ndex

- Static loads: Test 1.25 x maximum permissible load as declared by manufacturer for 1 hour.
- Lifting: Applicable to enclosures with lifting accessories.
- Axial loads of metal inserts: When threaded metal inserts are provided to retain the mounting plate/switch control gear supported.
- IK code: Test according to standard IEC 62262 with pendulum impact tester. After testing, the enclosure keeps its IP rating.
- IP rating: Test according to standard IEC 60529. Degree of protection against access to hazardous parts and the penetration of solid bodies and against the penetration of water.
- Thermal stability at a temperature of 70°C for duration of 168 hours.
- Resistance to abnormal heat and to fire: Glow wire test according to IEC 60695-2-10 and IEC 60695-2-11 (1).
- Dielectric strength: 5000V (1)
- Protection circuit continuity (2): Resistance not to exceed 0.1 ohm
- Weather resistance: Duration 500h (cycle: rain 5 minutes + UV lamp 25 minutes)
- The degree of protection provided by the enclosures are defined by standards IEC 60529 (IP) and IEC 62262 (IK) Degrees of protection are indicated by the letters IP followed by two characteristic numerals.
- The numerals show the degree of protection offered by the enclosure against access to dangerous parts, the penetration of solid bodies (1st numeral) and against the penetration of liquids (2nd numeral).
- The protection against external mechanical impact is indicated by the letters IK followed by a characteristic group numeral.

IP Rating for Enclosures IEC 60529

Since enclosures require periodic maintenance conducted by specialists, additional regulations establish the requirements that the manufacturer of these products should have to ensure technical operations are carried out safely. IEC 60529 is an international standard that was created for the purpose of clarifying the capability of an enclosure to protect the contents from solid and liquid bodies.

Allbro is one of a handful of manufacturers in the world that test several production and not just for initial design verification / certification .

IP Level Testing *Photos taken in Allbro's Testing Lab







IP Ratings for Enclosures (IEC60529) IK Ratings for Enclosures (IEC62262)

