

# Specifications



## Eaton 102407

Eaton xEnergy Basic LV systems Low voltage switchgear. White floor standing distribution board, flexible surface mounting, W = 400 mm, H = 1760 mm, D = 300 mm

### General specifications

|                             |                                     |
|-----------------------------|-------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEnergy Basic empty enclosure |
| <b>CATALOG NUMBER</b>       | 102407                              |
| <b>MODEL CODE</b>           | BP-F-400/17/3-F-W                   |
| <b>EAN</b>                  | 4015081022953                       |
| <b>PRODUCT LENGTH/DEPTH</b> | 300 mm                              |
| <b>PRODUCT HEIGHT</b>       | 1760 mm                             |
| <b>PRODUCT WIDTH</b>        | 400 mm                              |
| <b>PRODUCT WEIGHT</b>       | 25 kg                               |
| <b>COMPLIANCES</b>          | RoHS conform                        |

## Additional information

|                     |                                 |
|---------------------|---------------------------------|
| <b>FEATURES</b>     | EMC-version                     |
|                     | Mounting plate depth-adjustable |
| <b>FITTED WITH:</b> | Door                            |
| <b>FUNCTIONS</b>    | Basic device                    |
| <b>RAL-NUMBER</b>   | 9016                            |
| <b>SUITABLE FOR</b> | Metrical mounting               |

## Delivery programme

|                    |                                   |
|--------------------|-----------------------------------|
| <b>APPLICATION</b> | Indoor (installation site)        |
| <b>COLOR</b>       | Traffic white (RAL 9016)<br>White |
| <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>                  | Sheet steel<br>Steel                              |
| <b>MOUNTING METHOD</b>           | Floor standing distribution board<br>Detached     |
| <b>NUMBER OF CONNECTOR HOLES</b> | 0                                                 |
| <b>NUMBER OF COVERS/DOORS</b>    | 0                                                 |
| <b>NUMBER OF LOCKS</b>           | 0                                                 |
| <b>SURFACE FINISHING</b>         | With powder coating<br>Powder coating             |
| <b>DEGREE OF PROTECTION</b>      | IP30<br>IK08 (impact resistance)<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) 75 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890) 65 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND MIDDLE ENCL.  
TOP (IEC 60890) 151 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890) 131 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C FREE  
STAND INDIVID. ENCL.  
TOP (IEC 60890) 101 W

HEAT DISS. AMBIENT  
35°C DELTA T: 20°C FREE  
STAND STARTING ENCL.  
TOP (IEC 60890) 88 W

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

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

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND INDIVID. ENCL.  
TOP (IEC 60890) 203 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C FREE  
STAND STARTING ENCL.  
TOP (IEC 60890) 176 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890) 168 W

HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890) 147 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-400-17-3-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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