

# C160N350FM

Circuit breaker, ComPacT NS1600N, 50kA at 415VAC, 3P, fixed, manually operated, MicroLogic 5.0 control unit, 1600A



## Main

|                                                      |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT                                                                                                                                                                                                                                                                                                                  |
| Product name                                         | ComPacT NS new generation                                                                                                                                                                                                                                                                                                |
| Range of product                                     | ComPacT NS630b...1600 new generation                                                                                                                                                                                                                                                                                     |
| Product or component type                            | Circuit breaker                                                                                                                                                                                                                                                                                                          |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                             |
| Number of poles                                      | 3P                                                                                                                                                                                                                                                                                                                       |
| Protected poles description                          | 3D                                                                                                                                                                                                                                                                                                                       |
| (In) rated current up to 65 °C                       | 1600 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 B                                                                                                                                                                                                                                                                                                               |
| [Icu] rated ultimate short-circuit breaking capacity | 85 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>40 KA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | N 50 kA 415 V AC                                                                                                                                                                                                                                                                                                         |
| Trip unit name                                       | MicroLogic 5.0                                                                                                                                                                                                                                                                                                           |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                               |
| Trip unit protection functions                       | LSI                                                                                                                                                                                                                                                                                                                      |
| Control type                                         | Manually operated                                                                                                                                                                                                                                                                                                        |
| 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 | 37 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>37 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>37 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>22 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Icw] rated short-time withstand current            | 19.2 kA 1 s conforming to IEC 60947-2                                                                                                                                                                                                                                                                |
| Mechanical durability                               | 10000 cycles                                                                                                                                                                                                                                                                                         |
| Electrical durability                               | 1000 Cycles at 690 V In<br>2000 Cycles at 690 V In/2<br>2000 Cycles at 440 V In<br>5000 cycles at 440 V In/2                                                                                                                                                                                         |
| Power losses                                        | 74 W                                                                                                                                                                                                                                                                                                 |
| Mounting support                                    | Backplate                                                                                                                                                                                                                                                                                            |

|                                                           |                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Upside connection                                         | Front                                                                                                                                    |
| Downside connection                                       | Front                                                                                                                                    |
| Connection pitch                                          | 70 mm                                                                                                                                    |
| Protection type                                           | L : for overload protection (long time)<br>S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection |
| Trip unit rating                                          | 1600 A at 50 °C                                                                                                                          |
| Long-time pick-up adjustment type Ir (thermal protection) | Adjustable 9 settings                                                                                                                    |
| [Ir] long-time protection pick-up adjustment range        | 0.4...1 x In                                                                                                                             |
| Long-time protection delay adjustment type tr             | Adjustable 9 settings                                                                                                                    |
| [tr] long-time protection delay adjustment range          | 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                                                             |
| Thermal memory                                            | 20 mn                                                                                                                                    |
| Short-time protection pick-up adjustment type Isd         | Adjustable 9 settings                                                                                                                    |
| [Isd] Short-time protection pick-up adjustment range      | 1.5...10 x Ir                                                                                                                            |
| Short-time protection delay adjustment type tsd           | Adjustable                                                                                                                               |
| [tsd] Short-time protection delay adjustment range        | 0.1...0.4 S I <sup>2</sup> t=on<br>0...0.4 s I <sup>2</sup> t=off                                                                        |
| Instantaneous protection pick-up adjustment type li       | Adjustable                                                                                                                               |
| [li] instantaneous protection pick-up adjustment range    | Off<br>2...15 x In                                                                                                                       |
| Earth-leakage protection                                  | Without                                                                                                                                  |
| Zone selective interlocking ZSI                           | Without                                                                                                                                  |
| Auxiliary contact composition                             | 1 NO/NC                                                                                                                                  |
| Local signalling                                          | 4 LEDs (red) for fault indication<br>1 LED (yellow) for overload                                                                         |
| Width (W)                                                 | 210 mm                                                                                                                                   |
| Height (H)                                                | 327 mm                                                                                                                                   |
| Depth (D)                                                 | 147 mm                                                                                                                                   |
| Net weight                                                | 14 kg                                                                                                                                    |

## Environment

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| Standards                             | EN/IEC 60947-2                                               |
| Product certifications                | IECEE CB Scheme                                              |
| Pollution degree                      | 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   | -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             | 30.000 cm |
| Package 1 Width              | 40.000 cm |
| Package 1 Length             | 60.000 cm |
| Package 1 Weight             | 14.328 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>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |