

# C16F4D

Circuit breaker basic frame, ComPacT  
NSX160F DC, 36kA at 750 VDC, 160A, without  
trip unit, 4 poles



## Main

|                                                      |                                                                                                                                                                                                                           |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                    |
| Product name                                         | ComPacT NSX DC new generation                                                                                                                                                                                             |
| Device short name                                    | NSX160F DC                                                                                                                                                                                                                |
| Product or component type                            | Basic frame                                                                                                                                                                                                               |
| Device application                                   | Distribution                                                                                                                                                                                                              |
| Poles description                                    | 4P                                                                                                                                                                                                                        |
| Neutral position                                     | Left                                                                                                                                                                                                                      |
| [In] rated current                                   | 160 A at 40 °C                                                                                                                                                                                                            |
| [Ue] rated operational voltage                       | 750 V DC conforming to IEC 60947-2                                                                                                                                                                                        |
| Network type                                         | DC                                                                                                                                                                                                                        |
| Suitability for isolation                            | Yes conforming to EN/IEC 60947-2                                                                                                                                                                                          |
| Utilisation category                                 | Category A                                                                                                                                                                                                                |
| [Icu] rated ultimate short-circuit breaking capacity | 36 kA Icu at 250 V DC 1P conforming to IEC 60947-2<br>36 kA Icu at 24...125 V DC 1P conforming to IEC 60947-2<br>36 kA Icu at 500 V DC 2P conforming to IEC 60947-2<br>36 kA Icu at 750 V DC 3P conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 750 V DC                                                                                                                                                                                                          |
| Control type                                         | Toggle                                                                                                                                                                                                                    |
| 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 | 36 kA at 250 V DC conforming to IEC 60947-2 (1P)<br>36 kA at 24...125 V DC conforming to IEC 60947-2 (1P)<br>36 kA at 500 V DC conforming to IEC 60947-2 (2P)<br>36 kA at 750 V DC conforming to IEC 60947-2 (3P)                                                                                                                   |
| Maximum breaking time                               | 10 ms                                                                                                                                                                                                                                                                                                                               |
| Mechanical durability                               | 10000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                                                                                              |
| Electrical durability                               | 10000 Cycles 250 V DC In/2 conforming to IEC 60947-2<br>10000 Cycles 500 V DC In/2 conforming to IEC 60947-2<br>10000 Cycles 750 V DC In/2 conforming to IEC 60947-2<br>5000 Cycles 250 V DC In conforming to IEC 60947-2<br>5000 Cycles 500 V DC In conforming to IEC 60947-2<br>5000 cycles 750 V DC In conforming to IEC 60947-2 |
| Mounting support                                    | Backplate                                                                                                                                                                                                                                                                                                                           |
| Upside connection                                   | Front                                                                                                                                                                                                                                                                                                                               |
| Downside connection                                 | Front                                                                                                                                                                                                                                                                                                                               |
| Connection pitch                                    | 35 mm                                                                                                                                                                                                                                                                                                                               |
| Protection type                                     | Without protection                                                                                                                                                                                                                                                                                                                  |
| Width (W)                                           | 140 mm                                                                                                                                                                                                                                                                                                                              |
| Height (H)                                          | 161 mm                                                                                                                                                                                                                                                                                                                              |
| Depth (D)                                           | 86 mm                                                                                                                                                                                                                                                                                                                               |

## Environment

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Standards                             | IEC 60947-2                               |
| Product certifications                | KEMA[RETURN]LCIE[RETURN]ASTA[RETURN]ASEFA |
| Pollution degree                      | 3 conforming to IEC 60664-1               |
| IP degree of protection               | IP40 conforming to IEC 60529              |
| IK degree of protection               | IK07 conforming to EN 50102               |
| Ambient air temperature for operation | -25...70 °C                               |
| Ambient air temperature for storage   | -50...85 °C                               |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 14.2 cm  |
| Package 1 Width              | 14.8 cm  |
| Package 1 Length             | 19.5 cm  |
| Package 1 Weight             | 2.074 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             | 8.438 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                                                                                          |