



HMQ970LR

Moulded Case Circuit Breaker h3+ PW1600 LSI3 3P3D 1000A 50kA FTC

Technical Features

Electric current

| | |
|---|---------|
| Rated current | 1000 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 415 V AC IEC 60947-2 | 50 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 |

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 | 50 kA |
| Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity I _{cs} under 240 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2 | 50 kA |
| Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2 | 50 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 LSI3 |
|-----------|---------------|

Power

| | |
|---------------------------------------|--------|
| Total power loss under I _N | 47.2 W |
| Power loss per pole at I _N | 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 |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |

Cover, door

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

Connection

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

Cable

| | |
|----------------|---------------------|
| Cable material | Copper Aluminium |
|----------------|---------------------|

Dimensions

| | |
|--------|--------|
| Height | 330 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 |
|-----------------------|---------------|

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

Sustainability

RoHS conform

Yes