



Part no. Article no.

C148-200 078896

### **Delivery programme**

Determining       and a set of the se	Delivery programme			
Basic function       Image: Basic enclosures         Product function       Image: Basic enclosures         Single untComplete unit       Image: Basic enclosure         Description       Image: Basic enclosure         Description       Image: Basic enclosure         Description       Image: Basic enclosure         Type enver       Image: Basic enclosure         Weth       Image: Basic enclosure         Height:       Image: Basic enclosure         Depth       Image: Basic enclosure         Mounting depth vint mounting plats       Image: Basic enclosure         Mounting depth vint mounting plats       Image: Basic enclosure         Legond for the graphic:       Image: Basic enclosure         Legond for the graphic:       Image: Basic enclosure         Fenclosure depth       Image: Basic enclosure         Enclosure depth       Image: Basic enclosure depth         Enclosure depth       Image: Basic enclosure depth         Enclosure depth       Image: Basic enclosure depth         Image: Basic enclosure depth       Image: Basic enclosure depth         Image: Basic enclosure depth       Image: Basic enclosure depth vint mounting plats         Image: Basic enclosure depth       Image: Basic enclosure depth vint mounting plats         Image: Basic enclosent depth	Dimensions	mr	Im	
Product function     Image: a product function product without cable gland plates       Single unit/Complete unit     Single unit       Description     Single unit       Description     Social Single unit       Description     Social Single unit       Type cover     Social Single unit       With     Image: Single unit       Height     Image: Single unit       Douting depth with mounting plate     Image: Single unit       Mouning depth for mounting rill 75 mm height     Image: Single unit       Released of the graphic     Image: Single unit       Image: Single unit     Single unit       Dept     Image: Single unit       Mouning depth for mounting rill 75 mm height     Image: Single unit       Releaser depth     Image: Single unit       Image: Single unit     Single unit       Image: Single unit     Single unit       Image: Single unit     Single unit       Mouning depth for mounting rill 75 mm height     Image: Single unit       Image: Single unit     Single unit	Product range			Ci insulated enclosures
Single unit/Complete unit       Image: Single unit       Field unit	Basic function			Basic enclosures
Description       PP6         Description       Selebile cover feators         Signed Cover feators       Signed Cover feators         Wetch       mm       75         Height       mm       25         Mounting dopth with mounting plate       mm       25         Mounting dopth for mounting plate       mm       25         Mounting dopth for mounting plate       mm       25         Mounting dopth with mounting plate       mm       26         Mounting dopth for mounting raites       mm       26         Legend for the graphic       mm       20         Legend for the graphic       mm       18         Legend for the graphic       mm       19	Product function			Distribution board enclosure without cable gland plates
Description       Sealable cover fasteners Sidias dead, but with lives knockout Spon tops and bottom         View	Single unit/Complete unit			Single unit
Image: Sides Closed, but with laree knockout         Ype cover       Image: Closed, but with laree knockout         Yee cover       Image: Closed, but with laree knockout         Height       Image: Closed, but with housing plate       Image: Closed but with housing plate         Mouring depth of mounting rail 75 mm height       Image: Closed but with housing plate       Image: Closed but with housing plate         Mounting depth of mounting rail 75 mm height       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Enclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Inclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Inclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Inclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Inclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Inclosure depth       Image: Closed but with housing rail 75 mm height       Image: Closed but with housing rail 75 mm height         Image: Closed but with housing rail 75 mm height       Image: Closed but with house housing rail 75 mm height       Ima	Degree of Protection			IP65
WidhImage: space of the space of	Description			Sides closed, but with full area knockout
Height       mm       70         Depth       mm       25         Mounting depth for mounting rait 75 mm height       mm       12.5         Mounting depth for mounting rait 15 mm height       mm       12.5         Enclosure depth       mm       100         Legend for the graphic       mm       100         Enclosure depth       mm       100         Image: Second se	Type cover			Transparent
Depth       nm       25         Mounting depth with mounting rail 7.5 mm height       mm       12.5         Enclosure depth       mm       185         Legend for the graphic       mm       10 mm nounting depth with mounting plate Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Mounting depth for mounting rail 7.5 mm height Sector depth         Enclosure depth       mm       11 mm height Sector depth with mounting rail 7.5 mm height Sector depth for mounting rail 7.5 mm height Sector depth Sector	Width	mr	im	375
Mounting depth with mounting rail 7.5 mm height       mm       192.5         Mounting depth for mounting rail 15 mm height       mm       185         Enclosure depth       Dimensions from top: Mounting depth with mounting rail 15 mm height       Dimensions from top: Mounting depth with mounting rail 15 mm height         Enclosure depth       Dimensions from top: Mounting depth for mounting rail 15 mm height       Dimensions from top: Mounting depth for mounting rail 15 mm height         Enclosure depth       Image: state s	Height	mr	Im	750
Mounting depth for mounting rail 15 mm height     mm     185       Enclosure depth     Dimensions from top: Mounting depth for mounting rail 25 mm height     Dimensions from top: Mounting depth for mounting rail 25 mm height       Enclosure depth     mm     Image: Comparison of the graphic	Depth	mr	Im	225
Mounting depth for mounting rail 15 mm height     Image: Second sec		mr	IM	200
Enclosure depth       Jimensions from top:         Legend for the graphic       Dimensions from top:         Enclosure depth       Mounting depth for mounting rail 75 mm height         Mounting depth for mounting rail 75 mm height       Mounting depth for mounting rail 75 mm height         Enclosure depth       mm       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		mr	im	192.5
Legend for the graphic       Dimensions from top: Mounting depth for mounting plate Mounting depth for mounting rail 15 mm height Enclosure depth         Enclosure depth       mm		mr	im	185
Enclosure depth       mm         Enclosure depth       mm	Enclosure depth			
	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
Notes		m	m	III       III       III       III       192.5       III       185       III       III       III       III       III       III

### Notes

#### Distribution board with/without gland plates fitted

• 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 fastner
  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 CLX 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 $^{\circ}\mathrm{C}$	W	138
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)

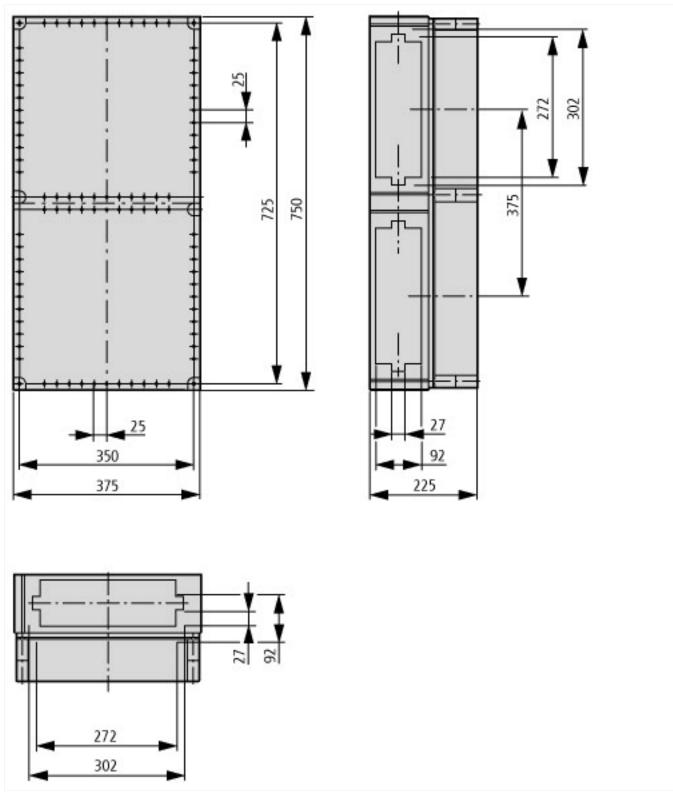
Altitude	m	Max. 2000
		IP65 (Enclosure)
Protection type		IP65 (KST cable entries from below) IP64 (KST cable entries from above) IP00 (Cable entry open)
Mounting grid	mm	25 (DIN 43660)
Colour		
Base		RAL 7032, pebble grey
Housing body		Transparent, colourless or RAL 7032, pebble grey
		CINA: Transparent 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 <sup>2</sup>	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

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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 <sub>V</sub>	CO	47
Starting enclosure for wall mounting	P <sub>V</sub>	CO	44
Middle enclosure for wall mounting	P <sub>V</sub>	CO	40
Heat dissipation, at an ambient temperature of 35°C, delta T: 35 degrees, calculated as per IEC 60890			
Individual enclosure for wall mounting	P <sub>V</sub>	CO	95
Starting enclosure for wall mounting	P <sub>V</sub>	CO	88
Middle enclosure for wall mounting	P <sub>V</sub>	CO	81
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 <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.
10.13 Mechanical function	Meets the product standard's requirements.

## **Dimensions**



# Additional product information (links)

Manufacturer's Declaration CI-RoHS Declaration of conformity ftp://ftp.moeller.net/DOCUMENTATION/PDF/2013-01-31\_Ci\_RoHS.pdf ftp://ftp.moeller.net/DOCUMENTATION/PDF/ci\_ce.pdf