

40 kA



HNB160U

MCCB X250 3P 40kA 160A TM

Technische Merkmale

Architecture

Type of order	Toggle
Type of case	Fixed built-in
Number of poles	3 P
Type of pole	3P3D

Functions

Complete device with protection unit	yes
Trip Unit	TM A/A
Integrated earth fault protection	no

Compatibility

Compatible with DIN rail mounting	no

Controls and indicators

Motor drive integrated	no

Main electrical features

Frequency	50/60 Hz
Rated operational voltage Ue	220/415 V

Voltage

Rated insulation voltage	800 V
Rated impulse withstand voltage	8000 V
With under voltage release	no

Electric current

Rated ultimate short-circuit breaking capacity Icu

under 400V AC IEC 60947-2	
Rated service breaking capacity Ics AC according IEC 60947-2	50 %
Breaking capacity on 1 pole with 230 V NF 60947-2	51 kA
Breaking capacity on 1 pole with 400 V NF 60947-2	9 kA
Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2	40 kA
Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	30 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	4 kA
Thermal protection nob setting xIN	0,63/0,8/1



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	
Power loss per pole at In	10,9 W
Power loss per pole at 0.63*In	4,3 W
Power loss per pole at 0.8*In	6,6 W
Total power loss under IN	32,6 W
Total power loss at 0.63*In	12,7 W
Total power loss at 0.8*In	19,9 W
Tripping	
Tripmode	TM
Time of response when opening	10 ms
Endurance	
Electric endurance in number of cycles	1000
Number of mechanical operations	4000
Installation, mounting	
Tightening torque	12Nm
DIN rail mounting with optional adaptator	yes
Connection	
Connection cross-sect. rigid cable	35 / 185mm²
Connection cross-sect. flexible conductor	35 / 150mm²
Connection	Front connection
Type of connection	Terminal
Settings	
Magnetic protection nob setting xIN	6/8/10/13
Setting type In or Ith	IN
Range of the magnetic adjustment	960/1280/1600/2080 A
Equipment	
Motor drive optional	yes
Use cases	
Category of use	A



Safety Protection index IP Use conditions Altitude Storage temperature		andards
Safety Protection index IP Use conditions Altitude Storage temperature	IEC 60947-2	andard text
Protection index IP Use conditions Altitude Storage temperature	not concerned	ropean directive WEEE
Use conditions Altitude Storage temperature		ıfety
Altitude Storage temperature	IP4X	otection index IP
Storage temperature		se conditions
	2000 m	titude
Air humidity protection for	-35 to 70 °C	orage temperature
7.11 Harmany procession	for all climates	r humidity protection