



HDA080Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 80A 18kA CTC

Technical Features

Electric current

Rated current I _N	80 A
Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	18 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	25 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	25 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	18 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 _{imp}	8000 V
Rated insulation voltage U _i	690 V
Rated operational voltage U _e	220 - 415 V

Functions

Trip unit	TM F/F
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Power

Power dissipation at I _N	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 ²
Cross-section rigid conductor	4 - 95 mm ²

Installation, mounting

Mounting-/Connection Position	Front
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Connectivity

Type of connection	Screw terminal
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Cover, door

Interlockable	Yes
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Settings

Thermal protection knob setting xIN	1
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Cable

Cable material	Copper
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Dimensions

Height	130 mm
Width	75 mm
Depth	68 mm
Downstream busbar: width, height, diameter screw (max.)	130 mm
	75 mm

Compatibility

Compatible with RDC AOB	Yes
Suitable for DIN Rail	Yes
Suitable for distribution board	Yes

Installation, mounting

Nominal tightening torque down terminal	5 - 5 Nm
Nominal tightening torque top terminal	5 - 5 Nm

Main electrical attributes

Magnetic protection trip time	0 - 0 ms
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Sustainability

REACH-SVHC free	Yes
RoHS conform	Yes