DATASHEET - CS-86/250

Wall enclosure with mounting plate, HxWxD=800x600x250mm

Part no.	**CS-86/250**
Catalog No.	**111707**
EL-Nummer (Norway)	**2466131**

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	600
Height		mm	800
Depth		mm	250
Locks	Number		2
Hinges	Number		3
Door profile molding	Number		2
Flange plates	Width x Depth	mm	172 x 532
Max. F3A flanges	Number		2
Mounting plates			
Height		mm	770
Width		mm	550
Weight		kg	32.8
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 ΔT = 20 K; Relative humidity = 75%.
Max. heat dissipation			
Individual enclosure for wall mounting	P_V	W	75
Starting enclosure for wall mounting	P_V	W	70
Middle enclosure for wall mounting	P_V	W	65

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	1.5
Mounting plate		mm	3
Door		mm	1.5
Bottom plate		mm	2

Material properties

Mechanical			
Impact resistance			IK09 according to EN 62262
max. assembly weights			
Total of Weight of fitted components		kg	325
Mounting plate		kg	300
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			closed
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	75
Starting enclosure for wall mounting	P_V	W	70
Middle enclosure for wall mounting	P_V	W	65
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	143
Starting enclosure for wall mounting	P_V	W	134
Middle enclosure for wall mounting	P_V	W	126
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	600
Height		mm	800
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	75
Max. permissible load of the enclosure according to IEC 62208		N	3250
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	3000

© 07/2022 by Eaton Industries GmbH