

# Eaton PDG12F0050TFFJ

Catalog Number: PDG12F0050TFFJ

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 1, Two Pole, 50A, 25kA/480V, T-M (Fxd-Fxd) TU, Standard Line and Load (PDG1X2T125)

Photo is representative



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Power Defense molded case circuit breaker	PDG12F0050TFFJ
	UPC
	786679243312
<b>Product Length/Depth</b>	<b>Product Height</b>
76 mm	76.2 mm
<b>Product Width</b>	<b>Product Weight</b>
50.8 mm	0.861826 kg
<b>Warranty</b>	<b>Compliances</b>
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.	<b>Certifications</b>
	CSA
	CCC Marked
	IEC 60947-2
	UL 489

## Delivery program

### Amperage Rating

50 A

### Circuit breaker frame type

Complete breaker

### Frame

1

### Number of poles

Two-pole

## General information

### Circuit breaker type

PD1 Global

### Class

Class A

### Trip Type

T-M (Fxd-Fxd) TU

## Technical data - Electrical

### Voltage rating

600 Vac

### Voltage rating - max

600 V

## Technical data - Mechanical - Terminals

### Terminals

Standard Line and Load

## Technical information

### Interrupt rating

25 kAIC at 480 Vac

### Interrupt rating range

25 kAIC Icu/ 25 kAIC Ics/ 53 kAIC Icm @380-415V (IEC)

35 kAIC @240V (UL)

35 kAIC Icu/ 35 kAIC Ics/ 73.5 kAIC Icm @240V (IEC)

14 kAIC @600V (UL/CSA)

22 kAIC Icu @250 Vdc

25 kAIC @480V (UL)

22 kAIC Icu @125 Vdc

## Resources

### 3D CAD drawing package

[Eaton Power Defense MCCB PDG12F0050TFFJ 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 UL authorization

Power Defense Declaration concerning California's Proposition 65

EU Declaration of Conformity - Power Defense molded case circuit breakers

PDG1 CCC certification

PDG1 CSA certification

## Installation instructions

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

Power Defense Frame 1 UL global interphase barrier - IL012176EN

Power Defense Frame 1 UL global handle block padlockable - IL012178EN

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 metric 125A 2P - IL012170EN

Power Defense Frame 1 UL global lock padlockable handle hasp IL012180EN

Power Defense Frame 1 UL global screw terminal end cap kit 125A 2P - IL012162EN

Power Defense Frame 1 UL global box terminal (steel) 125A 2P - IL012165EN H02

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

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

Power Defense Frame 1 Instructions - IL012152EN

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

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

Power Defense Frame 1 UL global tunnel terminal (aluminum) 125A 2P - IL012166EN H02

Power Defense Frame 1 UL global handle block non padlockable - IL012177EN

## 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 Frame 5 Trip Unit How-To Video

Power Defense molded case circuit breakers

Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video

Power Defense Breakers

Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video

Power Defense Frame 6 Trip Unit How-To Video

## Specifications and datasheets

Eaton Specification Sheet - PDG12F0050TFFJ

## Time/current curves

Power Defense time current curve Frame 1 - PDG1

## White papers

Single and double break MCCB performance revisited

Molded case and low-voltage breaker health

Safer by design: arc energy reduction techniques



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