



HNA050Z

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

Technical characteristics

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
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

Tripping

Response time when opening	10 ms
----------------------------	-------

Frequency

Frequency	50 - 60 Hz
-----------	------------

Voltage

Rated impulse withstand voltage Uimp	8,000 V
Rated insulation voltage Ui	690 V

Functions	
Trip unit	TM F/F
Power	
Total power loss under IN	17.30 W
Endurance	
Electric endurance in number of cycles	1,000
Number of mechanical operations	4,000
Safety	
Ingress Protection (IP) class	IP4X
Connection	
Cross-section flexible conductor	4 - 70 mm ²
Cross-section rigid conductor	4 - 95 mm ²
Connectivity	
Type of connection	Screw terminal
Settings	
Thermal protection knob setting xIN	1, 1
Dimensions	
Height	130 mm
Width	75 mm
Depth	68 mm
Compatibility	
Suitable for DIN Rail	Yes
Installation, mounting	
Mounting-/Connection Position	Front
Main electrical attributes	
Magnetic protection trip time	0 - 0 ms