

Specifications



Photo is representative



Eaton PDG53K1200E2MN

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 5, Three Pole, 1200A, 50kA/480V, PXR20 LSI w/ Modbus RTU and Relays, No Terminals

General specifications

PRODUCT NAME	Eaton Power Defense molded case circuit breaker
CATALOG NUMBER	PDG53K1200E2MN
UPC	786679213360
PRODUCT LENGTH/DEPTH	139.7 mm
PRODUCT HEIGHT	406.4 mm
PRODUCT WIDTH	209.5 mm
PRODUCT WEIGHT	21.32 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	UL 489 CSA CCC Marked IEC 60947-2
PRODUCT TYPE	Molded case circuit breaker

Delivery program

AMPERAGE RATING	1200 A
CIRCUIT BREAKER FRAME TYPE	Complete breaker
FRAME	5
NUMBER OF POLES	Three-pole

Other

COMMUNICATION	Modbus RTU
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Technical data - Mechanical - Terminals

TERMINALS	No Terminals
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General information

CIRCUIT BREAKER TYPE	PD5 Global
CLASS	Class A
TRIP TYPE	T283

Technical data - Electrical

VOLTAGE RATING	600 Vac
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Technical information

INTERRUPT RATING	50 kAIC at 480 Vac
INTERRUPT RATING RANGE	25 kAIC Icu/ 20 kAIC Ics/ 52.5 kAIC Icm @525V South Africa (IEC) 10 kAIC Icu/ 5 kAIC Ics/ 21 kAIC Icm @690V (IEC) 85 kAIC @240V (UL) 50 kAIC @480/277V (UL) 85 kAIC Icu/ 85 kAIC Ics/ 187 kAIC Icm @240V (IEC) 25 kAIC @600/347V (UL) 35 kAIC Icu/ 22.5 kAIC Ics/ 73.5 kAIC Icm @480V Brazil (IEC) 35 kAIC Icu/ 35 kAIC Ics/ 73.5 kAIC Icm @440V (IEC) 50 kAIC Icu/ 50 kAIC Ics/ 105 kAIC Icm @380-415V (IEC)
TRIP RATING	1200 A

Resources

3D CAD DRAWING
PACKAGE

[Eaton Power Defense
MCCB PDG53K1200E2MN
3D drawing](#)

APPLICATION NOTES

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

[Power Xpert Protection
Manager x64](#)

BROCHURES

[StrandAble terminals
product aid](#)

[Power Defense brochure](#)

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

[Power Defense technical
selling booklet](#)

CATALOGS

[Power Defense molded
case circuit breakers -
Frame 5 product aid](#)

[Power Xpert Release trip
units for Power Defense
molded case circuit
breakers](#)

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

CERTIFICATION REPORTS

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

[PDG6 CSA certification](#)

[PDG5 CB report](#)

[PDG5 CSA Certification](#)

[PDG5 CCC certification](#)

[PDG5 UL authorization](#)

[Power Defense
Declaration concerning
California's Proposition 65](#)

[PDG6 CCC certificate](#)

INSTALLATION
INSTRUCTIONS

[Power Defense Frame 5
aux, alarm, shunt trip and
uvr instructions
\(IL012201EN\).pdf](#)

[Power Defense Frame 5
vertical padlockable
handle lock hasp
installation instructions -
IL012283EN](#)

[Power Defense Frame
4 5 6 high performance
flex shaft handle mech
assembly instructions -
IL012296EN](#)

[Power Defense Frame 4 5
flex shaft handle mech
assembly instructions -
IL012284EN](#)

[Power Defense Frame 5
breaker status module
installation instructions -
IL012307EN](#)

[Power Defense Frame 5
walking beam installation
instructions - IL012290EN](#)

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

[Power Defense Frame 5
interphase barrier kit 3
pole installation
instructions - IL012293EN](#)

[Power Defense Frame 5
key interlock installation
instructions - IL012294EN](#)

[Power Defense Frame 5
Aux, Alarm, ST and UVR
Animated Instructions.rh1](#)

[Power Defense Frame 5
Trip Unit Replacement
Animated Instructions](#)

INSTALLATION VIDEOS

[Power Defense Frame 5
Trip Unit Upgrade Relays
Board, Animated
Instructions.rh](#)

[Power Defense Frame 5
UVR Trip How-To Video](#)

[Power Defense Frame 5
Shunt Trip, Aux and Alarm
Trip How-To Video](#)

	Power Defense Frame 5 Trip Unit Upgrade Wire Harnesses, Animated Instructions.rh
MULTIMEDIA	Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video Power Defense Frame 5 Trip Unit How-To Video Power Defense molded case circuit breakers Eaton Power Defense for superior arc flash safety Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video Power Defense Breakers Power Defense Frame 6 Trip Unit How-To Video
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - PDG53K1200E2MN
TIME/CURRENT CURVES	Power Defense time current curve Frame 5 - PD5
WHITE PAPERS	Intelligent circuit protection yields space savings Implementation of arc flash mitigating solutions at industrial manufacturing facilities Single and double break MCCB performance revisited Making a better machine Intelligent power starts with accurate, actionable data Molded case and low-voltage power circuit breaker health 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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