

# Specifications



## Eaton 111719

Eaton xEffect CS LV systems Switch- & Controlgear Enclosure. Wall enclosure with mounting plate,  
HxWxD=1200x1000x300mm

### General specifications

|                             |                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT NAME</b>         | Eaton xEffect CS enclosure single door                                                                                                                                                                                                           |
| <b>CATALOG NUMBER</b>       | 111719                                                                                                                                                                                                                                           |
| <b>MODEL CODE</b>           | CS-1210/300                                                                                                                                                                                                                                      |
| <b>EAN</b>                  | 4015081112784                                                                                                                                                                                                                                    |
| <b>PRODUCT LENGTH/DEPTH</b> | 300 mm                                                                                                                                                                                                                                           |
| <b>PRODUCT HEIGHT</b>       | 1200 mm                                                                                                                                                                                                                                          |
| <b>PRODUCT WIDTH</b>        | 1000 mm                                                                                                                                                                                                                                          |
| <b>PRODUCT WEIGHT</b>       | 83.15 kg                                                                                                                                                                                                                                         |
| <b>COMPLIANCES</b>          | UL CSA09 (may be provided with metal sub-panel, no back mounted components are allowed between sub-panel and the back sheet metal enclosure)<br>UL 508A; CSA-C22.2 No.14; IEC/EN 62208; CE marking<br>RoHS conform                               |
| <b>CERTIFICATIONS</b>       | UL CSA08 (request filed)<br>UL (Category Control Number NITW)<br>In accordance with Directive 2015/863/EU of the European Parliament and Council<br>IEC/EN 62208<br>UL (File No. E336299)                                                        |
| <b>CATALOG NOTES</b>        | Foamed polyurethane sealing throughout.<br>Impact resistance category IK10 to EN 62262. Sheet steel mounting plate.<br>Bottom plate with foamed gasket. Single door, door stop on the right, door opening angle 120°. Door hinge pins with quick |



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## Additional information

### FEATURES

Pole fastening  
Wall build in

### FITTED WITH:

Mounting plate  
Including M6 threaded  
welded studs for earth  
conductor connections in  
the door:  
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
- 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 change technology.
- Standardized locking system with sash fastener.
- Powder coating RAL 7035 inside and outside
- 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

Gray  
Light gray (RAL 7035)

### 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>                   | Closed<br>Door hinges on the right, can be converted by user<br>Standard closure 3 mm double-ward key (door interlock)                                                        |
| <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>           | 173 mm x 932 mm                                                                                                                                                               |
| <b>INSTALLATION SITE</b>                 | Indoor installation                                                                                                                                                           |
| <b>INSTALLATION TYPE</b>                 | Floor standing wall model                                                                                                                                                     |
| <b>LOAD CAPACITY (DOOR)</b>              | 40 kg                                                                                                                                                                         |
| <b>LOAD CAPACITY (MOUNTING PLATE)</b>    | 350 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<br>Steel plate                                                                                                                                                          |
| <b>MATERIAL QUALITY</b>                  | Other                                                                                                                                                                         |
| <b>MATERIAL THICKNESS (BODY)</b>         | 1.5 mm                                                                                                                                                                        |
| <b>MATERIAL THICKNESS (BOTTOM PLATE)</b> | 2 mm                                                                                                                                                                          |
| <b>MATERIAL THICKNESS (DOOR)</b>         | 2 mm                                                                                                                                                                          |
| <b>MOUNTING METHOD</b>                   | 9 mm drilling dimensions for wall mounting (Back plate)<br>Wall fastening<br>Intermediate mounting                                                                            |
| <b>MOUNTING PLATE HEIGHT</b>             | 1170 mm                                                                                                                                                                       |
| <b>MOUNTING PLATE MATERIAL</b>           | Sheet steel, hot-galvanized                                                                                                                                                   |
| <b>MOUNTING PLATE WIDTH</b>              | 950 mm                                                                                                                                                                        |

## Temperature-rise verification as per IEC 60890

|                                                                                                    |       |
|----------------------------------------------------------------------------------------------------|-------|
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 20°C WALL<br/>MOUNT MIDDLE ENCL.<br/>TOP (IEC 60890)</b>   | 149 W |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT MIDDLE ENCL.<br/>TOP (IEC 60890)</b>   | 294 W |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 20°C WALL<br/>MOUNT INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 166 W |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 20°C WALL<br/>MOUNT STARTING ENCL.<br/>TOP (IEC 60890)</b> | 158 W |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT INDIVID. ENCL.<br/>TOP (IEC 60890)</b> | 312 W |
| <b>HEAT DISS. AMBIENT<br/>35°C DELTA T: 35°C WALL<br/>MOUNT STARTING ENCL.<br/>TOP (IEC 60890)</b> | 301 W |
| <b>HEAT DISS. WALL MOUNT<br/>INDIVIDUAL ENCL. TOP</b>                                              | 166 W |
| <b>HEAT DISS. WALL MOUNT<br/>MIDDLE ENCL. TOP</b>                                                  | 149 W |
| <b>HEAT DISS. WALL MOUNT<br/>STARTING ENCL. TOP</b>                                                | 158 W |
| <b>THERMAL DISSIPATION<br/>(DELTA T = 20 K)<br/>ACCORDING TO IEC/TR<br/>60890</b>                  | 166 W |

|                                                                            |                                                                                                                                                |
|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NUMBER OF CONNECTOR HOLES</b>                                           | 0                                                                                                                                              |
| <b>NUMBER OF COVERS/DOORS</b>                                              | 1                                                                                                                                              |
| <b>NUMBER OF F3A FLANGES</b>                                               | 3                                                                                                                                              |
| <b>NUMBER OF HINGES</b>                                                    | 3                                                                                                                                              |
| <b>NUMBER OF LOCKS</b>                                                     | 1                                                                                                                                              |
| <b>PERMISSIBLE LOAD OF THE DOOR(S) ACCORDING TO IEC 62208 - MAX</b>        | 400 N                                                                                                                                          |
| <b>PERMISSIBLE LOAD OF THE ENCLOSURE ACCORDING TO IEC 62208 - MAX</b>      | 3900 N                                                                                                                                         |
| <b>PERMISSIBLE LOAD OF THE MOUNTING PLATE ACCORDING TO IEC 62208 - MAX</b> | 3500 N                                                                                                                                         |
| <b>SURFACE FINISHING</b>                                                   | Gloss<br>Structured powder spray polyester based paint finish<br>Semi-textured<br>Powder coating                                               |
| <b>SURFACE TREATMENT</b>                                                   | Structured powder spray polyester based paint finish                                                                                           |
| <b>THICKNESS OF MOUNTING PLATE</b>                                         | 3 mm                                                                                                                                           |
| <b>WEIGHT OF MOUNTED COMPONENTS - MAX</b>                                  | 390 kg                                                                                                                                         |
| <b>DEGREE OF PROTECTION</b>                                                | IP66<br>IP23 (with ventilating plates)<br>IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only.<br>12 (NEMA)<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-cs108_300_111719</a><br><a href="#">eaton-front-access-switchboard-mcad-drawings-cs108-300.dwg</a> |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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