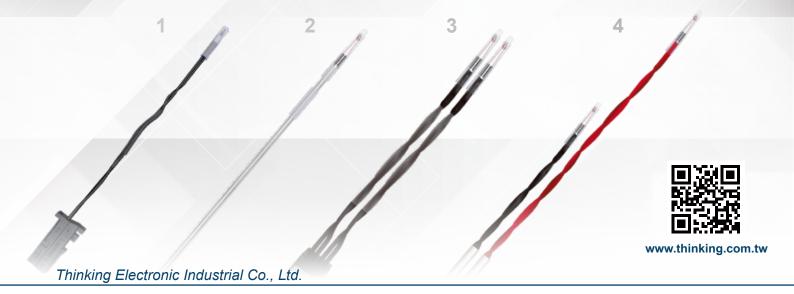
Stator Winding Temperature Sensor

Electric Vehicle Traction Motor Application



THINKING SENSOR





EV Traction Motor Application

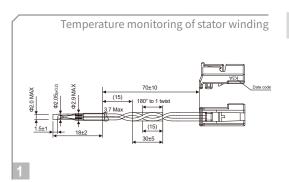
Stator Winding Temperature Sensor

Applications

• Temperature monitoring of stator winding in electric vehicle

Features

- Wide operating temperature range: -40°C ~ +200°C
- Utilizing THINKING high-temperature NTC thermistor, which offers excellent accuracy, stability, and reliability
- Sensing top covered by dual-layered heat shrink provides excellent resistance to mechanical shock, moisture, and corrosion
- Alternative length of lead wires, terminals, connectors, and electrical characteristics are available



Feature | Cylinder probe head shape

Operation Temperature | -40°C ~ +200°C

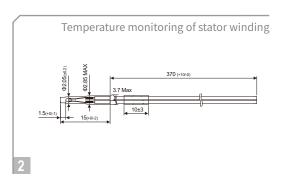
Thermal Time Constant | <4 seconds (in water)

R Value & B Value | R180=0.4637KΩ±2%, B0/100=3970K±1%

Insulation Test | DC 500V $100M\Omega$ (Min)

Hi-Pot Test | AC 2000V 1.5mA (Max)

Moisture Resistance | Pass 40°C 95% RH x 1000 hours test



Feature | Cylinder probe head shape

Operation Temperature | -40°C ~ +200°C

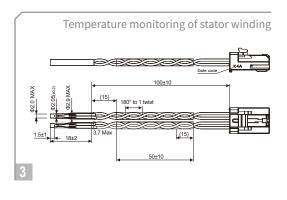
Thermal Time Constant | <4 seconds (in water)

R Value & B Value | R180=0.176KΩ±2%, B25/85=3435K±1%

Insulation Test | DC 500V 300MΩ (Min)

Hi-Pot Test | AC 2000V 1mA (Max)

Moisture Resistance | Pass 40°C 95% RH x 1000 hours test



Feature | Dual cylinder probe head shape structure

Operation Temperature | -40°C ~ +200°C

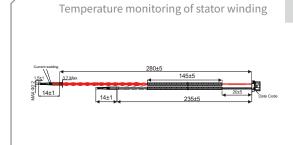
Thermal Time Constant | <4 seconds (in water)

R Value & B Value | R180=0.4637K Ω ±2%, B0/100=3970K±1%

Insulation Test | DC 500V 100MΩ (Min)

Hi-Pot Test | AC 2000V 1.5mA (Max)

Moisture Resistance | Pass 40°C 95% RH x 1000 hours test



Feature | Dual cylinder probe head shape structure

Operation Temperature | -40°C ~ +200°C

Thermal Time Constant | <4 seconds (in water)

R Value & B Value | R180=0.4637KΩ±2%, B0/100=3970K±1%

Insulation Test | DC 500V 100MΩ (Min)

Hi-Pot Test | AC 1800V 1.5mA (Max)

Moisture Resistance | Pass 40°C 95% RH x 1000 hours test