KSD305 Snap-Action Thermostat

Product Technical Datasheet | Configuration Options



Product overview

The KSD305 series thermostat is a 3/4-inch bimetallic snap-action disc thermostat that uses a temperature-sensitive bimetallic disc to achieve rapid contact action. When the temperature reaches the preset value, the bimetallic disc snaps instantaneously, causing the contacts to quickly connect or disconnect the circuit through a mechanism, thus providing safety protection or temperature control for electrical appliances.

Electrical rating

AC 250V | 35A / 45A / 63A

Contact structure

SPST

Reset type

Manual Reset / Auto Reset / Single-action fuse

Typical applications

Electric water heater, Dishwasher, Boiler, Clothes dryer, Heater, etc.

Key Technical Specifications

Parameter	Specification / Options
Rated voltage	AC 250V
Rated current	35A / 45A / 63A (resistive load)
Contact structure	Single-Pole Single-Throw (SPST)
Contact form	Normally open (NO) / Normally closed (NC)
Reset type	Manual Reset / Auto Reset / Single-action fuse
Bimetal disc	3/4 inch
Housing material	Phenolic
Operating temperature range	50°C to 150°C
Temperature tolerance	±3°C to ±5°C
Contact resistance	≤ 50 mΩ
Insulation resistance	≥ 100 MΩ
Dielectric strength	1500V AC / 5mA / 1min
Electrical life	3,000 cycles
Ambient temperature	160°C
Terminal type	M4 threaded terminal
Product certification	CQC24002441742

Zhongshan Boantai Electric Technology Co., Ltd.
A high-tech enterprise specializing in flow sensors, flow switchs, water pumps, solenoid valves, safety insulation valves, and thermostats R&D, manufacturing & sales.

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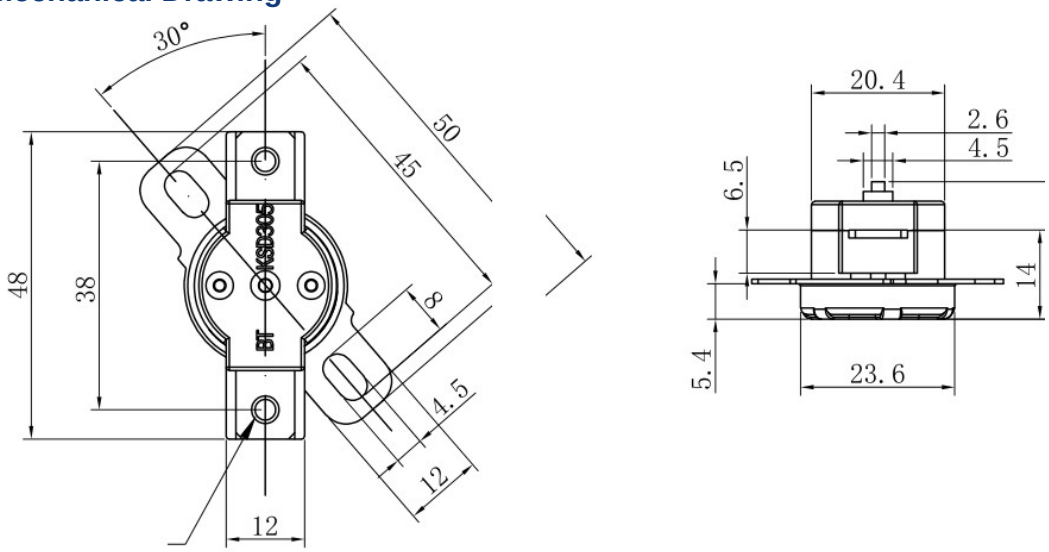
Mechanical Design & Dimensions

Illustrated Mechanical Drawing



Selection & Ordering Information

Configuration Selection

Selection item	Available specification / details to confirm
Model	KSD305
Rated voltage	AC 250V
Rated current	35A / 45A / 63A
Contact form	NO / NC
Reset type	Manual Reset / Auto Reset / Single-action fuse
Operating temperature range	50°C to 150°C
Temperature tolerance	±3°C to ±5°C
Mounting bracket angle	30° fixed / 45° fixed / 90° fixed / Other options: confirm with Engineering

Ordering information:
Please specify KSD305 + rated voltage (AC 250V) + rated current (35A / 45A / 63A) + contact form (NO / NC) + reset type (Manual Reset / Auto Reset / Single-action fuse) + operating temperature + mounting bracket angle.

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