



HNA050Z

Moulded Case Circuit Breaker h3 x160 TM FIX 3P3D 50A 40kA CTC

Technical Features

Electric current

Rated current	50 A
Rated ultimate short-circuit breaking capacity Icu under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 240 V AC IEC 60947-2	85 kA
Rated service breaking capacity Ics under 230 V AC according to IEC 60947-2	40 kA
Rated service breaking capacity Ics under 400 V AC according to IEC 60947-2	20 kA
Rated current 10°C according to IEC 60947	60,40 A
Rated current 15°C according to IEC 60947	59,20 A
Rated current 20°C according to IEC 60947	58 A
Rated current 25°C according to IEC 60947	56,70 A
Rated current 30°C according to IEC 60947	55,40 A
Rated current at 35°C according to IEC 60947	54,10 A
Rated current at 40°C according to IEC 60947	52,80 A
Rated current 45°C according to IEC 60947	51,40 A
Rated current 50°C according to IEC 60947	50 A
Rated current 55°C according to IEC 60947	48,50 A
Rated current at 60°C according to IEC 60947	47 A
Rated current 65°C according to IEC 60947	45,40 A
Rated current 70°C according to IEC 60947	43,80 A

Architecture

Number of poles	3
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 Uimp	8000 V
Rated insulation voltage Ui	690 V

Functions

Trip unit	TM F/F
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Power

Total power loss under IN	17,30 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

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		75 mm
Depth		68 mm
Compatibility		
Suitable for DIN Rail		No
Main electrical attributes		
Magnetic protection trip time		0 - 0 ms
Sustainability		
REACH-SVHC free		Yes
RoHS conform		Yes