



HDA160Z

Moulded Case Circuit Breaker X160 3P 18kA 160A

Technical Features

Electric current

| | |
|---|----------|
| Rated current | 160 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 18 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 25 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2 | 4 kA |
| Rated current 10°C according to IEC 60947 | 187.20 A |
| Rated current 15°C according to IEC 60947 | 184 A |
| Rated current 20°C according to IEC 60947 | 180.70 A |
| Rated current 25°C according to IEC 60947 | 177.40 A |
| Rated current 30°C according to IEC 60947 | 174.10 A |
| Rated current at 35°C according to IEC 60947 | 170.70 A |
| Rated current at 40°C according to IEC 60947 | 167.20 A |
| Rated current 45°C according to IEC 60947 | 163.60 A |
| Rated current 50°C according to IEC 60947 | 160 A |
| Rated current 55°C according to IEC 60947 | 156.20 A |
| Rated current at 60°C according to IEC 60947 | 152.40 A |
| Rated current 65°C according to IEC 60947 | 148.50 A |
| Rated current 70°C according to IEC 60947 | 144.40 A |

Architecture

| | |
|---------------------------|----------------|
| Number of poles | 3 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |

Tripping

| | |
|----------------------------|-------|
| Response time when opening | 10 ms |
|----------------------------|-------|

Frequency

| | |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

Voltage

| | |
|--|--------|
| Rated impulse withstand voltage U _{imp} | 8000 V |
| Rated insulation voltage U _i | 690 V |

Functions

| | |
|-----------|--------|
| Trip unit | TM F/F |
|-----------|--------|

Power

| | |
|---------------------------------------|---------|
| Total power loss under I _N | 43.80 W |
|---------------------------------------|---------|

Endurance

| | |
|--|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations | 20000 |

Safety

| | |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

Connection

| | |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 4 - 70 mm ² |
| Cross-section rigid conductor | 4 - 95 mm ² |

Installation, mounting

| | |
|-------------------------------|----------|
| Nominal tightening torque | 6 - 6 Nm |
| Mounting-/Connection Position | Front |

Connectivity

| | |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

Settings

| | |
|---|---------|
| Thermal protection knob setting xIN | 1 |
| | 1 |
| Adjustment range short-term delayed short-circuit release | 0 - 0 A |

Compatibility

| | |
|-----------------------|----|
| Suitable for DIN Rail | No |
|-----------------------|----|

Main electrical attributes

| | |
|-------------------------------|----------|
| Magnetic protection trip time | 0 - 0 ms |
|-------------------------------|----------|