

Aluminium Enclosure Series CA

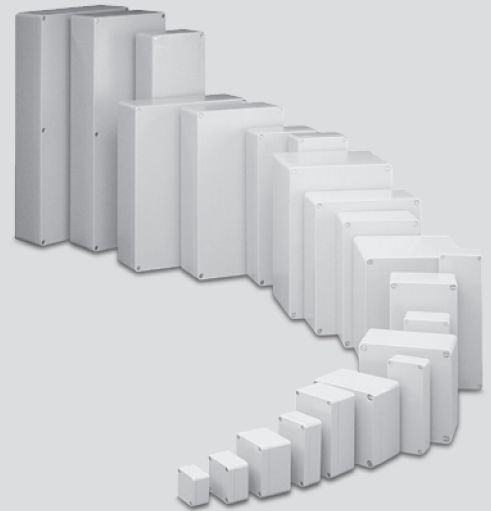
BERNSTEIN aluminium enclosures have a well proven record of success in encapsulating electrical, electronic or pneumatic components, while also being ideally suited for applications in potentially explosive atmospheres.

All enclosures comply with protection class IP 66 according to DIN EN 60529 (optionally IP 67).

BERNSTEIN aluminium enclosures feature earthing screws (copper-plated, M4 or M6) in the body and in the cover for connecting PE conductors. The surfaces under the earthing screws are left blank. The screws for mounting the covers on BERNSTEIN enclosures are made from stainless steel and are held captive by the self-latching hinge integrated in the cover. The protection class (on the standard enclosure) is ensured by a factory-fitted seal. BERNSTEIN aluminium enclosures are finished as standard in RAL 7001 (silver grey).

BERNSTEIN uses pressure die-casting or gravity die-casting moulds to manufacture the aluminium enclosures.

The mounting flanges or even the earthing socket on the inside of the enclosure can be used for mounting and securing built-in components (mounting rail, mounting plate, pc board etc.). These mounting points on the inside of the enclosures are located at different levels and in different positions. The dimensioned drawings on the following pages show the relevant positions.



Technical data

Material

Aluminium pressure die-casting or gravity die-casting

Seal

Foamed PUR seal
Neoprene (CR) round cord (silicone-free),
silicone round cord, EPDM round cord

Cover screws

Stainless steel, captive, cross recessed head

Optionally:

- Stainless steel, captive hexagon socket head cap screws
- Sealed cover screws, steel (9 S 20 K), slot head (on request)

Coating

Standard: RAL 7001 (silver grey)

Optionally:

- Special RAL colours
- Special coatings

Temperature range of CA enclosures, standard powder-coated finish

-30°C to +80°C

Please contact us for higher temperature ranges.

Temperature range of seals

Standard:

-40°C bis +100°C (PUR seal)

Alternatively:

-30°C to +80°C (Neoprene seal)

-60 °C to +130°C (silicone seal)

or rather -35°C to +100°C (EPDM seal)

Protection class

IP 66

IP 67 with PUR seal

Approbations

Germanischer Lloyd

UL (Label on demand)

ATEX



Aluminium enclosure					
Dimensions/mm			Article number	Type	
L	x	W x H			
50	x	45 x 30	102000000	CA-020	
58	x	64 x 36	106000000	CA-060	
98	x	64 x 36	108000000	CA-080	
150	x	64 x 36	110000000	CA-100	
75	x	80 x 57	113000000	CA-130	
75	x	80 x 57	114000000	CA-140	
125	x	80 x 57	115000000	CA-150	
125	x	80 x 57	116000000	CA-160	
175	x	80 x 57	117000000	CA-170	
175	x	80 x 57	118000000	CA-180	
250	x	80 x 57	119000000	CA-190	
122	x	122 x 80	121000000	CA-210	
122	x	122 x 90	121000050	CA-215	
122	x	122 x 80	122000000	CA-220	
220	x	122 x 80	123000000	CA-230	
220	x	122 x 90	123000050	CA-235	
220	x	122 x 80	124000000	CA-240	
360	x	122 x 80	125000000	CA-250	
160	x	160 x 90	127000000	CA-270	
160	x	160 x 90	128000000	CA-280	
260	x	160 x 90	129000000	CA-290	
260	x	160 x 90	130000000	CA-300	
360	x	160 x 90	131000000	CA-310	
560	x	160 x 90	133000000	CA-330	
200	x	230 x 110	135000000	CA-350	
200	x	230 x 180	136000000	CA-360	
280	x	230 x 110	137000000	CA-370	
330	x	230 x 110	138000000	CA-380	
330	x	230 x 180	139000000	CA-390	
401	x	230 x 110	140000000	CA-400	
600	x	230 x 110	142000000	CA-420	
402	x	310 x 110	145000000	CA-450	
402	x	310 x 180	146000000	CA-460	
600	x	310 x 110	147000000	CA-470	
600	x	310 x 180	148000000	CA-480	

This is just a selection of possible assembly components that BERNSTEIN offers. Contact us, we can incorporate components from all leading manufacturers to satisfy your individual demand. You find further information about "System solutions" on page 12.



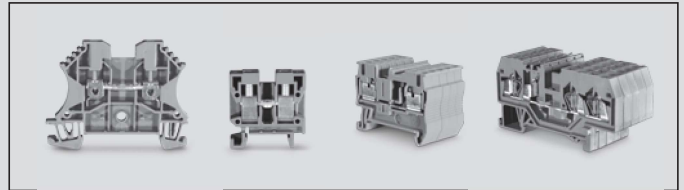
Mounting plates

made from galvanised steel plate (thickness: CA-060 to CA-310, CA-350 to CA-400: 1.5 mm; CA-330, CA-420 to CA-480: 2.5 mm) for versatile mounting of built-in components.



Mounting rails

conforming to Standards TS 15 or TS 32 and TS 35 made from steel; surface treated for accepting terminal blocks.



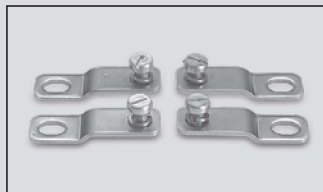
Terminal blocks

of all renowned manufacturers are used.



Earthing bars

made from galvanised steel for combining and connecting PE conductors.



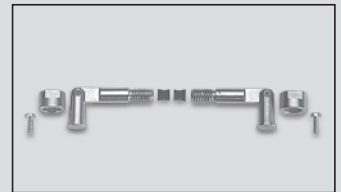
External mounting brackets

made from stainless steel for mounting enclosures without opening the covers. Variable mounting in 90°-steps thanks to contour in base of enclosure.



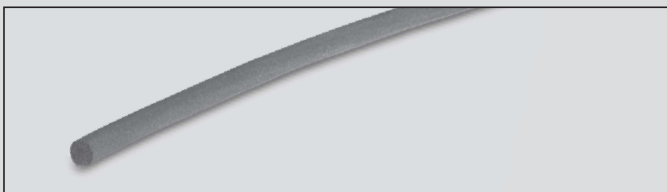
External articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 155°. Cast aluminium (painted in RAL 7001 – specific colour according to enclosure specification possible). Machining is required for mounting on enclosures.



Internal articulated hinges

for hinged mounting of enclosure cover. Opening range of cover approx. 95°. Stainless steel. Machining is required for mounting on enclosures.



Silicon, EPDM or HF seal

with increased temperature resistance (see indications left side) or to protect sensitive electronic equipment against high-frequency radiation (HF seal). For a conductive connection, grooves and springs of the enclosure must be left blank.



Cable glands

plastic cable glands (polyamide PAGV-2, RAL 7001) or brass cable glands. Sealing element CR/NBR. Temperature range: -20°C to +100°C (see also page 71). Other cable glands on demand.

