



HNW631NR

### Moulded Case Circuit Breaker h3+ P630 Energy 4P4D N0-50-100% 630A 40kA FTC

#### Technical Features

##### Electric current

|               |       |
|---------------|-------|
| Rated current | 630 A |
|---------------|-------|

##### Architecture

|                           |                |
|---------------------------|----------------|
| Number of poles           | 4              |
| Control/operation element | Toggle         |
| Device construction type  | Fixed built-in |
| Neutral position          | Left           |

##### Electric current

|                                                                               |       |
|-------------------------------------------------------------------------------|-------|
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2 | 7 kA  |
| Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2   | 70 kA |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2   | 70 kA |
| Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2   | 70 kA |
| Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2   | 40 kA |
| Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2   | 40 kA |
| Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2   | 40 kA |
| Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2   | 7 kA  |
| Rated current 10°C according to IEC 60947                                     | 630 A |
| Rated current 15°C according to IEC 60947                                     | 630 A |
| Rated current 20°C according to IEC 60947                                     | 630 A |
| Rated current 25°C according to IEC 60947                                     | 630 A |
| Rated current 30°C according to IEC 60947                                     | 630 A |
| Rated current at 35°C according to IEC 60947                                  | 630 A |
| Rated current at 40°C according to IEC 60947                                  | 630 A |
| Rated current 45°C according to IEC 60947                                     | 630 A |
| Rated current 50°C according to IEC 60947                                     | 630 A |
| Rated current 55°C according to IEC 60947                                     | 630 A |
| Rated current at 60°C according to IEC 60947                                  | 623 A |
| Rated current 65°C according to IEC 60947                                     | 560 A |
| Rated current 70°C according to IEC 60947                                     | 497 A |

##### Frequency

|           |            |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

##### Voltage

|                                      |             |
|--------------------------------------|-------------|
| Rated impulse withstand voltage Uimp | 8000 V      |
| Rated insulation voltage Ui          | 800 V       |
| Rated operational voltage Ue         | 220 - 690 V |

##### Power

|                           |       |
|---------------------------|-------|
| Total power loss under IN | 119 W |
|---------------------------|-------|

##### Functions

|           |        |
|-----------|--------|
| Trip unit | ENERGY |
|-----------|--------|

##### Safety

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

##### Installation, mounting

|                               |            |
|-------------------------------|------------|
| Nominal tightening torque     | 18 - 18 Nm |
| Mounting-/Connection Position | Front      |

##### Cable

|                |                     |
|----------------|---------------------|
| Cable material | Copper<br>Aluminium |
|----------------|---------------------|

#### Compatibility

|                                 |     |
|---------------------------------|-----|
| Compatible with RDC AOB         | Yes |
| Suitable for DIN Rail           | No  |
| Suitable for distribution board | Yes |

#### Dimensions

|        |        |
|--------|--------|
| Height | 260 mm |
| Width  | 185 mm |
| Depth  | 150 mm |

#### Settings

|                                                           |                   |
|-----------------------------------------------------------|-------------------|
| Adjustment range short-term delayed short-circuit release | 341.25 - 6300.0 A |
|-----------------------------------------------------------|-------------------|

#### Electrical protection

|                                                         |        |
|---------------------------------------------------------|--------|
| Long-time overload protection (ltd): delay (tr)         | 0.5 s  |
|                                                         | 1.5 s  |
|                                                         | 2.5 s  |
|                                                         | 5 s    |
|                                                         | 7.5 s  |
|                                                         | 9 s    |
|                                                         | 10 s   |
|                                                         | 12 s   |
|                                                         | 14 s   |
|                                                         | 16 s   |
|                                                         |        |
| Short-time protection (std): current (Isd)              | 1.5    |
|                                                         | 2      |
|                                                         | 2.5    |
|                                                         | 3      |
|                                                         | 3.5    |
|                                                         | 4      |
|                                                         | 4.5    |
|                                                         | 5      |
|                                                         | 5.5    |
|                                                         | 6      |
|                                                         | 6.5    |
|                                                         | 7      |
|                                                         | 7.5    |
|                                                         | 8      |
|                                                         | 8.5    |
|                                                         | 9      |
| Short-time protection (std): delay (tsd)                | 9.5    |
|                                                         | 10     |
|                                                         | 50 ms  |
|                                                         | 100 ms |
|                                                         | 200 ms |
| Instantaneous protection (li): dial setting coefficient | 300 ms |
|                                                         | 400 ms |
|                                                         | 3      |
|                                                         | 3.5    |
|                                                         | 4      |
|                                                         | 4.5    |
|                                                         | 5      |
|                                                         | 5.5    |
|                                                         | 6      |
|                                                         | 6.5    |
|                                                         | 7      |
|                                                         | 7.5    |
|                                                         | 8      |
|                                                         | 8.5    |
|                                                         | 9      |
|                                                         | 9.5    |
|                                                         | 10     |
|                                                         | 10.5   |
|                                                         | 11     |

#### Sustainability

|              |     |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|