



HNB161U

Moulded Case Circuit Breaker X250 4P 40kA 160A TM

Technical properties

Architecture

| | |
|-----------------|-----|
| Number of poles | 4 P |
|-----------------|-----|

Functions

| | |
|--------------------------------------|--------|
| Complete device with protection unit | Yes |
| Trip Unit | TM A/A |
| Integrated earth fault protection | No |

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 415 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 | 160 A |
| Thermal protection nob setting xIN | 0.63 / 0.8 / 1 |
| Breaking capacity on 1 pole for IT 400V 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 400V AC IEC 60947-2 | 40 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 40 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 | 32.6 W |
| Power loss per pole at IN | 10.9 W |

Tripping

| | |
|---|----------------------------|
| Tripmode | TM |
| Time of response when opening | 10 ms |
| Endurance | |
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations | 4000 |
| Installation, mounting | |
| DIN rail mounting with optional adaptor | Yes |
| Connection | |
| Connection cross-sect. flexible conductor | 35 / 150mm ² |
| Type of connection | Terminal |
| Settings | |
| Range of the magnetic adjustment | 960 / 1280 / 1600 / 2080 A |
| 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 | A |
| Standards | |
| Standard text | IEC 60947-2 |
| Safety | |
| REACH conform | Yes |
| RoHS conform | Yes |
| Use conditions | |
| Operating temperature | -25...70 °C |
| Altitude | 2000 m |
| Storage/transport temperature | -35...70 °C |