

## Wall enclosure with mounting plate, HxWxD=500x400x250mm

Part no. CS-54/250  
111690  
EL Number 2466114  
(Norway)

General specifications		
Product name		Eaton xEffect CS enclosure single door
Part no.		CS-54/250
EAN		4015081112494
Product Length/Depth		250 millimetre
Product height		500 millimetre
Product width		400 millimetre
Product weight		12.28 kilogram
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
Certifications		IEC/EN 62208 UL (Category Control Number NITW) UL (File No. E336299) In accordance with Directive 2015/863/EU of the European Parliament and Council UL CSA08 (request filed)
Product Tradename		xEffect CS
Product Type		Enclosure
Product Sub Type		Single door
Delivery program		
Type		Wall-mounting housing CS Wall-mounting housing with mounting plate
Color		Gray Light gray (RAL 7035)
Technical Data - Mechanical		
Design type		Canted and seam welded, including two M6 threaded bolts for earth conductor connections inside the enclosure.
Surface finishing		Semi-textured Powder coating Structured powder spray polyester based paint finish Gloss
Surface treatment		Structured powder spray polyester based paint finish
Mounting method		9 mm drilling dimensions for wall mounting (Back plate) Wall fastening Intermediate mounting
Mounting plate height		470 mm
Mounting plate material		Sheet steel, hot-galvanized
Mounting plate width		350 mm
Material		Steel Steel plate
Material thickness (body)		1.2 mm
Material thickness (bottom plate)		2 mm
Material thickness (door)		1.2 mm
Material quality		Other
Degree of protection		IEC: IP66, indoor; UL/CSA Types 1, 12, indoor only. IK09 12 (NEMA) IK09 (impact resistance) IP66 IP23 (with ventilating plates)
Number of F3A flanges		1
Number of connector holes		0
Number of covers/doors		1
Number of hinges		2
Number of locks		2
Load capacity (door)		25 kg

Load capacity (mounting plate)		200 kg 500 kg payload, when brackets fitted in all four enclosure corners (vertically or horizontally) and the weights are symmetrically distributed within the enclosure.
Permissible load of the door(s) according to IEC 62208 - max		250 N
Permissible load of the enclosure according to IEC 62208 - max		2250 N
Permissible load of the mounting plate according to IEC 62208 - max		2000 N
Weight of mounted components - max		225 kg
Cover/door angle		120° door opening angle
Cover/door profile		2 door profiles
Cover/door type		Door hinges on the right, can be converted by user Door hinges right Standard closure 3 mm double-ward key (door interlock) Can be converted by user
Flange plate dimensions		112 mm x 332 mm
Installation site		Indoor installation
Installation type		Floor standing wall model
Thickness of mounting plate		2 mm
Climatic proofing		Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
<b>Temperature-rise verification as per IEC 60890</b>		
Heat diss. ambient 35°C delta T: 20°C wall mount middle encl. top (IEC 60890)		33 W
Heat diss. ambient 35°C delta T: 35°C wall mount middle encl. top (IEC 60890)		69 W
Heat diss. ambient 35°C delta T: 20°C wall mount individ. encl. top (IEC 60890)		39 W
Heat diss. ambient 35°C delta T: 20°C wall mount starting encl. top (IEC 60890)		36 W
Heat diss. ambient 35°C delta T: 35°C wall mount individ. encl. top (IEC 60890)		80 W
Heat diss. ambient 35°C delta T: 35°C wall mount starting encl. top (IEC 60890)		74 W
Heat diss. wall mount individual encl. top		39 W
Heat diss. wall mount middle encl. top		33 W
Heat diss. wall mount starting encl. top		36 W
Thermal dissipation (Delta T = 20 K) according to IEC/TR 60890		39 W
<b>Design verification as per IEC/EN 61439 - technical data</b>		
Ambient operating temperature details		-25 °C - 40 °C
<b>Design verification as per IEC/EN 61439</b>		
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		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.
10.9.2 Power-frequency electric strength		U <sub>i</sub> = 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.
<b>Additional information</b>		
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		Bottom plate enclosed, foamed gasket, can be unscrewed for F3A-... flanges or for assembly by user 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. Lock, 3 mm double ward key Including M6 threaded welded studs for earth conductor connections in the door Side plates without apertures 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

## Technical data ETIM 9.0

Cabinet enclosures (EG000011) / Enclosure/cabinet (empty) (EC000261)			
Electric engineering, automation, process control engineering / Electrical cabinet, housing, rack / Electrical cabinet (empty) / Electrical cabinet, Empty enclosures (ec@ss13-27-18-01-01 [AGZ056021])			
Width	mm	400	
Height	mm	500	
Depth	mm	250	
Material		Steel	
Material quality		Other	
Surface finishing		Powder coating	
Colour		Grey	
RAL-number		7035	
Freestanding		No	
Floor standing wall model		Yes	
Suitable for wall mounting		Yes	
Corner model		No	
Intermediate mounting		Yes	
Couplable		No	
With mounting plate		Yes	
Mounting plate depth-adjustable		No	
Suitable for wall built-in		Yes	
Pole fastening		Yes	
With door		Yes	
Number of doors		1	
With glazed door		No	
With ventilation door		No	
With rear door		No	
Number of locks		2	
With cover		Yes	
Transparent cover		No	
Suitable for metrical mounting		Yes	
Suitable for outdoor set-up		No	
Pitched roof		No	
Number of connector holes		0	
Pre-stamping		No	
EMC-version		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	39	
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	

