



HNA160U

MCCB X160 3P 40kA 160A

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

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 In	14,6 W
Power loss per pole at 0.63*In	5,7 W
Power loss per pole at 0.8*In	8,9 W
Total power loss under IN	43,8 W
Total power loss at 0.63*In	17,1 W
Total power loss at 0.8*In	26,7 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	yes

Connection

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

Settings

Range of the magnetic adjustment	1600 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 60947-2
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