



# WARNING

## DO NOT MISAPPLY CAPACITORS FOR POWER ELECTRONICS

Icar is not responsible for any kind of possible damages to persons or things, derived from the improper installation and application of Power Electronics capacitors

### Most common misapplication forms:

- Ripple current and peak current beyond specification or not according with the maximum power that can be dissipated.
- Surge or working voltage beyond specified value.
- Hot spot or storage temperature beyond the specified limits or not according with the maximum power that can be dissipated.
- Incorrect mounting or wrong installation
  - installation nearby hot components or heat sources
  - not suitable connections (not adequate cable or busbars cross section)
  - nuts and washers material, shape or size not suitable for the application
  - tightening torque not according to the specification
- Unusual service conditions as:
  - mechanical shock and vibrations,
  - corrosive or abrasive conductive parts in cooling air,
  - oil or water vapour or corrosive substances,
  - explosive gas or dust,
  - radioactivity,
  - excessive and fast variations of ambient conditions,
  - service areas higher than 2000 m above sea level.

Periodic check of the connection conditions and tightening torque is strongly recommended.

In case of doubt in choice or in performances of the capacitors **Icar technical service MUST be contacted.**

### DISCLAIMER

All the information and data shown in this catalogue are not binding and can be modified without notice. Contact ICAR sales department to get updated specifications.

Reliability data quoted by ICAR are based on statistical evaluations, and does not guarantee properties or performance of each single component.

All the products described in the catalogue shall be used within the limits stated in the technical specifications, nevertheless it is understood that a failure or an abnormal operation, even when capacitors are working within the specified limits, cannot be completely excluded or foreseen at the current state of the art of technology.

Capacitors may become hazardous. Most common risks are related to combustible gas generation, explosion, fire, electrocution or abnormal operation of the capacitor. Not all the possible risks and safety measures are mentioned in this catalogue, further information are available on request.

It is on customer responsibility to select and take all the necessary safety measures in his applications in order to avoid any possible personal injury or property damage related to the use of capacitors. This is valid in particular for applications in which a failure or an abnormal operation of the capacitors could put at risk human life or health.

ICAR SpA and all the persons acting on its behalf, disclaim any and all liabilities for possible damages resulting from the use of the products described in this catalogue or in any other publication.

ICAR reserves the right to discontinue the production of any item without notice.

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