

Specifications



Eaton 102400

Eaton xEnergy Basic LV systems Low voltage switchgear. Floor standing distribution board, flexible surface mounting, W = 800 mm, H = 2060 mm, D = 300 mm

General specifications

PRODUCT NAME	Eaton xEnergy Basic empty enclosure
CATALOG NUMBER	102400
MODEL CODE	BP-F-800/20/3-F
EAN	4015081022885
PRODUCT LENGTH/DEPTH	300 mm
PRODUCT HEIGHT	2060 mm
PRODUCT WIDTH	800 mm
PRODUCT WEIGHT	39 kg
COMPLIANCES	RoHS conform

Additional information

FEATURES	EMC-version
	Mounting plate depth-adjustable
FITTED WITH:	Door
FUNCTIONS	Basic device
RAL-NUMBER	7035
SUITABLE FOR	Metrical mounting

Delivery programme

APPLICATION	Indoor (installation site)
COLOR	Light gray (RAL 7035) Gray
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	Met; assembled and secured as per the latest applicable instruction leaflet.
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.

Technical data - mechanical

GRADE MATERIAL	Sheet steel
INSTALLATION TYPE	Floor installation possible
MATERIAL	Sheet steel Steel
MOUNTING METHOD	Floor standing distribution board Detached
NUMBER OF CONNECTOR HOLES	0
NUMBER OF COVERS/DOORS	0
NUMBER OF LOCKS	0
SURFACE FINISHING	With powder coating Powder coating
DEGREE OF PROTECTION	IK08 (impact resistance) IP30 Other IK08

10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's 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 FREE
STAND MIDDLE ENCL.
TOP (IEC 60890) 195 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 175 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C FREE
STAND MIDDLE ENCL.
TOP (IEC 60890) 391 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890) 352 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C FREE
STAND INDIVID. ENCL.
TOP (IEC 60890) 207 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C FREE
STAND STARTING ENCL.
TOP (IEC 60890) 201 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 189 W

HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 186 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C FREE
STAND INDIVID. ENCL.
TOP (IEC 60890) 416 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C FREE
STAND STARTING ENCL.
TOP (IEC 60890) 403 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890) 380 W

HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890) 372 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-438.eps
FLYERS	eaton-xenergy-basic-profisnap-flyer-fl019008en-en-us.pdf
MANUALS AND USER GUIDES	DA-MN-170900093
MCAD MODEL	eaton-front-access-switchboard-mcad-3d-models-bp-f-800-20-3-f.stp
PEP ECO-PASSPORT	eaton-front-access-switchboard-pep-eato-00342-v0101-en.pdf
SALES NOTES	eaton-f3a-flange-flyer-fl019005en-en-us.pdf

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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