

# Eaton PDG23F0090TFFL

Catalog Number: PDG23F0090TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 90A, 25kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X3T100)

## General specifications

|                                                                                                                                                                                                 |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Product Name</b>                                                                                                                                                                             | <b>Catalog Number</b> |
| Eaton Power Defense molded case circuit breaker                                                                                                                                                 | PDG23F0090TFFL        |
|                                                                                                                                                                                                 | UPC                   |
|                                                                                                                                                                                                 | 786679905050          |
| <b>Product Length/Depth</b>                                                                                                                                                                     | <b>Product Height</b> |
| 88.9 mm                                                                                                                                                                                         | 152.4 mm              |
| <b>Product Width</b>                                                                                                                                                                            | <b>Product Weight</b> |
| 104.6 mm                                                                                                                                                                                        | 1.82 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                   |
|                                                                                                                                                                                                 | IEC 60947-2           |
|                                                                                                                                                                                                 | UL 489                |
|                                                                                                                                                                                                 | CCC Marked            |



## Delivery program

### Amperage Rating

90 A

### Circuit breaker frame type

Complete breaker

### Frame

2

### Number of poles

Three-pole

## General information

### Circuit breaker type

PD2 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 Terminals Load Only

## Technical information

### Interrupt rating

25 kAIC at 480 Vac

### Interrupt rating range

25 kAIC Icu/ 25 kAIC Ics/ 52.5 kAIC Icm @380-415V (IEC)

10 kAIC Icu @125 Vdc

20 kAIC Icu/ 20 kAIC Ics/ 42 kAIC Icm @480V Brazil (IEC)

10 kAIC Icu @250 Vdc

25 kAIC Icu/ 20 kAIC Ics/ 52.5 kAIC Icm @440V (IEC)

18 kAIC Icu/ 15/13 kAIC Ics/ 37.8 kAIC Icm @525V South Africa (IEC)

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

25 kAIC @480V (UL)

35 kAIC @240V (UL)

14 kAIC @600V (UL/CSA)

## Resources

### 3D CAD drawing package

[Eaton Power Defense PDG23F0090TFFL 3D drawing](#)

### Application notes

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

### Brochures

[Power Defense brochure](#)

Power Defense technical selling booklet

Power Defense molded case circuit breaker selection poster

Power Defense molded case circuit breakers - Frame 2 product aid

## Catalogs

Molded case circuit breakers catalog

## Certification reports

PDG2 CB report

EU Declaration of Conformity - Power Defense molded case circuit breakers

PDG4 CB report

PDG4 CCC certification

Power Defense Declaration concerning California's Proposition 65

## Installation instructions

Power Defense Frame 2 clamp terminal (steel), 20A, 3 pole instructions - IL012246EN H03

Power Defense Frame 2 locking devices and handle block instructions - IL012149EN

Power Defense Frame 2 tunnel terminal (aluminum), 150A, 3 pole instructions - IL012238EN H03

Power Defense Frame 2 screw terminal\_end cap kit, 225A, 3 pole instructions - IL012258EN H01

Power Defense Frame 2 global terminal shield, 3 pole - IL012330EN

Power Defense Frame 2 tunnel terminal kits - PDG2X1TA225K instructions- IL012239EN H01

Power Defense Frame 2 terminal kit - PDG2X3(2)(4)TA225RF instructions - IL012245EN H01

Power Defense Frame 2 shunt trip UVR instructions - IL012130EN

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

Power Defense Frame 2 PDG2 and PDC(E)9 breaker instructions - IL012106EN

Power Defense Frame 2 Direct Rotary Handle Assy With Interlock Version Instructions (IL012138EN).pdf

Power Defense Frame 2 handle mech direct rotary handle instructions - IL012134EN

Power Defense Frame 2 box terminal (steel), 100A, 3 pole instructions - IL012234EN H03

Power Defense Frame 2 multi wire connector kit - PDG2X3(2)(4)TA2256W instructions - IL012242EN H01

Power Defense Frame 2 tunnel terminal (aluminum), 50A, 3 pole instructions - IL012236EN H03

Power Defense Frame 2 tunnel terminal (aluminum), 100A, 3 pole

[instructions - IL012237EN H03](#)

[Power Defense Frame 1 IEC and Frame 2 Rotary Mechanism with NFPA Handle Attachment Instructions \(IL012260EN\).pdf](#)

[Power Defense Frame 2 terminal kit - PDG2X3\(2\)\(4\)TA150RF instructions - IL012244EN H01](#)

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

[Power Defense Frame 2 multi wire connector kit - PDG2X3\(2\)\(4\)TA2253W instructions - IL012243EN H01](#)

[Power Defense Frame 2 handle mech variable depth rotary handle instructions - IL012136EN](#)

[Power Defense Frame 2 box terminal \(aluminum\), 225A, 3 pole instructions - IL012235EN H03](#)

### **Installation videos**

[Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh](#)

[Power Defense Frame 2 Locking Devices and Handle Block Animated Instructions.pdf.rh](#)

[Power Defense Frame 2 withTMTU, Shunt Trip\\_UVR Animated Instructions.rh](#)

[Power Defense Frame 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh](#)

[Power Defense Frame 2 Bell Alarm with PXR Animated Instructions.pdf.rh](#)

### **Multimedia**

[Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video](#)

[Power Defense Frame 2 Aux, Alarm, Shunt Trip, and UVR How-To Video](#)

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

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

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

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

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

[Power Defense molded case circuit breakers](#)

[Power Defense Breakers](#)

### **Specifications and datasheets**

[Eaton Specification Sheet - PDG23F0090TFFL](#)

### **Time/current curves**

[Power Defense time current curve Frame 2 - PD2](#)

## White papers

Intelligent circuit protection yields space savings

Single and double break MCCB performance revisited

Molded case and low-voltage power circuit breaker health

Making a better machine

Safer by design: arc energy reduction techniques

Molded case and low-voltage breaker health



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