



HHA080Z

### Moulded Case Circuit Breaker X160 3P 25kA 80A

#### Technical Features

##### Electric current

Rated current	80 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	101.90 A
Rated current 15°C according to IEC 60947	99.40 A
Rated current 20°C according to IEC 60947	96.90 A
Rated current 25°C according to IEC 60947	94.30 A
Rated current 30°C according to IEC 60947	91.60 A
Rated current at 35°C according to IEC 60947	88.80 A
Rated current at 40°C according to IEC 60947	86 A
Rated current 45°C according to IEC 60947	83 A
Rated current 50°C according to IEC 60947	80 A
Rated current 55°C according to IEC 60947	76.80 A
Rated current at 60°C according to IEC 60947	73.40 A
Rated current 65°C according to IEC 60947	70 A
Rated current 70°C according to IEC 60947	66.30 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
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##### Frequency

Frequency	50 - 60 Hz
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##### 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
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##### Power

Total power loss under I <sub>N</sub>	18.90 W
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##### Endurance

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

##### Safety

Ingress Protection (IP) class	IP4X
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##### 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
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**Settings**

Thermal protection knob setting xIN	1
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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
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**Main electrical attributes**

Magnetic protection trip time	0 - 0 ms
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