

# C1BN2TM630D

Circuit breaker, ComPacT NSX1200N DC,  
50kA/600VDC, 2 poles, TM-DC trip unit 630A,  
without bare cable connector



## Main

|                                                      |                                                                                                                                        |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                 |
| Product name                                         | ComPacT NSX DC new generation                                                                                                          |
| Device short name                                    | NSX1200 DC                                                                                                                             |
| Product or component type                            | Circuit breaker                                                                                                                        |
| Device application                                   | Distribution                                                                                                                           |
| Poles description                                    | 2P                                                                                                                                     |
| Protected poles description                          | 2D                                                                                                                                     |
| [In] rated current                                   | 630 A at 40 °C                                                                                                                         |
| [Ue] rated operational voltage                       | 600 V DC                                                                                                                               |
| Network type                                         | DC                                                                                                                                     |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2                                                                                                       |
| Utilisation category                                 | Category A                                                                                                                             |
| [Icu] rated ultimate short-circuit breaking capacity | 50 kA Icu at 24...300 V DC 1 pole conforming to IEC 60947-2<br>50 kA Icu at 300...600 V DC 2 poles in series conforming to IEC 60947-2 |
| Performance level                                    | N 50 kA 600 V DC                                                                                                                       |
| Trip unit name                                       | TM-DC                                                                                                                                  |
| Trip unit technology                                 | Thermal-magnetic                                                                                                                       |
| Trip unit protection functions                       | LI                                                                                                                                     |
| Control type                                         | Toggle                                                                                                                                 |
| Circuit breaker mounting mode                        | Fixed                                                                                                                                  |

## Complementary

|                                                           |                                                                                                           |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                             | 750 V DC conforming to IEC 60947-2                                                                        |
| [Uimp] rated impulse withstand voltage                    | 8 kV conforming to IEC 60947-2                                                                            |
| [Ics] rated service short-circuit breaking capacity       | 12.5 kA at 24...300 V DC conforming to IEC 60947-2<br>12.5 kA at 300...600 V DC conforming to IEC 60947-2 |
| Mechanical durability                                     | 5000 cycles                                                                                               |
| Electrical durability                                     | 2000 Cycles at 600 V In/2<br>1000 cycles at 600 V In                                                      |
| Mounting support                                          | Backplate                                                                                                 |
| Mounting position                                         | Horizontal and vertical<br>Flat on the back                                                               |
| Upside connection                                         | Front                                                                                                     |
| Downside connection                                       | Front                                                                                                     |
| Connection pitch                                          | 45 mm                                                                                                     |
| Protection type                                           | L : for overload protection (thermal)<br>I : for short-circuit protection (magnetic)                      |
| Trip unit rating                                          | 630 A at 40 °C                                                                                            |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable                                                                                                |
| [Ir] long-time protection pick-up adjustment range        | 0.7...1 x In                                                                                              |

|                                                        |              |
|--------------------------------------------------------|--------------|
| Long-time protection delay adjustment type tr          | Fixed        |
| Instantaneous protection pick-up adjustment type li    | Adjustable   |
| [li] instantaneous protection pick-up adjustment range | 2.5...5 x In |
| Earth-leakage protection                               | Without      |
| Number of slots for electrical auxiliaries             | 6 slot(s)    |
| Width (W)                                              | 185 mm       |
| Height (H)                                             | 485 mm       |
| Depth (D)                                              | 110 mm       |
| Net weight                                             | 9.4 kg       |

## Environment

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2                                               |
| Product certifications                | CCC[RETURN]EAC[RETURN]Marine                                 |
| 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             | 15.8 cm |
| Package 1 Width              | 19.6 cm |
| Package 1 Length             | 36.8 cm |
| Package 1 Weight             | 7.9 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         | No need of specific recycling operations                                                                                          |
| Halogen content performance | Halogen free plastic parts product                                                                                                |