



HHA080U

Moulded Case Circuit Breaker X160 3P 25kA 80A

Technical properties

Architecture

| | |
|-----------------|-----|
| Number of poles | 3 P |
|-----------------|-----|

Functions

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

Configuration

| | |
|-------------------|-----|
| Number of modules | 4.5 |
|-------------------|-----|

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 |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 4 kA |
| Thermal protection nob setting xIN | 0.63 / 0.8 / 1 |
| Breaking capacity on 1 pole for IT 230V NF 60947-2 | 21 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 9 kA |
| Rated service breaking capacity Ics AC according IEC 60947-2 | 80 % |
| 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 |
| Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2 | 20 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 I _N | 32.1 W |
| Power loss per pole at I _N | 10.7 W |
| Tripping | |
| Trip mode | TM |
| Thermal protection trip time | 0 ms |
| Time of response when opening | 10 ms |
| Electrical specifications | |
| Magnetic trip delay time | 0 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. rigid cable | 4 / 95mm ² |
| Type of connection | with screw |
| Settings | |
| Range of the magnetic adjustment | 1000 A |
| Setting type I _N or I _{th} | IN |
| 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 | No |
| Standards | |
| European directive WEEE | concerned |
| Use conditions | |
| Operating temperature | -25...70 °C |
| Altitude | 2000 m |
| Air humidity protection | for all climates |
| Storage/transport temperature | -35...70 °C |