

Technical data

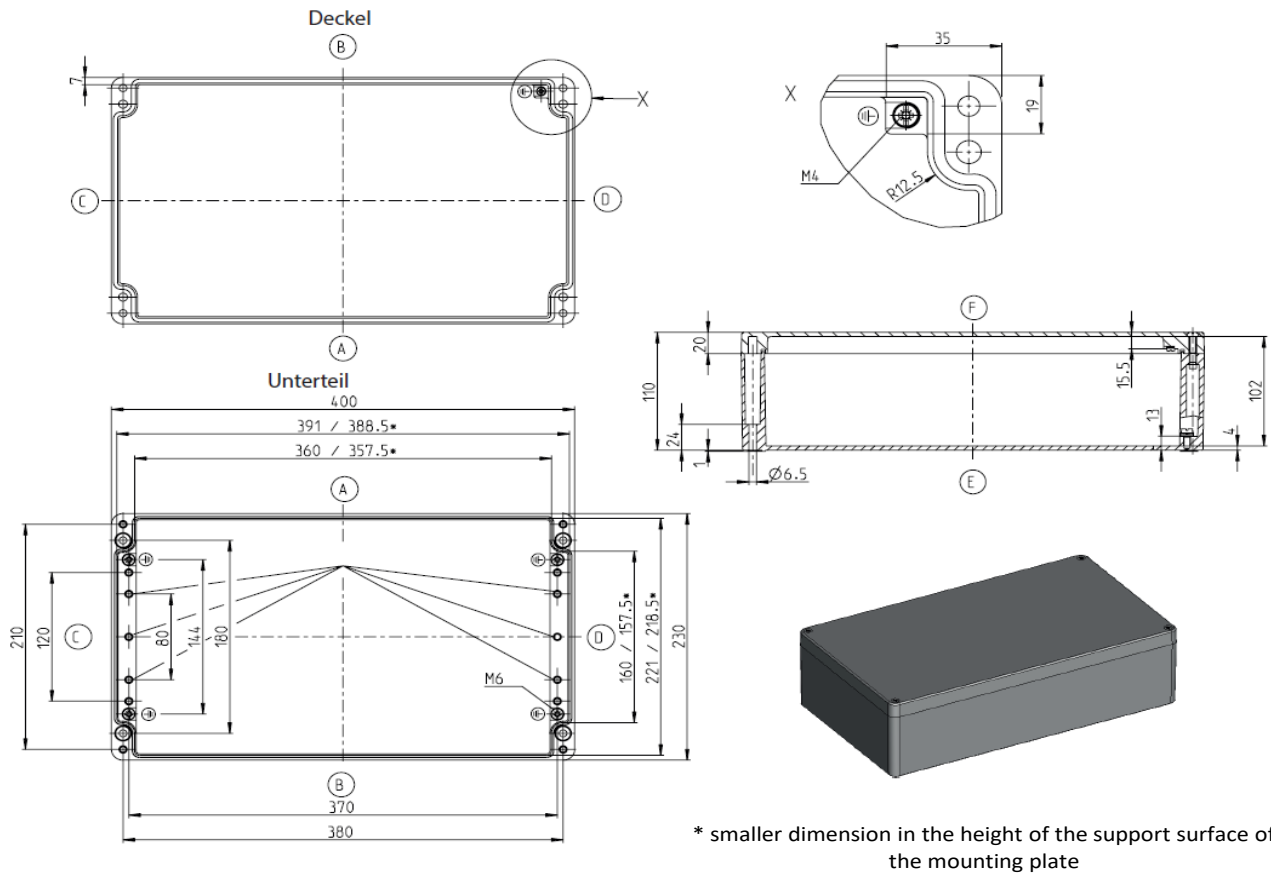


Standard enclosure

Series CA

Type description CA-400 Bahn

Article number 1409500000



CA-400

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
RAL9005 (tiefschwarz) /
RAL9005 (deep black) /
RAL9005 (noir intense)
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	80	38	27	17	11	6	5	4
Side C/D	26	12	8	5	3	2	2	1

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Technical changes and errors excepted.

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Series CA

Properties table CA-400 Bahn		Article number 1409500000	
Specification	Value	according to standard	Comment
General data			
Weight	4870g		
External dimensions	401x230x110		
Degree of protection			
IP code	IP66	DIN EN 60529	
IP code	IP67	DIN EN 60529	
IK code	IK09	DIN EN 62262	
Materials			
Enclosure	EN AC-ALSi12Cu1 (Fe) EN AC-47100	DIN EN 1706:05/98	Aluminium die casting Alloy 231
Lid fastener	A2-70	DIN EN ISO 3506-1	Lid screws
Additional screws	—	—	—
Spring washer	—	—	—
Press-in nut	—	—	—
Seal	PUR	—	Colour: black-grey 2K-polyurethane foam gasket
Toxic behaviour	Halogenfrei / Halogen-free / Sans halogène		—
Mechanical properties			
Torques			
Cover fastener	2,5 Nm		—
Ground screw	2,5 Nm 2,0 Nm		Base Lid
Fastening accessories	2,5 Nm		e.g. support rail, mounting plate
Other fastening	2,5 Nm		Screw channel
Maximum installation weight	7,4 Kg		—
Thermal properties			
Temperature range			
Enclosure complete	-40°C bis +90°C	—	Housing standard powder coated
Enclosure material	—	—	—
Seal	-40°C bis +100°C	—	PUR
Fire behaviour			
Flammability	—	—	—
Glow wire test	—	—	—
Temperature index Enclosure material			
RTI (tensile strength)	—	—	—
RTI (impact strength)	—	—	—
RTI (dielectric strength)	—	—	—
Heat resistance			
Insulation class	—	—	—
Fire behaviour - Fire protection in railway vehicles according to EN 45545-2:2020-10			
Requirement set R1	HL1 / HL2H / HL3	EN 45545-2:2020-10	—
Requirement set R6	HL1 / HL2H / HL3	EN 45545-2:2020-10	—
Requirement set R7	HL1 / HL2H / HL3	EN 45545-2:2020-10	—
Oxygen index	—	—	—
Storage temperature	-20°C bis +60°C	—	—
Thermal resistance	0,99 K/W	—	taking into account the effective power loss

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Properties table CA-400 Bahn Article number 1409500000

Specification	Value	according to standard	Comment
Usual operating conditions according to DIN EN 62208			
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
Chemical properties			
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
Electrical properties			
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	—
Further specifications			
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>	—	UL 508A / C22.2	Typ 1, 4, 4x, 12, 13 with label on request
<i>ATEX / IECeX</i>	 —	—	on request
<i>DNV</i>	—	—	—
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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