

Eaton PDG23F0050TFFJ

Catalog Number: PDG23F0050TFFJ

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 50A, 25kA/480V, T-M (Fxd-Fxd) TU, Standard Line and Load (PDG2X3T100)

General specifications

Product Name

Eaton Power Defense molded case circuit breaker

Catalog Number

PDG23F0050TFFJ

Model Code

PDG23F0050TFFJ

UPC

786679243633

Product Length/Depth

88.9 mm

Product Height

152.4 mm

Product Width

104.6 mm

Product Weight

1.82 kg

Warranty

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.

Compliances

RoHS Compliant

Certifications

CSA CCC Marked UL 489 IEC 60947-2



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

25 kAIC at 480 Vac

Interrupt rating range

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

10 kAIC Icu @ 125 Vdc

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

35 kAIC @240V (UL)

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

14 kAIC @600V (UL/CSA)

25 kAIC @480V (UL)

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

10 kAIC Icu @250 Vdc

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

Resources

3D CAD drawing package

[Eaton Power Defense MCCB PDG23F0050TFFJ 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 CCC certification

PDG4 CB report

Power Defense Declaration concerning California's Proposition 65

PDG2 CB report

EU Declaration of Conformity - Power Defense molded case circuit breakers

Installation instructions

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

Power Defense Frame 2 tunnel terminal (aluminum), 100A, 3 pole instructions - IL012237EN H03

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

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

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

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 clamp terminal (steel), 20A, 3 pole instructions - IL012246EN H03

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

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

Power Defense Frame 1-2-3-4 IP door barrier assembly instructions - IL012278EN

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

Power Defense Frame 2 multi wire connector kit -

[PDG2X3\(2\)\(4\)TA2253W instructions - IL012243EN H01](#)

[Power Defense Frame 2 locking devices and handle block instructions - IL012149EN](#)

[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 Direct Rotary Handle Assy With Interlock Version Instructions \(IL012138EN\).pdf](#)

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

[Power Defense Frame 2 handle mech direct rotary handle instructions - IL012134EN](#)

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

Installation videos

[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](#)

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

[Power Defense Frame 2 Locking Devices and Handle Block 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 molded case circuit breakers](#)

[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](#)

Specifications and datasheets

[Eaton Specification Sheet - PDG23F0050TFFJ](#)

[Time/current curves](#)

Power Defense time current curve Frame 2 - PD2

White papers

Single and double break MCCB performance revisited

Molded case and low-voltage power circuit breaker health

Making a better machine

Intelligent circuit protection yields space savings

Molded case and low-voltage breaker health

Safer by design: arc energy reduction techniques



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