

Specifications



Photo is representative



Eaton PDE33G0400TAAS

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit breaker, 400A, 36kA, 3p, screw terminal

General specifications

PRODUCT NAME	Eaton Moeller series Power Defense molded case circuit-breaker
CATALOG NUMBER	PDE33G0400TAAS
EAN	9010238103375
PRODUCT LENGTH/DEPTH	257 mm
PRODUCT HEIGHT	138 mm
PRODUCT WIDTH	138 mm
PRODUCT WEIGHT	6 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947
MODEL CODE	PDE33G0400TAAS



Powering Business Worldwide

Delivery program

TYPE	Circuit breaker
CIRCUIT BREAKER FRAME TYPE	PDE3
NUMBER OF POLES	Three-pole
AMPERAGE RATING	400 A
RELEASE SYSTEM	Thermomagnetic release
FEATURES	Protection unit Motor drive optional
SPECIAL FEATURES	Thermally and magnetically adjustable (calibrated at 40 °C)

Technical Data - Electrical

VOLTAGE RATING	220 V - 440 V
VOLTAGE RATING (DC)	250 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	4000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	8000 V
RATED CURRENT (IU)	400 A
AMPERAGE RATING	400 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	2000 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	3200 A
OVERLOAD CURRENT SETTING (IR) - MIN	320 A
OVERLOAD CURRENT SETTING (IR) - MAX	400 A
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 230 V, 50/60 HZ	50 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 400/415 V, 50/60 HZ	36 kA
RATED SHORT-CIRCUIT BREAKING CAPACITY ICS (IEC/EN 60947) AT 440 V, 50/60 HZ	22.5 kA
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
NUMBER OF OPERATIONS PER HOUR - MAX	60
HANDLE TYPE	Rocker lever
UTILIZATION CATEGORY	A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
DIRECTION OF INCOMING SUPPLY	Vertical and 90° in all directions

Technical Data - Mechanical

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

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

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 15000 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

IMPACT	entire switchgear needs to be evaluated.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 CLEARANCES AND CREEPAGE DISTANCES	Meets the product standard's requirements.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be evaluated.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to be evaluated.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 MECHANICAL FUNCTION	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-018.jpg](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-002.jpg](#)

[eaton-circuit-breaker-power-defense-mccb-characteristic-curve-002.jpg](#)

[eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-016.jpg](#)

[eaton-circuit-breaker-current-power-defense-mccb-characteristic-curve-002.jpg](#)

DECLARATIONS OF CONFORMITY

[eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250149en.pdf](#)

DRAWINGS

[eaton-power-defense-mccb-dimensions-005.jpg](#)

INSTALLATION VIDEOS

[Power Defense EMEA](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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