DATASHEET - CS-33/200



Wall enclosure with mounting plate, HxWxD=300x300x200mm

Powering Business Worldwide*

Part no. CS-33/200 Catalog No. 111649

EL-Nummer (Norway) 2466103

Delivery program

Don'tory 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	300
Height	mm	300
Depth	mm	200
Locks	Number	1
Hinges	Number	2
Door profile molding	Number	2
Flange plates	Width x Depth mm	172 x 262
Max. F3A flanges	Number	1
Mounting plates		
Height	mm	270
Width	mm	250
Weight	kg	6.1
Information about equipment supplied		Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door

Technical data

Surface treatment

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 $P_v\left[W\right]$ 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	19
Starting enclosure for wall mounting	P_{V}	W	18
Middle enclosure for wall mounting	P_{V}	W	16
Material characteristics			
Material			Steel plate

Structured powder spray polyester based paint finish

Surface finish Colour C			
Finish Material thickness mm	Surface finish		Semi-textured
Material thickness mm Body mm 12 Mounting plate mm 2 Door mm 3 Bottom plate mm 2 Machanical limpact resistance max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights Total of Weight of fitted components kg 150 Mounting plate max. assembly weights are symmetrically distributed within the enclosure. Description/standard features Construction Back plate Side plates Without apertures Top plate Bottom plate Mounting plate, material Door, Engineering Information about equipment supplied insults or back of the ground contact for the ground claude. In the treaded welded studs on the door, a continuous, permanent protective ground contact for the ground claude with a protective ground accordance for the ground contact for the ground each can be converted by user Type Door Type	Colour		light gray (RAL 7035)
Body Mounting plate mm 2 Door mm 1 Bottom plate mm 2 Material properties Machanical Impact resistance Impact resistance Impact resistance Impact resistance Mounting plate Mounting plate Mounting plate Mounting plate Beck plate Bottom	Finish		Gloss
Mounting plate miles make miles mile	Material thickness	mm	
Door Bottom plate mm 2 Material properties Mechanical Impact resistance Impact res	Body	mm	1.2
Bettom plate men properties Machanical Impact resistance Impact R	Mounting plate	mm	2
Mechanical Impact resistance max. assembly weights Total of Weight of fitted components Mounting plate Door Back plate Side plates Total of Weight of Methanical Construction Canada Sam weight of including two M6 threaded bolts for earth conductor connections in the door. Engineering Mounting plate Without apertures Mounting plate, material Door, Engineering	Door	mm	1
Mechanical Impact resistance max. assembly weights Total of Weight of fitted components Mounting plate Door Door Description/standard features Construction Back plate Side plates Total plate Bottom plate Mounting plate Door Back plate Bottom plate Bott	Bottom plate	mm	2
Impact resistance max. assembly weights Total of Weight of fitted components Mounting plate Door Rg Rg Soo Rg 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 Construction Construction Side plates Side plate Side plates Side plates Side plate Side plates Side plate Side plate Side plates Side plate Side plates Side plate Side pla	Material properties		
max. assembly weights Total of Weight of fitted components Mounting plate Door kg 125 500 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. 9 sm dilmensions for wall mounting Without apertures Without apertures Without apertures Bottom plate Bottom plate, material Door, Engineering Information about equipment supplied Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door: I electrical apparatus is to be installed in the door, a continuous, permanent protective ground cable. The threaded welded wild with a protective ground cable. The threaded welded wild with a protective ground cable. The threaded welded studs on the door and on the cabinet side wall must be used as 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 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 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 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 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 connection must be established with a protective ground cable. Door hinges Type Door door opening angle	Mechanical		
Total of Weight of fitted components Mounting plate Door kg 25 book gp 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 Back plate Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure. 9 mm drilling dimensions for wall mounting Without apertures Oncy Engineering Mounting plate, material Door, Engineering Information about equipment supplied Door, Engineering Door binges Door hinges Door hinges in the door have been been been been been been been be	Impact resistance		IK09 according to EN 62262
Mounting plate No No No No No No No N	max. assembly weights		
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 Without apertures Without apertures Without apertures Bottom plate Bottom plate Mounting plate, material Door, Engineering Information about equipment supplied Without apertures Sheet steel, hot-galvanized Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door with redective ground coalactor connections in the door are referred apparatus is to be installed in the door, a continuous, permanent reflective ground coalactor 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 Type Door door opening angle 120°	Total of Weight of fitted components	kg	150
S00 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	Mounting plate	kg	125
horizontally) and the weights are symmetrically distributed within the enclosure. Description/standard features	Door	kg	25
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 Without apertures Without apertures Without apertures Bottom plate Enclosed, foamed gasket, can be unscrewed for F3A flanges or for assembly by user Mounting plate, material 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 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 Type Door Type Door door opening angle 120°			
connections inside the enclosure. Back plate 9 mm drilling dimensions for wall mounting Without apertures Without apertures Without apertures Without apertures Enclosed, foamed gasket, can be unscrewed for F3A flanges or for assembly by user Mounting plate, material Door, Engineering Information about equipment supplied Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied Including M6 threaded welded studs for earth conductor	-		
Side plates Top plate Bottom plate Without apertures Enclosed, foamed gasket, can be unscrewed for F3A flanges or for assembly by user Mounting plate, material Door, Engineering Including M6 threaded welded studs for earth conductor connections in the door: Information about equipment supplied 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 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 Type Door Door hinges right can be converted by user door opening angle 120°	Construction		
Top plate Bottom plate Botto	Back plate		9 mm drilling dimensions for wall mounting
Bottom plate Enclosed, foamed gasket, can be unscrewed for F3A flanges or for assembly by user Sheet steel, hot-galvanized Door, Engineering Including M6 threaded welded studs for earth conductor connections in the door: 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 Type Door Door hinges right can be converted by user door opening angle 120°	Side plates		Without apertures
Mounting plate, material Door, Engineering Including M6 threaded welded studs for earth conductor connections in the door: 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 Type Door Door hinges right can be converted by user door opening angle 120°	Top plate		Without apertures
Door, Engineering Including M6 threaded welded studs for earth conductor connections in the door: 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 Type Door Door hinges right can be converted by user door opening angle 120°	Bottom plate		
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 code as connecting must be established with a protective ground code. 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 Type Door Door hinges right can be converted by user door opening angle 120°	Mounting plate, material		Sheet steel, hot-galvanized
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 Door hinges right can be converted by user door opening angle 120°	Door, Engineering		Including M6 threaded welded studs for earth conductor connections in the door:
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 Door hinges right can be converted by user door opening angle 120°	Information about equipment supplied		
Type Door Door hinges right can be converted by user door opening angle 120°			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
door opening angle can be converted by user 120°	Door hinges		On the right, can be converted by user
	Type Door		
Door interlock Standard closure 3 mm double-ward key	door opening angle		120°
	Door interlock		Standard closure 3 mm double-ward key

Design verification as per IEC/EN 61439

Locks

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	19
Starting enclosure for wall mounting	P_{V}	W	18
Middle enclosure for wall mounting	P_{V}	W	16
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	44
Starting enclosure for wall mounting	P_V	W	41
Middle enclosure for wall mounting	P_{V}	W	38
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 $ \frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left($			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.

Number

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 7.0

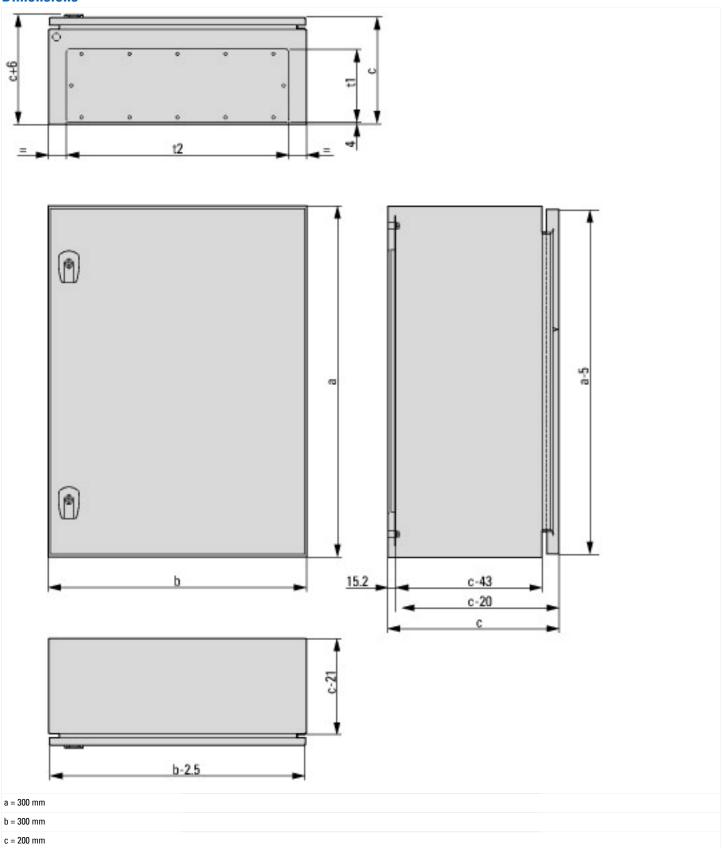
Cabinet enclosures (EG000011) / Enclosure/switchgear cabinet (empty) (EC000261)		
Electric engineering, automation, process control engineering / Electrical cabinet, housing	յ, rack / Electrica	ll cabinet (empty) / Electrical cabinet (ecl@ss10.0.1-27-18-01-01 [AGZ056016])
Width	mm	300
Height	mm	300
Depth	mm	200
Material		Steel
Material quality		Other
Surface finishing		Powder coating
Colour		Grey
RAL-number		7035
With mounting plate		Yes
Mounting plate depth-adjustable		No
Number of locks		1
Floor installation possible		Yes
Wall fastening possible		Yes
Wall build in		Yes
Pole fastening		Yes
Tackable		No
Number of doors		1
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

Approvals

Product Standards	UL 508A; CSA-C22.2 No.14; IEC/EN 62208; 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; UL/CSA Types 1, 12, indoor only.

Dimensions



t1 = 172 mm