

Technical data

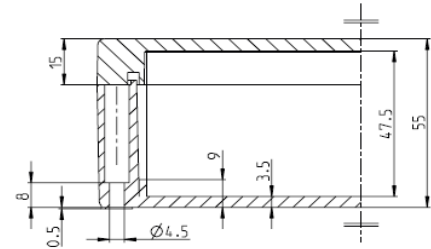
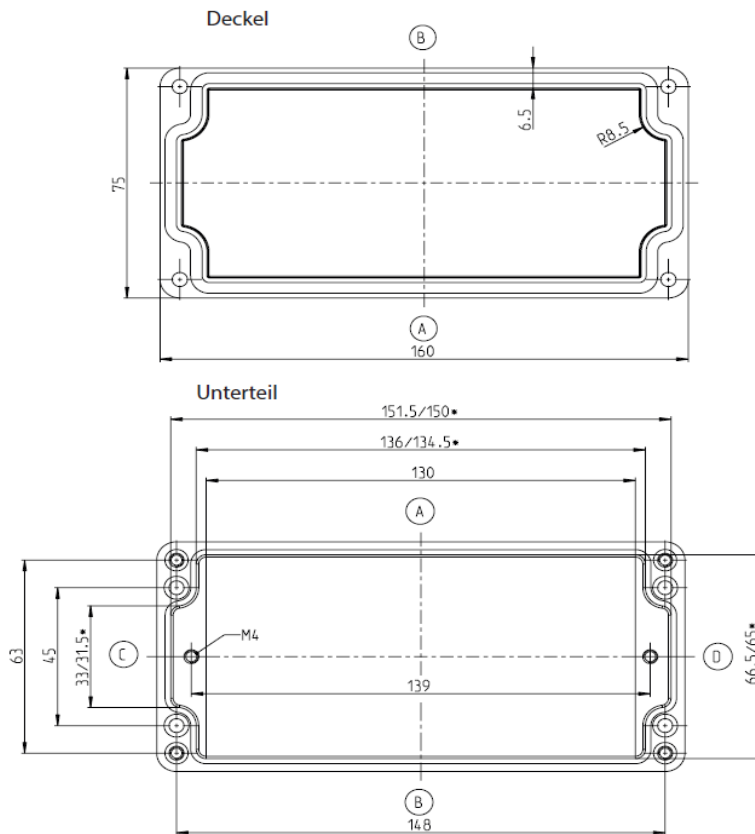


Standard enclosure

Series CPS

Type description CPS-170 U

Article number 5174000000



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

CPS-170

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

—

RAL9005 (tiefschwarz) /
RAL9005 (deep black) /
RAL9005 (noir profond)
Deckeldichtung EPDM /
lid gasket EPDM /
Joint de couvercle EPDM
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	12	5	4	3	0	0	0	0
Side C/D	2	1	1	0	0	0	0	0

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical changes and errors excepted.

This data sheet corresponds to the technical status as of 07.09.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.

Technical data



Standard enclosure
Series CPS

Properties table CPS-170 U		Article number 5174000000	
Specification	Value	according to standard	Comment
General data			
Weight	405g		
External dimensions	160x75x55		
Degree of protection			
IP code	IP66	DIN EN IEC 60079-0 DIN EN 60529	
IP code	—	DIN EN IEC 60079-0 DIN EN 60529	
IK code	≥ 7 Joule	Schlagfestigkeit in Joule	
Materials			
Enclosure	Polyester SMC 2600	—	Unsaturated polyester resins (UP) deep black
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	EPDM	—	Colour: black-grey
Toxic behaviour	Halogenfrei / Halogen-free / Sans halogène		—
Mechanical properties			
Torques			
Cover fastener	1,0 Nm		—
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	0,4Kg		—
Thermal properties			
Temperature range			
Enclosure complete	-35°C bis +85°C	—	Determination by Ex-testing
Enclosure material	-60°C bis +165°C	—	—
Seal	-35°C bis +100°C	—	EPDM round cord
Fire behaviour			
Flammability	V-0	UL 94	Same content as IEC60659-11-10 and IEC 60695-11-20
Glow wire test	960°C; 3,2mm	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	—	—	—
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	6,16 K/W	—	taking into account the effective power loss

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical changes and errors excepted.

This data sheet corresponds to the technical status as of 07.09.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.

Technical data



Standard enclosure
Series CPS

Properties table CPS-170 U			Article number	5174000000
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	< 10^9 Ohm	IEC 60093	—	
Dielectric strength	> 2 kV/cm	IEC 60243-1	—	
Further specifications				
General tolerances				
Casting tolerance	TG 5	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	—	—	—	
ATEX / IECeX	 II 2G Ex eb IIC Gb  II 2D Ex tb IIIC Db	EN IEC 60079-0 EN IEC 60079-7 EN IEC 60079-31	No. of the EU type examination certificate: IBExU 16 ATEX 1197 U No. of the IECEx CoC: IECEx IBE 15.0036U ID number and name of the notified body of the QA system: ID.No. 0637 IBExU (Institut für Sicherheitstechnik GmbH)	
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	—	

BERNSTEIN AG . Hans-Bernstein-Straße 1 . 32457 Porta Westfalica . www.bernstein.eu

Technical changes and errors excepted.

This data sheet corresponds to the technical status as of 07.09.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.