



HNF981H

Moulded Case Circuit Breaker h1600 4P 50kA 1250A LSI

Technical properties

| 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 | 100 % |
| 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 | 50 kA |
| Rated ultimate short-circuit breaking | 50 kA |

| Rated ultimate short-circuit breaking capacity Icu under 440V 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 | |
| Tripmode | 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 Installation, mounting DIN rail mounting with optional adaptator | 4000 No |
| Connection | |
| Connection cross-sect. flexible conductor | 3x240mm² |
| Connection cross-sect. rigid cable | 3x240mm² |
| Connection | Front connection |
| Settings | |
| Range of the magnetic adjustment | / 15000 / 8750 / 11200 / 14000 / 15000 / 15000 A 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 | |
| Category of use | Ą |

Standards

| Standard text | IEC 60947-2 |
|-------------------------------|------------------|
| European directive WEEE | concerned |
| Use conditions | |
| Operating temperature | -2570 °C |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -3570 °C |