

# Eaton PDG33G0250E2RJ

Catalog Number: PDG33G0250E2RJ

Power Defense Globally Rated, Frame 3, Three Pole, 250A, 35kA/480V, PXR20 LSI w/ Relays, 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                                                                                                                                                 | PDG33G0250E2RJ        |
|                                                                                                                                                                                                 | <b>UPC</b>            |
|                                                                                                                                                                                                 | 786679539699          |
| <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                                                                                                                                                                                        | 5.92 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           |
|                                                                                                                                                                                                 | UL 489                |
|                                                                                                                                                                                                 | CSA                   |
|                                                                                                                                                                                                 | CCC Marked            |



## 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

PXR 20 LSI

## 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

35 kAIC at 480 Vac

### Interrupt rating range

35 kAIC @480V (UL)

36 kAIC Icu/ 36 kAIC Ics/ 75.6 kAIC Icm @380-415V (IEC)

55 kAIC Icu/ 55 kAIC Ics/ 121 kAIC Icm @240V (IEC)

65 kAIC @240V (UL)

25 kAIC Icu/ 20 kAIC Ics/ 52.5 kAIC Icm @480V Brazil (IEC)

20 kAIC Icu/ 7.5 kAIC Ics/ 42 kAIC Icm @525V South Africa (IEC)

18 kAIC @600V (UL/CSA)

10 kAIC Icu @250 Vdc

30 kAIC Icu/ 22.5 kAIC Ics/ 63 kAIC Icm @440V (IEC)

8 kAIC Icu/ 4 kAIC Ics/ 16.8 kAIC Icm @690V (IEC)

### Trip rating

250 A

## Resources

### 3D CAD drawing package

Eaton Power Defense MCCB PDG33G0250E2RJ 3D drawing

### Application notes

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

[Power Xpert Protection Manager x64](#)

## Brochures

[StrandAble terminals product aid](#)

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

[Power Defense technical selling booklet](#)

[Power Defense brochure](#)

## Catalogs

[Molded case circuit breakers catalog](#)

[Power Xpert Release trip units for Power Defense molded case circuit breakers](#)

## Certification reports

[PDG3 CSA certification 250-600a](#)

[PDG3 UL authorization 250-600a TMTU](#)

[PDG3B 450A-600A CB report](#)

[PDG3 CSA certification 100-400a](#)

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

[PDG3 UL authorization 100-400a](#)

[PDG3 45-400A CB report](#)

## Installation instructions

[Power Defense Frame 3 finger protection assembly installation instructions - IL012279EN](#)

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

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

[Power Defense Frame 3 extendable shaft rotary handle mech - IL012112EN](#)

[Power Defense Frame 3 terminal cover assembly instructions - IL012281EN](#)

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

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

[Power Defense Frame 1-2-3-4 IP door barrier assembly instructions - IL012278EN](#)

[Power Defense Frame 4 locking devices and handle block instructions - IL012151EN](#)

[Power Defense Frame 3 interphase barrier - IL012229EN H03](#)

Power Defense Frame 3 box terminal installation instructions -  
IL012299EN

Power Defense Frame 3 trip unit replacement instructions - IL012157EN

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

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

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

Power Defense Frame 3 shunt trip UVR instructions - IL012140EN

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

Power Defense Frame 3 rear connection installation instructions -  
IL012300EN

Power Defense Frame 3 terminal spreader assembly instructions -  
IL012301EN

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

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

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

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 plug-in adapter installation instructions -  
IL012311EN

Power Defense Frame 3 Breaker Instructions (IL012107EN).pdf

Power Defense Frame 4 shunt trip UVR instructions - IL012129EN

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

### Installation videos

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 Locking Devices and Handle Block Animated  
Instructions.pdf.rh

Power Defense Frame 3 trip unit replacement 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](#)

[Eaton Power Defense for superior arc flash safety](#)

[Power Defense Frame 6 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 5 Trip Unit How-To Video](#)

## **Specifications and datasheets**

[Eaton Specification Sheet - PDG33G0250E2RJ](#)

## **Time/current curves**

[Power Defense time current curve Frame 3 - PD3](#)

## **Warranty guides**

[Selling Policy 25-000 - Distribution and Control Products and Services](#)

## **White papers**

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

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

[Implementation of arc flash mitigating solutions at industrial manufacturing facilities](#)

[Intelligent circuit protection yields space savings](#)

[Intelligent power starts with accurate, actionable data](#)

[Making a better machine](#)

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

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



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