weight | 2.21 kg |

## Offer Sustainability

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|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

## Contractual warranty

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