



### Main

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| Range                                  | Compact  |
| Range of product                       | Compact NS100...630  |
| Product or component type              | Circuit breaker  |
| Product name                           | Compact NS   |
| Device short name                      | Compact NS630N   |
| Circuit breaker name                   | Vigicompact NS630N   |
| Device application                     | Distribution   |
| Poles description                      | 4P   |
| Protected poles description            | 4t<br>3t<br>3t + N/2   |
| Neutral position                       | Left   |
| Network type                           | AC   |
| Network frequency                      | 50/60 Hz   |
| [In] rated current                     | 500 A 65 °C<br>630 A 40 °C   |
| [Ui] rated insulation voltage          | 750 V AC 50/60 Hz conforming to IEC 60947-2  |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947-2   |
| [Ue] rated operational voltage         | 440 V AC 50/60 Hz conforming to IEC 60947-2  |
| Breaking capacity code                 | N  |
| Breaking capacity                      | 22 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>85 kA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>30 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>42 kA Icu at 440 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>42 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>85 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC |
| [Ics] rated service breaking capacity  | Ics 30 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 42 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 85 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2   |
| Suitability for isolation              | Yes conforming to IEC 60947-2  |
| Utilisation category                   | Category A   |
| Trip unit name                         | STR23SE  |
| Trip unit technology                   | Electronic   |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                  |   |
|----------------------------------|---|
| Trip unit rating                 | 630 A   |
| Protection type                  | Earth-leakage protection<br>Short time short-circuit protection<br>Protection of the fourth pole<br>Overload protection (long time)<br>Instantaneous short-circuit protection |
| Earth-leakage add-on module name | MB  |
| Earth-leakage protection         | With  |
| Pollution degree                 | 3 conforming to IEC 60947   |

## Complementary

|  |  |
|--|--|
| Control type   | Toggle   |
| Mounting mode  | Fixed  |
| Mounting support   | Backplate  |
| Upside connection  | Front  |
| Downside connection  | Front  |
| Circuit breaker CT rating                                      | 630 A  |
| Mechanical durability  | 15000 cycles   |
| Electrical durability  | 4000 cycles 440 V AC 50/60 Hz In conforming to IEC 60947-2<br>8000 cycles 440 V AC 50/60 Hz In/2 conforming to IEC 60947-2 |
| Connection pitch   | 45 mm  |
| Local signalling   | Positive contact indication  |
| Neutral protection setting                                     | No protection<br>1 x Ir<br>0.5 x Ir  |
| Long time pick-up adjustment type Ir                           | Adjustable 48 settings   |
| Long time pick-up adjustment range                             | 0.4...1 x In   |
| Long time delay adjustment type                                | Fixed  |
| [Tr] long-time delay adjustment range                          | 90...180 s 1.5 x Ir<br>3.2...5 s 7.2 x Ir<br>5...7.5 s 6 x Ir  |
| Short-time pick-up adjustment type I <sub>sd</sub>             | Adjustable 8 settings  |
| [I <sub>sd</sub> ] short-time pick-up adjustment range         | 2...10 x Ir  |
| Short-time delay adjustment type                               | Fixed  |
| [T <sub>sd</sub> ] short-time delay adjustment range           | 0.04...0.06 s  |
| Instantaneous pick-up adjustment type I <sub>li</sub>          | Fixed  |
| Instantaneous pick-up adjustment range                         | 11 x In  |
| Earth-leakage protection class                                 | Class A  |
| Residual earth-leakage sensitivity adjustment type             | Adjustable   |
| [I <sub>Δn</sub> ] residual earth-leakage sensitive adjustment | 1 A<br>0.3 A<br>30 A<br>3 A<br>10 A  |
| Residual earth-leakage time delay adjustment type              | Adjustable   |
| Display type   | LED  |
| Height   | 355 mm   |
| Width  | 185 mm   |
| Depth  | 110 mm   |
| Compatibility code   | NS630  |

## Environment

|                                       |                               |
|---------------------------------------|-------------------------------|
| Standards                             | IEC 60947-2                   |
| Product certifications                | ASEFA<br>LCIE<br>ASTA<br>KEMA |
| 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                   |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

Product Life Status

END-OF-SALE NOTICE

32934