



HDA048Z

**Moulded Case Circuit Breaker h3 x160 TM FIX 1P1D 50A 18kA CTC**

**Technical Features**

**Electric current**

Rated current	50 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	18 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	18 kA
Rated current 10°C according to IEC 60947	61 A
Rated current 15°C according to IEC 60947	59.80 A
Rated current 20°C according to IEC 60947	58.50 A
Rated current 25°C according to IEC 60947	57.10 A
Rated current 30°C according to IEC 60947	55.80 A
Rated current at 35°C according to IEC 60947	54.40 A
Rated current at 40°C according to IEC 60947	52.90 A
Rated current 45°C according to IEC 60947	51.50 A
Rated current 50°C according to IEC 60947	50 A
Rated current 55°C according to IEC 60947	48.40 A
Rated current at 60°C according to IEC 60947	46.80 A
Rated current 65°C according to IEC 60947	45.10 A
Rated current 70°C according to IEC 60947	43.40 A

**Architecture**

Number of poles	1
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
Rated operational voltage U <sub>e</sub>	220 - 240 V

**Functions**

Trip unit	TM F/F
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**Power**

Total power loss under I <sub>N</sub>	5 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**

Mounting-/Connection Position	Front
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**Connectivity**

Type of connection	Screw terminal
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**Settings**

Thermal protection knob setting xIN	1
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**Dimensions**

Height	130 mm
Width	25 mm
Depth	68 mm

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**Compatibility**

Suitable for DIN Rail	Yes
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**Main electrical attributes**

Magnetic protection trip time	0 - 0 ms
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**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes