DATASHEET - CS-2520/150

Wall enclosure, +mounting plate, HxWxD=250x200x150mm

Part no. CS-2520/150
Catalog No. 111646

EL-Nummer (Norway) 0002466100

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	200
Height		mm	250
Depth		mm	150
Locks	Number		1
Hinges	Number		2
Door profile molding	Number		1
Flange plates	Width x Depth	mm	112 x 182
Max. F3A flanges	Number		-
Mounting plates			
Height		mm	220
Width		mm	150
Weight		kg	3.4
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 60529, IEC 62262, IEC/EN 62208
RoHS			In accordance with Directive 2002/95/EC 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	-40 - +70
Degree of Protection			IP66 IP23 (with ventilating plates)
Installation conditions			Indoor-/outdoor 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	11
Starting enclosure for wall mounting	P_V	W	10
Middle enclosure for wall mounting	P_V	W	9

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
Bottom plate		mm	1.5

Material properties

Mechanical			
Impact resistance			IK09 according to EN 62262
max. assembly weights			
Total of Weight of fitted components		kg	150
Mounting plate		kg	125
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			Protection insulated turn-buckle Standard closure 3 mm double-ward key
Locks	Number		1

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	13
Starting enclosure for wall mounting	P_V	W	12
Middle enclosure for wall mounting	P_V	W	11
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	25
Starting enclosure for wall mounting	P_V	W	23
Middle enclosure for wall mounting	P_V	W	21
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_x
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 7.0

Cabinet enclosures (EG000011) / Enclosure/switchgear 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	200
Height	mm	250
Depth	mm	150
Material		Steel
Material quality		Other
Surface finishing		Powder coating
Colour		Grey
RAL-number		7035
With mounting plate		Yes
Mounting plate depth-adjustable		Yes
Number of locks		1
Floor installation possible		Yes
Wall fastening possible		Yes
Wall build in		Yes
Pole fastening		Yes
Tackable		Yes
Number of doors		1
Suitable for metrical mounting		Yes
Suitable for outdoor set-up		No
Pitched roof		No
EMC-version		Yes
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

Approvals

Product Standards		UL 508A; CSA-C22.2 No.14; IEC/EN 60529; CE marking
UL File No.		E336299
UL Category Control No.		NITW

CSA File No.	–
CSA Class No.	–
North America Certification	Request filed for CSA
Conditions of Acceptability	Series CS may be provided with metal sub-panel. No back mounted components are allowed between sub-panel and the back sheet metal enclosure
Specially designed for North America	No
Suitable for	Industrial Control Panels
Degree of Protection	IEC: IP66, indoor and outdoor; UL/CSA Types 1, 12, indoor only.

Dimensions

Dimensions

Additional product information (links)

AWA4300-2521 CS wall-mounted sheet steel enclosures with mounting plate	
AWA4300-2521 CS wall-mounted sheet steel enclosures with mounting plate	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/25210414.pdf
Declaration of conformity	http://intranet.moeller.net/technik_daten/file/produkt_deklarationen/file/konformitaeten/00002/00002259.pdf