

# Eaton PDG23M0090TFFL

Catalog Number: PDG23M0090TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 90A, 65kA/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	PDG23M0090TFFL
	UPC
	786679862896
<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	4.75 lb
<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>
	UL 489
	CSA
	IEC 60947-2
	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

65 kAIC at 480 Vac

### Interrupt rating range

70 kAIC Icu/ 53 kAIC Ics/ 154 kAIC Icm @380-415V (IEC)

65 kAIC @480V (UL)

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

100 kAIC @240V (UL)

35 kAIC @600V (UL/CSA)

50 kAIC Icu/ 30 kAIC Ics/ 105 kAIC Icm @480V Brazil (IEC)

22 kAIC Icu @125 Vdc

30/25 kAIC Icu/ 15/13 kAIC Ics @525V South Africa (IEC)

22 kAIC Icu @250 Vdc

50 kAIC Icu/ 40 kAIC Ics/ 105 kAIC Icm @440V (IEC)

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

## Resources

### 3D CAD drawing package

[Eaton Power Defense PDG23M0090TFFL 3D drawing](#)

### Application notes

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

### Brochures

Power Defense technical selling booklet

Power Defense brochure

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

PDG4 CB report

EU Declaration of Conformity - Power Defense molded case circuit breakers

Power Defense Declaration concerning California's Proposition 65

PDG4 CCC certification

## 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 1-2-3-4 IP door barrier assembly instructions - IL012278EN

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

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

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

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

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

Power Defense Frame 2 handle mech variable depth rotary handle instructions - IL012136EN

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

Power Defense Frame 2 terminal kit - PDG2X3(2)(4)TA150RF instructions - IL012244EN H01

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

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

Power Defense Frame 2 motor circuit protector (HMCP) - IL012326EN

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

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

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

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

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

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

Power Defense Frame 2 shunt trip UVR instructions - IL012130EN

### Installation videos

Power Defense Frame 2 Bell Alarm with PXR Animated Instructions.pdf.rh

Power Defense Frame 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh

Power Defense Frame 2 withTMTU, Shunt Trip\_UVR Animated Instructions.rh

Power Defense Frame 2 Locking Devices and Handle Block Animated Instructions.pdf.rh

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### Multimedia

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

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

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

Power Defense Frame 2 Aux, Alarm, Shunt Trip, and UVR How-To Video

Power Defense Frame 6 Trip Unit How-To Video

Power Defense molded case circuit breakers

Eaton Power Defense for superior arc flash safety

Power Defense Breakers

Power Defense Frame 5 Trip Unit How-To Video

### Specifications and datasheets

Eaton Specification Sheet - PDG23M0090TFFL

### Time/current curves

Power Defense time current curve Frame 2 - PD2

Power Defense time current curves MCP Motor Circuit Protection – PD1,  
PD2, PD3

#### White papers

Intelligent circuit protection yields space savings

Molded case and low-voltage power circuit breaker health

Single and double break MCCB performance revisited

Making a better machine

Molded case and low-voltage breaker health

Safer by design: arc energy reduction techniques



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Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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