

# Specifications



Photo is representative



## Eaton 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>	Eaton Power Defense molded case circuit breaker
<b>CATALOG NUMBER</b>	PDG23G0050TFFL
<b>UPC</b>	786679911525
<b>PRODUCT LENGTH/DEPTH</b>	88.9 mm
<b>PRODUCT HEIGHT</b>	152.4 mm
<b>PRODUCT WIDTH</b>	104.6 mm
<b>PRODUCT WEIGHT</b>	1.82 kg
<b>WARRANTY</b>	Eaton Selling Policy 25-000, one (1) year from the date of installation of the Product or eighteen (18) months from the date of shipment of the Product, whichever occurs first.
<b>COMPLIANCES</b>	RoHS Compliant
<b>CERTIFICATIONS</b>	IEC 60947-2 CCC Marked CSA UL 489
<b>PRODUCT TYPE</b>	Molded case circuit breaker



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## Delivery program

<b>AMPERAGE RATING</b>	50 A
<b>CIRCUIT BREAKER FRAME TYPE</b>	Complete breaker
<b>FRAME</b>	2
<b>NUMBER OF POLES</b>	Three-pole

## Technical data - Electrical

<b>VOLTAGE RATING</b>	600 Vac
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## Technical information

<b>INTERRUPT RATING</b>	35 kAIC at 480 Vac
<b>INTERRUPT RATING RANGE</b>	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)

## General information

<b>CIRCUIT BREAKER TYPE</b>	PD2 Global
<b>CLASS</b>	Class A
<b>TRIP TYPE</b>	T298

## Technical data - Mechanical - Terminals

<b>TERMINALS</b>	Standard Terminals Load Only
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## Resources

<b>3D CAD DRAWING PACKAGE</b>	<a href="#">Eaton Power Defense PDG23G0050TFLL 3D drawing</a>
<b>APPLICATION NOTES</b>	<a href="#">Consulting application guide - molded case circuit breakers</a> <a href="#">Power Defense brochure</a> <a href="#">Power Defense molded case circuit breaker selection poster</a>
<b>BROCHURES</b>	<a href="#">Power Defense technical selling booklet</a> <a href="#">Power Defense molded case circuit breakers - Frame 2 product aid</a>
<b>CATALOGS</b>	<a href="#">Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2</a> <a href="#">Power Defense Declaration concerning California's Proposition 65</a>
<b>CERTIFICATION REPORTS</b>	<a href="#">EU Declaration of Conformity - Power Defense molded case circuit breakers</a> <a href="#">PDG4 CB report</a> <a href="#">PDG4 CCC certification</a> <a href="#">PDG2 CB report</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">Power Defense Frame 2 clamp terminal (steel), 20A, 3 pole instructions - IL012246EN H03</a>

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

[Power Defense Frame 2 terminal kit - PDG2X3\(2\)\(4\)TA225RE 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 handle mech direct rotary handle instructions - IL012134EN](#)

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

[Power Defense Frame 2/3/4/5/6 voltage neutral sensor module wiring instructions - IL012316EN](#)

[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 terminal kit - PDG2X3\(2\)\(4\)TA150RE instructions - IL012244EN H01](#)

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

[Power Defense Frame 2 tunnel terminal kits - PDG2X1TA225K instructions - IL012239EN H01](#)

[Power Defense Frame 2 global terminal shield, 3 pole - IL012330EN](#)

[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 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 tunnel terminal \(aluminum\), 100A, 3 pole instructions - IL012237EN H03](#)

[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](#)

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

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## INSTALLATION VIDEOS

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

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	<a href="#">Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh</a> <a href="#">Power Defense Frame 2 withTMTU, Shunt Trip UVR Animated Instructions.rh</a> <a href="#">Power Defense Frame 2 Bell Alarm with PXR Animated Instructions.pdf.rh</a> <a href="#">Power Defense Frame 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh</a>
MULTIMEDIA	<a href="#">Power Defense Frame 2 Aux, Alarm, Shunt Trip, and UVR How-To Video</a> <a href="#">Power Defense Frame 2 Direct Rotary Handle Mechanism Installation How-To Video</a> <a href="#">Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video</a> <a href="#">Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video</a> <a href="#">Power Defense Frame 6 Trip Unit How-To Video</a> <a href="#">Power Defense Breakers</a> <a href="#">Power Defense molded case circuit breakers</a> <a href="#">Eaton Power Defense for superior arc flash safety</a> <a href="#">Power Defense Frame 5 Trip Unit How-To Video</a>
SPECIFICATIONS AND DATASHEETS	<a href="#">Eaton Specification Sheet - PDG23G0050TFFL</a>
TIME/CURRENT CURVES	<a href="#">Power Defense time current curve Frame 2 - PD2</a>
WHITE PAPERS	<a href="#">Making a better machine</a> <a href="#">Molded case and low-voltage power circuit breaker health</a>

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

[Intelligent circuit  
protection yields space  
savings](#)

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

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

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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