



HHA080Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 80A 25kA CTC

Technical characteristics

Architecture

| | |
|---------------------------|-----------------|
| Type of order | Toggle |
| Neutral position | without neutral |
| Number of protected poles | 3 |
| Number of poles | 3 P |
| Type of pole | 3P3D |
| Type of case | FIX |

Functions

| | |
|--------------------------------------|--------|
| Complete device with protection unit | Yes |
| Trip Unit | TM F/F |
| Integrated earth fault protection | No |
| Concurrently switching N-neutral | No |

Controls and indicators

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

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 415 V |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|-------|
| Rated insulation voltage | 690 V |
| Rated impulse withstand voltage | 8 kV |
| With under voltage release | No |

Electric current

| | |
|--|---------|
| Rated current | 80 A |
| Thermal protection nob setting xIN | 1 |
| Rating current 10°C according to IEC 60947 | 101.9 A |
| Rating current 15°C according to IEC 60947 | 99.4 A |
| Rating current 20°C according to IEC 60947 | 96.9 A |
| Rating current 25°C according to IEC 60947 | 94.3 A |
| Rating current 30°C according to IEC 60947 | 91.6 A |
| Rating current 35°C according to IEC 60947 | 88.8 A |
| Rating current 40°C according to IEC 60947 | 86 A |
| Rating current 45°C according to IEC 60947 | 83 A |
| Rating current 50°C according to IEC 60947 | 80 A |
| Rating current 55°C according to IEC 60947 | 76.8 A |

| | |
|--|------------------|
| Rating current 60°C according to IEC 60947 | 73.4 A |
| Rating current 65°C according to IEC 60947 | 70 A |
| Rating current 70°C according to IEC 60947 | 66.3 A |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 35 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 35 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 25 kA |
| Range of the thermal adjustment | 80 A |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 25 kA |
| Dimensions | |
| Depth of installed product | 68 mm |
| Height of installed product | 130 mm |
| Width of installed product | 75 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Total power loss under IN | 18.9 W |
| Power loss per pole at In | 6.3 W |
| Endurance | |
| Electric endurance in number of cycles | 1000 |
| Number of mechanical operations | 4000 |
| Installation, mounting | |
| DIN rail mounting with optional adaptor | Yes |
| Connection | |
| Connection | Front connection |
| Type of connection | with screw |
| Settings | |
| Range of the magnetic adjustment | 1000 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 |
| Can be accessorized | Yes |
| Standards | |
| Standard text | IEC 60947-2 |

Safety

| | |
|---------------------|------|
| Protection index IP | IP4X |
| REACH conform | Yes |
| RoHS conform | Yes |
| Halogen free | No |

Use conditions

| | |
|---|--------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Altitude | 2000 m |

temperatur

| | |
|----------------------------|-------|
| Temperature of calibration | 50 °C |
|----------------------------|-------|