

# C10R32M050

Circuit breaker ComPacT NSX100R, 200kA at 415VAC, MicroLogic 2.2 M trip unit 50A, 3 poles 3d



## Main

|  |   |
|--|---|
| Range  | ComPacT new generation  |
| Product name   | ComPacT NSX new generation  |
| Device short name                                    | NSX100R   |
| Product or component type                            | Circuit breaker   |
| Device application                                   | Motor protection  |
| Poles description                                    | 3P  |
| Protected poles description                          | 3D  |
| [In] rated current                                   | 50 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 2.2 M  |
| Trip unit technology                                 | Electronic  |
| Trip unit protection functions                       | LSol  |
| 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                          | 1.18 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>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection   |
| Trip unit rating  | 50 A at 65 °C  |
| Motor tripping class                                      | 10<br>5<br>20  |
| Complementary motor protection                            | Phase unbalance  |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings  |
| [Ir] long-time protection pick-up adjustment range        | 25...50 A  |
| Long-time protection delay adjustment type tr             | Fixed  |
| [tr] long-time protection delay adjustment range          | 120 S at 1.5 x Ir for trip class 5<br>6.5 S at 6 x Ir for trip class 5<br>5 S at 7.2 x Ir for trip class 5<br>240 S at 1.5 x Ir for trip class 10<br>13.5 S at 6 x Ir for trip class 10<br>10 S at 7.2 x Ir for trip class 10<br>480 S at 1.5 x Ir for trip class 20<br>26 S at 6 x Ir for trip class 20<br>20 s at 7.2 x Ir for trip class 20 |
| 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      | 5...13 x Ir  |
| Short-time protection delay adjustment type tsd           | Fixed  |
| Instantaneous protection pick-up adjustment type Ii       | Fixed  |
| [Ii] instantaneous protection pick-up adjustment range    | 750 A  |
| Earth-leakage protection                                  | Without  |
| Zone selective interlocking ZSI                           | Without  |
| Number of slots for electrical auxiliaries                | 5 slot(s)  |
| Local signalling  | Flashing LED (green) for ready to operate<br>LED 95 % lth (red) for temperature over set point   |
| 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]CCC[RETURN]EAC                                 |
| 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   | -50...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             | 11.0 cm |
| Package 1 Width              | 14.0 cm |
| Package 1 Length             | 20.0 cm |
| Package 1 Weight             | 1.92 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             | 7.68 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>       |