

Specifications

Eaton 116643

Eaton xEnergy Basic LV systems Low voltage switchgear. Surface-mount service distribution board with three-point turn-lock, fire-resistant, W 800 mm H 760 mm, white

General specifications

PRODUCT NAME	Eaton xEnergy Basic small distribution board
CATALOG NUMBER	116643
MODEL CODE	BP-O-800/7-EW-W
EAN	4015081163885
PRODUCT LENGTH/DEPTH	262 mm
PRODUCT HEIGHT	760 mm
PRODUCT WIDTH	800 mm
PRODUCT WEIGHT	29.5 kg
COMPLIANCES	RoHS conform



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Additional information

FEATURES	EMC-version
FIRE RESISTANCE GRADE	Fire-resistant (E60/EW60)
FUNCTIONS	Extension possible Basic device Sealable
RAL-NUMBER	9016

Delivery programme

APPLICATION	Indoor (installation site)
COLOR	White Traffic white (RAL 9016)
TYPE	Basic device

Design verification to IEC/EN 61439

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.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility.
10.13 MECHANICAL FUNCTION	Meets the product standard's requirements.
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	Not relevant to indoor installations.
10.2.5 LIFTING	Does not apply to enclosures without lifting aids.
10.2.6 MECHANICAL IMPACT	IK08
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	IP30
10.4 CLEARANCES AND CREEPAGE DISTANCES	Is the panel builder's responsibility.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	< 0.1 Ω; meets the product standard's requirements.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Is the panel builder's responsibility.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR	Is the panel builder's

Technical data - mechanical

BUILT-IN HEIGHT	790 mm
BUILT-IN WIDTH	830 mm
CLOSURE TYPE	Other
COVER/DOOR MODEL	Closed
COVER/DOOR TYPE	Door Three-point turn-lock Single
ENCLOSURE MATERIAL	Steel
INTERNAL DEPTH	257.5 mm
MATERIAL	Sheet steel
MOUNTING METHOD	Surface mounting Surface mounted (plaster)
NUMBER OF ROWS	4
SURFACE FINISHING	With powder coating
WIDTH IN NUMBER OF MODULAR SPACINGS	35
BUILT-IN DEPTH	300 mm
DEGREE OF PROTECTION	IP30

EXTERNAL CONDUCTORS	responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Ui = 440 V AC
10.9.3 IMPULSE WITHSTAND VOLTAGE	4 kV
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Does not apply to metal enclosures.

Temperature-rise verification as per IEC 60890

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 73 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 146 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 75 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 84 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 151 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 169 W

Resources

BROCHURES	eaton-xenergy-basic-light-brochure-br014024-en-us.pdf
CATALOGUES	eaton-distribution-boards-xenergy-basic-catalog-ca014010en-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-small-distribution-board-declaration-of-conformity-eu250305en.pdf
DRAWINGS	eaton-low-voltage-switch-gear-dimensions-1230dim-434.eps
FLYERS	eaton-xenergy-basic-profisnap-flyer-fl019008en-en-us.pdf
MANUALS AND USER GUIDES	DA-MN-170900094
MCAD MODEL	eaton-empty-consumer-units-mcad-3d-models-bp-o-800-7-ew-w.stp
SALES NOTES	eaton-f3a-flange-flyer-fl019005en-en-us.pdf

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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