

# Specifications



## Eaton 120758

Eaton xEnergy Basic LV systems Low voltage switchgear. Floor standing distribution board, flexible surface mounting, W = 1200 mm, H = 2060 mm, D = 250 mm

### General specifications

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEnergy Basic empty enclosure |
| <b>CATALOG NUMBER</b>       | 120758                              |
| <b>MODEL CODE</b>           | BP-F-1200/20/2,5-F                  |
| <b>EAN</b>                  | 4015081185887                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 250 mm                              |
| <b>PRODUCT HEIGHT</b>       | 2060 mm                             |
| <b>PRODUCT WIDTH</b>        | 1200 mm                             |
| <b>PRODUCT WEIGHT</b>       | 30 kg                               |
| <b>COMPLIANCES</b>          | RoHS conform                        |

## Additional information

|                     |                                                |
|---------------------|------------------------------------------------|
| <b>FEATURES</b>     | Mounting plate depth-adjustable<br>EMC-version |
| <b>FITTED WITH:</b> | Door                                           |
| <b>FUNCTIONS</b>    | Basic device                                   |
| <b>RAL-NUMBER</b>   | 7035                                           |
| <b>SUITABLE FOR</b> | Metrical mounting                              |

## Delivery programme

|                    |                               |
|--------------------|-------------------------------|
| <b>APPLICATION</b> | Indoor (installation site)    |
| <b>COLOR</b>       | Gray<br>Light gray (RAL 7035) |
| <b>TYPE</b>        | Basic device                  |

## Design verification to IEC/EN 61439

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the 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.                                                                                           |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility.                                                                                           |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | Meets the product standard's requirements.                                                                                       |
| <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>                                 | Not relevant to indoor installations.                                                                                            |
| <b>10.2.5 LIFTING</b>                                                                   | Met; assembled and secured as per the latest applicable instruction leaflet.                                                     |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | IK08                                                                                                                             |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | IP30                                                                                                                             |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | < 0.1 Ω; meets the product standard's requirements.                                                                              |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>                                | Is the panel builder's responsibility.                                                                                           |

## Technical data - mechanical

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| <b>GRADE MATERIAL</b>            | Sheet steel                                       |
| <b>INSTALLATION TYPE</b>         | Floor installation possible                       |
| <b>MATERIAL</b>                  | Steel<br>Sheet steel                              |
| <b>MOUNTING METHOD</b>           | Floor standing distribution board<br>Detached     |
| <b>NUMBER OF CONNECTOR HOLES</b> | 0                                                 |
| <b>NUMBER OF COVERS/DOORS</b>    | 2                                                 |
| <b>NUMBER OF LOCKS</b>           | 0                                                 |
| <b>SURFACE FINISHING</b>         | Powder coating<br>With powder coating             |
| <b>DEGREE OF PROTECTION</b>      | IK08 (impact resistance)<br>IP30<br>Other<br>IK08 |

|                                                                 |                                        |
|-----------------------------------------------------------------|----------------------------------------|
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                 | Is the panel builder's responsibility. |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Ui = 440 V AC                          |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | 4 kV                                   |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | 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) 265 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890) 233 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND MIDDLE ENCL.  
TOP (IEC 60890) 531 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890) 467 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C FREE  
STAND INDIVID. ENCL.  
TOP (IEC 60890) 267 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C FREE  
STAND STARTING ENCL.  
TOP (IEC 60890) 266 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890) 240 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890) 235 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND INDIVID. ENCL.  
TOP (IEC 60890) 536 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND STARTING ENCL.  
TOP (IEC 60890) 533 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890) 481 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890) 472 W

## Resources

|                            |                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-xenergy-basic-light-brochure-br014024-en-us.pdf</a>                   |
| CATALOGUES                 | <a href="#">eaton-distribution-boards-xenergy-basic-catalog-ca014010en-en-us.pdf</a>    |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-small-distribution-board-declaration-of-conformity-eu250305en.pdf</a> |
| DRAWINGS                   | <a href="#">eaton-low-voltage-switch-gear-dimensions-1230dim-438.eps</a>                |
| FLYERS                     | <a href="#">eaton-xenergy-basic-profisnap-flyer-fl019008en-en-us.pdf</a>                |
| MANUALS AND USER GUIDES    | <a href="#">DA-MN-170900093</a>                                                         |
| MCAD MODEL                 | <a href="#">eaton-front-access-switchboard-mcad-3d-models-bp-f-1200-20-2-5-f.stp</a>    |
| PEP ECO-PASSPORT           | <a href="#">eaton-front-access-switchboard-pep-eato-00342-v0101-en.pdf</a>              |
| SALES NOTES                | <a href="#">eaton-f3a-flange-flyer-fl019005en-en-us.pdf</a>                             |

|                 |
|-----------------|
| PROJECT NAME:   |
| PROJECT NUMBER: |
| PREPARED BY:    |
| DATE:           |



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