

Technical data

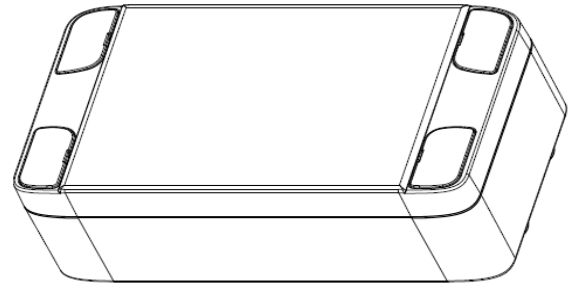
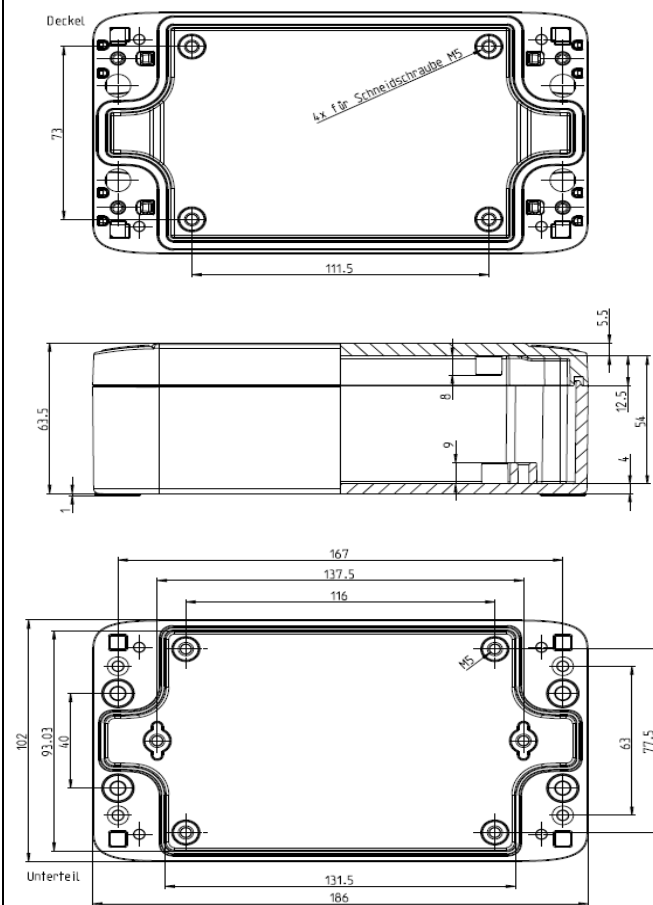


Electronics housing

Series B.tronic

Type description **BT-101806**

Article number **1500000000**



BT-101806

Standard version

Scope of delivery:

Gehäuseunterteil /
Lower part of enclosure /
Partie inférieure du boîtier
Gehäusedeckel inklusive Kunststoff-Schraubkanalabdeckkappen/
Enclosure cover, including plastic screw channel cover caps /
Couvercle de boîtier, avec capuchons en plastique pour les canaux de vissage
Deckelschrauben (Torx TX25) lose beigelegt /
Cover screws (Torx TX25) included separately /
Vis du couvercle (Torx TX25) fournies séparément
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
RAL7037 (staubgrau) /
RAL7037 (dusty grey) /
RAL7037 (gris poussière)
Deckeldichtung PUR /
lid gasket PUR /
Joint de couvercle en 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	4	3	3	0	0	0	0	0
Side C/D	0	0	0	0	0	0	0	0

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Properties table BT-101806		Article number	1500000000
Specification	Value	according to standard	Comment
General data			
Weight	1046g		
External dimensions	186x102x64		
Degree of protection			
IP code	—	DIN EN 60529	
IP code	—	DIN EN 60529	
IK code	—	DIN EN 62262	
Materials			
Enclosure	EN AC-ALSi12 (Fe) EN AC-44300	DIN EN 1706:05/98	Aluminium die casting Alloy 230
Lid fastener	A2-70	DIN EN ISO 3506-1	Lid screws
Additional screws	—	—	—
Spring washer	—	—	—
Cover caps	Polyamid (PA6)	—	Colour: similar to RAL 9005 (deep black)
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	2,0 Nm 2,0 Nm		Base Lid
Fastening accessories	2,0 Nm		e.g. support rail, mounting plate
Other fastening	2,0 Nm		Screw channel
Maximum installation weight	1,1 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	—	—	—
Requirement set R6	—	—	—
Requirement set R7	—	—	—
Oxygen index	—	—	—
Storage temperature	-20°C bis +60°C	—	—
Thermal resistance	4,07 K/W	—	taking into account the effective power loss

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Properties table BT-101806			Article number	1500000000
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	—	DIN EN 62208/9.13.2.1	IEC 60068-2-30 and IEC 60068-2-11	
Corrosion resistance	—	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				
Casting tolerance	DCTG 7 - GCTG 3	DIN EN ISO 8062-3	Casting tolerance	
Machining tolerance	mH	DIN ISO 2768	Machining tolerance	
Country of Melt	China			
Country of Pour	China			
Completion of the end product	Germany (Deutschland)			
Product standard	—	DIN EN 62208	Empty enclosures for low-voltage switchgear and controlgear assemblies	
Approval				
c UL us	—	UL 508A / C22.2	—	
ATEX / IECeX	 	—	—	
DNV	—	—	—	
Conformities / Directives				
Directive 2011/65/EU (RoHs)	konform/compliant/conforme	2011/65/EU (RoHs)	RoHs	
Low Voltage Directive	—	2014/35/EU	—	
Electrical Equipment (safety) Regulations 2016 (CA UK)	—	2016 NO.1101	—	

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