

# C160H360FM

Circuit breaker, ComPacT NS1600H, 70kA  
at 415VAC, 3P, fixed, manually operated,  
MicroLogic 6.0 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>70 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 500/525 V AC 50/60 Hz conforming to IEC 60947-2<br>42 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | H 70 kA 415 V AC                                                                                                                                                                                                                                                                                                         |
| Trip unit name                                       | MicroLogic 6.0                                                                                                                                                                                                                                                                                                           |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                               |
| Trip unit protection functions                       | LSIG                                                                                                                                                                                                                                                                                                                     |
| 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<br>G : for ground fault protection |
| Trip unit rating                                                      | 1600 A at 50 °C                                                                                                                                                             |
| Long-time pick-up adjustment type I <sub>r</sub> (thermal protection) | Adjustable 9 settings                                                                                                                                                       |
| [I <sub>r</sub> ] long-time protection pick-up adjustment range       | 0.4...1 x I <sub>n</sub>                                                                                                                                                    |
| Long-time protection delay adjustment type t <sub>r</sub>             | Adjustable 9 settings                                                                                                                                                       |
| [t <sub>r</sub> ] long-time protection delay adjustment range         | 12.5...600 S at 1.5 x I <sub>r</sub><br>0.5...24 S at 6 x I <sub>r</sub><br>0.7...16.6 s at 7.2 x I <sub>r</sub>                                                            |
| Thermal memory                                                        | 20 mn                                                                                                                                                                       |
| Short-time protection pick-up adjustment type I <sub>sd</sub>         | Adjustable 9 settings                                                                                                                                                       |
| [I <sub>sd</sub> ] Short-time protection pick-up adjustment range     | 1.5...10 x I <sub>r</sub>                                                                                                                                                   |
| Short-time protection delay adjustment type t <sub>sd</sub>           | Adjustable                                                                                                                                                                  |
| [t <sub>sd</sub> ] 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 I <sub>i</sub>       | Adjustable                                                                                                                                                                  |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range   | Off<br>2...15 x I <sub>n</sub>                                                                                                                                              |
| Ground-fault protection pick-up adjustment type I <sub>g</sub>        | Adjustable 9 settings                                                                                                                                                       |
| [I <sub>g</sub> ] ground-fault protection pick-up adjustment range    | 0.3...1 x I <sub>n</sub> for I <sub>n</sub> ≤ 400 A<br>0.2...1 x I <sub>n</sub> for 400 A < I <sub>n</sub> < 1250 A<br>500...1200 A for I <sub>n</sub> ≥ 1250 A             |
| Ground-fault protection time delay adjustment type t <sub>g</sub>     | Adjustable                                                                                                                                                                  |
| [t <sub>g</sub> ] ground-fault protection time 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                                                                                                           |
| 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 |

## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| REACH Regulation           |  <a href="#">REACH Declaration</a> |
| EU RoHS Directive          | Compliant with Exemptions                                                                                             |
| 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     |