



HHA050Z

### Moulded Case Circuit Breaker X160 3P 25kA 50A

#### Technical Features

##### Electric current

|                                                                               |         |
|-------------------------------------------------------------------------------|---------|
| Rated current                                                                 | 50 A    |
| Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2 | 25 kA   |
| Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2 | 35 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 |

##### Tripping

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

##### Frequency

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

##### Voltage

|                                      |        |
|--------------------------------------|--------|
| Rated impulse withstand voltage Uimp | 8000 V |
| Rated insulation voltage Ui          | 690 V  |

##### Functions

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

##### Power

|                           |         |
|---------------------------|---------|
| Total power loss under IN | 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 <sup>2</sup> |
| Cross-section rigid conductor    | 4 - 95 mm <sup>2</sup> |

##### 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 |
|-------------------------------|----------|