



HDA048Z

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

**Technical characteristics**

**Electric current**

Rated current	50 A
Rated ultimate short-circuit breaking capacity $I_{cu}$ under 240 V AC IEC 60947-2	18 kA
Rated service breaking capacity $I_{cs}$ 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 $U_{imp}$	8,000 V
Rated insulation voltage $U_i$	690 V

**Functions**

Trip unit	TM F/F
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<b>Power</b>	
Total power loss under IN	5 W
<b>Endurance</b>	
Electric endurance in number of cycles	1,000
Number of mechanical operations	4,000
<b>Safety</b>	
Ingress Protection (IP) class	IP4X
<b>Connection</b>	
Cross-section flexible conductor	4 - 70 mm <sup>2</sup>
Cross-section rigid conductor	4 - 95 mm <sup>2</sup>
<b>Installation, mounting</b>	
Mounting-/Connection Position	Front
<b>Connectivity</b>	
Type of connection	Screw terminal
<b>Settings</b>	
Thermal protection knob setting xIN	1, 1
<b>Dimensions</b>	
Height	130 mm
Width	25 mm
Depth	68 mm
<b>Compatibility</b>	
Suitable for DIN Rail	Yes
<b>Main electrical attributes</b>	
Magnetic protection trip time	0 - 0 ms