

# C10R36E040

Circuit breaker, ComPacT NSX100R,  
200kA/415VAC, 3 poles, MicroLogic 6.2E trip  
unit 40A



## Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX100R   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Distribution  |
| Poles description                                    | 3P  |
| Protected poles description                          | 3D  |
| [In] rated current                                   | 40 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 6.2 E  |
| 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                               | 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                          | 1.34 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<br>G : for ground fault protection  |
| Trip unit rating  | 40 A at 40 °C  |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings  |
| [Ir] long-time protection pick-up adjustment range        | 18...40 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   |
| [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 I <sup>2</sup> t=off<br>0.1...0.4 s I <sup>2</sup> t=on  |
| Instantaneous protection pick-up adjustment type Ii       | Adjustable   |
| [Ii] instantaneous protection pick-up adjustment range    | 1.5...15 x In  |
| Ground-fault protection pick-up adjustment type Ig        | Adjustable 9 settings  |
| [Ig] ground-fault protection pick-up adjustment range     | 0.4...1 x In for In = 40 A<br>0.2...1 x In for In > 40 A<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 I <sup>2</sup> t=off<br>0.1...0.4 s I <sup>2</sup> t=on  |
| 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                                     | Power quality<br>Protection and alarm settings<br>Maintenance indicators<br>Maximeters/Minimeters<br>Energy metering<br>Demand current and power<br>Time-stamped histories and event tables<br>Instantaneous and demand values |
| Width (W)   | 105 mm   |
| Height (H)  | 161 mm   |
| Depth (D)   | 86 mm  |
| Net weight  | 2.05 kg  |

## Environment

|                                   |                              |
|-----------------------------------|------------------------------|
| Standards                         | EN/IEC 60947                 |
| Product certifications            | Marine[RETURN]EAC[RETURN]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 Height             | 14.0 cm |
| Package 1 Width              | 11.0 cm |
| Package 1 Length             | 20.0 cm |
| Package 1 Weight             | 1.89 kg |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 4       |
| Package 2 Height             | 30.0 cm |
| Package 2 Width              | 30.0 cm |
| Package 2 Length             | 40.0 cm |
| Package 2 Weight             | 7.56 kg |

## Offer Sustainability

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