MCCB X160 3P 40kA 80A

HNA080U

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

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	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

Technical Properties

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	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 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	10,7 W
Power loss per pole at 0.63*In	4,2 W
Power loss per pole at 0.8*In	6,6 W
Total power loss under IN	32,1 W
Total power loss at 0.63*In	12,5 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	6Nm
DIN rail mounting with optional adaptator	yes

Connection

Connection cross-sect. rigid cable	4 / 95mm²
Connection cross-sect. flexible conductor	4 / 70mm²
Connection	Front connection
Type of connection	with screw

Settings

Setting type In or Ith	IN
Range of the magnetic adjustment	1000 A

Equipment

Motor drive optional	no

Use cases

Category of use	A

Standards

Standard text	IEC 60947-2
European directive WEEE	concerned

Safety

Protection index IP	IP4X

Use conditions

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