

MCCB x160 3P 40kA 50A

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 F/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
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	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 I_n 5,8 W

Total power loss under I_n 17,3 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 6 Nm

DIN rail mounting with optional adaptor yes

Connection

Connection cross-sect. rigid cable 4 / 95 mm²

Connection cross-sect. flexible conductor 4 / 70 mm²

Connection Front connection

Type of connection with screw

Settings

Setting type I_n or I_{th} I_n

Range of the magnetic adjustment 600 A

Equipment

Motor drive optional no

Use cases

Category of use A

Standards

Standard text IEC 60947-2

European directive WEEE not concerned

Safety

Protection index IP IP4X

Use conditions

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