

Specifications



Eaton 111646

Eaton xEffect CS LV systems Switch- & Controlgear Enclosure. Wall enclosure with mounting plate, HxWxD=250x200x150mm

General specifications

PRODUCT NAME	Eaton xEffect CS enclosure single door
CATALOG NUMBER	111646
MODEL CODE	CS-2520/150
EAN	4015081112050
PRODUCT LENGTH/DEPTH	150 mm
PRODUCT HEIGHT	250 mm
PRODUCT WIDTH	200 mm
PRODUCT WEIGHT	3.5 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
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CERTIFICATIONS	UL (File No. E336299) IEC/EN 62208 In accordance with Directive 2015/863/EU of the European Parliament and Council UL CSA08 (request filed) UL (Category Control Number NITW)
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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
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Additional information

FEATURES

Wall build in
Pole fastening

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

- Enclosed, foamed gasket
- Foamed polyurethane sealing throughout.
- Impact resistance category IK10 to EN 62262.
- Sheet steel mounting plate
- Bottom plate with foamed gasket.
- Lock, 3 mm double ward key
- Including M6 threaded welded studs for earth conductor connections in the door
- Side plates without apertures
- 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
- 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

10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility.
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility.
10.13 MECHANICAL FUNCTION	Meets the product standard's requirements.
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES	Meets the product standard's requirements.
10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT	Meets the product standard's requirements.
10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.5 LIFTING	Does not apply to enclosures without lifting aids.
10.2.6 MECHANICAL IMPACT	IK10
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	IP66
10.4 CLEARANCES AND CREEPAGE DISTANCES	Is the panel builder's responsibility.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	< 0.1 Ω ; meets the product standard's requirements.
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Is the panel builder's responsibility.
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
10.8 CONNECTIONS FOR	Is the panel builder's

Design verification to IEC/EN 61439 - technical data

AMBIENT OPERATING TEMPERATURE DETAILS	-25 °C - 40 °C
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EXTERNAL CONDUCTORS	responsibility.
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Ui = 1000 V AC
10.9.3 IMPULSE WITHSTAND VOLTAGE	Does not apply to basic enclosures as defined in EN 62208.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Does not apply to metal enclosures.

Technical data - mechanical

CLIMATIC PROOFING	Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
COVER/DOOR ANGLE	120° door opening angle
COVER/DOOR PROFILE	1 door profile
COVER/DOOR TYPE	Door hinges right Standard closure 3 mm double-ward key (door interlock) Can be converted by user Door hinges on the right, can be converted by user
DESIGN TYPE	Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.
FLANGE PLATE DIMENSIONS	112 mm x 167 mm
INSTALLATION SITE	Indoor installation
INSTALLATION TYPE	Floor standing wall model
LOAD CAPACITY (DOOR)	25 kg
LOAD CAPACITY (MOUNTING PLATE)	500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure. 125 kg
MATERIAL	Steel plate Steel
MATERIAL QUALITY	Other
MATERIAL THICKNESS (BODY)	1.2 mm
MATERIAL THICKNESS (BOTTOM PLATE)	2 mm
MATERIAL THICKNESS (DOOR)	1 mm
MOUNTING METHOD	9 mm drilling dimensions for wall mounting (Back plate) Wall fastening Intermediate mounting
MOUNTING PLATE HEIGHT	220 mm
MOUNTING PLATE MATERIAL	Sheet steel, hot-galvanized
MOUNTING PLATE	150 mm

Temperature-rise verification as per IEC 60890

**HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890)** 9 W

**HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT MIDDLE ENCL.
TOP (IEC 60890)** 21 W

**HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890)** 11 W

**HEAT DISS. AMBIENT
35°C DELTA T: 20°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890)** 10 W

**HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT INDIVID. ENCL.
TOP (IEC 60890)** 25 W

**HEAT DISS. AMBIENT
35°C DELTA T: 35°C WALL
MOUNT STARTING ENCL.
TOP (IEC 60890)** 23 W

**HEAT DISS. WALL MOUNT
INDIVIDUAL ENCL. TOP** 11 W

**HEAT DISS. WALL MOUNT
MIDDLE ENCL. TOP** 9 W

**HEAT DISS. WALL MOUNT
STARTING ENCL. TOP** 10 W

**THERMAL DISSIPATION
(DELTA T = 20 K)
ACCORDING TO IEC/TR
60890** 11 W

WIDTH	
NUMBER OF CONNECTOR HOLES	0
NUMBER OF COVERS/DOORS	1
NUMBER OF HINGES	2
NUMBER OF LOCKS	1
PERMISSIBLE LOAD OF THE DOOR(S) ACCORDING TO IEC 62208 - MAX	250 N
PERMISSIBLE LOAD OF THE ENCLOSURE ACCORDING TO IEC 62208 - MAX	1500 N
PERMISSIBLE LOAD OF THE MOUNTING PLATE ACCORDING TO IEC 62208 - MAX	1250 N
SURFACE FINISHING	Semi-textured Powder coating Gloss Structured powder spray polyester based paint finish
SURFACE TREATMENT	Structured powder spray polyester based paint finish
THICKNESS OF MOUNTING PLATE	2 mm
WEIGHT OF MOUNTED COMPONENTS - MAX	150 kg
DEGREE OF PROTECTION	IP66 IP23 (with ventilating plates) IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only. 12 (NEMA) IK10 IK10 (impact resistance)

Resources

BROCHURES	eaton-xeffect-cs-new-features-fl015002zu.pdf
CATALOGUES	eaton-xeffect-cs-enclosure-catalog-fk4300-1178gb-en-us.pdf
CERTIFICATION REPORTS	eaton-xeffect-cs-enclosure-declaration-of-conformity-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-enclosure-declaration-of-conformity-eu250381en.pdf
INSTALLATION INSTRUCTIONS	IL2521
MCAD MODEL	DA-CS-cs2520_150_111646 eaton-front-access-switchboard-mcad-drawings-cs2520-150.dwg

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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