

# Product data sheet

Specifications



circuit breaker ComPact NS630bL,  
150 kA at 415 VAC, Micrologic 2.0 A  
trip unit, 630 A, fixed,4 poles 4d

33500

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

## Main

|                                                      |                                                                                                                                                                                                                                                              |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPact                                                                                                                                                                                                                                                      |
| Product Name                                         | ComPact NS                                                                                                                                                                                                                                                   |
| Range Of Product                                     | ComPact NS630b...1600                                                                                                                                                                                                                                        |
| Device Short Name                                    | Compact NS630bL                                                                                                                                                                                                                                              |
| Product Or Component Type                            | Circuit breaker                                                                                                                                                                                                                                              |
| Device Application                                   | Distribution                                                                                                                                                                                                                                                 |
| Number Of Poles                                      | 4P                                                                                                                                                                                                                                                           |
| Protected Poles Description                          | 4D                                                                                                                                                                                                                                                           |
| Neutral Position                                     | Left                                                                                                                                                                                                                                                         |
| (In) Rated Current Up To 65 °C                       | 630 A at 50 °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 | 130 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance Level                                    | L 150 kA 415 V AC                                                                                                                                                                                                                                            |
| Trip Unit Name                                       | MicroLogic 2.0 A                                                                                                                                                                                                                                             |
| Trip Unit Technology                                 | Electronic                                                                                                                                                                                                                                                   |
| Trip Unit Protection Functions                       | LI                                                                                                                                                                                                                                                           |
| Control Type                                         | Rotary handle<br>Toggle                                                                                                                                                                                                                                      |
| Circuit Breaker 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              |

List Price displayed is VAT EXCLUSIVE.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                                  |                                                                                                                                                                                                                                              |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Ics] Rated Service Short-Circuit Breaking Capacity</b>       | 100 kA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>130 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>150 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| <b>Mechanical Durability</b>                                     | 10000 cycles                                                                                                                                                                                                                                 |
| <b>Electrical Durability</b>                                     | 2000 cycles at 690 V In<br>3000 cycles at 690 V In/2<br>3000 cycles at 440 V In<br>4000 cycles at 440 V In/2                                                                                                                                 |
| <b>Power Losses</b>                                              | 15 W                                                                                                                                                                                                                                         |
| <b>Mounting Support</b>                                          | Backplate                                                                                                                                                                                                                                    |
| <b>Upside Connection</b>                                         | Front                                                                                                                                                                                                                                        |
| <b>Downside Connection</b>                                       | Front                                                                                                                                                                                                                                        |
| <b>Connection Pitch</b>                                          | 70 mm                                                                                                                                                                                                                                        |
| <b>Protection Type</b>                                           | L : for overload protection (long time)<br>I : for instantaneous short-circuit protection                                                                                                                                                    |
| <b>Trip Unit Rating</b>                                          | 630 A at 50 °C                                                                                                                                                                                                                               |
| <b>Long-Time Pick-Up Adjustment Type Ir (Thermal Protection)</b> | Adjustable 9 settings                                                                                                                                                                                                                        |
| <b>[Ir] Long-Time Protection Pick-Up Adjustment Range</b>        | 0.4...1 x In                                                                                                                                                                                                                                 |
| <b>Long-Time Protection Delay Adjustment Type Tr</b>             | Adjustable 9 settings                                                                                                                                                                                                                        |
| <b>[Tr] Long-Time Protection Delay Adjustment Range</b>          | 12.5...600 s at 1.5 x Ir<br>0.5...24 s at 6 x Ir<br>0.7...16.6 s at 7.2 x Ir                                                                                                                                                                 |
| <b>Thermal Memory</b>                                            | 20 mn                                                                                                                                                                                                                                        |
| <b>Instantaneous Protection Pick-Up Adjustment Type Ii</b>       | Adjustable                                                                                                                                                                                                                                   |
| <b>[Ii] Instantaneous Protection Pick-Up Adjustment Range</b>    | 1.5...10 x Ir                                                                                                                                                                                                                                |
| <b>Earth-Leakage Protection</b>                                  | Without                                                                                                                                                                                                                                      |
| <b>Neutral Protection Settings</b>                               | No protection (3D)<br>0.5 x Ir (3D + N/2)<br>1 x Ir (4D)                                                                                                                                                                                     |
| <b>Zone Selective Interlocking Zsi</b>                           | Without                                                                                                                                                                                                                                      |
| <b>Auxiliary Contact Composition</b>                             | 1 NO/NC                                                                                                                                                                                                                                      |
| <b>Local Signalling</b>                                          | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload                                                                                                                                                                             |
| <b>Display Type</b>                                              | LCD display                                                                                                                                                                                                                                  |
| <b>Type Of Measurement</b>                                       | Ammeter                                                                                                                                                                                                                                      |
| <b>Width (W)</b>                                                 | 280 mm                                                                                                                                                                                                                                       |
| <b>Height (H)</b>                                                | 327 mm                                                                                                                                                                                                                                       |
| <b>Depth (D)</b>                                                 | 147 mm                                                                                                                                                                                                                                       |
| <b>Net Weight</b>                                                | 18 kg                                                                                                                                                                                                                                        |

## Environment

|                               |                           |
|-------------------------------|---------------------------|
| <b>Standards</b>              | EN/IEC 60947-2            |
| <b>Product Certifications</b> | ASEFA<br>ASTA             |
| <b>Pollution Degree</b>       | 3 conforming to IEC 60947 |

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| 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   | -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             | 37.0 cm   |
| Package 1 Width              | 38.0 cm   |
| Package 1 Length             | 30.0 cm   |
| Package 1 Weight             | 17.505 kg |

## Contractual warranty

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