

# Specifications

Photo is representative

## Eaton PDG23F0020TFFJ

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Three Pole, 20A, 25kA/480V, T-M (Fxd-Fxd) TU, Standard Line and Load (PDG2X3T100)



### General specifications

|                             |  |
|-----------------------------|--|
| <b>PRODUCT NAME</b>         | Eaton Power Defense molded case circuit breaker  |
| <b>CATALOG NUMBER</b>       | PDG23F0020TFFJ   |
| <b>UPC</b>                  | 786679282489   |
| <b>PRODUCT LENGTH/DEPTH</b> | 88.9 mm  |
| <b>PRODUCT HEIGHT</b>       | 146.05 mm  |
| <b>PRODUCT WIDTH</b>        | 104.6 mm   |
| <b>PRODUCT WEIGHT</b>       | 1.82 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>       | CCC Marked<br>IEC 60947-2<br>UL 489<br>CSA   |

### Delivery program

|                                   |                  |
|-----------------------------------|------------------|
| <b>AMPERAGE RATING</b>            | 20 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 Line and Load |
|------------------|------------------------|

## Technical information

|                               |  |
|-------------------------------|--|
| <b>INTERRUPT RATING</b>       | 25 kAIC at 480 Vac   |
| <b>INTERRUPT RATING RANGE</b> | 10 kAIC Icu @125 Vdc<br>35 kAIC Icu/ 35 kAIC Ics/ 73.5 kAIC Icm @240V (IEC)<br>25 kAIC Icu/ 25 kAIC Ics/ 52.5 kAIC Icm @380-415V (IEC)<br>10 kAIC Icu @250 Vdc<br>25 kAIC @480V (UL)<br>14 kAIC @600V (UL/CSA)<br>18 kAIC Icu/ 15/13 kAIC Ics/ 37.8 kAIC Icm @525V South Africa (IEC)<br>20 kAIC Icu/ 20 kAIC Ics/ 42 kAIC Icm @480V Brazil (IEC)<br><br>35 kAIC @240V (UL)<br>25 kAIC Icu/ 20 kAIC Ics/ 52.5 kAIC Icm @440V (IEC) |

## Resources

|                                  |  |
|----------------------------------|--|
| <b>3D CAD DRAWING PACKAGE</b>    | <a href="#">Eaton Power Defense MCCB PDG23F0020TFFJ 3D drawing</a>   |
| <b>APPLICATION NOTES</b>         | <a href="#">Consulting application guide - molded case circuit breakers</a><br><br><a href="#">Power Defense brochure</a><br><br><a href="#">Power Defense technical selling booklet</a>   |
| <b>BROCHURES</b>                 | <a href="#">Power Defense molded case circuit breaker selection poster</a><br><br><a href="#">Power Defense molded case circuit breakers - Frame 2 product aid</a>   |
| <b>CATALOGS</b>                  | <a href="#">Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2</a><br><br><a href="#">EU Declaration of Conformity - Power Defense molded case circuit breakers</a><br><br><a href="#">PDG2 CB report</a><br><br><a href="#">Power Defense Declaration concerning California's Proposition 65</a><br><br><a href="#">PDG4 CCC certification</a><br><br><a href="#">PDG4 CB report</a>   |
| <b>CERTIFICATION REPORTS</b>     | <a href="#">Power Defense Frame 2/3/4/5/6 voltage neutral sensor module wiring instructions – IL012316EN</a><br><br><a href="#">Power Defense Frame 2 shunt trip UVR instructions - IL012130EN</a><br><br><a href="#">Power Defense Frame 2 terminal kit - PDG2X3(2)(4)TA225RF instructions - IL012245EN H01</a><br><br><a href="#">Power Defense Frame 2 screw terminal end cap kit, 225A, 3 pole instructions - IL012258EN H01</a><br><br><a href="#">Power Defense Frame 2 PDG2 and PDC(E)9 breaker instructions - IL012106EN</a><br><br><a href="#">Power Defense Frame 2 box terminal (steel), 100A, 3 pole instructions - IL012234EN H03</a><br><br><a href="#">Power Defense Frame 2 Direct Rotary Handle Assy With Interlock Version Instructions (IL012138EN).pdf</a><br><br><a href="#">Power Defense Frame 2 handle mech variable depth rotary handle instructions - IL012136EN</a> |
| <b>INSTALLATION INSTRUCTIONS</b> |  |

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

[Power Defense Frame 2 handle mech direct rotary handle instructions - IL012134EN](#)

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

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

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

[Power Defense Frame 2 tunnel terminal \(aluminum\), 150A, 3 pole instructions - IL012238EN 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 \(aluminum\), 50A, 3 pole instructions - IL012236EN H03](#)

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

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

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

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## **INSTALLATION VIDEOS**

[Power Defense Frame 2 withTMTU, Shunt Trip UVR Animated Instructions.rh](#)

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|                            |   |
|----------------------------|---|
|                            | <a href="#">Power Defense Frame 2 Bell Alarm with PXR 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 2 Handle Mech Variable Depth Rotary Handle Animated Instructions.rh</a> |
|                            | <a href="#">Power Defense Frame 2 Locking Devices and Handle Block Animated Instructions.pdf.rh</a>     |
| <b>MULTIMEDIA</b>          | <a href="#">Power Defense Frame 2 Aux. Alarm, Shunt Trip, and UVR How-To Video</a>                      |
|                            | <a href="#">Power Defense Frame 2 Direct Rotary Handle Mechanism Installation How-To Video</a>          |
|                            | <a href="#">Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>  |
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|                            | <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>  |
|                            | <a href="#">Eaton Power Defense for superior arc flash safety</a>                                       |
|                            | <a href="#">Power Defense molded case circuit breakers</a>  |
|                            | <b>SPECIFICATIONS AND DATASHEETS</b>  |
| <b>TIME/CURRENT CURVES</b> | <a href="#">Power Defense time current curve Frame 2 - PD2</a>  |
| <b>WHITE PAPERS</b>        | <a href="#">Making a better machine</a>   |
|                            | <a href="#">Molded case and low-voltage power circuit breaker health</a>                                |
|                            | <a href="#">Single and double break MCCB performance revisited</a>                                      |
|                            | <a href="#">Intelligent circuit protection yields space savings</a>                                     |
|                            | <a href="#">Molded case and low-voltage breaker health</a>  |
|                            | <a href="#">Safer by design: arc energy reduction techniques</a>  |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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| <b>CLASS</b>                | Class A    |
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**PREPARED BY:**

**DATE:**

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