

# C63F34V570

Circuit breaker, ComPacT NSX630F,  
36kA/415VAC, 3 poles, MicroLogic Vigi 4.3 trip  
unit 570A



## Main

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                | ComPacT new generation                                                                                                                                                                                                                                                                                                                                                           |
| Product name                                         | ComPacT NSX new generation                                                                                                                                                                                                                                                                                                                                                       |
| Device short name                                    | NSX630F                                                                                                                                                                                                                                                                                                                                                                          |
| Product or component type                            | Earth leakage circuit breaker                                                                                                                                                                                                                                                                                                                                                    |
| Device application                                   | Distribution                                                                                                                                                                                                                                                                                                                                                                     |
| Poles description                                    | 3P                                                                                                                                                                                                                                                                                                                                                                               |
| Protected poles description                          | 3D                                                                                                                                                                                                                                                                                                                                                                               |
| [In] rated current                                   | 570 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage                       | 440 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 | 40 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>20 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Performance level                                    | F 36 kA 415 V AC                                                                                                                                                                                                                                                                                                                                                                 |
| Trip unit name                                       | MicroLogic 4.3                                                                                                                                                                                                                                                                                                                                                                   |
| Trip unit technology                                 | Electronic                                                                                                                                                                                                                                                                                                                                                                       |
| Trip unit protection functions                       | LSolR                                                                                                                                                                                                                                                                                                                                                                            |
| Control type                                         | Toggle                                                                                                                                                                                                                                                                                                                                                                           |
| Circuit breaker mounting mode                        | Fixed                                                                                                                                                                                                                                                                                                                                                                            |

## Complementary

|                                                     |                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage                       | 500 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage              | 8 kV                                                                                                                                                                                                                                                                                                                                                     |
| [Ics] rated service short-circuit breaking capacity | 40 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>36 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>30 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>25 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>10 KA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>10 KA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2 |
| Mechanical durability                               | 15000 cycles                                                                                                                                                                                                                                                                                                                                             |
| Electrical durability                               | 8000 Cycles at 440 V In/2<br>4000 Cycles at 440 V In<br>6000 Cycles at 690 V In/2<br>2000 cycles at 690 V In                                                                                                                                                                                                                                             |

|                                                             |                                                                                                                                                                                                |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation per pole                                  | 45.49 W N<br>45.49 W L1 and L3<br>38.99 W L2                                                                                                                                                   |
| Mounting support                                            | Backplate                                                                                                                                                                                      |
| Mounting position                                           | Horizontal and vertical<br>Flat on the back                                                                                                                                                    |
| Upside connection                                           | Front                                                                                                                                                                                          |
| Downside connection                                         | Front                                                                                                                                                                                          |
| Connection pitch                                            | 45 mm                                                                                                                                                                                          |
| Protection type                                             | L : for overload protection (long time)<br>So : for short time short-circuit protection with fixed delay<br>I : for instantaneous short-circuit protection<br>R : for earth-leakage protection |
| Trip unit rating                                            | 570 A at 40 °C                                                                                                                                                                                 |
| Long-time pick-up adjustment type Ir (thermal protection)   | Adjustable 9 settings                                                                                                                                                                          |
| [Ir] long-time protection pick-up adjustment range          | 250...570 A                                                                                                                                                                                    |
| Long-time protection delay adjustment type tr               | Fixed                                                                                                                                                                                          |
| [tr] long-time protection delay adjustment range            | 400 S at 1.5 x Ir<br>16 S at 6 x Ir<br>11 s at 7.2 x Ir                                                                                                                                        |
| 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             | Fixed                                                                                                                                                                                          |
| Instantaneous protection pick-up adjustment type li         | Fixed                                                                                                                                                                                          |
| [li] instantaneous protection pick-up adjustment range      | 6900 A                                                                                                                                                                                         |
| Earth-leakage protection                                    | Integrated                                                                                                                                                                                     |
| Earth-leakage protection class                              | Class A                                                                                                                                                                                        |
| Earth-leakage protection sensitivity adjustment type IΔn    | Adjustable                                                                                                                                                                                     |
| [IΔn] earth-leakage protection sensitivity adjustment range | 300 MA<br>500 MA<br>1 A<br>3 A<br>5 A<br>10 A                                                                                                                                                  |
| Earth-leakage protection specific mode                      | OFF using the IΔn rotary switch                                                                                                                                                                |
| Earth-leakage protection time delay adjustment type Δt      | Adjustable                                                                                                                                                                                     |
| [Δt] Earth-leakage protection time delay adjustment range   | 0 Ms<br>60 Ms<br>150 Ms<br>500 Ms<br>1 s                                                                                                                                                       |
| Zone selective interlocking ZSI                             | Without                                                                                                                                                                                        |
| Number of slots for electrical auxiliaries                  | 6 slot(s)                                                                                                                                                                                      |
| Local signalling                                            | Flashing LED (green) for ready to operate<br>LED 105 % Ir (red) for overload<br>LED 90 % Ir (orange) for overload                                                                              |
| Width (W)                                                   | 140 mm                                                                                                                                                                                         |
| Height (H)                                                  | 255 mm                                                                                                                                                                                         |
| Depth (D)                                                   | 110 mm                                                                                                                                                                                         |
| Net weight                                                  | 6.2 kg                                                                                                                                                                                         |

## Environment

|                                   |                              |
|-----------------------------------|------------------------------|
| Standards                         | EN/IEC 60947                 |
| Product certifications            | CCC[RETURN]EAC[RETURN]Marine |
| Overvoltage category              | Class II                     |
| Electrical shock protection class | Class II                     |
| Pollution degree                  | 3 conforming to IEC 60664-1  |
| IP degree of protection           | IP40 conforming to IEC 60529 |

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| IK degree of protection               | IK07 conforming to IEC 62262                                 |
| 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             | 15 cm   |
| Package 1 Width              | 20 cm   |
| Package 1 Length             | 29 cm   |
| Package 1 Weight             | 5.9 kg  |
| Unit Type of Package 2       | S04     |
| Number of Units in Package 2 | 2       |
| Package 2 Height             | 30 cm   |
| Package 2 Width              | 40 cm   |
| Package 2 Length             | 60 cm   |
| Package 2 Weight             | 12.8 kg |
| Unit Type of Package 3       | P12     |
| Number of Units in Package 3 | 12      |
| Package 3 Height             | 150 cm  |
| Package 3 Width              | 80 cm   |
| Package 3 Length             | 120 cm  |
| Package 3 Weight             | 100 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>       |
| Halogen content performance | Halogen free plastic parts product                                                                                                |