

Eaton PDG23M0050TFFJ

Catalog Number: PDG23M0050TFFJ

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 50A, 65kA/480V, T-M (Fxd-Fxd) TU, Standard Line and Load (PDG2X3T100)

Photo is representative



General specifications

Product Name

Eaton Power Defense molded case
circuit breaker

Catalog Number

PDG23M0050TFFJ

UPC

786679211151

Product Length/Depth

88.9 mm

Product Height

152.4 mm

Product Width

104.6 mm

Product Weight

4.01 lb

Warranty

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.

Compliances

Certifications

CCC Marked
IEC 60947-2
UL 489
CSA

Delivery program

Amperage Rating

50 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 Line and Load

Technical information

Interrupt rating

65 kAIC at 480 Vac

Interrupt rating range

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

22 kAIC Icu @125 Vdc

35 kAIC @600V (UL/CSA)

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

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

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

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

100 kAIC @240V (UL)

65 kAIC @480V (UL)

22 kAIC Icu @250 Vdc

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

Resources

3D CAD drawing package

Eaton Power Defense MCCB PDG23M0050TFFJ 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

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

[PDG4 CCC certification](#)

[PDG2 CB report](#)

[Power Defense Declaration concerning California's Proposition 65](#)

[PDG4 CB report](#)

Installation instructions

[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 clamp terminal \(steel\), 20A, 3 pole instructions - IL012246EN H03](#)

[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 tunnel terminal \(aluminum\), 150A, 3 pole instructions - IL012238EN H03](#)

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

[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 shunt trip UVR instructions - IL012130EN](#)

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

[Power Defense Frame 2 screw terminal_end cap kit, 225A, 3 pole instructions - IL012258EN H01](#)

[Power Defense Frame 2 handle mech direct rotary handle instructions -](#)

IL012134EN

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

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

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

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

Installation videos

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 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

Multimedia

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

Power Defense Frame 3 Variable Depth Rotary Handle Mechanism
Installation 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 Breakers

Power Defense Frame 6 Trip Unit How-To Video

Power Defense Frame 5 Trip Unit How-To Video

Power Defense molded case circuit breakers

Specifications and datasheets

Eaton Specification Sheet - PDG23M0050TFFJ

Time/current curves

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

Power Defense time current curve Frame 2 - PD2

White papers

Molded case and low-voltage power circuit breaker health

Single and double break MCCB performance revisited

Making a better machine

Intelligent circuit protection yields space savings

Safer by design: arc energy reduction techniques

Molded case and low-voltage breaker health



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