

5800 Moody Drive Clarkston, MI 48348 Ph: 248-922-1100

PERFORMANCE*		
Operating Voltage	9V to 24V	
Duty Cycle	Intermittent	
Durability	Up to 10,000,000 Cycles	
Force	See the profile in the graph provided	
Resistance of the Coil	3 - 10 Ohms (can be varied based on customer requirements)	
Operating temp. range	-40 C to 150 °C	

PACKAGE SIZE

Length x Width x Height Typically based on customer specification

CAPABILITY

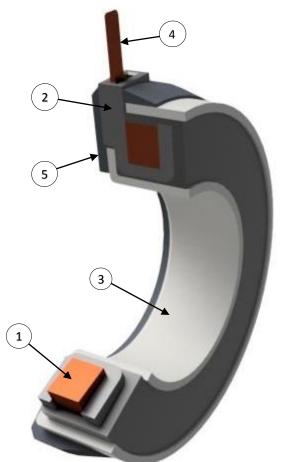
Sheet 1 of 2

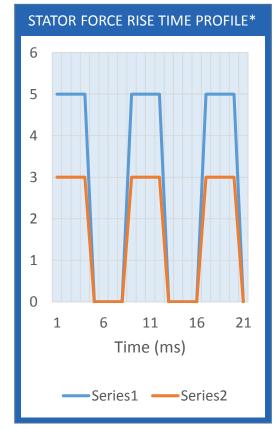
1	Coil	Precision layer wound magnet wire; 20 - 35 AWG, Insulated rating up to 280°C
2	Bobbin	Thermoset or Thermoplastic
3	Flux Carrier	Low carbon steel, carbon steel bar, stainless steel, powered metal, or metal injection molded (MIM)
4	Termination	Resistance Weld, Pulsed Arc Weld, IDC, Robotic Solder to customer specified connector
5	Overmold	Thermoset or Thermoplastic



Heating & Cooling Coils

Clutch Coils used in magnet type clutch devices engage/disengage a clutch hub or shaft. One common application is automotive engine cooling. Input parameters from either the embedded fan speed sensor or engine control unit control the speed of the cooling fan as required. Some benefits include improved fuel efficiency and engine noise reduction. Pontiac Coil's solutions with embedded electronics (see sht.2) can help save package space as well.





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Heating & Cooling Clutch Coils (Continued)

ADVANCED FEATURES

- Integrated Hall sensor
- Integrated speed sensing rotor
- Custom integrated circuitry
- Wide temperature range as required (ex. -55°C to 170°C)

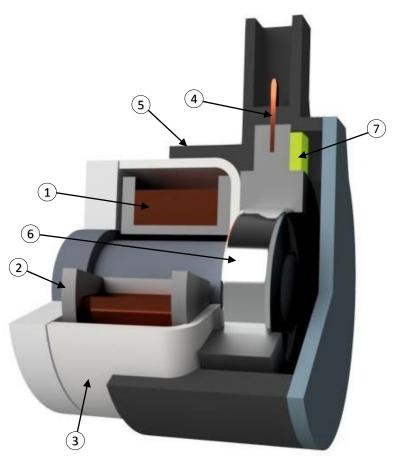
PACKAGE SIZE

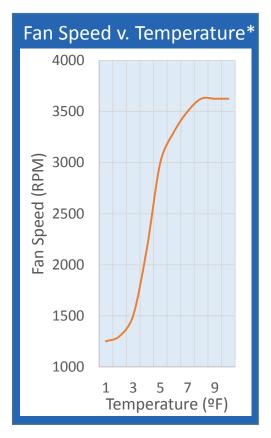
Length x Width x Height Typical

Typically based on customer specification

CAPABILITY

1CoilPrecision layer wound magnet wire; 20 - 35 AWG, Insulation rating up to 280°C2BobbinThermoset or Thermoplastic3Flux CarrierLow carbon steel, carbon steel bar, stainless steel, powered metal, or metal injection molded (MIM)4TerminationResistance Weld, Pulsed Arc Weld, IDC, Robotic Solder to customer specified connector.5OvermoldThermoset or Thermoplastic6BearingOvermolded bearing with high temperature seal7Circuit BoardTemperature rating of components around -55 to 170°C with conformal coating. All components automotive rated.			
Image: ControlImage: Control3Flux CarrierLow carbon steel, carbon steel bar, stainless steel, powered metal, or metal injection molded (MIM)4TerminationResistance Weld, Pulsed Arc Weld, IDC, Robotic Solder to customer specified connector.5OvermoldThermoset or Thermoplastic6BearingOvermolded bearing with high temperature seal7Circuit BoardTemperature rating of components around -55 to 170°C with conformal coating. All	1	Coil	, , ,
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Solder to customer specified connector.Solder to customer specified connector.CovermoldThermoset or ThermoplasticBearingOvermolded bearing with high temperature sealCircuit BoardTemperature rating of components around -55 to 170°C with conformal coating. All	3	Flux Carrier	steel, powered metal, or metal injection molded
6 Bearing Overmolded bearing with high temperature seal 7 Circuit Board Temperature rating of components around -55 to 170°C with conformal coating. All	4	Termination	
7 Circuit Board Temperature rating of components around -55 to 170°C with conformal coating. All	5	Overmold	Thermoset or Thermoplastic
to 170°C with conformal coating. All	6	Bearing	Overmolded bearing with high temperature seal
	7	Circuit Board	to 170°C with conformal coating. All





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