

CA-460

\* kl  
\* smaller dimension in the height of the support surface of the mounting plate

**Standard version**

Scope of delivery:

- Gehäuseunterteil /  
Lower part of enclosure /  
Partie inférieure du boîtier
- Gehäusedeckel /  
Enclosure lid /  
Couvercle du boîtier
- Deckelschrauben (Kombi-Kreuzschlitz) lose beigelegt /  
Cover screws (combination slotted head) enclosed loose /  
Vis de couvercle (à fente cruciforme combinée) fournies en vrac
- Erdungsschraube im Unterteil und Deckel /  
Grounding screw in the base and lid /  
Vis de mise à la terre dans la partie inférieure et le couvercle
- RAL7001 (silbergrau) /  
RAL7001 (silver grey) /  
RAL7001 (gris argenté)
- Deckeldichtung PUR /  
lid gasket PUR /  
Joint de couvercle PUR
- Einzelverpackung in Folie /  
Single packaging in foil /  
Emballage individuel sous film

**Maximum possible number of threads (data for same diameter, not mixed!)**

ISO M	M12	M16	M20	M25	M32	M40	M50	M63
Side A/B	136	68	50	30	21	12	10	8
Side C/D	74	38	28	18	12	8	6	3

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Technical changes and errors excepted.

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# Technical data



Standard enclosure  
Series CA

<i>Properties table CA-460</i>		Article number 146000000	
Specification	Value	according to standard	Comment
<b>General data</b>			
Weight	7420g		
External dimensions	402x310x180		
Degree of protection			
<i>IP code</i>	IP66	DIN EN 60529	
<i>IP code</i>	IP67	DIN EN 60529	
<i>IK code</i>	IK09	DIN EN 62262	
<b>Materials</b>			
<i>Enclosure</i>	EN AC-AISI12Cu1 (Fe) EN AC-47100	DIN EN 1706:05/98	Aluminium die casting Alloy 231
<i>Lid fastener</i>	A2-70	DIN EN ISO 3506-1	Lid screws
<i>Additional screws</i>	—	—	—
<i>Spring washer</i>	—	—	—
<i>Press-in nut</i>	—	—	—
<i>Seal</i>	PUR	—	Colour: black-grey 2K-polyurethane foam gasket
Toxic behaviour	Halogenfrei / Halogen-free / Sans halogène		—
<b>Mechanical properties</b>			
Torques			
<i>Cover fastener</i>	2,5 Nm		—
<i>Ground screw</i>	2,5 Nm 2,0 Nm		Base Lid
<i>Fastening accessories</i>	2,5 Nm		e.g. support rail, mounting plate
<i>Other fastening</i>	2,5 Nm		Screw channel
Maximum installation weight	17,8 Kg		—
<b>Thermal properties</b>			
Temperature range			
<i>Enclosure complete</i>	-40°C bis +90°C	—	Housing standard powder coated
<i>Enclosure material</i>	—	—	—
<i>Seal</i>	-40°C bis +100°C	—	PUR
Fire behaviour			
<i>Flammability</i>	—	—	—
<i>Glow wire test</i>	—	—	—
Temperature index Enclosure material			
<i>RTI (tensile strength)</i>	—	—	—
<i>RTI (impact strength)</i>	—	—	—
<i>RTI (dielectric strength)</i>	—	—	—
Heat resistance			
<i>Insulation class</i>	—	—	—
Fire behaviour - Fire protection in railway vehicles according to EN 45545-2:2020-10			
<i>Requirement set R1</i>	—	—	—
<i>Requirement set R6</i>	—	—	—
<i>Requirement set R7</i>	—	—	—
Oxygen index	—	—	—
Storage temperature	-20°C bis +60°C	—	—
Thermal resistance	0,60 K/W	—	taking into account the effective power loss

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Standard enclosure  
Series CA

**Properties table CA-460** Article number **146000000**

Specification	Value	according to standard	Comment
<b>Usual operating conditions according to DIN EN 62208</b>			
Ambient temperature			
<i>Indoor installation</i>	-5°C bis +40°C	—	on average over 24h +35°C
<i>Outdoor installation</i>	-25°C bis +40°C	—	on average over 24h +35°C
Relative humidity			
<i>Indoor installation</i>	max. 50% bei +40°C	—	at low temperatures also higher (e.g. 90% at 20°C); occasionally condensation permissible
<i>Outdoor installation</i>	zeitweise / temporary / temporairement 100 % bei +25°C	—	at low temperatures also higher (e.g. 90% at 20°C); occasionally condensation permissible
<b>Chemical properties</b>			
Corrosion resistance	Schärfe A	DIN EN 62208/9.13.2.1	IEC 60068-2-30 and IEC 60068-2-11
Corrosion resistance	Schärfe B	DIN EN 62208/9.13.2.2	IEC 60068-2-30 and IEC 60068-2-11
Salt spray test	—	—	—
Resistance list for enclosure materials and seals			see catalogue details
<b>Electrical properties</b>			
Protection class	I	EN 61140 / VDE 0140-1	 Protection by protective conductor
Rated voltage	max. 1000V (AC) max. 1500V (DC)	—	—
Surface resistance	—	IEC 60093	—
Dielectric strength	—	IEC 60243-1	—
<b>Further specifications</b>			
General tolerances			
<i>Casting tolerance</i>	DCTG 7 - GCTG 3	DIN EN ISO 8062-3	Casting tolerance
<i>Machining tolerance</i>	mH	DIN ISO 2768	Machining tolerance
Product standard	konform/compliant/conforme	DIN EN 62208	Empty enclosures for low-voltage switchgear and controlgear assemblies
Approval			
<i>c UL us</i>	konform/compliant/conforme	UL 508A / C22.2	Typ 1, 4, 4x, 12, 13 with label on request
<i>ATEX / IECeX</i>	 — 	—	on request
<i>DNV</i>	konform/compliant/conforme	—	—
Conformities / Directives			
<i>Directive 2011/65/EU (RoHs)</i>	konform/compliant/conforme	2011/65/EU (RoHs)	RoHs
<i>Low Voltage Directive</i>	konform/compliant/conforme	2014/35/EU	—
<i>Electrical Equipment (safety) Regulations 2016 (CA UK)</i>	konform/compliant/conforme	2016 NO.1101	—

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