

# LV433285

circuit breaker ComPact NSX100R, 200 kA at 415 VAC, MicroLogic 6.2 E-M trip unit 25 A, 3 poles 3d



## Main

|  |   |
|--|---|
| Range  | ComPact   |
| Product name   | ComPact NSX   |
| Range of product                                     | ComPact NSX100...250  |
| Device short name                                    | NSX100R   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Motor   |
| Number of poles                                      | 3P  |
| Protected poles description                          | 3t  |
| [In] rated current                                   | 25 A at 65 °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 6.2 E-M  |
| Trip unit technology                                 | Electronic  |
| Trip unit protection functions                       | LSIG  |
| 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                               | 50000 cycles  |
| Electrical durability                               | 10000 Cycles at 690 V In<br>20000 Cycles at 690 V In/2<br>30000 Cycles at 440 V In<br>50000 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<br>G : for ground fault protection   |
| Trip unit rating  | 25 A at 65 °C   |
| Motor tripping class                                      | 5<br>10<br>30<br>20   |
| Complementary motor protection                            | Protracted starting time<br>Phase unbalance<br>Underload<br>Stalled rotor   |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings   |
| [Ir] long-time protection pick-up adjustment range        | 12...25 A   |
| Long-time protection delay adjustment type tr             | Adjustable  |
| [tr] long-time protection delay adjustment range          | 10 S at 7.2 x Ir for trip class 10<br>120 S at 1.5 x Ir for trip class 5<br>20 S at 7.2 x Ir for trip class 20<br>240 S at 1.5 x Ir for trip class 10<br>26 S at 6 x Ir for trip class 20<br>480 S at 1.5 x Ir for trip class 20<br>5 S at 7.2 x Ir for trip class 5<br>13.5 S at 6 x Ir for trip class 10<br>6.5 S at 6 x Ir for trip class 5<br>30 S at 7.2 x Ir for trip class 30<br>38 S at 6 x Ir for trip class 30<br>720 s at 1.5 x Ir for trip class 30 |
| Thermal memory  | 20 minutes before and after tripping  |
| Short-time protection pick-up adjustment type Isd         | Adjustable  |
| [Isd] Short-time protection pick-up adjustment range      | 5...13 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    | 425 A   |
| Ground-fault protection pick-up adjustment type Ig        | Adjustable 9 settings   |
| [Ig] ground-fault protection pick-up adjustment range     | 0.6...1 x In<br>Ig enable on/off  |
| Ground-fault protection time delay adjustment type tg     | Adjustable 5 settings   |
| [tg] ground-fault protection time delay adjustment range  | 0...0.4 s   |
| Earth-leakage protection                                  | Without   |
| Number of slots for electrical auxiliaries                | 5 slot(s)   |
| Local signalling  | Flashing LED (green) for ready to operate<br>LED 95 % Ith (red) for temperature over set point  |
| Display type  | LCD display   |
| Type of measurement                                       | Energy meter  |
| Communication of data                                     | Maximeters/Minimeters<br>Power quality<br>Phase sequence<br>Demand current and power<br>Maintenance indicators<br>Protection and alarm settings<br>Instantaneous and demand values<br>Thermal image function<br>Energy metering<br>Time-stamped histories and event tables  |
| Width (W)   | 105 mm  |
| Height (H)  | 161 mm  |
| Depth (D)   | 86 mm   |
| Net weight  | 2.05 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

|                  |           |
|------------------|-----------|
| Package 1 Weight | 1.940 kg  |
| Package 1 Height | 13.500 cm |
| Package 1 width  | 10.800 cm |
| Package 1 Length | 19.200 cm |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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 |
|----------|-----------|