

Technical data

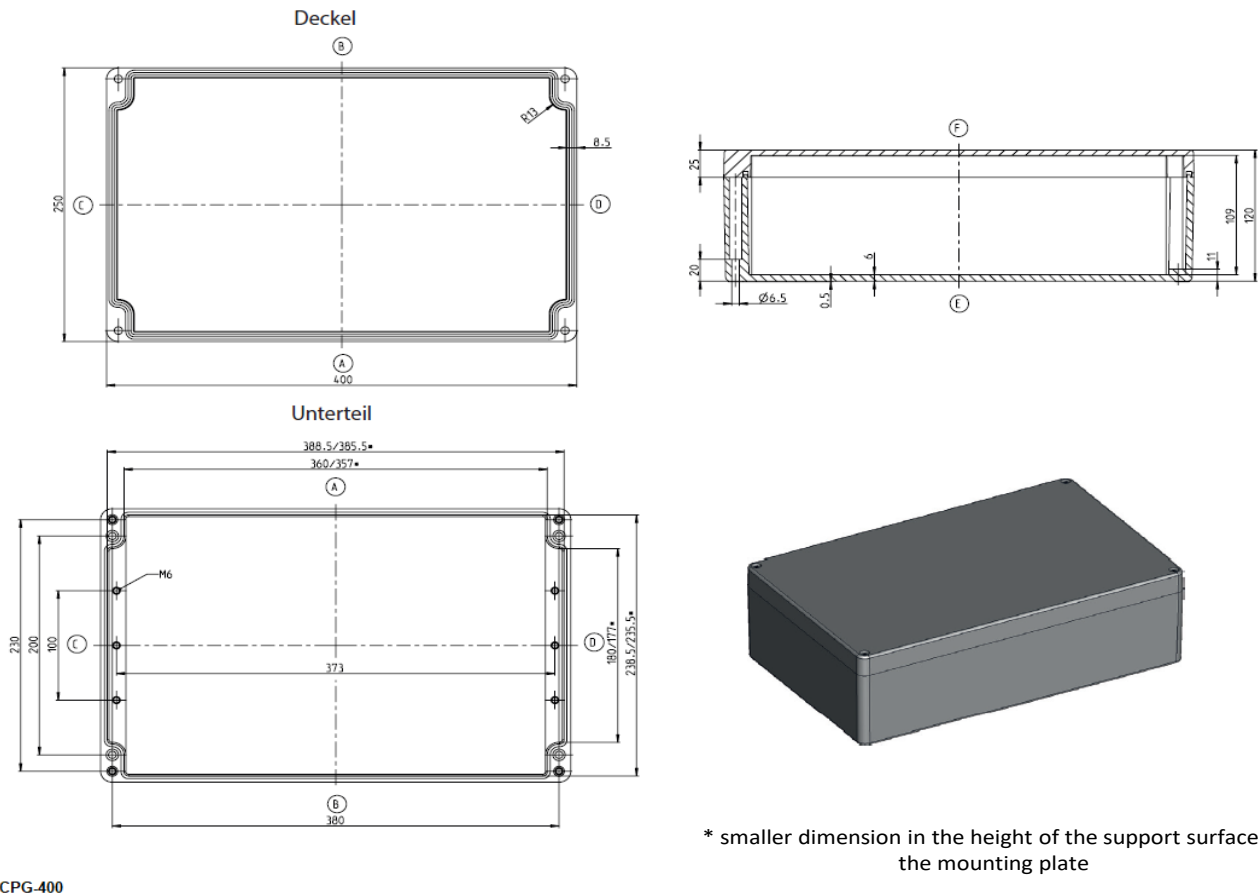


Standard enclosure

Series CP Bahn

Type description CP-400 Bahn

Article number 4409500000



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

—

RAL7035 (lichtgrau) /
RAL7035 (light grey) /
RAL7035 (gris clair)
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	74	38	27	17	13	6	5	4
Side C/D	32	14	10	8	4	3	2	2

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Technical changes and errors excepted.

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Properties table CP-400 Bahn		Article number	4409500000
Specification	Value	according to standard	Comment
General data			
Weight	3984g		
External dimensions	400x250x120		
Degree of protection			
IP code	IP66	DIN EN 60529	
IP code	IP67	DIN EN 60529	
IK code	IK07	DIN EN 62262	
Materials			
Enclosure	Polyester VERKID PG25-G157	—	Unsaturated polyester resins (UP) Silver grey
Lid fastener	A2-70	DIN EN ISO 3506-1	Lid screws
Additional screws	—	—	—
Spring washer	1.4310	DIN EN 10088-3	—
Press-in nut	1.4305 CuZn39Pb3-M	DIN EN 10088-3	—
Seal	PUR	—	Colour: black-grey 2K-polyurethane foam gasket
Toxic behaviour	Halogenfrei / Halogen-free / Sans halogène		—
Mechanical properties			
Torques			
Cover fastener	2,0 Nm		—
Ground screw	—		—
Fastening accessories	2,0 Nm		e.g. support rail, mounting plate
Other fastening	2,0 Nm		Screw channel, external fixing bracket
Maximum installation weight	8,5Kg		—
Thermal properties			
Temperature range			
Enclosure complete	-40°C bis +100°C	—	—
Enclosure material	-60°C bis +155°C	—	—
Seal	-40°C bis +100°C	—	PUR
Fire behaviour			
Flammability	V-0	UL 94	Same content as IEC60659-11-10 and IEC 60695-11-20
Glow wire test	960°C	IEC 60695-2-12	—
Temperature index Enclosure material			
RTI (tensile strength)	130°C	UL 746 B	—
RTI (impact strength)	130°C	UL 746 B	—
RTI (dielectric strength)	105°C	UL 746 B	—
Heat resistance			
Insulation class	+155°C	DIN EN 60085	Insulation class F
Fire behaviour - Fire protection in railway vehicles according to EN 45545-2:2020-10			
Requirement set R1	HL1 / HL2	EN 45545-2:2020-10	—
Requirement set R6	HL1 / HL2	EN 45545-2:2020-10	—
Requirement set R7	HL1 / HL2	EN 45545-2:2020-10	—
Oxygen index	> 60 %	ISO 4589-2	—
Storage temperature	-20°C bis +60°C	—	—
Thermal resistance	0,91 K/W	—	taking into account the effective power loss

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Properties table CP-400 Bahn			Article number	4409500000
Specification	Value	according to standard	Comment	
Usual operating conditions according to DIN EN 62208				
Ambient temperature				
Indoor installation	-5°C bis +40°C	—	on average over 24h +35°C	
Outdoor installation	-25°C bis +40°C	—	on average over 24h +35°C	
Relative humidity				
Indoor installation	max. 50% bei +40°C	—	at low temperatures also higher (e.g. 90% at 20°C); occasionally condensation permissible	
Outdoor installation	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	—	—	—	
Corrosion resistance	—	—	—	
Salt spray test	—	—	—	
Resistance list for enclosure materials and seals			see catalogue details	
Electrical properties				
Protection class	II	EN 61140 / VDE 0140-1		Protection through double or reinforced insulation
Rated voltage	max. 1100V	—	—	
Surface resistance	10^12 Ohm	IEC 60093	—	
Dielectric strength	18 kV/mm	IEC 60243-1	—	
Further specifications				
General tolerances				
Casting tolerance	TG 7	DIN ISO 20457	Plastics moulded parts – Tolerances and acceptance conditions	
Machining tolerance	mH	DIN ISO 2768	Machining tolerance	
Product standard	konform/compliant/conforme	DIN EN 62208	Empty enclosures for low-voltage switchgear and controlgear assemblies	
Approval				
c UL us	—	UL 508A / C22.2	Typ 1, 4, 4x with label on request	
ATEX / IECeX	 —	—	on request	
DNV	—	—	—	
Conformities / Directives				
Directive 2011/65/EU (RoHs)	konform/compliant/conforme	2011/65/EU (RoHs)	RoHs	
Low Voltage Directive	konform/compliant/conforme	2014/35/EU	—	
Electrical Equipment (safety) Regulations 2016 (CA UK)	konform/compliant/conforme	2016 NO.1101	—	

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