

# Specifications

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## Eaton PDG23M0040TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 40A, 65kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X3T100)

### General specifications

|                             |  |
|-----------------------------|--|
| <b>PRODUCT NAME</b>         | Eaton Power Defense molded case circuit breaker  |
| <b>CATALOG NUMBER</b>       | PDG23M0040TFFL   |
| <b>UPC</b>                  | 786679862049   |
| <b>PRODUCT LENGTH/DEPTH</b> | 88.9 mm  |
| <b>PRODUCT HEIGHT</b>       | 152.4 mm   |
| <b>PRODUCT WIDTH</b>        | 104.6 mm   |
| <b>PRODUCT WEIGHT</b>       | 1.81890541 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>CSA<br>IEC 60947-2   |

### Delivery program

|                                   |                  |
|-----------------------------------|------------------|
| <b>AMPERAGE RATING</b>            | 40 A             |
| <b>CIRCUIT BREAKER FRAME TYPE</b> | Complete breaker |
| <b>FRAME</b>                      | 2                |
| <b>NUMBER OF POLES</b>            | Three-pole       |

### Technical data - Electrical

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

### General information

|                             |            |
|-----------------------------|------------|
| <b>CIRCUIT BREAKER TYPE</b> | PD2 Global |
| <b>CLASS</b>                | Class A    |
| <b>TRIP TYPE</b>            | T298       |

### Technical data - Mechanical - Terminals

|                  |                              |
|------------------|------------------------------|
| <b>TERMINALS</b> | Standard Terminals Load Only |
|------------------|------------------------------|

## Technical information

**INTERRUPT RATING** 65 kAIC at 480 Vac

22 kAIC Icu @250 Vdc  
100 kAIC @240V (UL)  
50 kAIC Icu/ 30 kAIC Ics/ 105  
kAIC Icm @480V Brazil (IEC)

### INTERRUPT RATING RANGE

65 kAIC @480V (UL)  
70 kAIC Icu/ 53 kAIC Ics/ 154  
kAIC Icm @380-415V (IEC)  
35 kAIC @600V (UL/CSA)  
100 kAIC Icu/ 100 kAIC Ics/  
220 kAIC Icm @240V (IEC)  
30/25 kAIC Icu/ 15/13 kAIC  
Ics @525V South Africa (IEC)  
50 kAIC Icu/ 40 kAIC Ics/ 105  
kAIC Icm @440V (IEC)  
10 kAIC Icu/ 5 kAIC Ics/ 21  
kAIC Icm @690V (IEC)  
22 kAIC Icu @125 Vdc

## Resources

### 3D CAD DRAWING PACKAGE

[Eaton Power Defense  
PDG23M0040TFFL 3D  
drawing](#)

### APPLICATION NOTES

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

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

[Power Defense brochure](#)

### BROCHURES

[Power Defense technical  
selling booklet](#)

[Power Defense molded case  
circuit breakers - Frame 2  
product aid](#)

### CATALOGS

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

[PDG2 CB report](#)

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

### CERTIFICATION REPORTS

[PDG4 CCC certification](#)

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

[PDG4 CB report](#)

### INSTALLATION INSTRUCTIONS

[Power Defense Frame 2 PDG2  
and PDC\(E\)9 breaker  
instructions - IL012106EN](#)

[Power Defense Frame 2 multi  
wire connector kit -  
PDG2X3\(2\)\(4\)TA2253W  
instructions - IL012243EN H01](#)

[Power Defense Frame 2 handle  
mech variable depth rotary  
handle instructions -  
IL012136EN](#)

[Power Defense Frame 2 Direct  
Rotary Handle Assy With  
Interlock Version Instructions  
\(IL012138EN\).pdf](#)

[Power Defense Frame 2  
terminal kit -  
PDG2X3\(2\)\(4\)TA225RF  
instructions - IL012245EN H01](#)

[Power Defense Frame 2 screw  
terminal end cap kit, 225A, 3  
pole instructions - IL012258EN  
H01](#)

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

[Power Defense Frame 2 box terminal \(aluminum\), 225A, 3 pole instructions - IL012235EN H03](#)

[Power Defense Frame 1 IEC and Frame 2 Rotary Mechanism with NFPA Handle Attachment Instructions \(IL012260EN\).pdf](#)

[Power Defense Frame 2 multi wire connector kit - PDG2X3\(2\)\(4\)TA2256W instructions - IL012242EN H01](#)

[Power Defense Frame 2 shunt trip UVR instructions - IL012130EN](#)

[Power Defense Frame 2 tunnel terminal \(aluminum\), 50A, 3 pole instructions - IL012236EN H03](#)

[Power Defense Frame 2 tunnel terminal kits - PDG2X1TA225K instructions- IL012239EN H01](#)

[Power Defense Frame 2 global terminal shield, 3 pole - IL012330EN](#)

[Power Defense Frame 2 tunnel terminal \(aluminum\), 150A, 3 pole instructions - IL012238EN H03](#)

[Power Defense Frame 2 locking devices and handle block instructions - IL012149EN](#)

[Power Defense Frame 2 clamp terminal \(steel\), 20A, 3 pole instructions - IL012246EN H03](#)

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

[Power Defense Frame 2 terminal kit - PDG2X3\(2\)\(4\)TA150RF instructions - IL012244EN H01](#)

[Power Defense Frame 2 tunnel terminal \(aluminum\), 100A, 3 pole instructions - IL012237EN H03](#)

[Power Defense Frame 2 motor circuit protector \(HMCP\) - IL012326EN](#)

[Power Defense Frame 2 box terminal \(steel\), 100A, 3 pole instructions - IL012234EN H03](#)

|                                      |   |
|--------------------------------------|---|
|                                      | <a href="#">Power Defense Frame 2 handle mech direct rotary handle instructions - IL012134EN</a>        |
|                                      | <a href="#">Power Defense Frame 2 withTMTU, Shunt Trip, UVR Animated Instructions.rh</a>                |
|                                      | <a href="#">Power Defense Frame 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh</a> |
| <b>INSTALLATION VIDEOS</b>           | <a href="#">Power Defense Frame 2 Bell Alarm with PXR Animated Instructions.pdf.rh</a>                  |
|                                      | <a href="#">Power Defense Frame 2 Locking Devices and Handle Block Animated Instructions.pdf.rh</a>     |
|                                      | <a href="#">Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh</a>              |
|                                      | <a href="#">Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>  |
|                                      | <a href="#">Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>  |
|                                      | <a href="#">Power Defense Frame 2 Direct Rotary Handle Mechanism Installation How-To Video</a>          |
| <b>MULTIMEDIA</b>                    | <a href="#">Power Defense Frame 2 Aux, Alarm, Shunt Trip, and UVR How-To Video</a>                      |
|                                      | <a href="#">Power Defense molded case circuit breakers</a>  |
|                                      | <a href="#">Eaton Power Defense for superior arc flash safety</a>                                       |
|                                      | <a href="#">Power Defense Breakers</a>  |
|                                      | <a href="#">Power Defense Frame 5 Trip Unit How-To Video</a>  |
|                                      | <a href="#">Power Defense Frame 6 Trip Unit How-To Video</a>  |
| <b>SPECIFICATIONS AND DATASHEETS</b> | <a href="#">Eaton Specification Sheet - PDG23M0040TFFL</a>  |
| <b>TIME/CURRENT CURVES</b>           | <a href="#">Power Defense time current curves MCP Motor Circuit Protection – PD1, PD2, PD3</a>          |
|                                      | <a href="#">Power Defense time current curve Frame 2 - PD2</a>  |
| <b>WHITE PAPERS</b>                  | <a href="#">Molded case and low-voltage power circuit breaker health</a>                                |
|                                      | <a href="#">Single and double break MCCB performance revisited</a>                                      |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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# Specifications

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## Eaton PDG23M0040TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 40A, 65kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X3T100)

### General specifications

|                             |  |
|-----------------------------|--|
| <b>PRODUCT NAME</b>         | Eaton Power Defense molded case circuit breaker  |
| <b>CATALOG NUMBER</b>       | PDG23M0040TFFL   |
| <b>UPC</b>                  | 786679862049   |
| <b>PRODUCT LENGTH/DEPTH</b> | 88.9 mm  |
| <b>PRODUCT HEIGHT</b>       | 152.4 mm   |
| <b>PRODUCT WIDTH</b>        | 104.6 mm   |
| <b>PRODUCT WEIGHT</b>       | 1.81890541 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>CSA<br>IEC 60947-2   |

### Delivery program

|                                   |                  |
|-----------------------------------|------------------|
| <b>AMPERAGE RATING</b>            | 40 A             |
| <b>CIRCUIT BREAKER FRAME TYPE</b> | Complete breaker |
| <b>FRAME</b>                      | 2                |
| <b>NUMBER OF POLES</b>            | Three-pole       |

### Technical data - Electrical

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

### General information

|                             |            |
|-----------------------------|------------|
| <b>CIRCUIT BREAKER TYPE</b> | PD2 Global |
| <b>CLASS</b>                | Class A    |
| <b>TRIP TYPE</b>            | T298       |

### Technical data - Mechanical - Terminals

|                  |                              |
|------------------|------------------------------|
| <b>TERMINALS</b> | Standard Terminals Load Only |
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## Technical information

**INTERRUPT RATING** 65 kAIC at 480 Vac

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[Power Defense brochure](#)

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[Power Defense technical selling booklet](#)

[Power Defense molded case circuit breakers - Frame 2 product aid](#)

### CATALOGS

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

[PDG2 CB report](#)

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

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**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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