

Specifications

Photo is representative

Eaton PDE13G0160TAAJ

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit breaker, 160A, 36kA, 3p, box terminal

General specifications

PRODUCT NAME	Eaton Moeller series Power Defense molded case circuit-breaker
CATALOG NUMBER	PDE13G0160TAAJ
MODEL CODE	PDE13G0160TAAJ
EAN	9010238097438
PRODUCT LENGTH/DEPTH	145 mm
PRODUCT HEIGHT	87 mm
PRODUCT WIDTH	89 mm
PRODUCT WEIGHT	1.046 kg
COMPLIANCES	RoHS conform
CERTIFICATIONS	IEC IEC/EN 60947

Delivery program

CIRCUIT BREAKER FRAME TYPE	PDE1
AMPERAGE RATING	160 A
NUMBER OF POLES	Three-pole

Technical data - electrical

VOLTAGE RATING	220 V - 440 V
VOLTAGE RATING (DC)	250 V
MAX. RATED OPERATION VOLTAGE UE AC	440
RATED INSULATION VOLTAGE (UI)	800 V AC
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT AUXILIARY CONTACTS	6000 V
RATED IMPULSE WITHSTAND VOLTAGE (UIMP) AT MAIN CONTACTS	6000 V
RATED CURRENT (IU)	160 A
INSTANTANEOUS CURRENT SETTING (II) - MIN	800 A
INSTANTANEOUS CURRENT SETTING (II) - MAX	1280 A
OVERLOAD CURRENT SETTING (IR) - MIN	128 A
OVERLOAD CURRENT SETTING (IR) - MAX	160 A
SHORT DELAY CURRENT SETTING (ISD) - MIN	0 A
SHORT DELAY CURRENT SETTING (ISD) - MAX	0 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	Frame clamp
OVERVOLTAGE CATEGORY	III
UTILIZATION CATEGORY	A

POLLUTION DEGREE	3
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Technical data - mechanical

TYPE	Circuit breaker
RELEASE SYSTEM	Thermomagnetic release
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
NUMBER OF OPERATIONS PER HOUR - MAX	120
HANDLE TYPE	Rocker lever
POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT	Front side
DIRECTION OF INCOMING SUPPLY	Vertical and 90° in all directions
STANDARD TERMINALS	Box terminal
LIFESPAN, MECHANICAL	25000 operations

Design verification as per IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE - MIN	-20 °C
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AMBIENT OPERATING TEMPERATURE - MAX	70 °C
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AMBIENT STORAGE TEMPERATURE - MIN	-20 °C
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AMBIENT STORAGE TEMPERATURE - MAX	70 °C
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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 IMPACT	Does not apply, since the 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	Is the panel builder's responsibility.

Additional information

FEATURES	Protection unit Motor drive optional
FUNCTIONS	System and cable protection
SPECIAL FEATURES	Thermally and magnetically adjustable (calibrated at 40 °C)

INSULATING MATERIAL

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.

Resources

CHARACTERISTIC CURVE

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

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

DECLARATIONS OF CONFORMITY

[DA-DC-03_PDE1](#)

DRAWINGS

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

INSTALLATION VIDEOS

[Power Defense EMEA](#)

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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