

# C080L320FM

Circuit breaker, ComPacT NS800L, 150kA  
at 415VAC, 3P, fixed, manually operated,  
MicroLogic 2.0 control unit, 800A



## 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                       | 800 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 | 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>130 KA Icu at 440 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                                                                                                                                                                                                                                               |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                   |
| Trip unit protection functions                       | LI                                                                                                                                                                                                                                                           |
| 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 | 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<br>130 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>100 kA at 500/525 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                               | 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                                                                                                                                 |
| Power losses                                        | 20 W                                                                                                                                                                                                                                         |
| Mounting support                                    | Backplate                                                                                                                                                                                                                                    |
| Upside connection                                   | Front                                                                                                                                                                                                                                        |
| Downside connection                                 | Front                                                                                                                                                                                                                                        |

|                                                                       |                                                                                                                  |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Connection pitch                                                      | 70 mm                                                                                                            |
| Protection type                                                       | L : for overload protection (long time)<br>I : for instantaneous short-circuit protection                        |
| Trip unit rating                                                      | 800 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                                                                                                            |
| Instantaneous protection pick-up adjustment type I <sub>i</sub>       | Adjustable                                                                                                       |
| [I <sub>i</sub> ] instantaneous protection pick-up adjustment range   | 1.5...10 x I <sub>r</sub>                                                                                        |
| 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       |