



HNB160U

**Moulded Case Circuit Breaker X250 3P 40kA 160A TM**

**Technical Features**

**Electric current**

Rated current	160 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	4 kA
Rated current 10°C according to IEC 60947	189.40 A
Rated current 15°C according to IEC 60947	185.90 A
Rated current 20°C according to IEC 60947	182.40 A
Rated current 25°C according to IEC 60947	178.70 A
Rated current 30°C according to IEC 60947	175.20 A
Rated current at 35°C according to IEC 60947	171.50 A
Rated current at 40°C according to IEC 60947	167.80 A
Rated current 45°C according to IEC 60947	163.80 A
Rated current 50°C according to IEC 60947	160 A
Rated current 55°C according to IEC 60947	156 A
Rated current at 60°C according to IEC 60947	152 A
Rated current 65°C according to IEC 60947	147.60 A
Rated current 70°C according to IEC 60947	143.50 A

**Architecture**

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

**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 <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	800 V
Rated operational voltage U <sub>e</sub>	220 - 415 V

**Functions**

Trip unit	TM A/A
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**Power**

Total power loss under I <sub>N</sub>	32.60 W
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**Endurance**

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

**Safety**

Ingress Protection (IP) class	IP4X
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**Connection**

Cross-section flexible conductor	35 - 150 mm <sup>2</sup>
Cross-section rigid conductor	35 - 185 mm <sup>2</sup>

**Settings**

Thermal protection knob setting xI <sub>N</sub>	0.63 0.8 1
Adjustment range short-term delayed short-circuit release	0 - 0 A

**Compatibility**

Suitable for DIN Rail	No
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**Installation, mounting**

Mounting-/Connection Position	Front
Nominal tightening torque	12 - 12 Nm

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**Main electrical attributes**

Magnetic protection trip time	0 - 0 ms
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**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes