



MCCB X160 3P 40kA 125A

HNA125H

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/F
Integrated earth fault protection	no

Controls and indicators

Motor drive integrated	no
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Main electrical features

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

Voltage

Rated insulation voltage	690 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	40 kA
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

Technical Properties

Rated ultimate short-circuit breaking capacity Icu under 440V AC IEC 60947-2	25 kA
Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2	6 kA
Thermal protection nob setting xIN	0,63/0,8/1

Electric current / temperature

Rating current 0°C according to IEC 60947-2	151,4 A
Rating current 10°C according to IEC 60947-2	145,3 A
Rating current 150°C according to IEC 60947-2	142,1 A
Rating current 20°C according to IEC 60947-2	138,8 A
Rating current 25°C according to IEC 60947-2	135,5 A
Rating current 30°C according to IEC 60947-2	132,1 A
Rating current 35°C according to IEC 60947-2	128,6 A
Rating current 40°C according to IEC 60947-2	125 A
Rating current 45°C according to IEC 60947-2	121,2 A
Rating current 5°C according to IEC 60947-2	148,4 A
Rating current 50°C according to IEC 60947-2	117,4 A
Rating current 55°C according to IEC 60947-2	113,4 A
Rating current 60°C according to IEC 60947-2	109,3 A
Rating current 65°C according to IEC 60947-2	105,1 A
Rating current 70°C according to IEC 60947-2	100,6 A

Current correction factors

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

Power

Power loss per pole at 0.63*In	4,5 W
Power loss per pole at 0.8*In	7 W
Total power loss at 0.63*In	13,5 W
Total power loss at 0.8*In	21,1 W
Total power loss under IN	33 W
Power loss per pole at In	11 W

Tripping

Trip mode	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	6Nm
DIN rail mounting with optional adaptor	no

Connection

Connection cross-sect. flexible cable	4 / 70mm ²
Connection cross-sect. rigid cable	4 / 95mm ²
Connection	Front connection
type of connection	with screw

Settings

Range of the magnetic adjustment	1500 A
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Equipment

Motor drive optional	no
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Use cases

Category of use	A
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Standards

Standard text	IEC 60 947-2
European directive RoHs	voluntary compliance
European directive WEEE	concerned

Safety

Protection index IP	IP4X
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Use conditions

Altitude	2000 m
Storage temperature	-35 to 70 °C
Air humidity protection	for all climates