

Technical data

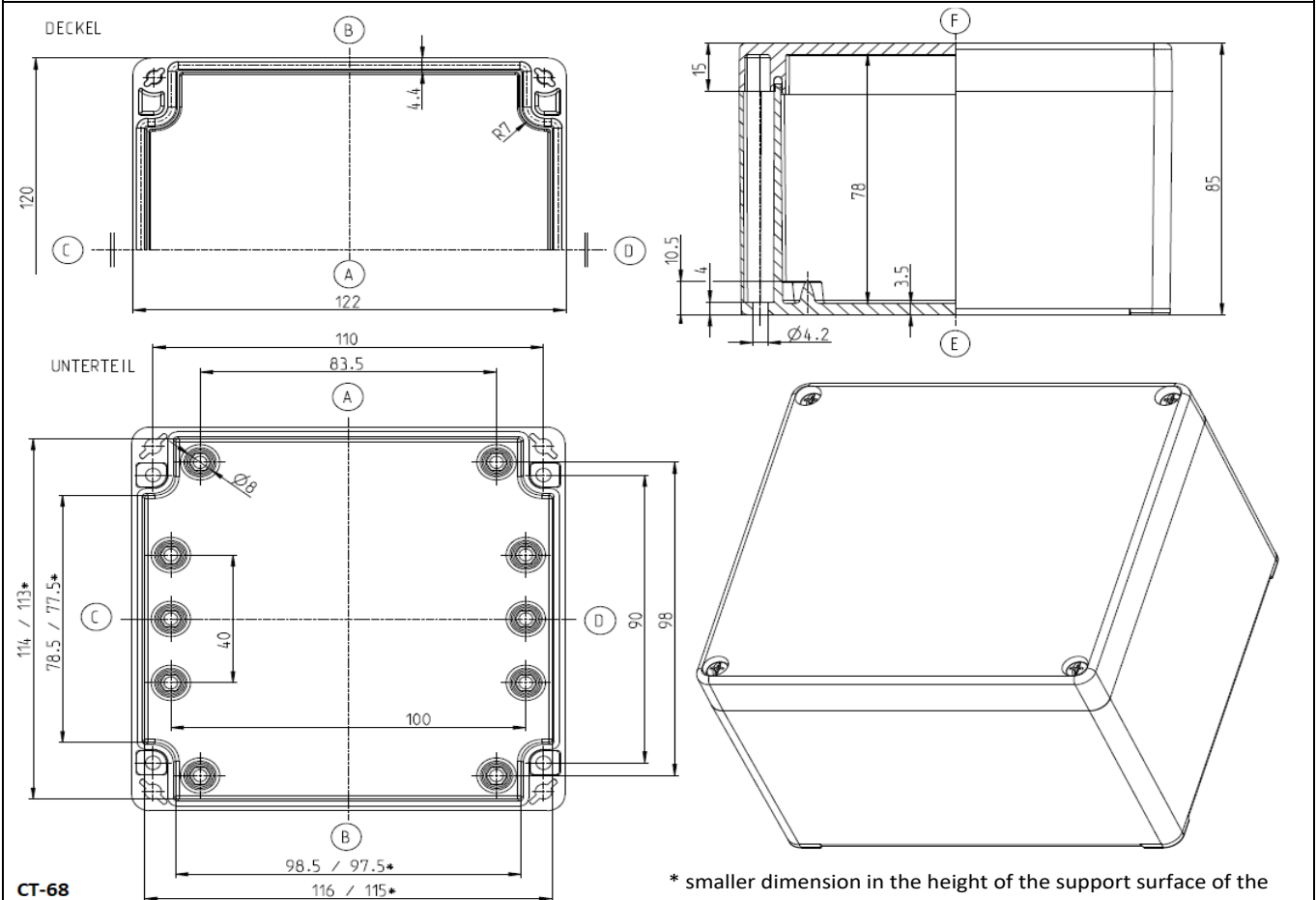


Standard enclosure

Series CT (Polycarbonat)

Type description CT-681 T

Article number 2681000000



Standard version

Scope of delivery:

Gehäuseunterteil /
Lower part of enclosure /
Partie inférieure du boîtier
Gehäusedeckel /
Enclosure lid /
Couvercle du boîtier
Schnellverschluss (Kombi-Kreuzschlitz) lose beigelegt /
Quick fastener (combination slotted head) enclosed loose /
libération rapide (à fente cruciforme combinée) fournies en vrac
Innenliegende Befestigungsdomes für selbstformende Schrauben (Schrauben liegen bei) /
Internal mounting domes for self-tapping screws (screws are included) /
Dômes de montage internes pour vis autotaraudeuses (les vis sont incluses)
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	15	6	6	3	2	1	1	0
Side C/D	10	3	3	2	1	0	0	0

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Technical changes and errors excepted.

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Properties table CT-681 T		Article number	2681000000
Specification	Value	according to standard	Comment
General data			
Weight	295g		
External dimensions	122x120x85		
Degree of protection			
IP code	IP66	DIN EN 60529	
IP code	—	DIN EN 60529	
IK code	IK07	DIN EN 62262	
Materials			
Enclosure	PC / PC	—	Lower part polycarbonate (PC) light grey Lid polycarbonate (PC) transparent
Lid fastener	1.4303	DIN EN 10088-3	Quick release fastener
Additional screws	ST verzinkt	—	Panhead tapping 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	—		1/4 Rotation
Ground screw	—		—
Fastening accessories	1,0 Nm		e.g. support rail, mounting plate
Other fastening	1,0 Nm		Screw channel, external fixing bracket
Maximum installation weight	0,9Kg		—
Thermal properties			
Temperature range			
Enclosure complete	-40°C bis +100°C	—	—
Enclosure material	-40°C bis +120°C	—	—
Seal	-40°C bis +100°C	—	PUR
Fire behaviour			
Flammability	V-2	UL 94	Same content as IEC60659-11-10 and IEC 60695-11-20
Glow wire test	960°C ; 2mm 900°C ; 1mm	IEC 60695-2-12	—
Temperature index Enclosure material			
RTI (tensile strength)	80°C	UL 746 B	—
RTI (impact strength)	80°C	UL 746 B	—
RTI (dielectric strength)	80°C	UL 746 B	—
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	4,5 K/W	—	taking into account the effective power loss

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Properties table CT-681 T		Article number	2681000000
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. 1000V	—	—
Surface resistance	10^16 Ohm	IEC 60093	—
Dielectric strength	25 kV/mm	IEC 60243-1	—
Further specifications			
General tolerances			
Casting tolerance	TG 4	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	konform/compliant/conforme	UL 508A / C22.2	Typ 1, 4, 4x indoor with label on request
ATEX / IECeX	 —	—	—
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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