

# Product data sheet

Specifications



## circuit breaker Compact NS630L - STR53UE - 630 A - 3 poles 3d

32903

❗ Discontinued

### Main

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product                       | Compact NS100...630                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product Or Component Type              | Circuit breaker                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Device Short Name                      | Compact NS630L                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Circuit Breaker Name                   | Compact NS630L                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Device Application                     | Distribution                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Poles Description                      | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Protected Poles Description            | 3t                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Network Type                           | AC<br>DC                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Network Frequency                      | 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [In] Rated Current                     | 500 A at 65 °C<br>630 A at 40 °C                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Uij] 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         | 690 V AC 50/60 Hz conforming to IEC 60947-2<br>750 V DC conforming to IEC 60947-2                                                                                                                                                                                                                                                                                                                                                       |
| Breaking Capacity Code                 | L                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Breaking Capacity                      | 130 kA at 480 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>200 kA at 240 V AC 50/60 Hz conforming to NEMA AB1 HIC<br>130 kA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>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>50 kA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>70 kA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] Rated Service Breaking Capacity  | 130 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>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>70 kA at 500 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                         | STR53UE F                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Trip Unit Technology                   | Electronic                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Trip Unit Rating                       | 630 A                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protection Type                        | Instantaneous short-circuit protection<br>Short time short-circuit protection<br>Overload protection (long time)                                                                                                                                                                                                                                                                                                                        |
| Pollution Degree                       | 3 conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                               |

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

# 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                                                                                                                                                                                                                                                                                                        |
| 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           | Adjustable                                                                                                                                                                                                                                                                                                                         |
| [Tr] Long-Time Delay Adjustment Range     | 12...16 s 6 x Ir<br>138...200 s 1.5 x Ir<br>277...400 s 1.5 x Ir<br>3...4 s 6 x Ir<br>34...50 s 1.5 x Ir<br>6...8 s 6 x Ir<br>69...100 s 1.5 x Ir<br>8...15 s 1.5 x Ir<br>0.2...0.74 s 7.2 x Ir<br>0.4...0.5 s 6 x Ir<br>1...1.4 s 7.2 x Ir<br>1.5...2 s 6 x Ir<br>2...2.8 s 7.2 x Ir<br>4...5.5 s 7.2 x Ir<br>8.2...11 s 7.2 x Ir |
| Short-Time Pick-Up Adjustment Type Isd    | Adjustable 8 settings                                                                                                                                                                                                                                                                                                              |
| [Isd] Short-Time Pick-Up Adjustment Range | 1.5...10 x Ir                                                                                                                                                                                                                                                                                                                      |
| Short-Time Delay Adjustment Type          | Adj 4 setgs + const I <sup>2</sup> t option                                                                                                                                                                                                                                                                                        |
| [Tsd] Short-Time Delay Adjustment Range   | 0.015...0.06 s<br>0.14...0.23 s<br>0.23...0.35 s<br>0.06...0.14 s                                                                                                                                                                                                                                                                  |
| Instantaneous Pick-Up Adjustment Type Ii  | Adjustable                                                                                                                                                                                                                                                                                                                         |
| Instantaneous Pick-Up Adjustment Range    | 1.5...11 x In                                                                                                                                                                                                                                                                                                                      |
| Zone Selective Interlocking Zsi           | With                                                                                                                                                                                                                                                                                                                               |
| Display Type                              | LED                                                                                                                                                                                                                                                                                                                                |
| Height                                    | 255 mm                                                                                                                                                                                                                                                                                                                             |
| Width                                     | 140 mm                                                                                                                                                                                                                                                                                                                             |
| Depth                                     | 110 mm                                                                                                                                                                                                                                                                                                                             |

# Environment

|           |             |
|-----------|-------------|
| Standards | IEC 60947-2 |
|-----------|-------------|

|                                       |                               |
|---------------------------------------|-------------------------------|
| Product Certifications                | KEMA<br>ASEFA<br>ASTA<br>LCIE |
| 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 | 18 months |
|----------|-----------|