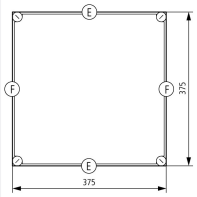


Insulated enclosure, +knockouts, HxWxD=375x375x225mm

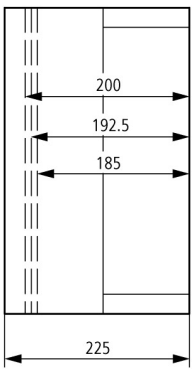
Part no. CI44E-200
Article no. 036182

Powering Business Worldwide

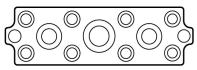
Delivery programme

Dimensions		mm	
Product range			Ci insulated enclosures
Basic function			Basic enclosures
Product function			Individual enclosures
Single unit/Complete unit			Single unit
Degree of Protection			IP65
Description			With metric knockouts in all sides of the enclosure Fixing straps for wall fixing Sealable cover fasteners Full-area knockouts in the sides can be converted to a distribution board enclosure
Colour			RAL 7032, pebble grey (base) transparent, opaque (cover)
Width		mm	375
Height		mm	375
Depth		mm	225
Mounting depth with mounting plate		mm	200
Mounting depth for mounting rail 7.5 mm height		mm	192.5
Mounting depth for mounting rail 15 mm height		mm	185

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	
Type cover			Transparent
Model base			knockout

Notes
E

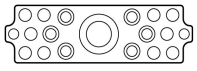


1 x M50/32

2 x M40/25

8 x M25/16

2 x M20
F



1 x M63/40

6 x M25/16

10 x M20	
2 x M16	

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
Degree of Protection		IP65
Power loss		
Max. radiated heat dissipation with separate mounting, ambient air temperature +20 °C	W	72
Max. radiated heat dissipation in distribution board combination to VDE 0660 Part 500	W	54
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
Operating and ambient conditions to VDE 0660 Part 500		
Colour		
Base		RAL 7032, pebble grey
Housing body		Transparent, colourless or RAL 7032, pebble grey

Material characteristics

Material		glass-fibre reinforced polycarbonate (base) non-reinforced polycarbonate (cover) Halogen free
Surface treatment		Resistant to corrosion
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

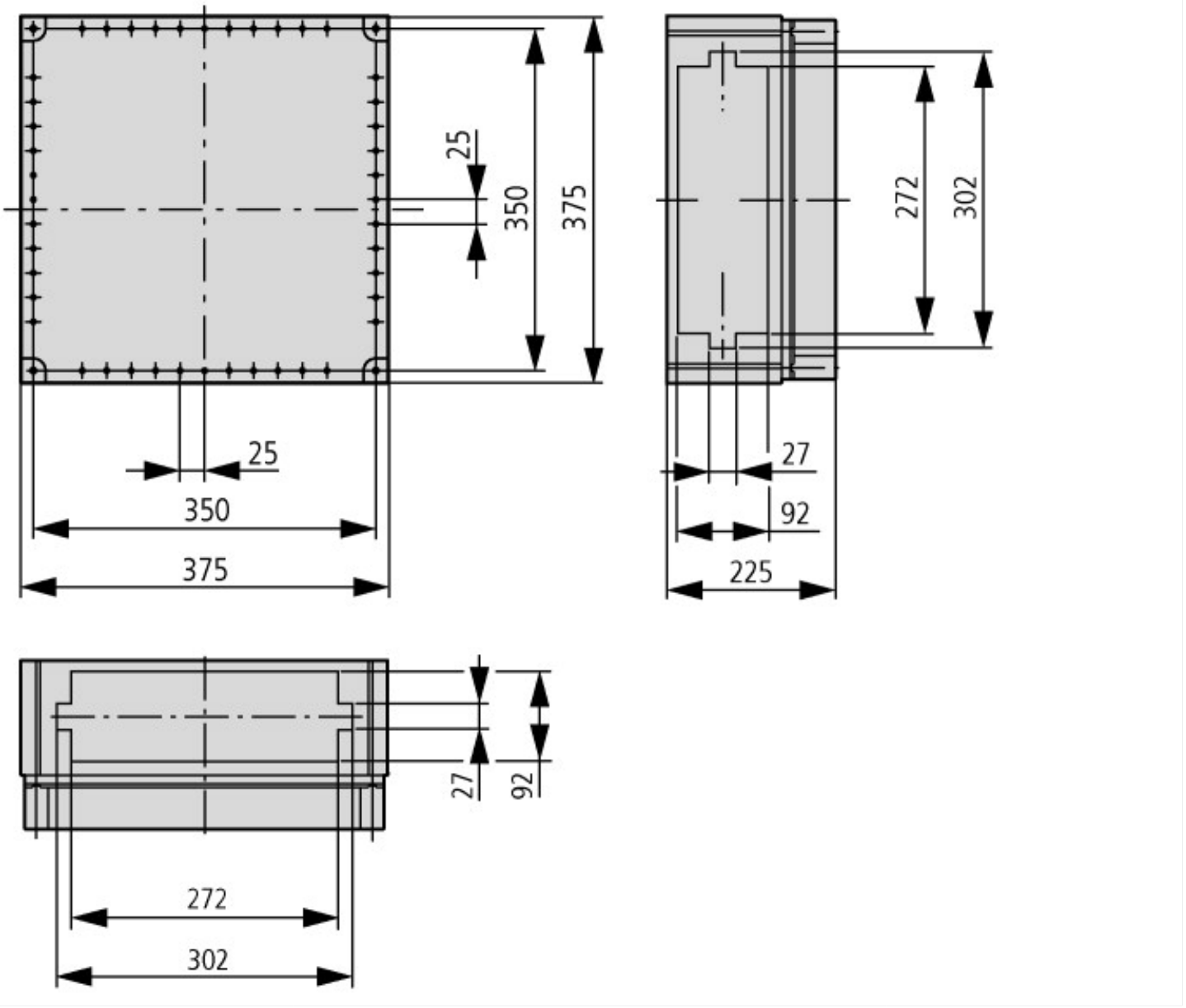
Electrical		
Track resistance		KB160, KC175 (base, to IEC 60112) KB100, KC200 (cover, to IEC 60112)
Surface resistance to IEC 60093	$\Omega \times 10^{13}$	1
Dielectric strength to IEC 60243-1	kV/mm	30
Thermal		
Temperature resistant		-40 °C - 120 °C (enclosure) 85 °C (enclosure bolt) 80 °C (gasket)
Mechanical		
Impact resistance		IK10 according to EN 50102
Loading capacity	kg/m^2	20
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	31
Starting enclosure for wall mounting	P_V	CO	29
Middle enclosure for wall mounting	P_V	CO	27
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	62
Starting enclosure for wall mounting	P_V	CO	57
Middle enclosure for wall mounting	P_V	CO	53
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			20 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_i = 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	ftp://ftp.moeller.net/DOCUMENTATION/PDF/2013-01-31_Ci_RoHS.pdf
Declaration of conformity	ftp://ftp.moeller.net/DOCUMENTATION/PDF/ci_ce.pdf

© 11/2015 by Eaton Industries GmbH