

# LV430403

circuit breaker basic frame, ComPact  
NSX160F, 36 kA at 415 VAC 50/60 Hz, 160 A,  
without trip unit, 3 poles



## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Range of product                                     | ComPact NSX100...250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Device short name                                    | NSX160F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product or component type                            | Basic frame                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Circuit breaker name                                 | Compact NSX160F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Number of poles                                      | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [In] rated current                                   | 160 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 | 10 KA at 600 V AC 50/60 Hz conforming to UL 508<br>85 KA at 240 V AC 50/60 Hz conforming to UL 508<br>22 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>8 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA at 480 V AC 50/60 Hz conforming to UL 508<br>30 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Control type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Mounting mode                                        | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                             |
| [Uimp] rated impulse withstand voltage              | 8 kV conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                          |
| [Ics] rated service short-circuit breaking capacity | 35 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>85 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>22 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>8 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 40000 cycles conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                  |
| Electrical durability                               | 40000 Cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>15000 Cycles 690 V AC 50/60 Hz In/2 conforming to IEC 60947-2<br>20000 Cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>7500 cycles 690 V AC 50/60 Hz 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)       | 105 mm             |
| Height (H)      | 161 mm             |
| Depth (D)       | 86 mm              |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947-2<br>UL 508     |
| Product certifications                | UL<br>CSA                    |
| 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                  |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Weight             | 1.48 kg   |
| Package 1 Height             | 13.6 cm   |
| Package 1 width              | 11.5 cm   |
| Package 1 Length             | 19.2 cm   |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 15        |
| Package 2 Weight             | 23.026 kg |
| Package 2 Height             | 30 cm     |
| Package 2 width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Unit Type of Package 3       | P12       |
| Number of Units in Package 3 | 60        |
| Package 3 Weight             | 104.94 kg |
| Package 3 Height             | 50 cm     |
| Package 3 width              | 80 cm     |
| Package 3 Length             | 120 cm    |

## Offer Sustainability

|                            |                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                             |
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| 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>       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|