

Wall enclosure with mounting plate, HxWxD=500x500x250mm

Part no. **CS-55/250**
 Catalog No. **111691**

EL-Nummer
 (Norway) **2466115**



Powering Business Worldwide™

Delivery program

Product range		Wall-mounting housing CS
Product function		Wall-mounting housing with mounting plate
Degree of Protection		IP66 IP23 (with ventilating plates)
Description		Foamed polyurethane sealing throughout. Impact resistance category IK09 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
Material		Steel plate
Dimensions		
Width	mm	500
Height	mm	500
Depth	mm	250
Locks	Number	2
Hinges	Number	2
Door profile molding	Number	2
Flange plates	Width x Depth mm	172 x 432
Max. F3A flanges	Number	1
Mounting plates		
Height	mm	470
Width	mm	450
Weight	kg	14.5
Information about equipment supplied		Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door

Technical data

General

Standards		IEC/EN 62208
RoHS		in accordance with Directive 2015/863/EU of the European Parliament and Council
RoHS (in accordance with Directive 2002/95/EC of the European Parliament and Council)		yes
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature	°C	-25 - +40
Degree of Protection		IP66 IP23 (with ventilating plates)
Installation conditions		Indoor installation
Power loss		Power loss P_v [W] for fully enclosed sheet steel enclosure CS without internal partitions for wall mounting. Example: max. ambient temperature 35°C; Overtemperature $\Delta T = 20$ K; Relative humidity = 75%.
Max. heat dissipation		
Individual enclosure for wall mounting	P_v	W 45
Starting enclosure for wall mounting	P_v	W 42
Middle enclosure for wall mounting	P_v	W 39

Material characteristics

Material		Steel plate
Surface treatment		Structured powder spray polyester based paint finish

Surface finish		Semi-textured
Colour		light gray (RAL 7035)
Finish		Gloss
Material thickness	mm	
Body	mm	1.2
Mounting plate	mm	2
Door	mm	1.2
Bottom plate	mm	2

Material properties

Mechanical		
Impact resistance		IK09 according to EN 62262
max. assembly weights		
Total of Weight of fitted components	kg	225
Mounting plate	kg	200
Door	kg	25
		500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure.

Description/standard features

Construction		Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.
Back plate		9 mm drilling dimensions for wall mounting
Side plates		Without apertures
Top plate		Without apertures
Bottom plate		Enclosed, foamed gasket, can be unscrewed for F3A-... flanges or for assembly by user
Mounting plate, material		Sheet steel, hot-galvanized
Door, Engineering		Including M6 threaded welded studs for earth conductor connections in the door:
Information about equipment supplied		Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door
		If electrical apparatus is to be installed in the door, a continuous, permanent protective ground contactor connection must be established with a protective ground cable. The threaded welded studs on the door and on the cabinet side wall must be used as connecting points for the ground leads.
Door hinges		On the right, can be converted by user
Type Door		Door hinges right can be converted by user
door opening angle		120°
Door interlock		Standard closure 3 mm double-ward key
Locks	Number	2

Design verification as per IEC/EN 61439

Technical data for design verification		
Heat dissipation, at an ambient temperature of 35°C, delta T: 20 degrees in top of the enclosure, calculated as per IEC 60890		
Individual enclosure for wall mounting	P _V	W 45
Starting enclosure for wall mounting	P _V	W 42
Middle enclosure for wall mounting	P _V	W 39
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees in top of the enclosure, calculated as per IEC 60890		
Individual enclosure for wall mounting	P _V	W 94
Starting enclosure for wall mounting	P _V	W 89
Middle enclosure for wall mounting	P _V	W 83
IEC/EN 61439 design verification		
10.2 Strength of materials and parts		
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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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		IK09
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 external conductors		Is the panel builder's responsibility.
10.9 Insulation properties		
10.9.2 Power-frequency electric strength		U _i = 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.
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.

Technical data ETIM 8.0

Cabinet enclosures (EG000011) / Enclosure/cabinet (empty) (EC000261)

Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016])

Width	mm	500
Height	mm	500
Depth	mm	250
Material		Steel
Material quality		Other
Surface finishing		Powder coating
Colour		Grey
RAL-number		7035
Detached		No
Floor standing/wall model		Yes
Suitable for wall mounting		Yes
Corner model		No
Intermediate mounting		Yes
Connectable		No
With mounting plate		Yes
Mounting plate depth-adjustable		No
Suitable for wall built-in		Yes
Pole fastening		Yes
Number of doors		1
Number of locks		2
Suitable for metrical mounting		Yes
Suitable for outdoor set-up		No
Pitched roof		No
EMC-version		No
With glazed door		No
With ventilation door		No
With backside door		No
Impact strength		IK09
Degree of protection (IP)		IP66
Degree of protection (NEMA)		12
Thermal dissipation (Delta T = 20 K) according to IEC/TR 60890	W	45
Max. permissible load of the enclosure according to IEC 62208	N	2250
Max. permissible load of the door(s) according to IEC 62208	N	250
Max. permissible load of the mounting plate according to IEC 62208	N	2000

