

MOUNTING HARDWARE

During normal operation electrolytic capacitors are subjected to an internal generation of gas due to heating combined with the inside pressure. Therefore a safety vent is provided to prevent catastrophic failure

Kendeil aluminium electrolytic capacitors screw terminals type have been provided with a safety vent plug on the deck, a tiny rubber capsule designed to support a critical bursting pressure up to 8 bar. To fix these capacitors use the appropriate mounting clamps furnished in different diameter size

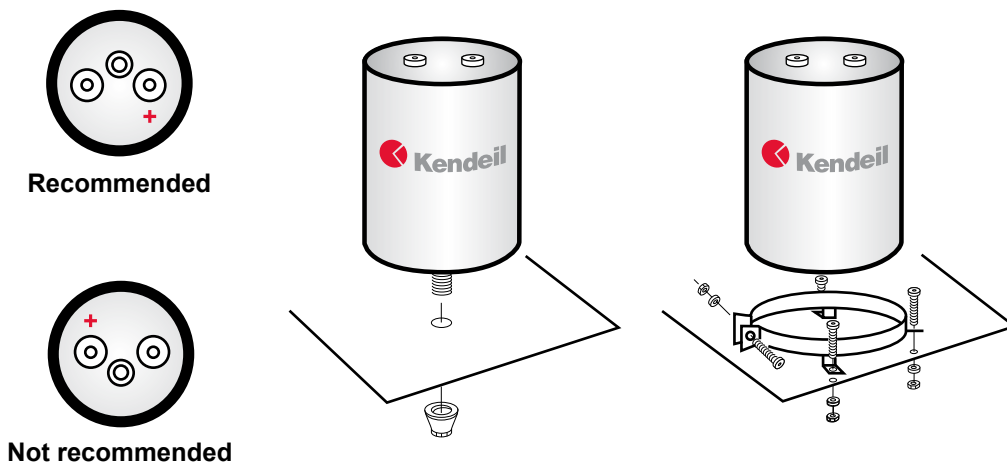
Kendeil aluminium electrolytic capacitors snap in terminals type do have a kind of vent, realized as a weakened area in the base of the alum can, sometimes also by side, that will release the possible growth of excess pressure. Usually board mounted type are easily fixed by their own terminals, and so no special mounting hardware is then required.

When mounting the capacitor, it should be borne in mind that in the event of the vent being blown under failure conditions, a small quantity of hot conductive electrolyte and vapours can, in some cases, flow out from the vent, so the position is important and the can should be carefully located. If possible, we recommend that capacitors are mounted with the safety vent uppermost.

In any case, screws terminal capacitors can be mounted in any position so long as the vent is free to operate.

The overall characteristic parameters such as capacitance, ESR, currents, etc. remain the same whatever is the orientation, but once the vent has been blown, an eventual overflow of electrolyte could damage important parts of the circuit.

Lastly, a good cooling system must be designed. Consideration must be given as to where to place the circuits especially when dealing with high ripple currents; the area around electrolytic capacitors should be well aired with enough distance between the radiant elements, both for maintenance and for security reasons.



Notes when mounting a screw type capacitors:

Special attention has to be applied during assembling in case of stud capacitors. The threaded stud termination (M8 or M12 diameter) is the bottom part of capacitor's can and it's in electrical contact with negative end termination of capacitor. Please use our plastic nut and plastic ring or other well protected system in order to avoid short circuit between stud and assembling frame.

Can and stud are in electrical contact with negative end termination. Can is covered by sleeve, designed to prevent accidental short circuit during maintenances or assembling operation. Air gap between capacitors and machinery's electrical parts, active parts or machinery's frame has to be taken into consideration for good insulation as defined to many standards of machines

In case of snap in products, minimum air gap between capacitor's top and machinery's parts of 4mm are needed due to safety vent position.