

## Technical data

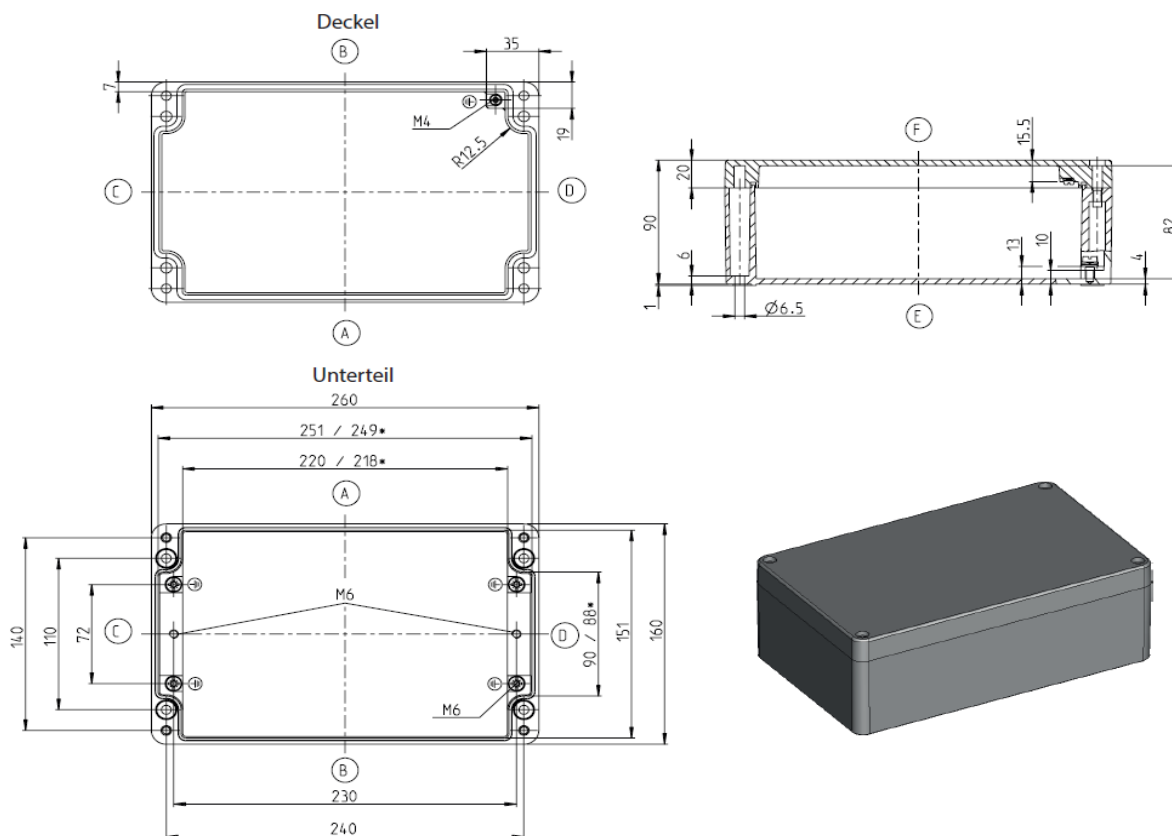


### Standard enclosure

Series CA

Type description CA-300 Bahn

Article number 1309500000



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

CA-300

### 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 | 36  | 17  | 12  | 7   | 4   | 3   | 3   | 0   |
| Side C/D | 8   | 4   | 3   | 2   | 2   | 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This data sheet corresponds to the technical status as of 07.12.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.

# Technical data



Standard enclosure  
Series CA

**Properties table CA-300 Bahn** Article number 1309500000

| Specification                                                                               | Value                                         | according to standard | Comment                                           |
|---------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------|---------------------------------------------------|
| <b>General data</b>                                                                         |                                               |                       |                                                   |
| Weight                                                                                      | 1960g                                         |                       |                                                   |
| External dimensions                                                                         | 260x160x90                                    |                       |                                                   |
| Degree of protection                                                                        |                                               |                       |                                                   |
| <i>IP code</i>                                                                              | IP66                                          | DIN EN 60529          |                                                   |
| <i>IP code</i>                                                                              | IP67                                          | DIN EN 60529          |                                                   |
| <i>IK code</i>                                                                              | IK09                                          | DIN EN 62262          |                                                   |
| <b>Materials</b>                                                                            |                                               |                       |                                                   |
| <i>Enclosure</i>                                                                            | EN AC-ALSi12Cu1 (Fe)<br>EN AC-47100           | DIN EN 1706:05/98     | Aluminium die casting<br>Alloy 231                |
| <i>Lid fastener</i>                                                                         | A2-70                                         | DIN EN ISO 3506-1     | Lid screws                                        |
| <i>Additional screws</i>                                                                    | —                                             | —                     | —                                                 |
| <i>Spring washer</i>                                                                        | —                                             | —                     | —                                                 |
| <i>Press-in nut</i>                                                                         | —                                             | —                     | —                                                 |
| <i>Seal</i>                                                                                 | PUR                                           | —                     | Colour: black-grey<br>2K-polyurethane foam gasket |
| Toxic behaviour                                                                             | Halogenfrei / Halogen-free /<br>Sans halogène |                       | —                                                 |
| <b>Mechanical properties</b>                                                                |                                               |                       |                                                   |
| <b>Torques</b>                                                                              |                                               |                       |                                                   |
| <i>Cover fastener</i>                                                                       | 2,5 Nm                                        |                       | —                                                 |
| <i>Ground screw</i>                                                                         | 2,5 Nm<br>2,0 Nm                              |                       | Base<br>Lid                                       |
| <i>Fastening accessories</i>                                                                | 2,5 Nm                                        |                       | e.g. support rail, mounting plate                 |
| <i>Other fastening</i>                                                                      | 2,5 Nm                                        |                       | Screw channel                                     |
| Maximum installation weight                                                                 | 2,6 Kg                                        |                       | —                                                 |
| <b>Thermal properties</b>                                                                   |                                               |                       |                                                   |
| <b>Temperature range</b>                                                                    |                                               |                       |                                                   |
| <i>Enclosure complete</i>                                                                   | -40°C bis +90°C                               | —                     | Housing standard powder coated                    |
| <i>Enclosure material</i>                                                                   | —                                             | —                     | —                                                 |
| <i>Seal</i>                                                                                 | -40°C bis +100°C                              | —                     | PUR                                               |
| <b>Fire behaviour</b>                                                                       |                                               |                       |                                                   |
| <i>Flammability</i>                                                                         | —                                             | —                     | —                                                 |
| <i>Glow wire test</i>                                                                       | —                                             | —                     | —                                                 |
| <b>Temperature index Enclosure material</b>                                                 |                                               |                       |                                                   |
| <i>RTI (tensile strength)</i>                                                               | —                                             | —                     | —                                                 |
| <i>RTI (impact strength)</i>                                                                | —                                             | —                     | —                                                 |
| <i>RTI (dielectric strength)</i>                                                            | —                                             | —                     | —                                                 |
| <b>Heat resistance</b>                                                                      |                                               |                       |                                                   |
| <i>Insulation class</i>                                                                     | —                                             | —                     | —                                                 |
| <b>Fire behaviour - Fire protection in railway vehicles according to EN 45545-2:2020-10</b> |                                               |                       |                                                   |
| <i>Requirement set R1</i>                                                                   | HL1 / HL2H / HL3                              | EN 45545-2:2020-10    | —                                                 |
| <i>Requirement set R6</i>                                                                   | HL1 / HL2H / HL3                              | EN 45545-2:2020-10    | —                                                 |
| <i>Requirement set R7</i>                                                                   | HL1 / HL2H / HL3                              | EN 45545-2:2020-10    | —                                                 |
| Oxygen index                                                                                | —                                             |                       | —                                                 |
| Storage temperature                                                                         | -20°C bis +60°C                               | —                     | —                                                 |
| Thermal resistance                                                                          | 1,93 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 07.12.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.

## Technical data



Standard enclosure  
Series CA

**Properties table CA-300 Bahn** Article number 1309500000

| Specification                                                 | Value                                                                                 | according to standard | Comment                                                                                                                |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Usual operating conditions according to DIN EN 62208</b>   |                                                                                       |                       |                                                                                                                        |
| 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 /<br>temporairement 100 % bei +25°C                             | —                     | at low temperatures also higher (e.g. 90% at 20°C); occasionally condensation permissible                              |
| <b>Chemical properties</b>                                    |                                                                                       |                       |                                                                                                                        |
| 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                                                                                                  |
| <b>Electrical properties</b>                                  |                                                                                       |                       |                                                                                                                        |
| Protection class                                              | I                                                                                     | EN 61140 / VDE 0140-1 |  Protection by protective conductor |
| Rated voltage                                                 | max. 1000V (AC)<br>max. 1500V (DC)                                                    | —                     | —                                                                                                                      |
| Surface resistance                                            | —                                                                                     | IEC 60093             | —                                                                                                                      |
| Dielectric strength                                           | —                                                                                     | IEC 60243-1           | —                                                                                                                      |
| <b>Further specifications</b>                                 |                                                                                       |                       |                                                                                                                        |
| 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<br>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          | —                                                                                                                      |

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 07.12.2023 [TT.MM.JJJJ] and will not be withdrawn in the event of changes.