

# LV433550

circuit breaker ComPact NSX250HB1, 75 kA at 690 VAC, MicroLogic 5.2 E trip unit 160 A, 3 poles 3d



## Main

|  |  |
|--|--|
| Range  | ComPact  |
| Product name   | ComPact NSX  |
| Range of product                                     | ComPact NSX100...250   |
| Device short name                                    | NSX250HB1  |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Distribution   |
| Number of poles                                      | 3P   |
| Protected poles description                          | 3t   |
| [In] rated current                                   | 160 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 | 85 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | HB1 75 kA 690 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 | 85 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>80 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>75 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 20000 cycles   |
| Electrical durability                               | 5000 Cycles at 690 V In<br>10000 Cycles at 690 V In/2<br>10000 Cycles at 440 V In<br>20000 cycles at 440 V In/2  |
| Mounting support                                    | Backplate  |
| 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                                 |

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|   |  |
|---|--|
| 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             | Adjustable   |
| [tr] long-time protection delay adjustment range          | 15...400 S at 1.5 x Ir<br>0.35...11 S at 7.2 x Ir<br>0.5...16 s at 6 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   |
| [tsd] Short-time protection delay adjustment range        | 0...0.4 s  |
| Instantaneous protection pick-up adjustment type li       | Adjustable   |
| [li] instantaneous protection pick-up adjustment range    | 1.5...15 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                                     | Maximeters/Minimeters<br>Energy metering<br>Maintenance indicators<br>Power quality<br>Protection and alarm settings<br>Instantaneous and demand values<br>Demand current and power<br>Time-stamped histories and event tables |
| Width (W)   | 105 mm   |
| Height (H)  | 161 mm   |
| Depth (D)   | 86 mm  |
| Net weight  | 2.4 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | EN/IEC 60947   |
| Product certifications                | Marine<br>EAC<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

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 2.115 kg |
| Package 1 Height             | 10.8 cm  |
| Package 1 width              | 13.5 cm  |
| Package 1 Length             | 19.2 cm  |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| REACH Regulation           | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>                           |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |

## Contractual warranty

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