

Specifications

Photo is representative

Eaton PDG13P0045VFFN

Eaton Power Defense Globally Rated, Frame 1, Three Pole, 45A, 100kA/480V, 50C Cal T-M (Fxd-Fxd) TU , No Terminals

General specifications

PRODUCT NAME	Eaton Power Defense molded case circuit breaker
CATALOG NUMBER	PDG13P0045VFFN
UPC	786689286385
PRODUCT LENGTH/DEPTH	76 mm
PRODUCT HEIGHT	139.7 mm
PRODUCT WIDTH	76.2 mm
PRODUCT WEIGHT	1.04 kg
COMPLIANCES	RoHS Compliant

Delivery program

AMPERAGE RATING	45 A
CIRCUIT BREAKER FRAME TYPE	Complete breaker
FRAME	1
NUMBER OF POLES	Three-pole

Other

CALIBRATION	50C Calibration
--------------------	-----------------

Technical data - Mechanical - Terminals

TERMINALS	No Terminals
------------------	--------------

General information

CIRCUIT BREAKER TYPE	PD1 Global
CLASS	Class A
SERIES	Power Defense
TRIP TYPE	T298

Technical data - Electrical

VOLTAGE RATING	600 Vac
-----------------------	---------

Technical information

INTERRUPT RATING	100 kAIC at 480 Vac
INTERRUPT RATING RANGE	100 kAIC Icu/ 50 kAIC Ics/ 220 kAIC Icm @440V (IEC) 40 kAIC Icu/ 25 kAIC Ics/ 84 kAIC Icm @525V South Africa (IEC) 85 kAIC Icu/ 40 kAIC Ics/ 187 kAIC Icm @480V Brazil (IEC) 200 kAIC Icu/ 150 kAIC Ics/ 440 kAIC Icm @240V (IEC) 35 kAIC Icu/ 18 kAIC Ics/ 73.5 kAIC Icm @690V (IEC) 200 kAIC @240V (UL) 100 kAIC @480/277V (UL) 65 kAIC @600/347V (UL) 100 kAIC Icu/ 50 kAIC Ics/ 220 kAIC Icm @380-415V (IEC)

Resources

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 1 product aid](#)

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

CERTIFICATION REPORTS [EU Declaration of Conformity - Power Defense molded case circuit breakers](#)
[Power Defense Declaration concerning California's Proposition 65](#)

INSTALLATION INSTRUCTIONS [Power Defense Frame 1 UL global handle block non padlockable - IL012177EN](#)
[Power Defense Frame 1 UL global tunnel terminal \(aluminum\) 125A 3P - IL012166EN H03](#)
[Power Defense Frame 1-2-3-4 IP door barrier assembly instructions - IL012278EN](#)
[Power Defense Frame 1 UL global terminal shield cover IP30 3P - IL012174EN](#)
[Power Defense Frame 1 UL global DIN rail adapter metal three pole - IL012187EN](#)
[Power Defense Frame 1 UL global screw terminal end cap kit 125A 3P - IL012163EN](#)

[Power Defense Frame 1](#)
[UL global screw terminal](#)
[end cap kit metric 125A 3P](#)
[- IL012171EN](#)

[Power Defense Frame 1](#)
[UL global handle block](#)
[padlockable - IL012178EN](#)

[Power Defense Frame 1](#)
[Instructions - IL012152EN](#)

[Power Defense Frame 1](#)
[UL global box terminal](#)
[\(steel\) 125A 3P -](#)
[IL012165EN H03](#)

[Power Defense Frame 1](#)
[UL global interphase](#)
[barrier - IL012176EN](#)

[Power Defense](#)
[padlockable handle lock](#)
[hasp top off only](#)
[installation instructions -](#)
[IL012226EN](#)

[Power Defense Frame 1](#)
[UL global DIN rail adapter](#)
[three or four pole -](#)
[IL012186EN](#)

[Power Defense Frame 1](#)
[UL global interphase](#)
[barrier instructions -](#)
[IL012313EN](#)

[Power Defense Frame 1](#)
[UL Global variable depth](#)
[rotary handle mech](#)
[installation instructions -](#)
[IL012308EN](#)

[Power Defense Frame 1](#)
[UL global Padlockable](#)
[Handle Lock Hasp -](#)
[IL012225EN](#)

[Power Defense Frame 1](#)
[UL global DIN rail adapter](#)
[2, 3, 4-pole - IL012185EN](#)

[Power Defense Frame 1](#)
[UL global handle block](#)
[padlockable off only -](#)
[IL012179EN](#)

[Power Defense Frame 1](#)
[UL global lock padlockable](#)
[handle hasp IL012180EN](#)

INSTALLATION VIDEOS	Power Defense Frame 1 UL Global Aux, Alarm, ST and UVR Animated Instructions.rh
	Eaton Power Defense for superior arc flash safety Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video Power Defense Frame 5 Trip Unit How-To Video
MULTIMEDIA	Power Defense Frame 1 Aux, Alarm, and Shunt Trip How-To Video Power Defense molded case circuit breakers Power Defense Frame 6 Trip Unit 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 - PDG13P0045VFFN
TIME/CURRENT CURVES	Power Defense time current curve Frame 1 - PDG1
WARRANTY GUIDES	Selling Policy 25-000 - Distribution and Control Products and Services
WHITE PAPERS	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:



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

