

# Eaton PDG23G0050TFFL

Catalog Number: PDG23G0050TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 50A, 35kA/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	PDG23G0050TFFL
	UPC
	786679911525
<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>
	IEC 60947-2
	CCC Marked
	CSA
	UL 489



## defaultTaxonomyAttributeLabel

### Amperage Rating

50 A

### Voltage rating

600 Vac

### Trip Type

T-M (Fxd-Fxd) TU

### Circuit breaker type

PD2 Global

### Circuit breaker frame type

Complete breaker

### Terminals

Standard Terminals Load Only

### Frame

2

### Class

Class A

### Interrupt rating

35 kAIC at 480 Vac

### Rated operation voltage (Ue) at AC - max

600

### Switch off technique

Thermomagnetic

### Voltage rating - max

600 V

### Interrupt rating range

35 kAIC @480V (UL)

10 kAIC Icu @125 Vdc

20 kAIC Icu/ 15/13 kAIC Ics/ 42 kAIC Icm @525V South Africa (IEC)

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

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

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

18 kAIC @600V (UL/CSA)

10 kAIC Icu @250 Vdc

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

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

65 kAIC @240V (UL)

## Resources

### 3D CAD drawing package

Eaton Power Defense PDG23G0050TFFL 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 2 product aid

### Catalogs

Molded case circuit breakers catalog

### Certification reports

PDG4 CB report

PDG4 CCC certification

Power Defense Declaration concerning California's Proposition 65

EU Declaration of Conformity - Power Defense molded case circuit breakers

PDG2 CB report

### Installation instructions

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 tunnel terminal (aluminum), 50A, 3 pole instructions - IL012236EN H03

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

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 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 box terminal (aluminum), 225A, 3 pole instructions - IL012235EN H03

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

Number of poles

Three-pole

IL012278EN

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

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

Power Defense Frame 2 shunt trip UVR instructions - IL012130EN

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

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

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

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

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

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

#### Installation videos

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

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

Power Defense Frame 2 TMTU Aux, Alarm, ST and 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 Direct Rotary Handle Mechanism Installation How-To Video

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

Power Defense Frame 5 Trip Unit How-To Video

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

[Power Defense Breakers](#)

[Power Defense molded case circuit breakers](#)

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

### Specifications and datasheets

[Eaton Specification Sheet - PDG23G0050TFFL](#)

### Time/current curves

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

### White papers

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

[Intelligent circuit protection yields space savings](#)

[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](#)



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

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



[Eaton.com/socialmedia](https://www.eaton.com/socialmedia)

# Eaton PDG23G0050TFFL

Catalog Number: PDG23G0050TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 50A, 35kA/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	PDG23G0050TFFL
	UPC
	786679911525
<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>
	IEC 60947-2
	CCC Marked
	CSA
	UL 489



## defaultTaxonomyAttributeLabel

### Amperage Rating

50 A

### Voltage rating

600 Vac

### Trip Type

T-M (Fxd-Fxd) TU

### Circuit breaker type

PD2 Global

### Circuit breaker frame type

Complete breaker

### Terminals

Standard Terminals Load Only

### Frame

2

### Class

Class A

### Interrupt rating

35 kAIC at 480 Vac

### Rated operation voltage (Ue) at AC - max

600

### Switch off technique

Thermomagnetic

### Voltage rating - max

600 V

### Interrupt rating range

35 kAIC @480V (UL)

10 kAIC Icu @125 Vdc

20 kAIC Icu/ 15/13 kAIC Ics/ 42 kAIC Icm @525V South Africa (IEC)

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

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

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

18 kAIC @600V (UL/CSA)

10 kAIC Icu @250 Vdc

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

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

65 kAIC @240V (UL)

## Resources

### 3D CAD drawing package

Eaton Power Defense PDG23G0050TFFL 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 2 product aid

### Catalogs

Molded case circuit breakers catalog

### Certification reports

PDG4 CB report

PDG4 CCC certification

Power Defense Declaration concerning California's Proposition 65

EU Declaration of Conformity - Power Defense molded case circuit breakers

PDG2 CB report

### Installation instructions

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 tunnel terminal (aluminum), 50A, 3 pole instructions - IL012236EN H03

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

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 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 box terminal (aluminum), 225A, 3 pole instructions - IL012235EN H03

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

Number of poles

Three-pole

IL012278EN

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

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

Power Defense Frame 2 shunt trip UVR instructions - IL012130EN

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

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

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

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

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

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

#### Installation videos

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

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

Power Defense Frame 2 TMTU Aux, Alarm, ST and 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 Direct Rotary Handle Mechanism Installation How-To Video

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

Power Defense Frame 5 Trip Unit How-To Video

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

[Power Defense Breakers](#)

[Power Defense molded case circuit breakers](#)

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

### Specifications and datasheets

[Eaton Specification Sheet - PDG23G0050TFFL](#)

### Time/current curves

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

### White papers

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

[Intelligent circuit protection yields space savings](#)

[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](#)



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

© 2024 Eaton. All Rights Reserved.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.



[Eaton.com/socialmedia](https://Eaton.com/socialmedia)