

Eaton 248039

Catalog Number: 248039

Eaton Moeller series xPole - PLHT/-V MCB. Miniature circuit breaker (MCB), 80A, 3p, C-Char, AC

General specifications



Product Name	Catalog Number
Eaton Moeller series xPole - PLHT/-V MCB	248039
	Packing Unit
	Pack
	Case Pack
EAN	Quantity
9007912177487	4
9008790285387	16
Gross Weight	Length
2.636 kg	330 mm
10.711 kg	335 mm
Width	Height
91 mm	80.5 mm
192 mm	180 mm
Volume	ERP Name
2.417 dm ³	SAP-UNITY
11.578 dm ³	SAP-UNITY
Product Length/Depth	Product Height
90 mm	75 mm
Product Width	Product Weight
81 mm	0.64 kg
Compliances	Model Code
RoHS conform	PLHT-C80/3

Delivery program

Application

Switchgear for industrial and advanced commercial applications

Number of poles

Three-pole

Number of poles (total)

3

Number of poles (protected)

3

Tripping characteristic

C

Release characteristic

C

Amperage Rating

80 A

Type

Miniature circuit breaker

PLHT

Technical data - electrical

Voltage type

AC

Rated operational voltage (Ue) - max

400 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Frequency rating - min

50 Hz

Frequency rating - max

60 Hz

Rated switching capacity (IEC/EN 60947-2)

20 kA

Rated short-circuit breaking capacity (EN 60898) at 230 V

0 kA

Rated short-circuit breaking capacity (EN 60898) at 400 V

0 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 230 V

20 kA

Rated short-circuit breaking capacity (IEC 60947-2) at 400 V

20 kA

Overvoltage category

III

Pollution degree

2

Technical data - mechanical

Width in number of modular spacings

4.5

Built-in depth

75 mm

Degree of protection

IP20

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

80 A

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

21.4 W

Connectable conductor cross section (solid-core) - min

2.5 mm²

Connectable conductor cross section (solid-core) - max

50 mm²

Connectable conductor cross section (multi-wired) - min

2.5 mm²

Connectable conductor cross section (multi-wired) - max

50 mm²

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Design verification as per IEC/EN 61439

10.2.2 Corrosion resistance

Meets the product standard's requirements.

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

Additional information

Current limiting class

3

Features

Additional equipment possible

Special features

Ambient temperature hint: a 1 °C increase results in a 0.35% linear reduction of current carrying capacity

Used with

Miniature circuit breaker

PLHT

Do pobrania

Certyfikaty

DA-DC-03_PLH

Characteristic curve

[eaton-xpole-mmct-mcb-characteristic-curve.jpg](#)

DWG

[eaton-xpole-mmct-mcb-dimensions.jpg](#)

[eaton-xpole-mmct-mcb-3d-drawing-002.jpg](#)

[eaton-xpole-mmct-mcb-3d-drawing.jpg](#)

eCAD model

ETN.PLHT-C80_3

Instrukcje montażu

IL019151ZU

Katalogi

[eaton-xpole-plht-mcb-catalog-ca019075en-en-us.pdf](#)

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

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[mCAD model](#)

[DA-CD-plht_3p](#)

[DA-CS-plht_3p](#)

[Schematy połączeń](#)

[eaton-xpole-mm4-6-m-mcb-wiring-diagram-005.jpg](#)