

# C63H31M500

Circuit breaker, ComPacT NSX630H,  
70kA/415VAC, 3 poles, MicroLogic 1.3M trip  
unit 500A



## Main

|  |  |
|--|--|
| Range  | ComPacT new generation   |
| Product name   | ComPacT NSX new generation   |
| Device short name                                    | NSX630H  |
| Product or component type                            | Circuit breaker  |
| Device application                                   | Motor protection   |
| Poles description                                    | 3P   |
| Protected poles description                          | 3D   |
| [In] rated current                                   | 500 A at 65 °C   |
| [Ue] rated operational voltage                       | 690 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 | 100 KA Icu at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA Icu at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA Icu at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA Icu at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>35 KA Icu at 525 V AC 50/60 Hz conforming to IEC 60947-2<br>20 KA Icu at 660/690 V AC 50/60 Hz conforming to IEC 60947-2<br>20 kA at 600 V AC 50/60 Hz conforming to UL 508 |
| Performance level                                    | H 70 kA 415 V AC   |
| Trip unit name                                       | Micrologic 1.3 M   |
| Trip unit technology                                 | Electronic   |
| Trip unit protection functions                       | SI   |
| Control type   | Toggle   |
| Circuit breaker mounting mode                        | Fixed  |

## Complementary

|   |   |
|---|---|
| [Ui] rated insulation voltage                       | 800 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage              | 8 kV  |
| [Ics] rated service short-circuit breaking capacity | 100 KA at 220/240 V AC 50/60 Hz conforming to IEC 60947-2<br>70 KA at 380/415 V AC 50/60 Hz conforming to IEC 60947-2<br>65 KA at 440 V AC 50/60 Hz conforming to IEC 60947-2<br>50 KA at 500 V AC 50/60 Hz conforming to IEC 60947-2<br>11 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                          | 25 W  |

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|  |   |
|--|---|
| 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  | S : for short time short-circuit protection<br>I : for instantaneous short-circuit protection |
| Trip unit rating                                       | 500 A at 65 °C  |
| Short-time protection pick-up adjustment type lsd      | Adjustable 9 settings   |
| [lsd] Short-time protection pick-up adjustment range   | 2500 A<br>3000 A<br>3500 A<br>4000 A<br>4500 A<br>5000 A<br>5500 A<br>6000 A<br>6500 A        |
| Short-time protection delay adjustment type tsd        | Fixed   |
| Instantaneous protection pick-up adjustment type li    | Fixed   |
| [li] instantaneous protection pick-up adjustment range | 6500 A  |
| Earth-leakage protection                               | Without   |
| Zone selective interlocking ZSI                        | Without   |
| Number of slots for electrical auxiliaries             | 6 slot(s)   |
| Local signalling                                       | Flashing LED (green) for ready to operate   |
| 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<br>EAC<br>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             | 15.0 cm  |
| Package 1 Width              | 16.0 cm  |
| Package 1 Length             | 29.0 cm  |
| Package 1 Weight             | 5.764 kg |
| Unit Type of Package 2       | S04      |
| Number of Units in Package 2 | 2        |
| Package 2 Height             | 30.0 cm  |
| Package 2 Width              | 40.0 cm  |

|                  |           |
|------------------|-----------|
| Package 2 Length | 60.0 cm   |
| Package 2 Weight | 12.135 kg |

### Offer Sustainability

|                             |   |
|-----------------------------|---|
| Sustainable offer status    | Green Premium product                         |
| REACH Regulation            | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive           | Compliant <a href="#">EU RoHS Declaration</a> |
| Mercury free                | Yes   |
| RoHS exemption information  | <a href="#">Yes</a>                           |
| China RoHS Regulation       | <a href="#">China RoHS Declaration</a>        |
| Environmental Disclosure    | <a href="#">Product Environmental Profile</a> |
| Circularity Profile         | <a href="#">End Of Life Information</a>       |
| PVC free                    | Yes   |
| Halogen content performance | Halogen free plastic parts product            |