



HHA040Z

### Moulded Case Circuit Breaker X160 3P 25kA 40A

#### Technical Features

##### Electric current

|   |         |
|---|---------|
| Rated current   | 40 A    |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2 | 25 kA   |
| Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2 | 35 kA   |
| Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2   | 25 kA   |
| Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2   | 20 kA   |
| Rated current 10°C according to IEC 60947   | 49.50 A |
| Rated current 15°C according to IEC 60947   | 48.40 A |
| Rated current 20°C according to IEC 60947   | 47.30 A |
| Rated current 25°C according to IEC 60947   | 46.10 A |
| Rated current 30°C according to IEC 60947   | 45 A    |
| Rated current at 35°C according to IEC 60947  | 43.80 A |
| Rated current at 40°C according to IEC 60947  | 42.50 A |
| Rated current 45°C according to IEC 60947   | 41.30 A |
| Rated current 50°C according to IEC 60947   | 40 A    |
| Rated current 55°C according to IEC 60947   | 38.60 A |
| Rated current at 60°C according to IEC 60947  | 37.20 A |
| Rated current 65°C according to IEC 60947   | 35.70 A |
| Rated current 70°C according to IEC 60947   | 34.20 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 <sub>imp</sub> | 8000 V |
| Rated insulation voltage U <sub>i</sub>          | 690 V  |

##### Functions

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

##### Power

|                                       |      |
|---------------------------------------|------|
| Total power loss under I <sub>N</sub> | 11 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 |

**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 |
|-------------------------------|----------|