

Eaton 113100

Catalog Number: 113100

Eaton Moeller series xPole - PFL6/7 RCBO - residual-current circuit breaker with overcurrent protection. RCD/MCB, 20A, 30mA, MCB trip curve C, 1pole+N, RCCB trip type: A, PFL6



General specifications

Product Name	Catalog Number
Eaton Moeller series xPole - PFL6/7	113100
RCBO - residual-current circuit breaker with overcurrent protection	EAN 4015081126453
Product Length/Depth	Product Height
86 mm	75 mm
Product Width	Product Weight
37 mm	0.225 kg
Compliances	Certifications
CE Marked RoHS conform	CE
	Model Code
	PFL6-20/1N/C/003-A

Delivery program

Application

Switchgear for residential and commercial applications

Basic function

Combined RCD/MCB devices

Product application

Switchgear for industrial and advanced commercial applications

Number of poles

Single-pole + N

Number of poles (protected)

1

Number of poles (total)

2

Release characteristic

C

Rated current

20 A

Fault current rating

0.03 A

Type

RCBO

Technical data - electrical

Voltage type

AC

Voltage rating

230 V

Rated operational voltage (Ue) - max

230 V

Rated insulation voltage (Ui)

440 V

Rated impulse withstand voltage (Uimp)

4 kV

Frequency rating

50 Hz

Leakage current type

A

Rated short-circuit breaking capacity (EN 60947-2)

0 kA

Rated short-circuit breaking capacity (EN 61009)

6 kA

Rated short-circuit breaking capacity (EN 61009-1)

6 kA

Rated short-circuit breaking capacity (IEC 60947-2)

0 kA

Surge current capacity

0.25 kA

Disconnection characteristic

Undelayed

Overvoltage category

III

Pollution degree

2

Technical data - mechanical

Width in number of modular spacings

2

Design verification as per IEC/EN 61439 - technical data

Rated operational current for specified heat dissipation (In)

20 A

Built-in depth

69.5 mm

Degree of protection

IP20

Connectable conductor cross section (solid-core) - min

1 mm²

Connectable conductor cross section (solid-core) - max

25 mm²

Connectable conductor cross section (multi-wired) - min

1 mm²

Connectable conductor cross section (multi-wired) - max

25 mm²

Heat dissipation per pole, current-dependent

0 W

Equipment heat dissipation, current-dependent

4.7 W

Static heat dissipation, non-current-dependent

0 W

Heat dissipation capacity

0 W

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

40 °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

Additional information

Current limiting class

3

Features

Concurrently switching N-neutral

Resources

Catalogues

[eaton-xpole-pfl7-rcbo-catalog-ca019045en-en-us.pdf](#)

[eaton-xpole-pfl6-rcbo-catalog-ca019046en-en-us.pdf](#)

Certification reports

[DA-DC-03_PFL](#)

Installation instructions

[IL019140ZU](#)

[eaton-xpole-combined-mcb-rcd-device-rcbo-packaging-manual-multilingual.pdf](#)

Meets the product standard's requirements.

10.5 Protection against electric shock

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

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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