Product Datasheet
HNB100U



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Moulded Case Circuit Breaker X250 3P 40kA 100A TM

Technical Features

Electric current

Rated current	100 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 ultimate short-circuit breaking capacity Icu under 690 V AC IEC 60947-2	4 kA
Rated current 10°C according to IEC 60947	115.30 A
Rated current 15°C according to IEC 60947	113.50 A
Rated current 20°C according to IEC 60947	111.70 A
Rated current 25°C according to IEC 60947	109.80 A
Rated current 30°C according to IEC 60947	107.90 A
Rated current at 35°C according to IEC 60947	106 A
Rated current at 40°C according to IEC 60947	104 A
Rated current 45°C according to IEC 60947	102 A
Rated current 50°C according to IEC 60947	100 A
Rated current 55°C according to IEC 60947	97.90 A
Rated current at 60°C according to IEC 60947	95.80 A
Rated current 65°C according to IEC 60947	93.60 A
Rated current 70°C according to IEC 60947	91.50 A

Architecture

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in

Tripping

Response time when opening	10 ms

Frequency

Frequency	50 - 60 Hz

Voltage

Rated impulse withstand voltage Uimp	8000 V
Rated insulation voltage Ui	800 V
Rated operational voltage Ue	220 - 415 V

Functions

Trip unit	TM A/A

Power

Total power loss under IN	24.80 W

Endurance

Electric endurance in number of cycles	1000
Number of mechanical operations	4000

Safety

Ingress Protection (IP) class	IP4X

Connection

Cross-section flexible conductor	35 - 150 mm^2
Cross-section rigid conductor	35 - 185 mm^2

Settings

Thermal protection knob setting xIN	0.63 0.8 1
Adjustment range short-term delayed short-circuit release	0 - 0 A

Compatibility

Suitable for DIN Rail	No

Installation, mounting	
Mounting-/Connection Position	Front
Nominal tightening torque	12 - 12 Nm

Main electrical attributes	
Magnetic protection trip time	0 - 0 ms

Sustainability	
REACh-SVHC free	Yes
RoHS conform	Yes