

# LV432895

circuit breaker Compact NSX630H - Micrologic 2.3 - 630 A - 3 poles 3d



## Main

|  |  |
|--|--|
| Product or component type              | Circuit breaker  |
| Device short name                      | Compact NSX630H  |
| Circuit breaker application            | Distribution   |
| Poles description                      | 3P   |
| Protected poles description            | 3t   |
| Network type                           | AC   |
| Network frequency                      | 50/60 Hz   |
| [In] rated current                     | 630 A ( 40 °C )  |
| [Ui] rated insulation voltage          | 800 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage | 8 kV   |
| [Ue] rated operational voltage         | 690 V AC 50/60 Hz  |
| Breaking capacity code                 | H  |
| Breaking capacity                      | 100 kA at 240 V AC 50/60 Hz conforming to NEMA AB1<br>20 kA at 600 V AC 50/60 Hz conforming to UL 508<br>35 kA at 600 V AC 50/60 Hz conforming to NEMA AB1<br>65 kA at 480 V AC 50/60 Hz conforming to NEMA AB1<br>65 kA at 480 V AC 50/60 Hz conforming to UL 508<br>85 kA at 240 V AC 50/60 Hz conforming to UL 508<br>Icu 100 kA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 20 kA at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 35 kA at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 50 kA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 65 kA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Icu 70 kA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Ics] rated service breaking capacity  | Ics 10 kA 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 100 kA 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 11 kA 525 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 50 kA 500 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 65 kA 440 V AC 50/60 Hz conforming to IEC 60947-2<br>Ics 70 kA 380/415 V AC 50/60 Hz conforming to IEC 60947-2  |
| Suitability for isolation              | Yes conforming to EN 60947-2<br>Yes conforming to IEC 60947-2  |
| Utilisation category                   | Category A   |
| Trip unit name                         | Micrologic 2.3   |
| Trip unit technology                   | Electronic   |
| Trip unit protection functions         | LSol   |
| Trip unit rating                       | 630 A ( 40 °C )  |
| Protection type                        | Instantaneous short-circuit protection<br>Overload protection (long time)<br>Short time short-circuit protection   |
| Pollution degree                       | 3 conforming to IEC 60664-1  |

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## Complementary

|  |  |
|--|--|
| Control type   | Toggle   |
| Mounting mode  | Fixed  |
| Mounting support                                       | Backplate  |
| Upside connection                                      | Front  |
| Downside connection                                    | Front  |
| Mechanical durability                                  | 15000 cycles   |
| Electrical durability                                  | 2000 cycles 690 V In conforming to IEC 60947-2<br>4000 cycles 440 V In conforming to IEC 60947-2<br>6000 cycles 690 V In/2 conforming to IEC 60947-2<br>8000 cycles 440 V In/2 conforming to IEC 60947-2 |
| Connection pitch                                       | 45 mm  |
| Local signalling                                       | LED 105 % I <sub>r</sub><br>LED 90 % I <sub>r</sub><br>LED ready   |
| Long time pick-up adjustment type I <sub>r</sub>       | Adjustable 9 settings  |
| Long time pick-up adjustment range                     | 0.9...1 x I <sub>o</sub>   |
| Long time delay adjustment type                        | Fixed  |
| [t <sub>r</sub> ] long-time delay adjustment           | 16 s 6 x I <sub>r</sub>  |
| Thermal memory   | 20 minutes before and after tripping   |
| Short-time pick-up adjustment type I <sub>sd</sub>     | Adjustable 9 settings  |
| [I <sub>sd</sub> ] short-time pick-up adjustment range | 1.5...10 x I <sub>r</sub>  |
| Short-time delay adjustment type                       | Fixed  |
| Instantaneous pick-up adjustment type I <sub>i</sub>   | Fixed  |
| Instantaneous pick-up adjustment range                 | 6900 A   |
| Height   | 255 mm   |
| Width  | 140 mm   |
| Depth  | 110 mm   |
| Product weight   | 6.2 kg   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Electrical shock protection class     | Class II  |
| Standards                             | EN 60947-2<br>IEC 60947-2<br>NEMA AB1<br>UL 508 |
| Product certifications                | CSA<br>UL                                       |
| IP degree of protection               | IP40 conforming to IEC 60529                    |
| IK degree of protection               | IK07 conforming to IEC 62262                    |
| Ambient air temperature for operation | -35...70 °C                                     |
| Ambient air temperature for storage   | -55...85 °C                                     |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS                             | Compliant - since 0819 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Need no specific recycling operations                                 |