

# Specifications

## Eaton 116635

Eaton xEnergy Basic LV systems Low voltage switchgear. Surface-mount service distribution board with three-point turn-lock, fire-resistant, W 400 mm H 1260 mm, white

### General specifications

|                             |                                              |
|-----------------------------|----------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEnergy Basic small distribution board |
| <b>CATALOG NUMBER</b>       | 116635                                       |
| <b>MODEL CODE</b>           | BP-O-400/12-EW-W                             |
| <b>EAN</b>                  | 4015081163809                                |
| <b>PRODUCT LENGTH/DEPTH</b> | 262 mm                                       |
| <b>PRODUCT HEIGHT</b>       | 1260 mm                                      |
| <b>PRODUCT WIDTH</b>        | 400 mm                                       |
| <b>PRODUCT WEIGHT</b>       | 32.3 kg                                      |
| <b>COMPLIANCES</b>          | RoHS conform                                 |

## Additional information

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

## 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>                                                                   | Does not apply to enclosures without lifting aids.                                                                               |
| <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.                                                                                           |
| <b>10.8 CONNECTIONS FOR</b>                                                             | Is the panel builder's                                                                                                           |

## Technical data - mechanical

|                                            |                                               |
|--------------------------------------------|-----------------------------------------------|
| <b>BUILT-IN HEIGHT</b>                     | 1290 mm                                       |
| <b>BUILT-IN WIDTH</b>                      | 430 mm                                        |
| <b>CLOSURE TYPE</b>                        | Other                                         |
| <b>COVER/DOOR MODEL</b>                    | Closed                                        |
| <b>COVER/DOOR TYPE</b>                     | Door<br>Three-point turn-lock<br>Single       |
| <b>ENCLOSURE MATERIAL</b>                  | Steel                                         |
| <b>INTERNAL DEPTH</b>                      | 257.5 mm                                      |
| <b>MATERIAL</b>                            | Sheet steel                                   |
| <b>MOUNTING METHOD</b>                     | Surface mounted (plaster)<br>Surface mounting |
| <b>NUMBER OF ROWS</b>                      | 7                                             |
| <b>SURFACE FINISHING</b>                   | With powder coating                           |
| <b>WIDTH IN NUMBER OF MODULAR SPACINGS</b> | 13                                            |
| <b>BUILT-IN DEPTH</b>                      | 300 mm                                        |
| <b>DEGREE OF PROTECTION</b>                | IP30                                          |

|                                                                 |                                     |
|-----------------------------------------------------------------|-------------------------------------|
| <b>EXTERNAL CONDUCTORS</b>                                      | 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

|                                                                                        |       |
|----------------------------------------------------------------------------------------|-------|
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 20°C WALL MOUNT MIDDLE ENCL. TOP (IEC 60890)</b>   | 66 W  |
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT MIDDLE ENCL. TOP (IEC 60890)</b>   | 132 W |
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 20°C WALL MOUNT INDIVID. ENCL. TOP (IEC 60890)</b> | 57 W  |
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 20°C WALL MOUNT STARTING ENCL. TOP (IEC 60890)</b> | 72 W  |
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT INDIVID. ENCL. TOP (IEC 60890)</b> | 115 W |
| <b>HEAT DISS. AMBIENT 35°C DELTA T: 35°C WALL MOUNT STARTING ENCL. TOP (IEC 60890)</b> | 145 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-434.eps</a>                |
| FLYERS                     | <a href="#">eaton-xenergy-basic-profisnap-flyer-fl019008en-en-us.pdf</a>                |
| MANUALS AND USER GUIDES    | <a href="#">DA-MN-170900094</a>                                                         |
| MCAD MODEL                 | <a href="#">eaton-empty-consumer-units-mcad-3d-models-bp-o-400-12-ew-w.stp</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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