

## Eaton PDE34G0630B1NS

Eaton Moeller series Power Defense - Molded Case Circuit Breaker. Circuit breaker, ETU, 630A, 36kA, 4p, screw terminal

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller series Power Defense molded case circuit-breaker
<b>CATALOG NUMBER</b>	PDE34G0630B1NS
<b>EAN</b>	9010238105140
<b>MODEL CODE</b>	PDE34G0630B1NS
<b>PRODUCT LENGTH/DEPTH</b>	257 mm
<b>PRODUCT HEIGHT</b>	138 mm
<b>PRODUCT WIDTH</b>	183 mm
<b>PRODUCT WEIGHT</b>	7 kg
<b>COMPLIANCES</b>	RoHS conform
<b>CERTIFICATIONS</b>	IEC IEC/EN 60947

## Delivery program

<b>CIRCUIT BREAKER FRAME TYPE</b>	PDE3
<b>AMPERAGE RATING</b>	630 A
<b>NUMBER OF POLES</b>	Four-pole

## Technical data - electrical

<b>VOLTAGE RATING</b>	220 V - 440 V
<b>VOLTAGE RATING (DC)</b>	250 V
<b>MAX. RATED OPERATION VOLTAGE UE AC</b>	440
<b>RATED INSULATION VOLTAGE (UI)</b>	800 V AC
<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>	630 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MIN</b>	1260 A
<b>INSTANTANEOUS CURRENT SETTING (II) - MAX</b>	7182 A
<b>OVERLOAD CURRENT SETTING (IR) - MIN</b>	200 A
<b>OVERLOAD CURRENT SETTING (IR) - MAX</b>	630 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>OVERVOLTAGE CATEGORY</b>	III
<b>UTILIZATION CATEGORY</b>	A
<b>POLLUTION DEGREE</b>	3

## Technical data - mechanical

<b>TYPE</b>	Circuit breaker
<b>RELEASE SYSTEM</b>	Electronic release
<b>MOUNTING METHOD</b>	Fixed Complete device in housing DIN rail (top hat rail) mounting optional
<b>DEGREE OF PROTECTION</b>	IP2X
<b>NUMBER OF AUXILIARY CONTACTS (CHANGE-OVER CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
<b>NUMBER OF OPERATIONS PER HOUR - MAX</b>	60
<b>HANDLE TYPE</b>	Rocker lever
<b>POSITION OF CONNECTION FOR MAIN CURRENT CIRCUIT</b>	Front side
<b>DIRECTION OF INCOMING SUPPLY</b>	Vertical and 90° in all directions
<b>STANDARD TERMINALS</b>	Screw terminal
<b>LIFESPAN, MECHANICAL</b>	15000 operations

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

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	630 A
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-20 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	70 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-20 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	70 °C

## Design verification as per IEC/EN 61439

<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the 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

## Additional information

<b>FEATURES</b>	Protection unit Motor drive optional
<b>FUNCTIONS</b>	System and cable protection
<b>SPECIAL FEATURES</b>	PXR 10 electronics

	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.

## Resources

	<a href="#">eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-027.jpg</a>
	<a href="#">eaton-circuit-breaker-current-power-defense-mccb-characteristic-curve-029.jpg</a>
CHARACTERISTIC CURVE	<a href="#">eaton-circuit-breaker-characteristic-power-defense-mccb-characteristic-curve-014.jpg</a>
	<a href="#">eaton-circuit-breaker-power-defense-mccb-characteristic-curve-012.jpg</a>
	<a href="#">eaton-circuit-breaker-current-power-defense-mccb-characteristic-curve-016.jpg</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-molded-case-circuit-breaker-declaration-of-conformity-eu250149en.pdf</a>
DRAWINGS	<a href="#">eaton-power-defense-mccb-dimensions-006.jpg</a>
INSTALLATION VIDEOS	<a href="#">Power Defense EMEA</a>

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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