



HEF981H

Moulded Case Circuit Breaker h1600 4P 70kA 1250A LSI

Technical properties

Architecture

| | |
|-----------------|------------------|
| Type of order | Toggle |
| Number of poles | 4 P |
| Type of pole | 4P4D N:0/50/100% |

Functions

| | |
|--------------------------------------|-----|
| Complete device with protection unit | Yes |
| Trip Unit | LSI |
| Integrated earth fault protection | No |

Configuration

| | |
|-------------------|----|
| Number of modules | 16 |
|-------------------|----|

Main electrical features

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

Voltage

| | |
|---------------------------------|-------|
| Rated insulation voltage | 800 V |
| Rated impulse withstand voltage | 8 kV |
| With under voltage release | No |

Electric current

| | |
|--|---|
| Rated current | 1250 A |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 45 kA |
| Thermal protection nob setting xIN | 0.4 / 0.5 / 0.63 / 0.8 / 0.9 / 0.95 / 1 |
| Thermal setting current on neutral pole | 0 / 0.5 / 1 In |
| Breaking capacity on 1 pole for IT 230V NF 60947-2 | 60 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 9 kA |
| Rated service breaking capacity Ics AC according IEC 60947-2 | 71 % |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 100 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 100 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 70 kA |

Current correction factors

| | |
|---|---|
| Correction factor of rating current for 2 devices placed side-by-side | 1 |
| Correction factor of rating current for 3 devices placed side-by-side | 1 |
| Correction factor of rating current for 4 and 5 devices placed side-by-side | 1 |
| Correction factor of rating current for 6 devices placed side-by-side | 1 |

Power

| | |
|---------------------------|---------|
| Total power loss under IN | 187.5 W |
| Power loss per pole at In | 62.5 W |

Tripping

| | |
|-------------------------------|-------------------------------|
| Trip mode | LSI |
| Thermal protection trip time | 5 / 10 / 11 / 19 / 21 / 29 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

| | |
|---|----|
| DIN rail mounting with optional adaptor | No |
|---|----|

Connection

| | |
|---|----------------------|
| Connection cross-sect. flexible conductor | 3x240mm ² |
| Connection cross-sect. rigid cable | 3x240mm ² |
| Connection | Front connection |
| Type of connection | Terminal |

Settings

| | |
|-------------------------------------|---|
| Range of the magnetic adjustment | 7000 / 8750 / 11200 / 14000 / 15000 / 15000 / 15000 A |
| Magnetic protection nob setting xIN | 2.5 / 5 / 10 |
| Setting type In or Ith | IrTh |

Equipment

| | |
|---|-----|
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact | 0 |
| Number of auxiliary contacts as change-over contact | 0 |
| Motor drive optional | Yes |

Use cases

Standards

| | |
|---------------|-------------|
| Standard text | IEC 60947-2 |
|---------------|-------------|

Use conditions

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

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|----------|--------|
| Altitude | 2000 m |
|----------|--------|

| | |
|-------------------------|------------------|
| Air humidity protection | for all climates |
|-------------------------|------------------|

| | |
|-------------------------------|-------------|
| Storage/transport temperature | -35...70 °C |
|-------------------------------|-------------|