

Eaton PDG13M0050MSAN

Catalog Number: PDG13M0050MSAN

Eaton Power Defense motor protection circuit breaker, Globally Rated, Frame 1, Three Pole, 50A, 65kA/480V, Motor protection, Standard Calibration, Adjustable, No Terminals

Photo is representative



General specifications

Product Name	Catalog Number
Eaton Power Defense motor protection circuit breaker	PDG13M0050MSAN
	UPC
	786679221235
Product Length/Depth	Product Height
76 mm	139.7 mm
Product Width	Product Weight
76.2 mm	1.25 kg
Warranty	Compliances
Eaton Selling Policy 25-000, one (1) year RoHS Compliant from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.	Certifications
	CCC Marked
	UL 489
	CSA
	IEC 60947-2

Delivery program

Amperage Rating

50 A

Frame

1

Number of poles

Three-pole

General information

Circuit breaker type

PD1 Global

Class

Class A

Technical data - Electrical

Voltage rating

600 Vac

Technical data - Mechanical

Switch off technique

Thermomagnetic

Technical data - Mechanical - Terminals

Terminals

No Terminals

Technical information

Interrupt rating

65 kAIC at 480 Vac

Interrupt rating range

65 kAIC at 480 V (UL)

35 kAIC Icu at 250 Vdc

25 kAIC at 600 V (UL/CSA)

70 kAIC Icu/50 kAIC Ics/154 kAIC Icm at 380-415 V (IEC)

100 kAIC Icu/100 kAIC Ics/220 kAIC Icm at 240 V (IEC)

100 kAIC at 240 V (UL)

35 kAIC Icu at 125 Vdc

Resources

3D CAD drawing package

[Eaton Power Defense MCCB PDG13M0050MSAN 3D drawing](#)

Application notes

[Consulting application guide - molded case circuit breakers](#)

Brochures

[Power Defense brochure](#)

[Power Defense molded case circuit breaker selection poster](#)

[Power Defense technical selling booklet](#)

[Power Defense molded case circuit breakers - Frame 1 product aid](#)

Catalogs

[Molded case circuit breakers catalog](#)

Certification reports

[PDG1 CCC certification](#)

[PDG1 UL authorization](#)

[Power Defense Declaration concerning California's Proposition 65](#)

[PDG1 CSA certification](#)

[EU Declaration of Conformity - Power Defense molded case circuit breakers](#)

Installation instructions

[Power Defense Frame 1 UL global handle block non padlockable -](#)

IL012177EN

Power Defense Frame 1 UL global handle block padlockable off only -
IL012179EN

Power Defense Frame 1 UL global tunnel terminal (aluminum) 125A 3P -
IL012166EN H03

Power Defense Frame 1 UL global DIN rail adapter three or four pole -
IL012186EN

Power Defense Frame 1 UL global terminal shield cover IP30 3P -
IL012174EN

Power Defense Frame 1 UL global DIN rail adapter metal three pole -
IL012187EN

Power Defense Frame 1 UL global lock padlockable handle hasp
IL012180EN

Power Defense Frame 1 Instructions - IL012152EN

Power Defense Frame 1 UL global interphase barrier instructions -
IL012313EN

Power Defense Frame 1 UL Global variable depth rotary handle mech
installation instructions - IL012308EN

Power Defense Frame 1 UL global screw terminal end cap kit 125A 3P -
IL012163EN

Power Defense Frame 1 UL global DIN rail adapter 2, 3, 4-pole -
IL012185EN

Power Defense Frame 1 UL global Padlockable Handle Lock Hasp -
IL012225EN

Power Defense Frame 1 UL global screw terminal end cap kit metric
125A 3P - IL012171EN

Power Defense Frame 1-2-3-4 IP door barrier assembly instructions -
IL012278EN

Power Defense padlockable handle lock hasp top off only installation
instructions - IL012226EN

Power Defense Frame 1 UL global handle block padlockable -
IL012178EN

Power Defense Frame 1 UL global interphase barrier - IL012176EN

Power Defense Frame 1 UL global box terminal (steel) 125A 3P -
IL012165EN H03

Installation videos

Power Defense Frame 1 UL Global Aux, Alarm, ST and UVR Animated
Instructions.rh

Multimedia

Eaton Power Defense for superior arc flash safety

Power Defense Breakers

Power Defense Frame 3 Variable Depth Rotary Handle Mechanism

[Installation How-To Video](#)

[Power Defense Frame 2 Variable Depth Rotary Handle Mechanism
Installation How-To Video](#)

[Power Defense Frame 6 Trip Unit How-To Video](#)

[Power Defense molded case circuit breakers](#)

[Power Defense Frame 1 Aux, Alarm, and Shunt Trip How-To Video](#)

[Power Defense Frame 5 Trip Unit How-To Video](#)

Specifications and datasheets

[Eaton Specification Sheet - PDG13M0050MSAN](#)

Time/current curves

[Power Defense time current curves MCP Motor Circuit Protection – PD1,
PD2, PD3](#)

[Power Defense time current curve Frame 1 - PDG1](#)

White papers

[Single and double break MCCB performance revisited](#)

[Safer by design: arc energy reduction techniques](#)

[Molded case and low-voltage breaker health](#)



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30 Pembroke Road
Dublin 4, Ireland
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