# Product Datasheet
HMQ801NR


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**Moulded Case Circuit Breaker h3+ PW1600 Energy LSIG 4P4D 800A 50kA FTC**

## Technical Features

| | |
|---|---|
| **Electric current** | |
| Rated current IN | 800 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 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2 | 30 kA |
| Rated service breaking capacity Ics under 220 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 240 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 380 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 415 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 690 V AC according to IEC 60947-2 | 30 kA |
| Rated current at 10°C according to IEC 60947 | 800 A |
| Rated current at 15°C according to IEC 60947 | 800 A |
| Rated current at 20°C according to IEC 60947 | 800 A |
| Rated current at 25°C according to IEC 60947 | 800 A |
| Rated current at 30°C according to IEC 60947 | 800 A |
| Rated current at 35°C according to IEC 60947 | 800 A |
| Rated current at 40°C according to IEC 60947 | 800 A |
| Rated current at 45°C according to IEC 60947 | 800 A |
| Rated current at 50°C according to IEC 60947 | 800 A |
| Rated current at 55°C according to IEC 60947 | 800 A |
| Rated current at 60°C according to IEC 60947 | 800 A |
| Rated current at 65°C according to IEC 60947 | 800 A |
| Rated current at 70°C according to IEC 60947 | 800 A |
| **Frequency** | |
| Frequency | 50 - 60 Hz |
| **Voltage** | |
| Rated impulse withstand voltage Uimp | 8 kV |
| Rated insulation voltage Ui | 1000 V |
| Rated operational voltage Ue | 220 - 690 V |
| **Power** | |
| Power dissipation at IN | 23.6 W |
| **Functions** | |
| Trip unit | Sentinel Energy LSIG |
| **Endurance** | |
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |
| **Safety** | |
| Ingress Protection (IP) class | IP20 |
| **Installation, mounting** | |
| Nominal tightening torque | 50-50 Nm |
| Mounting-/Connection Position | Front |

| | |
|---|---|
| **Cover, door** | |
| Interlockable | Yes |
| **Cable** | |
| Cable material | Copper<br>Aluminium |
| **Compatibility** | |
| Compatible with RDC AOB | No |
| Suitable for DIN Rail | No |
| Suitable for distribution board | Yes |
| **Dimensions** | |
| Height | 330 mm |
| Width | 280 mm |
| Depth | 198 mm |
| **Connectivity** | |
| Type of connection | Bolt connection |
| **Electrical protection** | |
| Long-time overload protection (ltd): delay (tr) | 0.5 s<br>1 s<br>1.5 s<br>2 s<br>2.5 s<br>3 s<br>3.5 s<br>4 s<br>4.5 s<br>5 s<br>5.5 s<br>6 s<br>6.5 s<br>7 s<br>7.5 s<br>8 s<br>8.5 s<br>9 s<br>9.5 s<br>10 s<br>10.5 s<br>11 s<br>11.5 s<br>12 s<br>12.5 s<br>13 s<br>13.5 s<br>14 s<br>14.5 s<br>15 s<br>15.5 s<br>16 s<br>16.5 s<br>17 s<br>17.5 s<br>18 s<br>18.5 s<br>19 s<br>19.5 s<br>20 s<br>20.5 s<br>21 s<br>21.5 s<br>22 s<br>22.5 s<br>23 s<br>23.5 s<br>24 s<br>24.5 s<br>25 s |

## Electrical protection

| | |
|---|---|
| Short-time protection (std): delay (tsd) | 50 ms<br>100 ms<br>150 ms<br>200 ms<br>250 ms<br>300 ms<br>350 ms<br>400 ms<br>450 ms<br>500 ms<br>550 ms<br>600 ms |
| Instantaneous protection (Ii): dial setting coefficient | 1.5<br>2<br>2.5<br>3<br>3.5<br>4<br>4.5<br>5<br>5.5<br>6<br>6.5<br>7<br>7.5<br>8<br>8.5<br>9<br>9.5<br>10<br>10.5<br>11<br>11.5<br>12<br>12.5<br>13<br>13.5<br>14<br>14.5<br>15 |

## Sustainability

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