

A-1737 Motor Coil Temperature Sensor



The A-1737 Motor Coil Temperature Sensor provides critical temperature feedback of an electric motor's operating condition. Used by either interlacing into the stator coil, or tied to the neutral bus bar on the motor circuit, it provides a temperature feedback to indicate motor load or stall conditions.

In the event of excessive load or stall in the electric motor, the current in the coil or bus bar increases. This increase in current creates heat in the system which is measured by the sensor. By understanding the temperature conditions, the system can prevent damage to the motor system.

Applications

- EV/HEV Motor Protection
- Starter/Generator Motor Protection
- Industrial Motor/Generator Protection
- Traction Motor Protection

Features

- Robust design utilizing the Amphenol Advanced Sensors AL03006 Series of NTC Thermistors, which is exclusively designed for applications in harsh environments
- Qualified in automotive harsh environment conditions
- Assembly materials rated to 210°C
- Configurable for alternative R/T curves and accuracy requirements
- Connector, terminal or straight leads are optional
- Abrasion sleeve utilized to protect wires in application

Amphenol Advanced Sensors

Specifications

R @ 25°C 30,000 ohms ±5%

R @ 210°C 155.45 ohms ±11.5%

B (25/85°C) 3974K

Operating Temperature Range -40°C to 210°C

Storage Temperature Range -50°C to 210°C

Response time

7 seconds liquid to liquid

Housing Material Axial leaded glass NTC thermistor

Terminal Molex Terminal 33011-3001

NTC Element Part Number AL03006-17.53-98-G2

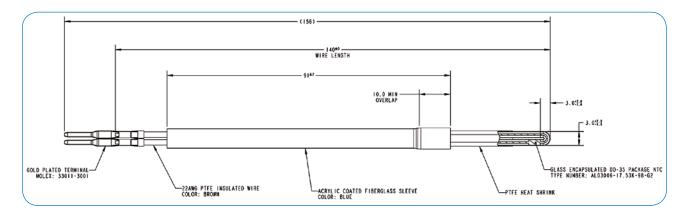
Weight 2 grams

Ordering Code A-1737

Thermistor Material System GE9.8

Resistance vs. Temperature Data

Temp	Resistance Ω	± % Resistance	± °C
-40	965808	9.99	1.53
0	96255	6.51	1.30
20	37387	5.29	1.19
25	30000	5.00	1.15
50	10850	6.42	1.68
80	3775	7.78	2.40
100	2034	8.67	2.91
130	886.6	9.51	3.69
150	541.7	10.22	4.33
175	310.1	10.68	5.05
210	155.4	11.47	6.23



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