

# Product data sheet

## Characteristics

# C6346E630

Trip unit MicroLogic 6.3E, ComPacT NSX630,  
4 poles, electronic basic and ground fault  
protections, energy meter, 630A



### Main

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                          | ComPacT new generation                                                                                                                                                      |
| Range of product               | ComPacT NSX400...630 new generation                                                                                                                                         |
| Product or component type      | Trip unit                                                                                                                                                                   |
| Trip unit name                 | MicroLogic 6.3 E                                                                                                                                                            |
| Trip unit technology           | Electronic                                                                                                                                                                  |
| Range compatibility            | ComPacT new generation NSX630                                                                                                                                               |
| Device application             | Distribution                                                                                                                                                                |
| Poles description              | 4P                                                                                                                                                                          |
| Protected poles description    | 3D + N/2<br>4D<br>3D + OSN<br>3D                                                                                                                                            |
| Neutral position               | Left                                                                                                                                                                        |
| Trip unit protection functions | LSIG                                                                                                                                                                        |
| 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               | 630 A at 40 °C                                                                                                                                                              |
| [Ue] rated operational voltage | 690 V AC 50/60 Hz                                                                                                                                                           |
| Network type                   | AC                                                                                                                                                                          |
| Network frequency              | 50/60 Hz                                                                                                                                                                    |
| Circuit breaker mounting mode  | Fixed                                                                                                                                                                       |

### Complementary

|                                                             |                                                                                                      |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Long-time pick-up adjustment type $Ir$ (thermal protection) | Adjustable                                                                                           |
| [ $Ir$ ] long-time protection pick-up adjustment range      | 250...630 A                                                                                          |
| Long-time protection delay adjustment type $tr$             | Adjustable                                                                                           |
| [ $tr$ ] long-time protection delay adjustment range        | 15...400 S at $1.5 \times Ir$<br>0.35...11 S at $7.2 \times Ir$<br>0.5...16 s at $6 \times Ir$       |
| Neutral protection settings                                 | $0.5 \times Ir$ (3D + N/2)<br>$1 \times Ir$ (4D)<br>$1.6 \times Ir$ (3D + OSN)<br>No protection (3D) |
| Thermal memory                                              | 20 minutes before and after tripping                                                                 |
| Short-time protection pick-up adjustment type $Isd$         | Adjustable                                                                                           |
| [ $Isd$ ] 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...0.4 S $I^2t=off$<br>0.1...0.4 s $I^2t=on$                                                        |
| Instantaneous protection pick-up adjustment type $li$       | Adjustable                                                                                           |
| [ $li$ ] instantaneous protection pick-up adjustment range  | 1.5...11 x $In$                                                                                      |
| Ground-fault protection pick-up adjustment type $lg$        | Adjustable                                                                                           |

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|                                                          |                                                                                                                                                                                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ig] ground-fault protection pick-up adjustment range    | 0.4...1 x In for In = 40 A<br>0.2...1 x In for In > 40 A<br>Ig enable on/off                                                                                                                                                   |
| Ground-fault protection time delay adjustment type tg    | Adjustable                                                                                                                                                                                                                     |
| [tg] ground-fault protection time delay adjustment range | 0...0.4 S I <sup>2</sup> t=off<br>0.1...0.4 s I <sup>2</sup> t=on                                                                                                                                                              |
| Earth-leakage protection                                 | Without                                                                                                                                                                                                                        |
| Zone selective interlocking ZSI                          | With                                                                                                                                                                                                                           |
| Local signalling                                         | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload                                                                                                              |
| Display type                                             | LCD display                                                                                                                                                                                                                    |
| Type of measurement                                      | Energy meter                                                                                                                                                                                                                   |
| Communication of data                                    | Energy metering<br>Protection and alarm settings<br>Time-stamped histories and event tables<br>Instantaneous and demand values<br>Maintenance indicators<br>Demand current and power<br>Power quality<br>Maximeters/minimeters |
| Electrical data recording                                | Maintenance indicators                                                                                                                                                                                                         |

## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Standards                             | EN/IEC 60947-2               |
| Electrical shock protection class     | Class II                     |
| Pollution degree                      | 3 conforming to IEC 60947-1  |
| IP degree of protection               | IP40 conforming to IEC 60529 |
| Ambient air temperature for operation | -25...70 °C                  |
| Ambient air temperature for storage   | -40...85 °C                  |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Height             | 13.7 cm  |
| Package 1 Width              | 17.7 cm  |
| Package 1 Length             | 21.5 cm  |
| Package 1 Weight             | 1.825 kg |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 4        |
| Package 2 Height             | 30 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 7.7 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 |  Yes                                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a> |
| Circularity Profile        |  <a href="#">End Of Life Information</a>       |