



HDA050Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 50A 18kA CTC

Technical Features

Electric current

| | |
|---|---------|
| Rated current | 50 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 service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2 | 25 kA |
| Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2 | 18 kA |
| Rated current 10°C according to IEC 60947 | 60.40 A |
| Rated current 15°C according to IEC 60947 | 59.20 A |
| Rated current 20°C according to IEC 60947 | 58 A |
| Rated current 25°C according to IEC 60947 | 56.70 A |
| Rated current 30°C according to IEC 60947 | 55.40 A |
| Rated current at 35°C according to IEC 60947 | 54.10 A |
| Rated current at 40°C according to IEC 60947 | 52.80 A |
| Rated current 45°C according to IEC 60947 | 51.40 A |
| Rated current 50°C according to IEC 60947 | 50 A |
| Rated current 55°C according to IEC 60947 | 48.50 A |
| Rated current at 60°C according to IEC 60947 | 47 A |
| Rated current 65°C according to IEC 60947 | 45.40 A |
| Rated current 70°C according to IEC 60947 | 43.80 A |

Architecture

| | |
|---------------------------|-----------------|
| Number of poles | 3 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |
| Neutral position | Without neutral |

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 | 17.30 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

| | |
|-------------------------------|-------|
| Mounting-/Connection Position | Front |
|-------------------------------|-------|

Connectivity

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

Settings

| | |
|-------------------------------------|---|
| Thermal protection knob setting xIN | 1 |
| | 1 |

Dimensions

| | |
|--------|--------|
| Height | 130 mm |
| Width | 75 mm |
| Depth | 68 mm |

Compatibility

| | |
|-----------------------|-----|
| Suitable for DIN Rail | Yes |
|-----------------------|-----|

Main electrical attributes

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

Sustainability

| | |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform | Yes |