

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

PRODUCT NAME	Eaton Power Defense molded case circuit breaker
CATALOG NUMBER	PDG23G0050TFFL
UPC	786679911525
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	IEC 60947-2 CCC Marked CSA UL 489
PRODUCT TYPE	Molded case circuit breaker



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Delivery program

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

Technical data - Electrical

VOLTAGE RATING	600 Vac
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Technical information

INTERRUPT RATING	35 kAIC at 480 Vac
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)

General information

CIRCUIT BREAKER TYPE	PD2 Global
CLASS	Class A
TRIP TYPE	T298

Technical data - Mechanical - Terminals

TERMINALS	Standard Terminals Load Only
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Resources

3D CAD DRAWING PACKAGE	Eaton Power Defense PDG23G0050TFFL 3D drawing
APPLICATION NOTES	Consulting application guide - molded case circuit breakers
BROCHURES	Power Defense molded case circuit breaker selection poster Power Defense technical selling booklet Power Defense brochure Power Defense molded case circuit breakers - Frame 2 product aid
CATALOGS	Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2
CERTIFICATION REPORTS	Power Defense Declaration concerning California's Proposition 65 EU Declaration of Conformity - Power Defense molded case circuit breakers PDG4 CCC certification PDG2 CB report PDG4 CB report
INSTALLATION INSTRUCTIONS	Power Defense Frame 2/3/4/5/6 voltage neutral sensor module wiring instructions - IL012316EN

[Power Defense Frame 2 shunt trip UVR instructions - IL012130EN](#)

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

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

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

[Power Defense Frame 2 terminal kit - PDG2X3\(2\)\(4\)TA150RF instructions - IL012244EN 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 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 1-2-3-4 IP door barrier assembly instructions - IL012278EN](#)

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

[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 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 tunnel terminal \(aluminum\), 50A, 3 pole instructions - IL012236EN H03](#)

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

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

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

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

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

[Power Defense Frame 2 Bell Alarm with PXR Animated Instructions.pdf.rh](#)

INSTALLATION VIDEOS

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

	Power Defense Frame 2 with TMTU, Shunt Trip UVR Animated Instructions.rh
	Power Defense Frame 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh
	Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh
MULTIMEDIA	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 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 5 Trip Unit How-To Video
	Power Defense Breakers
	Power Defense molded case circuit breakers
	Eaton Power Defense for superior arc flash safety
	Power Defense Frame 6 Trip Unit How-To Video
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - PDG23G0050TFFL
TIME/CURRENT CURVES	Power Defense time current curve Frame 2 - PD2
WHITE PAPERS	Making a better machine
	Intelligent circuit protection yields space savings
	Molded case and low-voltage power circuit breaker health

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

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

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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PRODUCT TYPE	Molded case circuit breaker



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Delivery program

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

Technical data - Electrical

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CLASS	Class A
TRIP TYPE	T298

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TERMINALS	Standard Terminals Load Only
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[Safer by design: arc energy
reduction techniques](#)

PROJECT NAME:

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