



HNE970H

MCCB h1000 3P 50kA 1000A LSI

Architecture

| | |
|-----------------|----------------|
| Type of order | Toggle |
| Type of case | Fixed built-in |
| Number of poles | 3 P |
| Type of pole | 3P3D |

Functions

| | |
|--------------------------------------|-----|
| Complete device with protection unit | yes |
| Trip Unit | LSI |
| Integrated earth fault protection | no |

Controls and indicators

| | |
|------------------------|----|
| Motor drive integrated | no |
|------------------------|----|

Main electrical features

| | |
|------------------------------|-----------|
| Frequency | 50/60 Hz |
| Rated operational voltage Ue | 220/690 V |

Voltage

| | |
|---------------------------------|--------|
| Rated insulation voltage | 800 V |
| Rated impulse withstand voltage | 8000 V |
| With under voltage release | no |

Electric current

| | |
|--|-------|
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics AC according IEC 60947-2 | 100 % |
| Breaking capacity on 1 pole with 230 V NF 60947-2 | 45 kA |
| Breaking capacity on 1 pole with 400 V NF 60947-2 | 9 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 75 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 kA |

Technical Properties

| | |
|--|-----------------------------|
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 45 kA |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 20 kA |
| Thermal protection nob setting xIN | 0,4/0,5/0,63/0,8/0,9/0,95/1 |

Current correction factors

Correction factor of rating current for 2 devices placed 1 side-by-side

Correction factor of rating current for 3 devices placed 1 side-by-side

Correction factor of rating current for 4 and 5 devices 1 placed side-by-side

Correction factor of rating current for 6 devices placed 1 side-by-side

Power

| | |
|--------------------------------|--------|
| Power loss per pole at In | 62 W |
| Power loss per pole at 0.63*In | 24,6 W |
| Power loss per pole at 0.8*In | 39,7 W |
| Total power loss under IN | 186 W |
| Total power loss at 0.63*In | 73,8 W |
| Total power loss at 0.8*In | 119 W |

Tripping

| | |
|-------------------------------|------------------|
| Trip mode | LSI |
| Thermal protection trip time | 5/10/11/16/21 ms |
| time of response when opening | 10 ms |

Electrical specifications

| | |
|--------------------------|---------------|
| Magnetic trip delay time | 100 to 200 ms |
|--------------------------|---------------|

Endurance

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

Installation, mounting

| | |
|---|------|
| Tightening torque | 65Nm |
| DIN rail mounting with optional adaptor | no |

Connection

| | |
|---------------------------------------|----------------------|
| Connection cross-sect. rigid cable | 2x240mm ² |
| Connection cross-sect. flexible cable | 2x240mm ² |
| Connection | Front connection |
| type of connection | Terminal |

Settings

| | |
|-------------------------------------|--|
| Magnetic protection nob setting xIN | 2,5/5/8 |
| Range of the magnetic adjustment | 5600/7000/8820/10000/10000/10000/10000 A |

Equipment

| | |
|----------------------|-----|
| Motor drive optional | yes |
|----------------------|-----|

Use cases

| | |
|-----------------|---|
| Category of use | A |
|-----------------|---|

Standards

| | |
|-------------------------|----------------------|
| Standard text | IEC 60947-2 |
| European directive RoHS | voluntary compliance |
| European directive WEEE | concerned |

Safety

| | |
|---------------------|------|
| Protection index IP | IP4X |
|---------------------|------|

Use conditions

| | |
|-------------------------|------------------|
| Altitude | 2000 m |
| Storage temperature | -35 to 70 °C |
| Air humidity protection | for all climates |