

# Specifications

Photo is representative

Eaton

## PDG33M0400MSAN

Eaton Power Defense motor protection circuit breaker, Globally Rated, Frame 3, Three Pole, 400A, 65kA/480V, Motor protection, Standard Calibration, Adjustable, No Terminals

### General specifications

|                             |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Power Defense motor protection circuit breaker                                                                                                                             |
| <b>CATALOG NUMBER</b>       | PDG33M0400MSAN                                                                                                                                                                   |
| <b>UPC</b>                  | 786679491188                                                                                                                                                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 109.1 mm                                                                                                                                                                         |
| <b>PRODUCT HEIGHT</b>       | 257.1 mm                                                                                                                                                                         |
| <b>PRODUCT WIDTH</b>        | 138.9 mm                                                                                                                                                                         |
| <b>PRODUCT WEIGHT</b>       | 5.61 kg                                                                                                                                                                          |
| <b>WARRANTY</b>             | 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. |
| <b>COMPLIANCES</b>          | RoHS Compliant                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | UL 489<br>CCC Marked<br>IEC 60947-2<br>CSA                                                                                                                                       |



Powering Business Worldwide

## Delivery program

|                        |            |
|------------------------|------------|
| <b>AMPERAGE RATING</b> | 400 A      |
| <b>FRAME</b>           | 3          |
| <b>NUMBER OF POLES</b> | Three-pole |

## Technical data - Electrical

|                       |         |
|-----------------------|---------|
| <b>VOLTAGE RATING</b> | 600 Vac |
|-----------------------|---------|

## Technical data - Mechanical - Terminals

|                  |              |
|------------------|--------------|
| <b>TERMINALS</b> | No Terminals |
|------------------|--------------|

## General information

|                             |            |
|-----------------------------|------------|
| <b>CIRCUIT BREAKER TYPE</b> | PD3 Global |
| <b>CLASS</b>                | Class A    |

## Technical data - Mechanical

|                             |                |
|-----------------------------|----------------|
| <b>SWITCH OFF TECHNIQUE</b> | Thermomagnetic |
|-----------------------------|----------------|

## Technical information

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <b>INTERRUPT RATING</b>       | 65 kAIC at 480 Vac                               |
| <b>INTERRUPT RATING RANGE</b> | 22 kAIC Icu at 250 Vdc<br>100 kAIC at 240 V (UL) |

## Resources

3D CAD DRAWING  
PACKAGE

[Eaton Power Defense  
MCCB PDG33M0400MSAN  
3D drawing](#)

APPLICATION NOTES

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

BROCHURES

[StrandAble terminals  
product aid](#)

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

[Power Defense brochure](#)

[Power Defense technical  
selling booklet](#)

CATALOGS

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

CERTIFICATION REPORTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[Power Defense Frame 3  
terminal kit Cat Num  
PDG3X3\(2\)\(4\)TA400RE  
instructions - IL012251EN](#)

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

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

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

[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\(2\)\(4\)TA630RE  
instructions - IL012253EN](#)

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

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

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

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

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

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

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

[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](#)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <a href="#">Power Defense Frame 3<br/>box terminal installation<br/>instructions - IL012299EN</a><br><br><a href="#">Power Defense Frame 3<br/>trip unit replacement<br/>instructions - IL012157EN</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| INSTALLATION VIDEOS | <a href="#">Power Defense Frame 3<br/>Handle Mech Direct Rotary<br/>Handle Animated<br/>Instructions.rh</a><br><br><a href="#">Power Defense Frame 3<br/>trip unit replacement<br/>animated instructions.rh</a><br><br><a href="#">Power Defense Frame 3<br/>Locking Devices and<br/>Handle Block Animated<br/>Instructions.pdf.rh</a><br><br><a href="#">Power Defense Frame 3<br/>Handle Mech Variable<br/>Depth Rotary Handle<br/>Animated Instructions.rh</a><br><br><a href="#">Power Defense Frame 3<br/>Shunt Trip UVR Animated<br/>Instructions.pdf.rh</a>                                                                                                                                                                                                                |
| MULTIMEDIA          | <a href="#">Power Defense Frame 3<br/>Direct Rotary Handle<br/>Mechanism Installation<br/>How-To Video</a><br><br><a href="#">Power Defense Frame 3<br/>Trip Unit Installation How-<br/>To Video</a><br><br><a href="#">Power Defense Frame 3<br/>Aux, Alarm, Shunt Trip,<br/>and UVR How-To Video</a><br><br><a href="#">Power Defense Frame 6<br/>Trip Unit How-To Video</a><br><br><a href="#">Power Defense molded<br/>case circuit breakers</a><br><br><a href="#">Eaton Power Defense for<br/>superior arc flash safety</a><br><br><a href="#">Power Defense Frame 3<br/>Variable Depth Rotary<br/>Handle Mechanism<br/>Installation How-To Video</a><br><br><a href="#">Power Defense Breakers</a><br><br><a href="#">Power Defense Frame 5<br/>Trip Unit How-To Video</a> |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <a href="#">Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - PDG33M0400MSAN</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| TIME/CURRENT CURVES           | <a href="#">Power Defense time current curves MCP Motor Circuit Protection – PD1, PD2, PD3</a><br><a href="#">Power Defense time current curve Frame 3 - PD3</a>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| WHITE PAPERS                  | <a href="#">Molded case and low-voltage power circuit breaker health</a><br><a href="#">Intelligent power starts with accurate, actionable data</a><br><a href="#">Intelligent circuit protection yields space savings</a><br><a href="#">Making a better machine</a><br><a href="#">Implementation of arc flash mitigating solutions at industrial manufacturing facilities</a><br><a href="#">Single and double break MCCB performance revisited</a><br><a href="#">Molded case and low-voltage breaker health</a><br><a href="#">Safer by design: arc energy reduction techniques</a> |

**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**



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