



HEF990H

Moulded Case Circuit Breaker h1600 3P 70kA 1600A LSI

Technical Features

Electric current

| | |
|---|--------|
| Rated current | 1600 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 230 V AC IEC 60947-2 | 100 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 100 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 | 60 kA |
| Breaking capacity on 1-pole for AC 400 V IEC 60947-2 | 9 kA |

Architecture

| | |
|---------------------------|----------------|
| Number of poles | 3 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |

Capacity

| | |
|-------------------|----|
| Number of modules | 12 |
|-------------------|----|

Tripping

| | |
|----------------------------|-------|
| Response time when opening | 10 ms |
|----------------------------|-------|

Settings

| | |
|---|--|
| Magnetic protection knob setting xI _N | 2.5 5 10 |
| Range of magnetic adjustment | 8960 A 11200 A 14000 A 17920 A 19200 A 19200 A 19200 A |
| Thermal protection knob setting xI _N | 0.4 0.5 0.63 0.8 0.9 0.95 1 |
| Adjustment range short-term delayed short-circuit release | 0 - 0 A |

Frequency

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

Installation, mounting

| | |
|-------------------------------|------------|
| Nominal tightening torque | 65 - 65 Nm |
| Mounting-/Connection Position | Front |

Voltage

| | |
|--|-------------|
| Rated impulse withstand voltage U _{imp} | 8000 V |
| Rated insulation voltage U _i | 800 V |
| Rated operational voltage U _e | 220 - 690 V |

Functions

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

Main electrical attributes

| | |
|-------------------------------|--------------|
| Magnetic protection trip time | 100 - 200 ms |
|-------------------------------|--------------|

Power

| | |
|---------------------------------------|----------|
| Total power loss under I _N | 168.90 W |
| Power loss per pole at I _n | 56.30 W |

Endurance

| | |
|--|------|
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations | 4000 |

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 | IP4X |
|-------------------------------|------|

Use conditions

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

Connection

| | |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 3x 240 mm ² |
| Cross-section rigid conductor | 3x 240 mm ² |
| Connector/plug type | Terminal |

Controls and indicators

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

Compatibility

| | |
|-----------------------|----|
| Suitable for DIN Rail | No |
|-----------------------|----|

Power supply

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

Sustainability

| | |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform | Yes |