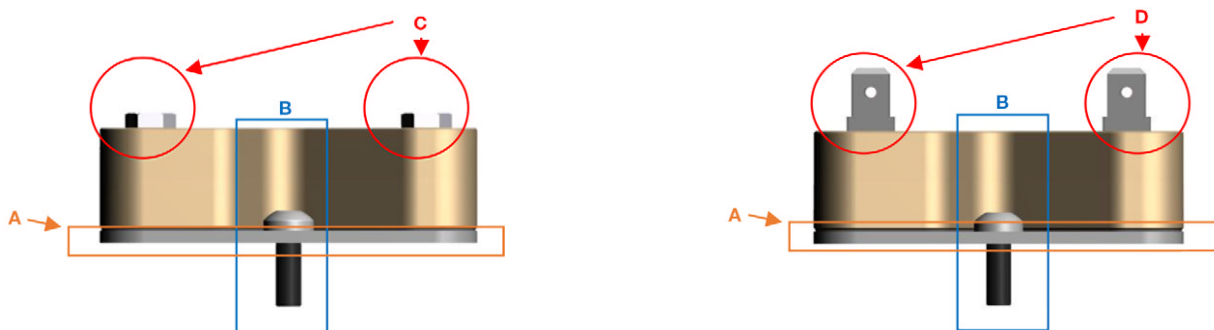


Recommended Installation Instructions for the Hybrid Resistor High Energy (HRHA TP / HRHA FP)

1. RESISTOR'S ILLUSTRATION

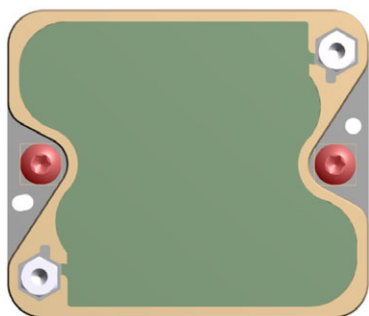


The resistors are supplied ready for electric connection.

2. MECHANICAL INSTALLATION (A)

- The resistor must be mounted on flat surface with identical flatness to the resistor (max. 0.15) for the surface of the plate in contact with support (A)
- The resistor is intended to be used horizontally
- Material in contact with the resistor shall be capable to withstand a maximum temperature of 200 °C when used continuously at maximum power (90 W on stainless steel surface and 54 W on insulated material mica type)
- **Use of thermal pad or any interface between resistor and mounting surface is forbidden unless specific deviation agreement with Vishay MCB have been approved**

3. MECHANICAL TIGHTENING (B)



- The resistor shall be fixed with 2 M4 screws type torx
- Tightening shall be performed at 3 Nm $\pm$ 0.5 Nm
- Overtightening may wear the metal base plate

4. ELECTRICAL CONNECTION (C)

- Electrical connection is made by M4 screws (AISI 304 preferred), thread usable depth of 6.5 mm $\pm$ 0.5 mm
- Tightening torque of 2 Nm $\pm$ 0.2 Nm without use of lube
- **Speed rotation shall not exceed 300 rpm to avoid ovetorque**

5. ELECTRICAL CONNECTION (D)

- Use standard faston 250 series (6.35 mm or 0.250") to plug the resistor on the electrical circuit
- Do not apply a torsion stress on the faston terminals in order to avoid cracks on the cement
- Male faston on the resistor are in stainless steel alloy AISI 304 without plating, proper selection of female faston shall be done to ensure the proper electrical connection



6. COMMISSIONING

- Operating the resistor can be effective only after proper completion of each step from II to IV without restriction

Note

- Only compliance with these recommendations will ensure normal operation of the equipment and avoid any malfunction

7. PRODUCT END OF LIFE

- In order to preserve, protect and improve the quality of the environment, as well as to protect the health of human beings and to use natural resources prudently, the user is asked to treat the product at the end of its life in accordance with regulations in force in the country of use
- For packaging materials (cardboard, plastics, pallets), they can be reused or recycled in a specialized sector in the treatment of packaging materials
- Electrical cables (if provided) can be separated from resistor and recycled in a specialized sector in their treatment
- Rest of product must be considered as ordinary industrial waste (OIW)