

Specifications



Photo is representative



Eaton PDG23G0090TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 90A, 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	PDG23G0090TFFL
UPC	786679912096
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 IEC 60947-2 CCC Marked UL 489
PRODUCT TYPE	Molded case circuit breaker

Delivery program

AMPERAGE RATING	90 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	10 kAIC Icu @250 Vdc 20 kAIC Icu/ 15/13 kAIC Ics/ 42 kAIC Icm @525V South Africa (IEC) 36 kAIC Icu/ 36 kAIC Ics/ 75.6 kAIC Icm @380-415V (IEC) 10 kAIC Icu @125 Vdc 65 kAIC @240V (UL) 18 kAIC @600V (UL/CSA) 25 kAIC Icu/ 20 kAIC Ics/ 52.5 kAIC Icm @480V Brazil (IEC) 35 kAIC @480V (UL) 30 kAIC Icu/ 22.5 kAIC Ics/ 63 kAIC Icm @440V (IEC) 55 kAIC Icu/ 55 kAIC Ics/ 121 kAIC Icm @240V (IEC) 8 kAIC Icu/ 4 kAIC Ics/ 16.8 kAIC Icm @690V (IEC)

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 PDG23G0090TFFL 3D drawing
APPLICATION NOTES	Consulting application guide - molded case circuit breakers Power Defense technical selling booklet Power Defense molded case circuit breaker selection poster Power Defense brochure Power Defense molded case circuit breakers - Frame 2 product aid
CATALOGS	Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2 Power Defense Declaration concerning California's Proposition 65
CERTIFICATION REPORTS	EU Declaration of Conformity - Power Defense molded case circuit breakers PDG2 CB report PDG4 CB report PDG4 CCC certification
INSTALLATION INSTRUCTIONS	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 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
global terminal shield, 3
pole - IL012330EN](#)

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

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

[Power Defense Frame 2
tunnel terminal
\(aluminum\), 50A, 3 pole
instructions - IL012236EN
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[Power Defense Frame 2
handle mech direct rotary
handle instructions -
IL012134EN](#)

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

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multi wire connector kit -
PDG2X3\(2\)\(4\)TA2253W
instructions - IL012243EN
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[Power Defense Frame 2
box terminal \(aluminum\),
225A, 3 pole instructions -
IL012235EN 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
box terminal \(steel\), 100A,
3 pole instructions -
IL012234EN H03](#)

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

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

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

[Power Defense Frame 2
terminal kit -
PDG2X3\(2\)\(4\)TA225RF
instructions - IL012245EN
H01](#)

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

INSTALLATION VIDEOS

[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 Locking Devices and Handle Block Animated Instructions.pdf.rh Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh
MULTIMEDIA	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 2 Direct Rotary Handle Mechanism Installation How-To Video Eaton Power Defense for superior arc flash safety Power Defense molded case circuit breakers Power Defense Frame 6 Trip Unit How-To Video Power Defense Breakers Power Defense Frame 5 Trip Unit How-To Video
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - PDG23G0090TFFL
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](#)

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

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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Eaton PDG23G0090TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 90A, 35kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X3T100)

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COMPLIANCES	RoHS Compliant
CERTIFICATIONS	CSA IEC 60947-2 CCC Marked UL 489
PRODUCT TYPE	Molded case circuit breaker

Delivery program

AMPERAGE RATING	90 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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CLASS	Class A
TRIP TYPE	T298

Technical data - Mechanical - Terminals

TERMINALS	Standard Terminals Load Only
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