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RESISTANCE THERMISTOR TCII-0690

<u>a elmo</u>

The engines of the BAO2, ДАЗО4, and A4 series are equipped with TCΠ-0690 resistance thermocouples.

The principle of operation of the resistance thermocouple is based on a change in the electrical resistance of the material from which the coil of the sensing element is made, depending on the temperature of the controlled environment.

The sensing element of the resistance thermocouple is a platinum wire spiral, which is located in a ceramic frame. The output ends are sealed with heat-resistant

The sensing element is installed in a protective armature made of 12x18H 10T mo steel. a elmo g elmo

MAIN TECHNICAL DATA AND CHARACTERISTICS:

- 1. Operating range of measured temperatures, °C from minus 50 to 200; 3 elmo
- 2. Symbol of the nominal static characteristic Pt100;
- 3. Class of admission B;
- 4. Nominal resistance value at 0°C, Om 100,00;
- 5. Temperature coefficient of the resistance thermocouple a, $^{\circ}$ C¹ 0,00385;
- 6. Limit of permissible deviation of resistance from the nominal static characteristic, $^{\circ}$ C - \pm (0,3+0,005 ltl), where t is the measured temperature value, $^{\circ}$ C;
 - 7. Thermal reaction time $T_{63.2\%}$, c, no more than -9;
 - 8. Conditional pressure, Py, MPa 0,63;
 - 9. Maximum measuring current (Imax), mA-1,0;

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- 10. Material of protective reinforcement steel 12X18H10T;
 - 11. Length of the mounting part/length of the resistance thermocouple, mm 970; 30/1970;

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- 12. Assigned service life, hours 80000;
- 13. Weight, kg, not more than -0,05.

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