

Insulated enclosure, top+bottom open, HxWxD=750x375x275mm

Part no. **C148-250**
 Catalog No. **083642**

EL-Nummer **4132084**
 (Norway)

Delivery program

Dimensions	mm	
Product range		Ci insulated enclosures
Basic function		Basic enclosures
Product function		Distribution board enclosure without cable gland plates
Single unit/Complete unit		Single unit
Degree of Protection		IP65
Description		Sealable cover fasteners Sides closed, but with full area knockout Open top and bottom
Type cover		Transparent
Width	mm	375
Height	mm	750
Depth	mm	275
Mounting depth with mounting plate	mm	250
Mounting depth for mounting rail 7.5 mm height	mm	242.5
Mounting depth for mounting rail 15 mm height	mm	235
Enclosure depth		
Legend for the graphic		Dimensions from top: 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	
Notes		
Distribution board with/without gland plates fitted		
<ul style="list-style-type: none"> Cover transparent, cover fasteners can be sealed 		

Ci distribution board enclosure without cable gland plates

- Degree of protection IP65
- Sides closed, but with full area knockout, open top and bottom

KST distribution board enclosure with cable gland plates fitted

- Degree of protection IP65 from below
- Sides closed, but with full area knockout, open at top
- Fitting of cable supports in the distribution board with wedge-lock fastener
- Gland plate can be split, cables can be inserted from the front

Technical data

General

Standards			IEC/EN 60529 EN 50262 DIN 43656 DIN 43660 EN 60439-4 for CI...X individual enclosures with combined distribution boards from Ci enclosures up to 680 A. Can thus be used for socket combinations and as component for construction site distribution boards.
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature		°C	-40 - +80
Ambient temperature			
Mean value over 24 hours		°C	35
Limit values		°C	
Ambient temperature limit value min.		°C	-5
Ambient air temperature, limit values max.		°C	40
Degree of Protection			IP65
Protection type			IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open)
Power loss			
Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C		W	164
Max. radiated heat dissipation in distribution board combination to VDE 0660 Part 500		W	93
Notes			When calculating the heat dissipation, the quadratic relationship of current with the rated diversity factor a must be considered. $P_v = I_2 \times R$ $P_v' = P_v \times a^2$ If no data is available concerning the load relationships of the individual circuits, the rated diversity factor is selected conform to VDE 0660 Part 500.
additional technical data for UL-/CSA- approved devices			see UL-report File No. E54120
Components			Switchgear assembly components are type-tested. They are available individually for the self-assembly of switchgear installations, distribution boards and control panels.
Devices that can be fitted			The reference values indicated in the table apply to the basic elements of the distribution board. As far as devices, terminals etc. fitted into the enclosures are concerned, their own specific technical data and rated values apply.
Standards			
TTA - Type Tested Assemblies			IEC/EN 60439-1, VDE 0660 Part 500
Low-voltage fuses			IEC/EN 60269, VDE 0636
Type test			VDE 0660 Part 500, IEC/EN 60439-1
Creepage and clearance distances			III/3 to IEC/EN 60439-1
Flammability characteristics - Glow rod test			VDE 0304 Part 3 level IIb, level IIb to IEC 60707
Regulation for the fire resistance tests of electrical products, their modules and components, glow wire test			VDE 0471 Part 2
Operating and ambient conditions to VDE 0660 Part 500			
Ambient temperature			
Mean value over 24 hours		°C	35
Limit values		°C	-5 ... 40
Indoor installation			
Relative humidity			90 % (at 20°C) 50% (at 40°C)
Altitude		m	Max. 2000

Protection type			IP65 (Enclosure) IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open)
Mounting grid		mm	25 (DIN 43660)
Colour			
Base			RAL 7032, pebble grey
Housing body			Transparent, colourless or RAL 7032, pebble grey
			Cl...-NA: Transparent cover, opaque
Surface finish			Galvanized Passivated

Material characteristics

Material			glass-fibre reinforced polycarbonate (base) non-reinforced polycarbonate (cover) Halogen free
Surface finish			Galvanized Passivated
Colour			RAL 7032, pebble grey (base) transparent, opaque (cover)
Colour			
Base			RAL 7032, pebble grey
Housing body			Transparent, colourless or RAL 7032, pebble grey

Material properties

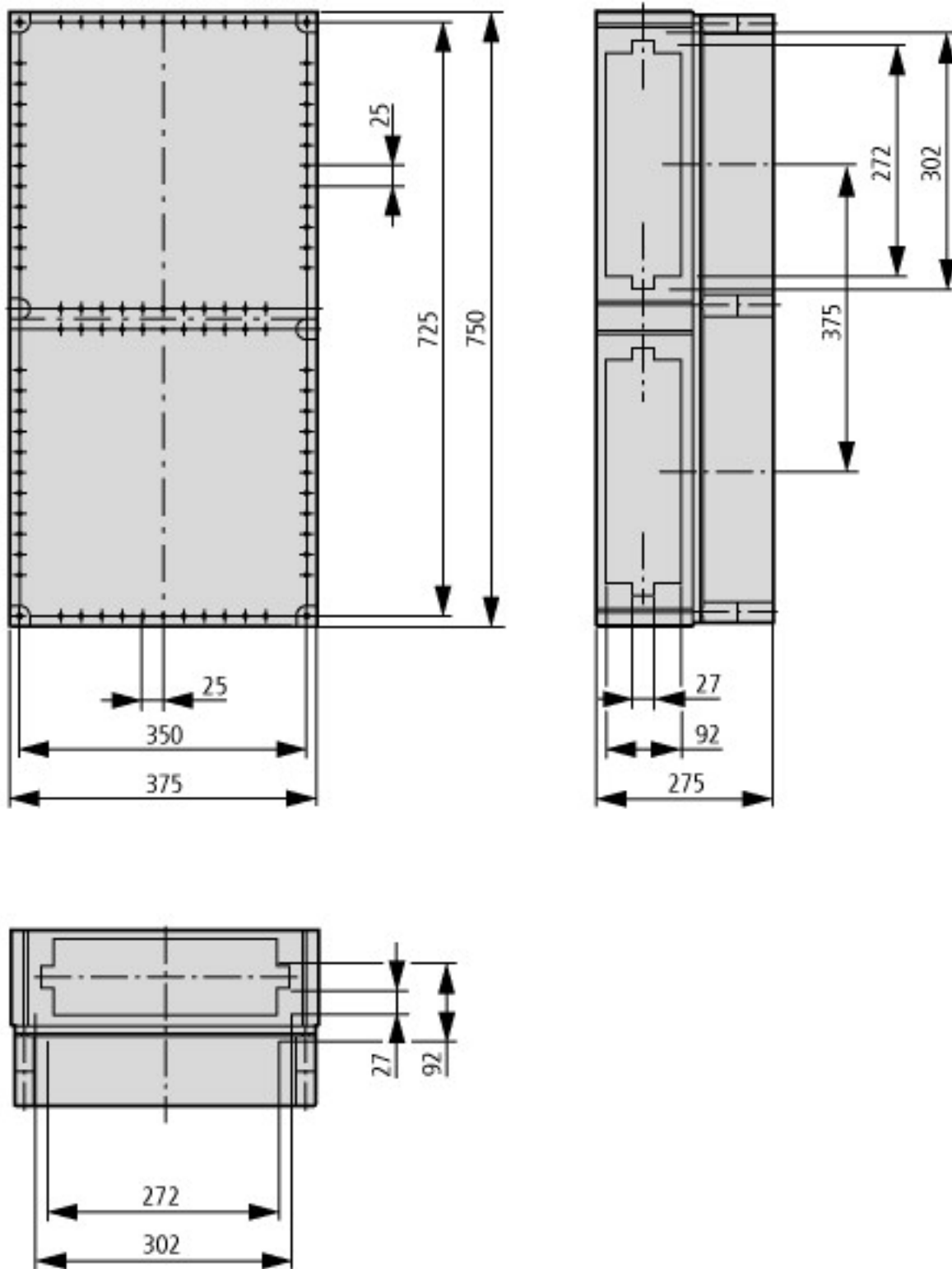
Electrical			
Track resistance			KB160, KC175 (base, to IEC 60112) KB100, KC200 (cover, to IEC 60112)
Surface resistance to IEC 60093		$\Omega \times 10^{13}$	1
Dielectric strength to IEC 60243-1		kV/mm	30
Thermal			
Temperature resistant			-40 °C - 120 °C (enclosure) 85 °C (enclosure bolt) 80 °C (gasket)
Mechanical			
Impact resistance			IK10 according to EN 50102
Loading capacity		kg/m ²	40
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
Water consumption to DIN EN ISO 62		%	0.29
Flammability characteristics			
Flammability classification according to UL94			V1 (base) V2 (cover)

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, calculated as per IEC 60890			
Individual enclosure for wall mounting	P _V	CO	52
Starting enclosure for wall mounting	P _V	CO	48
Middle enclosure for wall mounting	P _V	CO	44
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P _V	CO	105
Starting enclosure for wall mounting	P _V	CO	96
Middle enclosure for wall mounting	P _V	CO	88
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			40 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			$U_1 = 1000 \text{ V AC}$
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.
10.13 Mechanical function			Meets the product standard's requirements.

Dimensions



Additional product information (links)

Manufacturer's Declaration CI-RoHS

ftp://ftp.moeller.net/DOCUMENTATION/PDF/2013-01-31_Ci_RoHS.pdf

Declaration of conformity

ftp://ftp.moeller.net/DOCUMENTATION/PDF/ci_ce.pdf