

# Specifications



Photo is representative



## Eaton PDG22G0020TFFL

Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Two Pole, 20A, 35kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X2T100)

### General specifications

|                             |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Power Defense molded case circuit breaker                                                                                                                                  |
| <b>CATALOG NUMBER</b>       | PDG22G0020TFFL                                                                                                                                                                   |
| <b>UPC</b>                  | 786679945636                                                                                                                                                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 3.5 in                                                                                                                                                                           |
| <b>PRODUCT HEIGHT</b>       | 6 in                                                                                                                                                                             |
| <b>PRODUCT WIDTH</b>        | 2.75 in                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 3.75 lb                                                                                                                                                                          |
| <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>CSA<br>CCC Marked<br>IEC 60947-2                                                                                                                                       |
| <b>PRODUCT TYPE</b>         | Molded case circuit breaker                                                                                                                                                      |

## Delivery program

|                            |                  |
|----------------------------|------------------|
| AMPERAGE RATING            | 20 A             |
| CIRCUIT BREAKER FRAME TYPE | Complete breaker |
| FRAME                      | 2                |
| NUMBER OF POLES            | Two-pole         |

## Technical data - Electrical

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

## Technical information

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERRUPT RATING       | 35 kAIC at 480 Vac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| INTERRUPT RATING RANGE | 65 kAIC @240V (UL)<br>55 kAIC Icu/ 55 kAIC Ics/<br>121 kAIC Icm @240V (IEC)<br>8 kAIC Icu/ 4 kAIC Ics/ 16.8<br>kAIC Icm @690V (IEC)<br>25 kAIC Icu/ 20 kAIC Ics/<br>52.5 kAIC Icm @480V<br>Brazil (IEC)<br>30 kAIC Icu/ 22.5 kAIC Ics/<br>63 kAIC Icm @440V (IEC)<br>18 kAIC @600V (UL/CSA)<br>36 kAIC Icu/ 36 kAIC Ics/<br>75.6 kAIC Icm @380-415V<br>(IEC)<br>10 kAIC Icu @250 Vdc<br>20 kAIC Icu/ 15/13 kAIC<br>Ics/ 42 kAIC Icm @525V<br>South Africa (IEC)<br>10 kAIC Icu @125 Vdc<br>35 kAIC @480V (UL) |

## General information

|                      |            |
|----------------------|------------|
| CIRCUIT BREAKER TYPE | PD2 Global |
| CLASS                | Class A    |
| TRIP TYPE            | T298       |

## Technical data - Mechanical - Terminals

|           |                                 |
|-----------|---------------------------------|
| TERMINALS | Standard Terminals Load<br>Only |
|-----------|---------------------------------|

## Resources

|                           |                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3D CAD DRAWING PACKAGE    | <a href="#">Eaton Power Defense PDG22G0020TFFL 3D drawing</a>                                                                                                                                                                                                                               |
| APPLICATION NOTES         | <a href="#">Consulting application guide - molded case circuit breakers</a>                                                                                                                                                                                                                 |
| BROCHURES                 | <a href="#">Power Defense brochure</a><br><a href="#">Power Defense molded case circuit breaker selection poster</a><br><a href="#">Power Defense technical selling booklet</a><br><a href="#">Power Defense molded case circuit breakers - Frame 2 product aid</a>                         |
| CATALOGS                  | <a href="#">Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2</a>                                                                                                                                                                                                           |
| CERTIFICATION REPORTS     | <a href="#">PDG4 CCC certification</a><br><a href="#">PDG4 CB report</a><br><a href="#">Power Defense Declaration concerning California's Proposition 65</a><br><a href="#">PDG2 CB report</a><br><a href="#">EU Declaration of Conformity - Power Defense molded case circuit breakers</a> |
| INSTALLATION INSTRUCTIONS | <a href="#">Power Defense Frame 2 tunnel terminal (aluminum), 100A, 2 pole instructions - IL012237EN H02</a>                                                                                                                                                                                |

[Power Defense Frame 2 tunnel terminal \(aluminum\), 150A, 2 pole instructions - IL012238EN H02](#)

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

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

[Power Defense Frame 2 clamp terminal \(steel\), 20A, 2 pole instructions - IL012246EN H02](#)

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

[Power Defense Frame 2 screw terminal end cap kit, 225A, 2 pole instructions - IL012257EN H01](#)

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

[Power Defense Frame 2 tunnel terminal \(aluminum\), 50A, 2 pole instructions - IL012236EN H02](#)

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

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

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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <a href="#">Power Defense Frame 2 box terminal (steel), 100A, 2 pole instructions - IL012234EN H02</a><br><br><a href="#">Power Defense Frame 2 tunnel terminal kits - PDG2X1TA225K instructions- IL012239EN H01</a><br><br><a href="#">Power Defense Frame 2 global terminal shield, 2 pole - IL012330EN</a><br><br><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 locking devices and handle block instructions - IL012149EN</a><br><br><a href="#">Power Defense Frame 2 global interphase barrier 2 pole - IL012324EN</a> |
| INSTALLATION VIDEOS           | <a href="#">Power Defense Frame 2 TMTU Aux, Alarm, ST and UVR Animated Instructions.rh</a><br><br><a href="#">Power Defense Frame 2 withTMTU, Shunt Trip UVR Animated Instructions.rh</a>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MULTIMEDIA                    | <a href="#">Eaton Power Defense for superior arc flash safety</a><br><br><a href="#">Power Defense molded case circuit breakers</a><br><br><a href="#">Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video</a><br><br><a href="#">Power Defense Breakers</a><br><br><a href="#">Power Defense Frame 6 Trip Unit How-To Video</a><br><br><a href="#">Power Defense Frame 5 Trip Unit How-To Video</a><br><br><a href="#">Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>                                                                                |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - PDG22G0020TFFL</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| TIME/CURRENT CURVES | <a href="#">Power Defense time current curve Frame 2 - PD2</a>           |
|                     | <a href="#">Intelligent circuit protection yields space savings</a>      |
|                     | <a href="#">Single and double break MCCB performance revisited</a>       |
| WHITE PAPERS        | <a href="#">Molded case and low-voltage power circuit breaker health</a> |
|                     | <a href="#">Making a better machine</a>                                  |
|                     | <a href="#">Safer by design: arc energy reduction techniques</a>         |
|                     | <a href="#">Molded case and low-voltage breaker health</a>               |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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Eaton Power Defense molded case circuit breaker, Globally Rated, Frame 2, Two Pole, 20A, 35kA/480V, T-M (Fxd-Fxd) TU, Standard Terminals Load Only (PDG2X2T100)

### General specifications

|                             |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton Power Defense molded case circuit breaker                                                                                                                                  |
| <b>CATALOG NUMBER</b>       | PDG22G0020TFFL                                                                                                                                                                   |
| <b>UPC</b>                  | 786679945636                                                                                                                                                                     |
| <b>PRODUCT LENGTH/DEPTH</b> | 3.5 in                                                                                                                                                                           |
| <b>PRODUCT HEIGHT</b>       | 6 in                                                                                                                                                                             |
| <b>PRODUCT WIDTH</b>        | 2.75 in                                                                                                                                                                          |
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| <b>COMPLIANCES</b>          | RoHS Compliant                                                                                                                                                                   |
| <b>CERTIFICATIONS</b>       | UL 489<br>CSA<br>CCC Marked<br>IEC 60947-2                                                                                                                                       |
| <b>PRODUCT TYPE</b>         | Molded case circuit breaker                                                                                                                                                      |

## Delivery program

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|----------------------------|------------------|
| AMPERAGE RATING            | 20 A             |
| CIRCUIT BREAKER FRAME TYPE | Complete breaker |
| FRAME                      | 2                |
| NUMBER OF POLES            | Two-pole         |

## Technical data - Electrical

|                |         |
|----------------|---------|
| VOLTAGE RATING | 600 Vac |
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## Technical information

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INTERRUPT RATING       | 35 kAIC at 480 Vac                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| CIRCUIT BREAKER TYPE | PD2 Global |
| CLASS                | Class A    |
| TRIP TYPE            | T298       |

## Technical data - Mechanical - Terminals

|           |                                 |
|-----------|---------------------------------|
| TERMINALS | Standard Terminals Load<br>Only |
|-----------|---------------------------------|

## Resources

|                           |                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3D CAD DRAWING PACKAGE    | <a href="#">Eaton Power Defense PDG22G0020TFLL 3D drawing</a>                                                                                                                                                                                                                               |
| APPLICATION NOTES         | <a href="#">Consulting application guide - molded case circuit breakers</a>                                                                                                                                                                                                                 |
| BROCHURES                 | <a href="#">Power Defense brochure</a><br><a href="#">Power Defense molded case circuit breaker selection poster</a><br><a href="#">Power Defense technical selling booklet</a><br><a href="#">Power Defense molded case circuit breakers - Frame 2 product aid</a>                         |
| CATALOGS                  | <a href="#">Circuit Protection, Molded Case Circuit Breakers, Volume 4, Tab 2</a>                                                                                                                                                                                                           |
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| INSTALLATION INSTRUCTIONS | <a href="#">Power Defense Frame 2 tunnel terminal (aluminum), 100A, 2 pole instructions - IL012237EN H02</a>                                                                                                                                                                                |

[Power Defense Frame 2 tunnel terminal \(aluminum\), 150A, 2 pole instructions - IL012238EN H02](#)

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

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

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| MULTIMEDIA                    | <a href="#">Eaton Power Defense for superior arc flash safety</a><br><br><a href="#">Power Defense molded case circuit breakers</a><br><br><a href="#">Power Defense Frame 3 Variable Depth Rotary Handle Mechanism Installation How-To Video</a><br><br><a href="#">Power Defense Breakers</a><br><br><a href="#">Power Defense Frame 6 Trip Unit How-To Video</a><br><br><a href="#">Power Defense Frame 5 Trip Unit How-To Video</a><br><br><a href="#">Power Defense Frame 2 Variable Depth Rotary Handle Mechanism Installation How-To Video</a>                                                                                |
| SPECIFICATIONS AND DATASHEETS | <a href="#">Eaton Specification Sheet - PDG22G0020TFFL</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                     |                                                                          |
|---------------------|--------------------------------------------------------------------------|
| TIME/CURRENT CURVES | <a href="#">Power Defense time current curve Frame 2 - PD2</a>           |
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|                     | <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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