

## MCCB x160 3P 40kA 80A

### 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
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### Controls and indicators

Motor drive integrated	no
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### 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  $I_n$  6,3 W

Total power loss under  $I_n$  18,9 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 mm<sup>2</sup>

Connection cross-sect. flexible conductor 4 / 70 mm<sup>2</sup>

Connection Front connection

Type of connection with screw

#### Settings

Setting type  $I_n$  or  $I_{th}$   $I_n$

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

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