

# Eaton PDG33K0250TFAJ

Catalog Number: PDG33K0250TFAJ

Power Defense Globally Rated, Frame 3, Three Pole, 250A, 50kA/480V, T-M (Fxd-Adj) TU, Std Line Load Term (PDG3X3TA350)

Photo is representative



## General specifications

<b>Product Name</b>	<b>Catalog Number</b>
Eaton Power Defense molded case circuit breaker	PDG33K0250TFAJ
	<b>UPC</b>
	786679471586
<b>Product Length/Depth</b>	<b>Product Height</b>
109.1 mm	257.1 mm
<b>Product Width</b>	<b>Product Weight</b>
138.9 mm	5.61 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>
	IEC 60947-2
	CCC Marked
	UL 489
	CSA

## Delivery program

### Amperage Rating

250 A

### Circuit breaker frame type

Complete breaker

### Frame

3

### Number of poles

Three-pole

## General information

### Circuit breaker type

PD3 Global

### Class

Class A

### Trip Type

T-M (Fxd-Adj) 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

50 kAIC at 480 Vac

### Interrupt rating range

25 kAIC @600V (UL/CSA)

25 kAIC Icu/ 10 kAIC Ics/ 52.5 kAIC Icm @525V South Africa (IEC)

35 kAIC Icu/ 22.5 kAIC Ics/ 73.5 kAIC Icm @480V Brazil (IEC)

85 kAIC Icu/ 85 kAIC Ics/ 187 kAIC Icm @240V (IEC)

35 kAIC Icu/ 35 kAIC Ics/ 73.5 kAIC Icm @440V (IEC)

10 kAIC Icu @250 Vdc

50 kAIC Icu/ 50 kAIC Ics/ 105 kAIC Icm @380-415V (IEC)

50 kAIC @480V (UL)

10 kAIC Icu/ 5 kAIC Ics/ 21 kAIC Icm @690V (IEC)

85 kAIC @240V (UL)

## Resources

### 3D CAD drawing package

[Eaton Power Defense MCCB PDG33K0250TFAJ 3D drawing](#)

### Application notes

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

### Brochures

StrandAble terminals product aid

Power Defense brochure

Power Defense molded case circuit breaker selection poster

Power Defense technical selling booklet

### Catalogs

Molded case circuit breakers catalog

### Certification reports

PDG3 CSA certification 250-600a

PDG3 CSA certification 100-400a

EU Declaration of Conformity - Power Defense molded case circuit breakers

PDG3 UL authorization 250-600a TMTU

PDG3B 450A-600A CB report

PDG3 45-400A CB report

PDG3 UL authorization 100-400a

### Installation instructions

Power Defense Frame 3 finger protection assembly installation instructions - IL012279EN

Power Defense Frame 3 terminal cover assembly instructions - IL012281EN

Power Defense Frame 4 locking devices and handle block instructions - IL012151EN

Power Defense Frame 3 terminal kit Cat Num PDG3X3(2)(4)TA400RF instructions - IL012251EN

Power Defense Frame 3 multi wire connector kit - PDG3X3(2)(4)TA4006W and PDG3X3(2)(4)TA4003W instructions- IL012247EN H01

Power Defense Frame 3 extendable shaft rotary handle mech - IL012112EN

Power Defense Frame 3 reverse feed connector kit Cat Num PDG3X3(2)(4)TA630RF instructions - IL012253EN

Power Defense Frame 3 handle mech direct rotary handle instructions - IL012111EN

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

Power Defense Frame 3 rear connection installation instructions - IL012300EN

Power Defense Frame 3 shunt trip UVR instructions - IL012140EN

Power Defense Frame 3 interphase barrier - IL012229EN H03

Power Defense Frame 3 trip unit replacement instructions - IL012157EN

Power Defense Frame 3 box terminal installation instructions -

IL012299EN

Power Defense Frame 3 reverse feed connector kit Cat Num  
PDG3X3(2)(4)TA400HRF instructions - IL012252EN

Power Defense Frame 4 shunt trip UVR instructions - IL012129EN

Power Defense Frame 3 multi-tap terminal kit Cat Num  
PDG3X3(2)(4)TA6006WSW instructions - IL012250EN

Power Defense Frame 3 screw terminal\_end cap kit, 400A, 3 pole –  
IL012262EN

Power Defense Frame 3 screw terminal end cap kit 600A, 3 pole -  
IL012264EN

Power Defense Frame 3 Aux, Alarm, ST and UVR Animated Instructions.rh

Power Defense Frame 3 plug-in adapter installation instructions -  
IL012311EN

Power Defense Frame 3 adapter kit installation instructions LZM3 to PD3  
- IL012227EN

Power Defense Frame 3 Breaker Instructions (IL012107EN).pdf

Power Defense Frame 3 multi-tap terminal kit Cat Num  
PDG3X3(2)(4)TA6006W Instructions - IL012248EN

Power Defense Frame 4 reverse feed connector kit instructions for  
PDG4X3(2)(4)TA800RF instructions - IL012254EN

Power Defense Frame 2/3/4/5/6 voltage neutral sensor module wiring  
instructions – IL012316EN

Power Defense Frame 3 interphase barriers 3-pole - IL012229EN H01

Power Defense Frame 3 terminal spreader assembly instructions -  
IL012301EN

Power Defense Frame 3 locking devices and handle block instructions -  
IL012150EN

Power Defense Frame 3 Direct Rotary Handle Assy With Interlock Version  
Instructions (IL012139EN).pdf

#### **Installation videos**

Power Defense Frame 3 trip unit replacement animated instructions.rh

Power Defense Frame 3 Locking Devices and Handle Block Animated  
Instructions.pdf.rh

Power Defense Frame 3 Handle Mech Direct Rotary Handle Animated  
Instructions.rh

Power Defense Frame 3 Handle Mech Variable Depth Rotary Handle  
Animated Instructions.rh

Power Defense Frame 3 Shunt Trip\_UVR Animated Instructions.pdf.rh

#### **Multimedia**

Power Defense Frame 3 Aux, Alarm, Shunt Trip, and UVR How-To Video

Power Defense Frame 3 Trip Unit Installation How-To Video

Power Defense Frame 3 Direct Rotary Handle Mechanism Installation

## How-To Video

Power Defense Breakers

Power Defense Frame 5 Trip Unit How-To Video

Power Defense Frame 2 Variable Depth Rotary Handle Mechanism

Installation How-To Video

Eaton Power Defense for superior arc flash safety

Power Defense molded case circuit breakers

Power Defense Frame 6 Trip Unit How-To Video

Power Defense Frame 3 Variable Depth Rotary Handle Mechanism

Installation How-To Video

## Specifications and datasheets

Eaton Specification Sheet - PDG33K0250TFAJ

## Time/current curves

Power Defense time current curve Frame 3 - PD3

## White papers

Molded case and low-voltage power circuit breaker health

Intelligent power starts with accurate, actionable data

Single and double break MCCB performance revisited

Making a better machine

Implementation of arc flash mitigating solutions at industrial manufacturing facilities

Intelligent circuit protection yields space savings

Safer by design: arc energy reduction techniques

Molded case and low-voltage breaker health



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