# **DATASHEET - CI23X-150**



## Insulated enclosure, smooth sides, HxWxD=250x187.5x175mm

Powering Business Worldwide\*

Part no. CI23X-150 Catalog No. 015154

EL-Nummer (Norway) 0002502140

## **Delivery program**

Product range  2	Delivery program		
Basic function Product function Single unit/Complete unit Standards Degree of Protection Description Colour Width Height Depth Mounting depth for mounting rail 15 mm height Legend for the graphic Legend for the graphic Legend for the graphic Legend for the graphic Type cover Type cover	Dimensions	mm	2 0
Product function Single unit/Complete unit Standards Single unit/Complete unit Single S	Product range		xEnergy Safety Ci
Single unit/Complete unit Standards En 9228 En 9228 En 91289-2  Description De	Basic function		Basic enclosures
Standards  Degree of Protection  Description  Colour  Colour  Midth  mm 187.5  AL 7008, light gray (base) Transparent, snoky gray (cover)  mm 175  Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height  Legend for the graphic  Enclosure depth  Enclosure depth  Enclosure depth  Financian and the standards and	Product function		Individual enclosures
Degree of Protection  Description  Description  Description  Colour  FATORS, light gray for wall mounting convert factorers include fixing straps for wall mounting members and part of the part of th	Single unit/Complete unit		Stand-alone device
Description  Smooth side plates, without knockouts Sealable cover fasteners include fixing strays for well mounting include fixing strays for well mounting.  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent, smoky gray (cover)  RAI 7035, light gray (base) Transparent smoky gray (cover)  RAI 7035, light gray (base) Transparent shook out include fixing states of transparent shook out include fixing states	Standards		
Sealable for over fasteners include fixings for wall mounting include fixings for wall mounting.  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent, smoky gray (cover)  RAL 7055, light gray (base) Transparent  PRAL 7055, light gray (base) Transparent  RAL 7055, light gray (cover)  RAL 7055, light gr	Degree of Protection		IP65
Width mm 187.5  Height mm 250  Depth mm 175  Mounting depth with mounting plate mounting rail 7.5 mm height mounting rail 15 mm height mounting depth for mounting depth for mounting rail 15 mm height mounting depth for mounting depth for mounting rail 15 mm height m	Description		Sealable cover fasteners
Height mm 250 Depth mm 175 Mounting depth with mounting plate mm 150 Mounting depth for mounting rail 7.5 mm height mm 142.5  Enclosure depth  Legend for the graphic Dimensions from top: Mounting depth with mounting plate Mounting depth with mounting plate Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  Enclosure depth mm 155  Type cover Transparent Transparent  mm 175  142.5  175  176  177  177  177  177  177  17	Colour		RAL 7035, light gray (base) Transparent, smoky gray (cover)
Depth Mounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height  Enclosure depth  Legend for the graphic  Enclosure depth  Enclosure depth  Type cover  In a page 17.5 mm height mounting rail 15 mm height mounting rail 15 mm height mounting rail 15 mm height mounting depth for mounting plate mounting depth for mounting plate mounting depth for mounting rail 1.5 mm height mounting depth for mounting rail 1.5 mm height mounting depth for mounting rail 1.5 mm height for closure depth  Type cover  In a page 17.5 mm height mounting rail 1.5 mm height mounting depth for mounting rail 1.5 mm height for mounting rail 1.5 mm height for late. The closure depth for mounting rail 1.5 mm height for mo	Width	mm	187.5
Mounting depth with mounting rail 7.5 mm height  Mounting depth for mounting rail 15 mm height  Legend for the graphic  Enclosure depth  Legend for the graphic  Enclosure depth  Type cover  mm 150  142.5  mm 142.5  mm 135  Dimensions from top: Mounting depth with mounting plate Mounting depth or mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Mounting depth for mounting rail 15 mm height Finclosure depth  mm 150  142.5  Transparent	Height	mm	250
Mounting depth for mounting rail 7.5 mm height  Enclosure depth  Legend for the graphic  Enclosure depth  Enclosure depth  Type cover  mm 142.5  mm 135  Dimensions from top: Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm	Depth	mm	175
Mounting depth for mounting rail 15 mm height  Legend for the graphic  Dimensions from top: Mounting depth with mounting plate Mounting depth for mounting rail 15 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  mm  Type cover  mm  Tiasparent  135  Dimensions from top: Mounting depth with mounting plate Mounting depth for mounting rail 15 mm height Enclosure depth  Transparent	Mounting depth with mounting plate	mm	150
Enclosure depth  Legend for the graphic  Dimensions from top: Mounting depth with mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  mm  mm  Type cover  Transparent			
Legend for the graphic  Dimensions from top: Mounting depth with mounting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  mm  150 142.5 135 175  Type cover  Dimensions from top: Mounting depth with mounting rail 15 mm height Mounting depth for mounting rail 15 mm height Final Park Park Park Park Park Park Park Park		mm	135
Enclosure depth  Enclosure depth  Type cover  Mounting depth with mounting pair No muniting rail 7.5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  mm  Type cover  Mounting depth for mounting rail 15 mm height Enclosure depth  mm  Transparent  Mounting depth with mounting pair No 5 mm height Mounting depth for mounting rail 15 mm height Enclosure depth  Transparent  Transparent  Transparent	Enclosure depth		
Type cover Transparent	Legend for the graphic		Mounting depth with mounting plate  Mounting depth for mounting rail 7.5 mm height  Mounting depth for mounting rail 15 mm height
	Enclosure depth	mm	142.5 
Model base Plain	Type cover		Transparent
	Model base		Plain

## **Technical data**

#### Genera

delleral		
Standards		EN 62208 EN 61439-2
Ambient temperature	°C	-40 - +80
Degree of Protection		IP65

## **Material characteristics**

Material	glass-fibre reinforced polycarbonate (base) non-reinforced polycarbonate (cover) Halogen free
Surface treatment	Resistant to corrosion
Material properties	
Thermal	
Temperature resistant	-40 °C - 120 °C (enclosure) 85 °C (enclosure bolt) 80 °C (gasket)
Chemical resistance	
Chemical resistant	Resistant against: Acids < 10 %, mineral oil, alcohol, gasoline, greases, salt solutions Partly resistant to: Acids > 10 % Not resistant to: alkalis, benzene
Atmospheric	
Saline spray	IEC 60068-2-11
UV resistance	Beneath protective shield
Flammability characteristics	
Flammability classification according to UL94	V1 (base) V2 (cover)

# Design verification as per IEC/EN 61439

200.g.: 10104.101. 40 por 120, 211 01 100			
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	26
Starting enclosure for wall mounting	$P_{V}$	W	24
Middle enclosure for wall mounting	$P_{V}$	W	22
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.
$10.2.3.3\ Verification\ of\ resistance\ of\ insulating\ materials\ to\ abnormal\ heat\ and\ fire\ due\ to\ internal\ electric\ effects$			Lower part: 960 °C / cover: 850 °C; meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Not relevant to indoor installations.
10.2.5 Lifting			$5\mathrm{kg}$ per enclosure with support frame and lifting aid met; assembled and secured as per the latest applicable instruction leaflet.
10.2.6 Mechanical impact			IK10
10.2.7 Inscriptions			Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES			IP65
10.4 Clearances and creepage distances			Is the panel builder's responsibility.
10.5 Protection against electric shock			Protection class 2, therefore not applicable.
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 <sub>i</sub> = 1000 V AC
10.9.3 Impulse withstand voltage			8 kV
10.9.4 Testing of enclosures made of insulating material			Meets the product standard's requirements.
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.

### **Technical data ETIM 7.0**

Distribution boards (EG000023) / Empty cabinet (EC000058)

Electric engineering, automation, process control engineering / Electrical installation, device / Electrical distribution system (incl. small distribution board) / Empty cabinet (small distribution board) (ecl@ss10.0.1-27-14-24-08 [ACN385011])

Doard) (eci@ss10.0.1-21-14-24-08 [ACN385011])		
Mounting method		Surface mounted (plaster)
Type of cover		Optional
Cover model Cover model		Closed
Type of door		None
Transparent cover/door		Yes
With lock		No
Nominal current (In)	Α	1600
Height	mm	250
Width	mm	187.5
Depth	mm	175
Built-in depth	mm	150
Internal depth	mm	150
Plate thickness cabinet	mm	9
Plate thickness door/cover	mm	6
Colour		Grey
RAL-number		7035
Number of modules		1
Number of rows		0
Width in number of modular spacings		9
Number of openings for flange plates		0
Extension possible		No
Number of conduit inlets		0
Material housing		Plastic
Surface protection		Other
With mounting plate		No
Suitable for outdoor use		Yes
Suitable for lightning protection		Yes
Degree of protection (IP)		IP65
Degree of protection (NEMA)		Other
Protection class		II
Impact strength		IK10
Circuit integrity		Other

# **Dimensions**

