



HEQ971JR

**Moulded Case Circuit Breaker h3+ PW1600 LSI 4P4D 1000A 70kA FTC**

**Technical Features**

**Electric current**

|  |         |
|--|---------|
| Rated current  | 1000 A  |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230 V AC IEC 60947-2    | 70 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2    | 70 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2    | 70 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415 V AC IEC 60947-2    | 70 kA   |
| Breaking capacity on 1-pole for AC 230 V IEC 60947-2   | 19.2 kA |
| Breaking capacity on 1-pole for AC 400 V IEC 60947-2   | 19.2 kA |
| Rated short-time withstand current I <sub>cw</sub> t=1s at 800 V AC according to IEC 60947-2 | 19.2 kA |

**Architecture**

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

**Tripping**

|                            |       |
|----------------------------|-------|
| Response time when opening | 12 ms |
|----------------------------|-------|

**Electric current**

|   |        |
|---|--------|
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2 | 42 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 220 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 240 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 380 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 415 V AC according to IEC 60947-2   | 70 kA  |
| Rated service breaking capacity I <sub>cs</sub> under 690 V AC according to IEC 60947-2   | 42 kA  |
| Rated current 10°C according to IEC 60947   | 1000 A |
| Rated current 15°C according to IEC 60947   | 1000 A |
| Rated current 20°C according to IEC 60947   | 1000 A |
| Rated current 25°C according to IEC 60947   | 1000 A |
| Rated current 30°C according to IEC 60947   | 1000 A |
| Rated current at 35°C according to IEC 60947  | 1000 A |
| Rated current at 40°C according to IEC 60947  | 1000 A |
| Rated current 45°C according to IEC 60947   | 1000 A |
| Rated current 50°C according to IEC 60947   | 1000 A |
| Rated current 55°C according to IEC 60947   | 1000 A |
| Rated current at 60°C according to IEC 60947  | 1000 A |
| Rated current 70°C according to IEC 60947   | 1000 A |
| Rated current 65°C according to IEC 60947   | 1000 A |

**Frequency**

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

**Installation, mounting**

|                               |          |
|-------------------------------|----------|
| Nominal tightening torque     | 50-50 Nm |
| Mounting-/Connection Position | Front    |

**Voltage**

|  |             |
|--|-------------|
| Rated impulse withstand voltage U <sub>imp</sub> | 8 kV        |
| Rated insulation voltage U <sub>i</sub>          | 1000 V      |
| Rated operational voltage U <sub>e</sub>         | 220 - 690 V |

**Functions**

|           |              |
|-----------|--------------|
| Trip unit | Sentinel LSI |
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**Power**

|                           |        |
|---------------------------|--------|
| Total power loss under IN | 47.2 W |
| Power loss per pole at In | 4.6 W  |

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**Endurance**

|  |       |
|--|-------|
| Electric endurance in number of cycles | 4000  |
| Number of mechanical operations        | 20000 |

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**Equipment**

|   |   |
|---|---|
| Number of auxiliary contacts as change-over contact     | 0 |
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact   | 0 |

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**Safety**

|                               |      |
|-------------------------------|------|
| Ingress Protection (IP) class | IP20 |
|-------------------------------|------|

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**Use conditions**

|                       |             |
|-----------------------|-------------|
| Operating temperature | -25 - 70 °C |
|-----------------------|-------------|

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**Cover, door**

|               |     |
|---------------|-----|
| Interlockable | Yes |
|---------------|-----|

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**Connection**

|                     |          |
|---------------------|----------|
| Connector/plug type | Terminal |
|---------------------|----------|

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**Cable**

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

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**Use conditions**

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

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**Dimensions**

|        |        |
|--------|--------|
| Height | 330 mm |
| Width  | 280 mm |
| Depth  | 198 mm |

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**Controls and indicators**

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

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**Compatibility**

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

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**Power supply**

|                       |               |
|-----------------------|---------------|
| Position power supply | Bidirectional |
|-----------------------|---------------|

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**Connectivity**

|                    |                 |
|--------------------|-----------------|
| Type of connection | Bolt connection |
|--------------------|-----------------|

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**Electrical protection**

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|   |       |
|---|-------|
| Long-time overload protection (ltd): delay (tr) | 0.5 s |
|   | 1 s   |
|   | 2 s   |
|   | 4 s   |
|   | 5 s   |
|   | 8 s   |
|   | 10 s  |
|   | 15 s  |
|   | 20 s  |
|   | 25 s  |

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|  |        |
|--|--------|
| Short-time protection (std): delay (tsd) | 50 ms  |
|  | 100 ms |
|  | 200 ms |
|  | 400 ms |
|  | 600 ms |

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|   |     |
|---|-----|
| Instantaneous protection (li): dial setting coefficient | 1.5 |
|   | 2   |
|   | 3   |
|   | 4   |
|   | 6   |
|   | 8   |
|   | 10  |
|   | 12  |
|   | 15  |

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**Sustainability**

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