



HNB160U

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

### Technical properties

#### Architecture

Type of order	Toggle
Number of poles	3 P
Type of pole	3P3D

#### Functions

Complete device with protection unit	Yes
Trip Unit	TM A/A
With integrated earth leakage fault protection	No

#### Configuration

Number of modules	6
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#### Main electrical features

Rated operational voltage U <sub>e</sub>	220 / 415 V
Frequency	50/60 Hz

#### Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8 kV
With under voltage release	No

#### Electric current

Rated current	160 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690V AC IEC 60947-2	4 kA
Thermal protection nob setting xIN	0.63 / 0.8 / 1
Breaking capacity on 1 pole for IT 230V NF 60947-2	51 kA
Breaking capacity on 1 pole for IT 400V NF 60947-2	9 kA
Rated service breaking capacity I <sub>cs</sub> AC according IEC 60947-2	50 %
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 415V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 440V AC IEC 60947-2	30 kA

**Current correction factors**

Correction factor of rating current for 2 devices placed side-by-side	1
Correction factor of rating current for 3 devices placed side-by-side	1
Correction factor of rating current for 4 and 5 devices placed side-by-side	1
Correction factor of rating current for 6 devices placed side-by-side	1

**Power**

Total power loss under IN	32.6 W
Power loss per pole at In	10.9 W

**Tripping**

Tripmode	TM
Thermal protection trip time	0 ms
Time of response when opening	10 ms

**Electrical specifications**

Magnetic trip delay time	0 ms
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**Endurance**

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

**Installation, mounting**

DIN rail mounting with optional adaptor	Yes
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**Connection**

Connection cross-sect. flexible conductor	35 / 150mm <sup>2</sup>
Connection cross-sect. rigid cable	35 / 185mm <sup>2</sup>
Connection	Front connection
Type of connection	Terminal

**Settings**

Range of the magnetic adjustment	960 / 1280 / 1600 / 2080 A
Magnetic protection nob setting xIN	6 / 8 / 10 / 13
Setting type In or Ith	IN

**Equipment**

Number of auxiliary contacts as normally closed contact	0
Number of auxiliary contacts as normally open contact	0
Number of auxiliary contacts as change-over contact	0
Motor drive optional	Yes

**Use cases**

Category of use	A
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**Standards**

Standard text	IEC 60947-2
European directive WEEE	not concerned
<b>Safety</b>	
REACH conform	Yes
RoHS conform	Yes
Halogen free	No
<b>Use conditions</b>	
Operating temperature	-25...70 °C
Altitude	2000 m
Air humidity protection	for all climates
Storage/transport temperature	-35...70 °C