



HEQ970JR

Moulded Case Circuit Breaker h3+ PW1600 LSI 3P3D 1000A 70kA FTC

Technical Features

Electric current

| | |
|--|---------|
| Rated current | 1000 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} 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 _{cw} t=1s at 800 V AC according to IEC 60947-2 | 19.2 kA |

Architecture

| | |
|---------------------------|-----------------|
| Number of poles | 3 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |
| Neutral position | Without neutral |

Tripping

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

Electric current

| | |
|---|--------|
| Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2 | 30 kA |
| Rated service breaking capacity I _{cs} under 220 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 240 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2 | 70 kA |
| Rated service breaking capacity I _{cs} under 690 V AC according to IEC 60947-2 | 30 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 _{imp} | 8 kV |
| Rated insulation voltage U _i | 1000 V |
| Rated operational voltage U _e | 220 - 690 V |

Functions

| | |
|-----------|--------------|
| Trip unit | Sentinel LSI |
|-----------|--------------|

Power

| | |
|---------------------------------------|--------|
| Total power loss under I _N | 47.2 W |
|---------------------------------------|--------|

| | |
|--|--|
| Power | |
| Power loss per pole at In | 4.6 W |
| Endurance | |
| Electric endurance in number of cycles | 4000 |
| Number of mechanical operations | 20000 |
| 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 |
| Safety | |
| Ingress Protection (IP) class | IP20 |
| Use conditions | |
| Operating temperature | -25 - 70 °C |
| Cover, door | |
| Interlockable | Yes |
| Connection | |
| Connector/plug type | Terminal |
| Cable | |
| Cable material | Copper Aluminium |
| Use conditions | |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Dimensions | |
| Height | 330 mm |
| Width | 210 mm |
| Depth | 198 mm |
| Controls and indicators | |
| Motor drive integrated | No |
| Compatibility | |
| Suitable for DIN Rail | No |
| Compatible with RDC AOB | No |
| Suitable for distribution board | Yes |
| Power supply | |
| Position power supply | Bidirectional |
| Connectivity | |
| Type of connection | Bolt connection |
| Electrical protection | |
| 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 |
| Short-time protection (std): delay (tsd) | 50 ms 100 ms 200 ms 400 ms 600 ms |

Electrical protection

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

Sustainability

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