

# Specifications



## Eaton 111693

Eaton xEffect CS LV systems Switch- & Controlgear Enclosure. Wall enclosure with mounting plate, HxWxD=600x400x200mm

### General specifications

|                             |                                        |
|-----------------------------|----------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect CS enclosure single door |
| <b>CATALOG NUMBER</b>       | 111693                                 |
| <b>MODEL CODE</b>           | CS-64/200                              |
| <b>EAN</b>                  | 4015081112524                          |
| <b>PRODUCT LENGTH/DEPTH</b> | 200 mm                                 |
| <b>PRODUCT HEIGHT</b>       | 600 mm                                 |
| <b>PRODUCT WIDTH</b>        | 400 mm                                 |
| <b>PRODUCT WEIGHT</b>       | 13.32 kg                               |

### COMPLIANCES

UL CSA09 (may be provided with metal sub-panel, no back mounted components are allowed between sub-panel and the back sheet metal enclosure)  
RoHS conform  
UL 508A; CSA-C22.2 No.14;  
IEC/EN 62208; CE marking

### CERTIFICATIONS

UL (Category Control Number NITW)  
UL CSA08 (request filed)  
In accordance with Directive 2015/863/EU of the European Parliament and Council  
UL (File No. E336299)  
IEC/EN 62208

### CATALOG NOTES

Foamed polyurethane sealing throughout.  
Impact resistance category IK10 to EN 62262. Sheet steel mounting plate.  
Bottom plate with foamed gasket. Single door, door stop on the right, door opening angle 120°. Door hinge pins with quick chang

## Additional information

### FEATURES

Wall build in  
Pole fastening

### FITTED WITH:

Including M6 threaded  
welded studs for earth  
conductor connections in  
the door:  
Mounting plate  
Cover  
Door

### FUNCTIONS

Floor standing enclosure

### RAL-NUMBER

7035

### SPECIAL FEATURES

- Bottom plate enclosed, foamed gasket, can be unscrewed for F3A-... flanges or for assembly by user
- Door hinge pins with quick change technology.
- Standardized locking system with sash fastener.
- Powder coating RAL 7035 inside and outside
- Foamed polyurethane sealing throughout.
- Impact resistance category IK10 to EN 62262.
- Sheet steel mounting plate
- Bottom plate with foamed gasket.
- Single door, door stop on the right, door opening angle 120°
- Lock, 3 mm double ward key
- Including M6 threaded welded studs for earth conductor connections in the door
- Side plates without apertures
- Top plate without apertures

### SUITABLE FOR

Metrical mounting

### USED WITH

Industrial control panels

## Delivery programme

### COLOR

Light gray (RAL 7035)  
Gray

### TYPE

- Wall-mounting housing CS
- Wall-mounting housing with mounting plate

## 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>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply to enclosures without lifting aids.                                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | IK10                                                                                                                             |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | IP66                                                                                                                             |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Is the panel builder's responsibility.                                                                                           |
| <b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>                                           | < 0.1 $\Omega$ ; 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                                                                                                           |

## Design verification to IEC/EN 61439 - technical data

|                                              |                |
|----------------------------------------------|----------------|
| <b>AMBIENT OPERATING TEMPERATURE DETAILS</b> | -25 °C - 40 °C |
|----------------------------------------------|----------------|

|                                                                 |                                                            |
|-----------------------------------------------------------------|------------------------------------------------------------|
| <b>EXTERNAL CONDUCTORS</b>                                      | responsibility.                                            |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                 | Ui = 1000 V AC                                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                         | Does not apply to basic enclosures as defined in EN 62208. |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b> | Does not apply to metal enclosures.                        |

## Technical data - mechanical

|                                          |                                                                                                                                                                               |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CLIMATIC PROOFING</b>                 | Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30                                                                                                |
| <b>COVER/DOOR ANGLE</b>                  | 120° door opening angle                                                                                                                                                       |
| <b>COVER/DOOR PROFILE</b>                | 2 door profiles                                                                                                                                                               |
| <b>COVER/DOOR TYPE</b>                   | Standard closure 3 mm double-ward key (door interlock)<br>Door hinges on the right, can be converted by user<br>Closed                                                        |
| <b>DESIGN TYPE</b>                       | Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.                                                                 |
| <b>FLANGE PLATE DIMENSIONS</b>           | 112 mm x 332 mm                                                                                                                                                               |
| <b>INSTALLATION SITE</b>                 | Indoor installation                                                                                                                                                           |
| <b>INSTALLATION TYPE</b>                 | Floor standing wall model                                                                                                                                                     |
| <b>LOAD CAPACITY (DOOR)</b>              | 25 kg                                                                                                                                                                         |
| <b>LOAD CAPACITY (MOUNTING PLATE)</b>    | 200 kg<br>500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure. |
| <b>MATERIAL</b>                          | Steel plate<br>Steel                                                                                                                                                          |
| <b>MATERIAL QUALITY</b>                  | Other                                                                                                                                                                         |
| <b>MATERIAL THICKNESS (BODY)</b>         | 1.2 mm                                                                                                                                                                        |
| <b>MATERIAL THICKNESS (BOTTOM PLATE)</b> | 2 mm                                                                                                                                                                          |
| <b>MATERIAL THICKNESS (DOOR)</b>         | 1.2 mm                                                                                                                                                                        |
| <b>MOUNTING METHOD</b>                   | Wall fastening<br>9 mm drilling dimensions for wall mounting (Back plate)<br>Intermediate mounting                                                                            |
| <b>MOUNTING PLATE HEIGHT</b>             | 570 mm                                                                                                                                                                        |
| <b>MOUNTING PLATE MATERIAL</b>           | Sheet steel, hot-galvanized                                                                                                                                                   |
| <b>MOUNTING PLATE WIDTH</b>              | 350 mm                                                                                                                                                                        |

## Temperature-rise verification as per IEC 60890

**HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890)** 34 W

**HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT MIDDLE ENCL.  
TOP (IEC 60890)** 70 W

**HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890)** 40 W

**HEAT DISS. AMBIENT  
35°C DELTA T: 20°C WALL  
MOUNT STARTING ENCL.  
TOP (IEC 60890)** 37 W

**HEAT DISS. AMBIENT  
35°C DELTA T: 35°C WALL  
MOUNT INDIVID. ENCL.  
TOP (IEC 60890)** 81 W

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

**HEAT DISS. WALL MOUNT  
INDIVIDUAL ENCL. TOP** 40 W

**HEAT DISS. WALL MOUNT  
MIDDLE ENCL. TOP** 34 W

**HEAT DISS. WALL MOUNT  
STARTING ENCL. TOP** 37 W

**THERMAL DISSIPATION  
(DELTA T = 20 K)  
ACCORDING TO IEC/TR  
60890** 40 W

|                                                                            |                                                                                                                                                |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NUMBER OF CONNECTOR HOLES</b>                                           | 0                                                                                                                                              |
| <b>NUMBER OF COVERS/DOORS</b>                                              | 1                                                                                                                                              |
| <b>NUMBER OF F3A FLANGES</b>                                               | 1                                                                                                                                              |
| <b>NUMBER OF HINGES</b>                                                    | 2                                                                                                                                              |
| <b>NUMBER OF LOCKS</b>                                                     | 2                                                                                                                                              |
| <b>PERMISSIBLE LOAD OF THE DOOR(S) ACCORDING TO IEC 62208 - MAX</b>        | 250 N                                                                                                                                          |
| <b>PERMISSIBLE LOAD OF THE ENCLOSURE ACCORDING TO IEC 62208 - MAX</b>      | 2250 N                                                                                                                                         |
| <b>PERMISSIBLE LOAD OF THE MOUNTING PLATE ACCORDING TO IEC 62208 - MAX</b> | 2000 N                                                                                                                                         |
| <b>SURFACE FINISHING</b>                                                   | Semi-textured<br>Powder coating<br>Gloss<br>Structured powder spray polyester based paint finish                                               |
| <b>SURFACE TREATMENT</b>                                                   | Structured powder spray polyester based paint finish                                                                                           |
| <b>THICKNESS OF MOUNTING PLATE</b>                                         | 2 mm                                                                                                                                           |
| <b>WEIGHT OF MOUNTED COMPONENTS - MAX</b>                                  | 225 kg                                                                                                                                         |
| <b>DEGREE OF PROTECTION</b>                                                | 12 (NEMA)<br>IP66<br>IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only.<br>IP23 (with ventilating plates)<br>IK10 (impact resistance)<br>IK10 |

## Resources

|                            |                                                                                                                    |
|----------------------------|--------------------------------------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-xeffect-cs-new-features-fl015002zu.pdf</a>                                                       |
| CATALOGUES                 | <a href="#">eaton-xeffect-cs-enclosure-catalog-fk4300-1178gb-en-us.pdf</a>                                         |
| CERTIFICATION REPORTS      | <a href="#">eaton-xeffect-cs-enclosure-declaration-of-conformity-en-us.pdf</a>                                     |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-enclosure-declaration-of-conformity-eu250381en.pdf</a>                                           |
| INSTALLATION INSTRUCTIONS  | <a href="#">IL2521</a>                                                                                             |
| MCAD MODEL                 | <a href="#">DA-CS-cs88_200_111693</a><br><a href="#">eaton-front-access-switchboard-mcad-drawings-cs88-200.dwg</a> |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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