

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
PRODUCT TYPE	Motor circuit protector

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 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)

General information

CIRCUIT BREAKER TYPE	PD3 Global
CLASS	Class A

Technical data - Mechanical - Terminals

TERMINALS	Standard Line and Load
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Resources

3D CAD DRAWING PACKAGE	Eaton Power Defense MCCB PDG33M0250MSAJ 3D drawing
APPLICATION NOTES	Consulting application guide - molded case circuit breakers
	StrandAble terminals product aid
BROCHURES	Power Defense molded case circuit breaker selection poster
	Power Defense technical selling booklet
	Power Defense brochure
CATALOGS	Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2
	PDG3 CSA certification 100-400a
	PDG3 45-400A CB report
	PDG3 UL authorization 100-400a
CERTIFICATION REPORTS	EU Declaration of Conformity - Power Defense molded case circuit breakers
	PDG3 UL authorization 250-600a TMTU
	PDG3 CSA certification 250-600a
	PDG3B 450A-600A CB report
INSTALLATION INSTRUCTIONS	Power Defense Frame 3 handle mech direct rotary handle instructions - IL012111EN

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

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

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

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

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

[Power Defense Frame 3
reverse feed connector kit
Cat Num
PDG3X3\(2\)\(4\)TA400HRE
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[Power Defense Frame 3
interphase barrier -
IL012229EN H03](#)

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

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locking devices and handle
block instructions -
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[Power Defense Frame 3
rear connection
installation instructions -
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[Power Defense Frame 3
interphase barriers 3-pole
- IL012229EN H01](#)

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

[Power Defense Frame 4
reverse feed connector kit
instructions for
PDG4X3\(2\)\(4\)TA800RE
instructions - IL012254EN](#)

[Power Defense Frame 3
multi-tap terminal kit Cat
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PDG3X3\(2\)\(4\)TA6006W
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2/3/4/5/6 voltage neutral
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PDG3X3\(2\)\(4\)TA400RE
instructions - IL012251EN](#)

	Power Defense Frame 3 multi wire connector kit - PDG3X3(2)(4)TA4006W and PDG3X3(2)(4)TA4003W instructions- IL012247EN H01 Power Defense Frame 3 trip unit replacement instructions - IL012157EN Power Defense Frame 3 multi-tap terminal kit Cat Num PDG3X3(2)(4)TA6006WSW instructions - IL012250EN
INSTALLATION VIDEOS	Power Defense Frame 3 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh Power Defense Frame 3 Shunt Trip UVR Animated Instructions.pdf.rh Power Defense Frame 3 Handle Mech Direct Rotary Handle Animated Instructions.rh Power Defense Frame 3 trip unit replacement animated instructions.rh Power Defense Frame 3 Locking Devices and Handle Block Animated Instructions.pdf.rh
MULTIMEDIA	Power Defense Frame 3 Direct Rotary Handle Mechanism Installation How-To Video Power Defense Frame 3 Trip Unit Installation How-To Video Power Defense Frame 3 Aux, Alarm, Shunt Trip, and UVR How-To Video Power Defense Frame 6 Trip Unit How-To Video Power Defense molded case circuit breakers Eaton Power Defense for superior arc flash safety

	Power Defense Frame 5 Trip Unit How-To Video Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video Power Defense Breakers Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - PDG33M0250MSAJ
TIME/CURRENT CURVES	Power Defense time current curve Frame 3 - PD3 Power Defense time current curves MCP Motor Circuit Protection – PD1, PD2, PD3
WHITE PAPERS	Making a better machine Intelligent power starts with accurate, actionable data Implementation of arc flash mitigating solutions at industrial manufacturing facilities Intelligent circuit protection yields space savings Molded case and low-voltage power circuit breaker health Single and double break MCCB performance revisited 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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CLASS	Class A

Technical data - Mechanical - Terminals

TERMINALS	Standard Line and Load
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PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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