



HMW400NR

## Moulded Case Circuit Breaker h3+ P630 Energy 3P3D 400A 50kA FTC

### Technical properties

#### Architecture

|                           |                 |
|---------------------------|-----------------|
| Neutral position          | without neutral |
| Number of protected poles | 3               |
| Number of poles           | 3 P             |
| Type of case              | Fixed built-in  |

#### Functions

|  |        |
|--|--------|
| Complete device with protection unit   | Yes    |
| Version as main switch                 | Yes    |
| Version as emergency stop installation | No     |
| Version as safety switch               | No     |
| Version as maintenance-/service switch | Yes    |
| Trip Unit                              | ENERGY |
| Integrated earth fault protection      | No     |

#### Controls and indicators

|                        |    |
|------------------------|----|
| Motor drive integrated | No |
|------------------------|----|

#### Main electrical features

|                              |             |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Type of supply voltage       | AC          |
| Frequency                    | 50/60 Hz    |

#### Voltage

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 800 V |
| Rated impulse withstand voltage | 8 kV  |
| With under voltage release      | No    |

#### Electric current

|  |       |
|--|-------|
| Rated current  | 400 A |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 12 kA |
| Rating current 10°C according to IEC 60947                                   | 400 A |
| Rating current 15°C according to IEC 60947                                   | 400 A |
| Rating current 20°C according to IEC 60947                                   | 400 A |
| Rating current 25°C according to IEC 60947                                   | 400 A |
| Rating current 30°C according to IEC 60947                                   | 400 A |
| Rating current 35°C according to IEC 60947                                   | 400 A |
| Rating current 40°C according to IEC 60947                                   | 400 A |
| Rating current 45°C according to IEC 60947                                   | 400 A |

|  |             |
|--|-------------|
| Rating current 50°C according to IEC 60947                                   | 400 A       |
| Rating current 55°C according to IEC 60947                                   | 400 A       |
| Rating current 60°C according to IEC 60947                                   | 400 A       |
| Rating current 65°C according to IEC 60947                                   | 396 A       |
| Rating current 70°C according to IEC 60947                                   | 360 A       |
| Rated service breaking capacity Ics under 660V AC according IEC 60947-2      | 12 kA       |
| Breaking capacity on 1 pole for IT 230V NF 60947-2                           | 10 kA       |
| Breaking capacity on 1 pole for IT 400V NF 60947-2                           | 10 kA       |
| Breaking capacity on 1 pole for IT 415V NF 60947-2                           | 10 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 85 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 85 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 50 kA       |
| Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 | 12 kA       |
| <b>Dimensions</b>  |             |
| Depth of installed product   | 150 mm      |
| Height of installed product  | 260 mm      |
| Width of installed product   | 140 mm      |
| <b>Frequency</b>   |             |
| Frequency  | 50 to 60 Hz |
| <b>Power</b>   |             |
| Total power loss under IN  | 90 W        |
| Power loss per pole at In  | 30 W        |
| <b>Tripping</b>  |             |
| Time of response when opening  | 10 ms       |
| <b>Installation, mounting</b>  |             |
| DIN rail mounting with optional adaptor                                      | No          |
| Suitable for front mounting  | No          |
| Suitable for ground mounting   | Yes         |
| <b>Connection</b>  |             |
| Type of connection   | Terminal    |
| <b>Cable</b>   |             |
| Cable Material   | Cu          |

**Equipment**

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|   |     |
|---|-----|
| Number of auxiliary contacts as normally closed contact | 0   |
| Number of auxiliary contacts as normally open contact   | 0   |
| Number of auxiliary contacts as change-over contact     | 0   |
| Motor drive optional                                    | Yes |
| Can be accessorized                                     | Yes |

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**Use cases**

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|                 |   |
|-----------------|---|
| Category of use | B |
|-----------------|---|

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**Standards**

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|                         |             |
|-------------------------|-------------|
| Standard text           | IEC 60947-2 |
| European directive WEEE | concerned   |

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**Use conditions**

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|  |        |
|--|--------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3      |
| Altitude   | 2000 m |

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