

# Specifications



Photo is representative



## Eaton PDE23G0200TAAS

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit breaker, 200A, 36kA, 3p, screw terminal

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series Power Defense molded case circuit-breaker
<b>CATALOG NUMBER</b>	PDE23G0200TAAS
<b>EAN</b>	9008790967764
<b>PRODUCT LENGTH/DEPTH</b>	201 mm
<b>PRODUCT HEIGHT</b>	89 mm
<b>PRODUCT WIDTH</b>	103 mm
<b>PRODUCT WEIGHT</b>	2.646 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC IEC/EN 60947
<b>MODEL CODE</b>	PDE23G0200TAAS



Powering Business Worldwide

## Delivery program

<b>TYPE</b>	Circuit breaker
<b>CIRCUIT BREAKER FRAME TYPE</b>	PDE2
<b>NUMBER OF POLES</b>	Three-pole
<b>AMPERAGE RATING</b>	200 A
<b>RELEASE SYSTEM</b>	Thermomagnetic release
<b>FEATURES</b>	Protection unit Motor drive optional
<b>SPECIAL FEATURES</b>	Thermally and magnetically adjustable (calibrated at 40 °C)

## Technical Data - Electrical

<b>VOLTAGE RATING</b>	220 V - 440 V
<b>VOLTAGE RATING (DC)</b>	250 V
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS</b>	4000 V
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS</b>	8000 V
<b>RATED CURRENT (IU)</b>	200 A
<b>AMPERAGE RATING</b>	200 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MIN</b>	1000 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MAX</b>	1600 A
<b>OVERLOAD CURRENT SETTING (IR) - MIN</b>	160 A
<b>OVERLOAD CURRENT SETTING (IR) - MAX</b>	200 A
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ</b>	50 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ</b>	36 kA
<b>RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ</b>	22.5 kA
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>NUMBER OF OPERATIONS PER HOUR - MAX</b>	120
<b>HANDLE TYPE</b>	Rocker lever
<b>UTILIZATION CATEGORY</b>	A
<b>OVERVOLTAGE CATEGORY</b>	III
<b>POLLUTION DEGREE</b>	3
<b>DIRECTION OF INCOMING SUPPLY</b>	Vertical and 90° in all directions

## Technical Data - Mechanical

**MOUNTING METHOD** DIN rail (top hat rail)  
mounting optional  
Fixed  
Complete device in  
housing

**MOUNTING METHOD** DIN rail (top hat rail)  
mounting optional  
Fixed  
Complete device in  
housing

**DEGREE OF PROTECTION** IP2X

**NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)** 0

**NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)** 0

**NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)** 0

**POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT** Front side

**SPECIAL FEATURES** Thermally and magnetically adjustable (calibrated at 40 °C)

**LIFESPAN, MECHANICAL** 20000 operations

## Design verification as per IEC/EN 61439 - technical data

**AMBIENT OPERATING TEMPERATURE - MIN** -20 °C

**AMBIENT OPERATING TEMPERATURE - MAX** 70 °C

**AMBIENT STORAGE TEMPERATURE - MIN** -20 °C

**AMBIENT STORAGE TEMPERATURE - MAX** 70 °C

## Technical Data - Mechanical - Terminals

**STANDARD TERMINALS** Screw terminal

## Design verification as per IEC/EN 61439

**10.2.2 CORROSION RESISTANCE** Meets the product standard's requirements.

**10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES** Meets the product standard's requirements.

**10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT** Meets the product standard's requirements.

**10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS** Meets the product standard's requirements.

**10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION** Meets the product standard's requirements.

**10.2.5 LIFTING** Does not apply, since the entire switchgear needs to be evaluated.

**10.2.6 MECHANICAL** Does not apply, since the

<b>IMPACT</b>	entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Additional information

### FUNCTIONS

System and cable protection

## Resources

### CHARACTERISTIC CURVE

[eaton-circuit-breaker-current-power-defense-mccb-characteristic-curve-009.jpg](#)

[eaton-circuit-breaker-current-power-defense-mccb-characteristic-curve-022.jpg](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-020.jpg](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-007.jpg](#)

[eaton-circuit-breaker-power-defense-mccb-characteristic-curve-005.jpg](#)

### DECLARATIONS OF CONFORMITY

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250148en.pdf](#)

### DRAWINGS

[eaton-power-defense-mccb-dimensions-003.jpg](#)

### INSTALLATION VIDEOS

[Power Defense EMEA](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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