

Polycarbonate and ABS enclosures with quick release covers CT series

The CT series of BERNSTEIN plastic enclosures are made from high-quality Polycarbonate or ABS. They are especially suitable for encapsulating electrical and electronic components or for use as complete compact control housings. All enclosures are also available with a transparent Polycarbonate lid. The enclosures meet the DIN IP 65 protection class requirements as standard.

For internal mounting purposes, the plastic enclosures are provided with mounting bosses moulded directly into the base. Components, mounting rails or other assemblies may be easily secured using the self-tapping attachment screws provided. BERNSTEIN enclosures always contain bosses in the middle to fix DIN rails directly.

BERNSTEIN enclosures are also supplied with patented stainless steel quick release screws as standard a unique BERNSTEIN innovation. The screw is simply pressed into the holes in the lid where they are automatically retained and a quarter turn firmly secures the lid. A gasket is factory-fitted (for standard enclosures) to ensure the IP65 protection. BERNSTEIN Polycarbonate and ABS enclosures are supplied in RAL 7035 (light grey) as standard.

Technical data

Material

Polycarbonate, transparent
Polycarbonate or ABS

Gasket

Neoprene round seal packing
(siliconised)
alternative:
Neoprene round seal packing
(silicone-free)
Silicone round seal packing

Quick release screws

Stainless steel, self-locking,
multi-purpose cross-recessed head
alternative:
Stainless steel lid screw, multi-purpose
cross-recessed head
Lead-sealed steel lid screws
(9 S 20 K) galvanised, slotted head

Colour

RAL 7035 (light grey)
alternative:
other colours (by dyeing) on request

Temperature

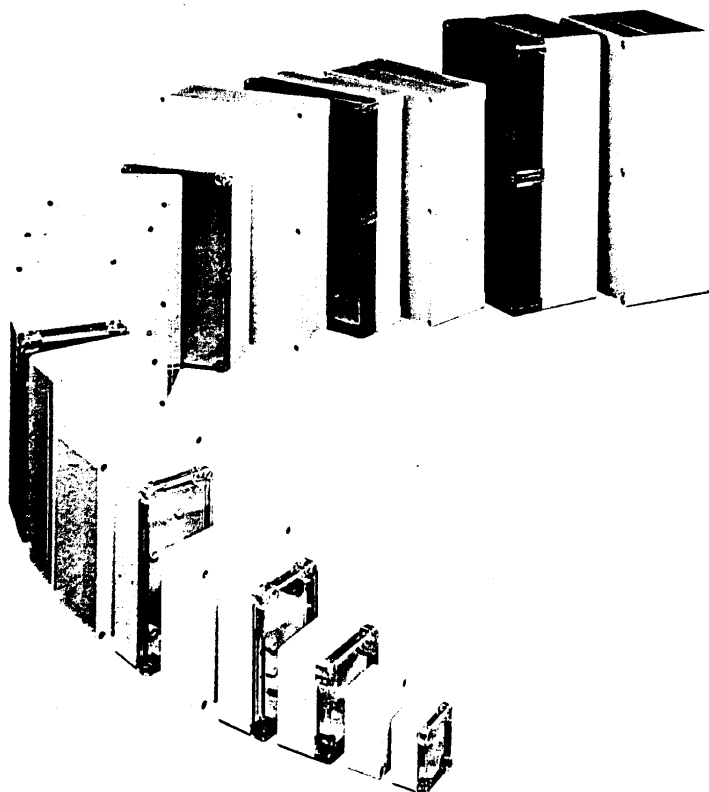
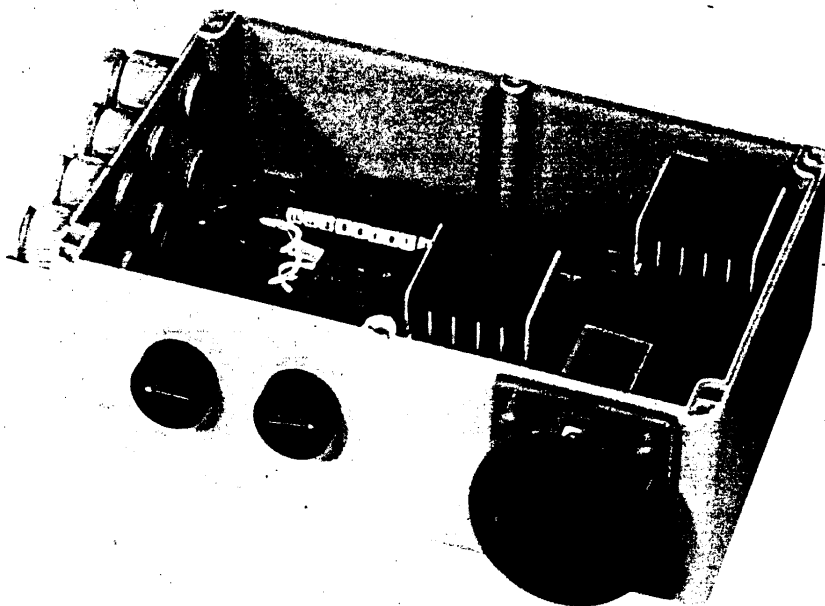
-40 °C to +80 °C (neoprene gasket)
alternative:
-40 °C to +120 °C (silicone gasket)

Protection class

IP 65
alternative:
higher protection classes on request

Approval

UL: File E 182264 (only Polycarbonate enclosures)





Application fields and characteristics

Product line overview of Polycarbonate and ABS enclosures

Dimensions/mm L x W x H	Polycarbonate enclosures		Polycarbonate enclosures with transparent lid		ABS enclosures		ABS enclosures with transparent lid (PC)	
	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type
52 x 50 x 35	250.0.0000.00	CT-501	250.1.0000.00	CT-501 T	350.0.0000.00	CT-502	350.1.0000.00	CT-502 T
65 x 50 x 35	252.0.0000.00	CT-521	252.1.0000.00	CT-521 T	352.0.0000.00	CT-522	352.1.0000.00	CT-522 T
82 x 80 x 55	254.0.0000.00	CT-541	254.1.0000.00	CT-541 T	354.0.0000.00	CT-542	354.1.0000.00	CT-542 T
82 x 80 x 85	256.0.0000.00	CT-561	256.1.0000.00	CT-561 T	356.0.0000.00	CT-562	356.1.0000.00	CT-562 T
120 x 80 x 55	258.0.0000.00	CT-581	258.1.0000.00	CT-581 T	358.0.0000.00	CT-582	358.1.0000.00	CT-582 T
120 x 80 x 85	260.0.0000.00	CT-601	260.1.0000.00	CT-601 T	360.0.0000.00	CT-602	360.1.0000.00	CT-602 T
160 x 80 x 55	262.0.0000.00	CT-621	262.1.0000.00	CT-621 T	362.0.0000.00	CT-622	362.1.0000.00	CT-622 T
160 x 80 x 85	264.0.0000.00	CT-641	264.1.0000.00	CT-641 T	364.0.0000.00	CT-642	364.1.0000.00	CT-642 T
122 x 120 x 55	266.0.0000.00	CT-661	266.1.0000.00	CT-661 T	366.0.0000.00	CT-662	366.1.0000.00	CT-662 T
122 x 120 x 85	268.0.0000.00	CT-681	268.1.0000.00	CT-681 T	368.0.0000.00	CT-682	368.1.0000.00	CT-682 T
160 x 120 x 90	272.0.0000.00	CT-721	272.1.0000.00	CT-721 T	372.0.0000.00	CT-722	372.1.0000.00	CT-722 T
200 x 120 x 75	276.0.0000.00	CT-761	276.1.0000.00	CT-761 T	376.0.0000.00	CT-762	376.1.0000.00	CT-762 T
200 x 120 x 90	278.0.0000.00	CT-781	278.1.0000.00	CT-781 T	378.0.0000.00	CT-782	378.1.0000.00	CT-782 T
240 x 120 x 100	280.0.0000.00	CT-801	280.1.0000.00	CT-801 T	380.0.0000.00	CT-802	380.1.0000.00	CT-802 T
200 x 150 x 75	282.0.0000.00	CT-821	282.1.0000.00	CT-821 T	382.0.0000.00	CT-822	382.1.0000.00	CT-822 T
240 x 160 x 90	284.0.0000.00	CT-841	284.1.0000.00	CT-841 T	384.0.0000.00	CT-842	384.1.0000.00	CT-842 T
240 x 160 x 120	286.0.0000.00	CT-861	286.1.0000.00	CT-861 T	386.0.0000.00	CT-862	386.1.0000.00	CT-862 T
250 x 160 x 90	290.0.0000.00	CT-901	290.1.0000.00	CT-901 T	390.0.0000.00	CT-902	390.1.0000.00	CT-902 T
250 x 160 x 120	291.0.0000.00	CT-911	291.1.0000.00	CT-911 T	391.0.0000.00	CT-912	391.1.0000.00	CT-912 T
360 x 200 x 150	288.0.0000.00	CT-881	288.1.0000.00	CT-881 T	388.0.0000.00	CT-882	388.1.0000.00	CT-882 T
300 x 230 x 86	287.0.0000.00	CT-871	287.1.0000.00	CT-871 T	387.0.0000.00	CT-872	387.1.0000.00	CT-872 T
300 x 230 x 110	289.0.0000.00	CT-891	289.1.0000.00	CT-891 T	389.0.0000.00	CT-892	389.1.0000.00	CT-892 T

Material

As thermoplastics, Polycarbonate and ABS are suitable materials, both mechanically and chemically, for the encapsulation of electrical units. Polycarbonate is a high-quality material with excellent impact and bending

stress properties but allowing only minor water ingress. ABS is a cheaper alternative for lower stresses. Polycarbonate has a high resistance to acid and - in its standard form - provides adequate UV resistance. ABS and Polycarbonate enclosures are fully insulated.

ABS is classified as flame resistant, Polycarbonate is self-extinguishing. All materials used by BERNSTEIN are free from halogen and pollutants. They can be mechanically machined quickly and easily, allowing easy modification to standard enclosures.

Application fields

As terminal boxes, as enclosures for small distribution boards, control housings or device enclosures in automation, measurement, regulation and control technology. A neutral design guarantees a wide range of applications. The quick release capability designed by BERNSTEIN also offers a further advantage to the customer and is included as standard.

Customising service

The range of accessories for the individual enclosures can be supplied separately, allowing individual assembly, or supplied fully assembled. The BERNSTEIN customising service offers complete mechanical enclosure machining. All equipment (including terminals, cable glands or customised mounting components) are included in the service, as is the individual finishing or labelling of enclosures.

