

Specifications

Photo is representative

Eaton PDG33M0250MSAJ

Eaton Power Defense motor circuit protector, Globally Rated, Frame 3 Motor Circuit Protector, Three Pole, 250A, 65kA/480V, Adjustable Instantaneous Standard Calibrations, Standard Line and Load

General specifications

PRODUCT NAME	Eaton Power Defense motor circuit protector
CATALOG NUMBER	PDG33M0250MSAJ
UPC	786679380307
PRODUCT LENGTH/DEPTH	109.1 mm
PRODUCT HEIGHT	257.1 mm
PRODUCT WIDTH	138.9 mm
PRODUCT WEIGHT	5.61 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

Delivery program

AMPERAGE RATING	250 A
FRAME	3
NUMBER OF POLES	Three-pole

Technical data - Electrical

VOLTAGE RATING	600 Vac
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Technical data - Mechanical - Terminals

TERMINALS	Standard Line and Load
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General information

CIRCUIT BREAKER TYPE	PD3 Global
CLASS	Class A

Technical data - Mechanical

SWITCH OFF TECHNIQUE	Thermomagnetic
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Technical information

INTERRUPT RATING	65 kAIC at 480 Vac
	22 kAIC Icu at 250 Vdc 65 kAIC at 480 V (UL) 100 kAIC at 240 V (UL) 30 kAIC Icu/15 kAIC Ics/63 kAIC Icm at 525 V South Africa (IEC) 70 kAIC Icu/53 kAIC Ics/154 kAIC Icm at 380-415 V (IEC)
INTERRUPT RATING RANGE	100 kAIC Icu/100 kAIC Ics/220 kAIC Icm at 240 V (IEC) 15 kAIC Icu/7.5 kAIC Ics/31.5 kAIC Icm at 690 V (IEC) 50 kAIC Icu/30 kAIC Ics/105 kAIC Icm at 480 V Brazil (IEC) 35 kAIC at 600 V (UL/CSA) 50 kAIC Icu/40 kAIC Ics/105 kAIC Icm at 440 V (IEC)

Resources

3D CAD DRAWING PACKAGE

[Eaton Power Defense MCCB PDG33M0250MSAJ 3D drawing](#)

APPLICATION NOTES

[Consulting application guide - molded case circuit breakers](#)

BROCHURES

[StrandAble terminals product aid](#)

[Power Defense technical selling booklet](#)

[Power Defense molded case circuit breaker selection poster](#)

[Power Defense brochure](#)

CATALOGS

[Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2](#)

CERTIFICATION REPORTS

[PDG3B 450A-600A CB report](#)

[PDG3 45-400A CB report](#)

[PDG3 UL authorization 100-400a](#)

[PDG3 UL authorization 250-600a TMTU](#)

[PDG3 CSA certification 250-600a](#)

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

[PDG3 CSA certification 100-400a](#)

INSTALLATION INSTRUCTIONS

[Power Defense Frame 3 Aux, Alarm, ST and UVR Animated Instructions.rh](#)

[Power Defense Frame 3 screw terminal end cap kit, 400A, 3 pole – IL012262EN](#)

[Power Defense Frame 3 screw terminal end cap kit 600A, 3 pole - IL012264EN](#)

[Power Defense Frame 3
interphase barrier -
IL012229EN H03](#)

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

[Power Defense Frame 4
locking devices and handle
block instructions -
IL012151EN](#)

[Power Defense Frame 3
trip unit replacement
instructions - IL012157EN](#)

[Power Defense Frame 3
box terminal installation
instructions - IL012299EN](#)

[Power Defense Frame 3
finger protection assembly
installation instructions -
IL012279EN](#)

[Power Defense Frame 3
multi wire connector kit -
PDG3X3\(2\)\(4\)TA4006W and
PDG3X3\(2\)\(4\)TA4003W
instructions- IL012247EN
H01](#)

[Power Defense Frame 3
rear connection
installation instructions -
IL012300EN](#)

[Power Defense Frame 3
reverse feed connector kit
Cat Num
PDG3X3\(2\)\(4\)TA400HRE
instructions - IL012252EN](#)

[Power Defense Frame 3
reverse feed connector kit
Cat Num
PDG3X3\(2\)\(4\)TA630RF
instructions - IL012253EN](#)

[Power Defense Frame 3
terminal cover assembly
instructions - IL012281EN](#)

[Power Defense Frame 3
terminal kit Cat Num
PDG3X3\(2\)\(4\)TA400RF
instructions - IL012251EN](#)

[Power Defense Frame 3
extendable shaft rotary
handle mech - IL012112EN](#)

[Power Defense Frame 3
plug-in adapter installation
instructions - IL012311EN](#)

[Power Defense Frame 3
handle mech direct rotary
handle instructions -
IL012111EN](#)

[Power Defense Frame 3
shunt trip UVR instructions
- IL012140EN](#)

[Power Defense Frame 3
locking devices and handle
block instructions -
IL012150EN](#)

[Power Defense Frame 3
Direct Rotary Handle Assy
With Interlock Version
Instructions
\(IL012139EN\).pdf](#)

[Power Defense Frame 3
terminal spreader
assembly instructions -
IL012301EN](#)

[Power Defense Frame 3
multi-tap terminal kit Cat
Num
PDG3X3\(2\)\(4\)TA6006W
Instructions - IL012248EN](#)

[Power Defense Frame 4
reverse feed connector kit
instructions for
PDG4X3\(2\)\(4\)TA800RF
instructions - IL012254EN](#)

[Power Defense Frame 3
Breaker Instructions
\(IL012107EN\).pdf](#)

[Power Defense Frame 3
adapter kit installation
instructions LZM3 to PD3 -
IL012227EN](#)

[Power Defense Frame 4
shunt trip UVR instructions
- IL012129EN](#)

[Power Defense Frame 3
interphase barriers 3-pole
- IL012229EN H01](#)

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

[Power Defense Frame 3
multi-tap terminal kit Cat
Num
PDG3X3\(2\)\(4\)TA6006WSW
instructions - IL012250EN](#)

INSTALLATION VIDEOS

[Power Defense Frame 3
Locking Devices and
Handle Block Animated
Instructions.pdf.rh](#)

[Power Defense Frame 3
Shunt Trip UVR Animated
Instructions.pdf.rh](#)

[Power Defense Frame 3
trip unit replacement
animated instructions.rh](#)

[Power Defense Frame 3
Handle Mech Direct Rotary
Handle Animated
Instructions.rh](#)

[Power Defense Frame 3
Handle Mech Variable
Depth Rotary Handle
Animated Instructions.rh](#)

MULTIMEDIA

[Power Defense Frame 3
Aux, Alarm, Shunt Trip,
and UVR How-To Video](#)

[Power Defense Frame 3
Direct Rotary Handle
Mechanism Installation
How-To Video](#)

[Power Defense Frame 3
Trip Unit Installation How-
To Video](#)

[Eaton Power Defense for
superior arc flash safety](#)

[Power Defense Breakers](#)

[Power Defense molded
case circuit breakers](#)

[Power Defense Frame 6
Trip Unit 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 5 Trip Unit How-To Video
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - PDG33M0250MSAJ
TIME/CURRENT CURVES	Power Defense time current curves MCP Motor Circuit Protection – PD1, PD2, PD3 Power Defense time current curve Frame 3 - PD3
	Implementation of arc flash mitigating solutions at industrial manufacturing facilities Molded case and low-voltage power circuit breaker health Intelligent power starts with accurate, actionable data
WHITE PAPERS	Making a better machine Single and double break MCCB performance revisited 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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