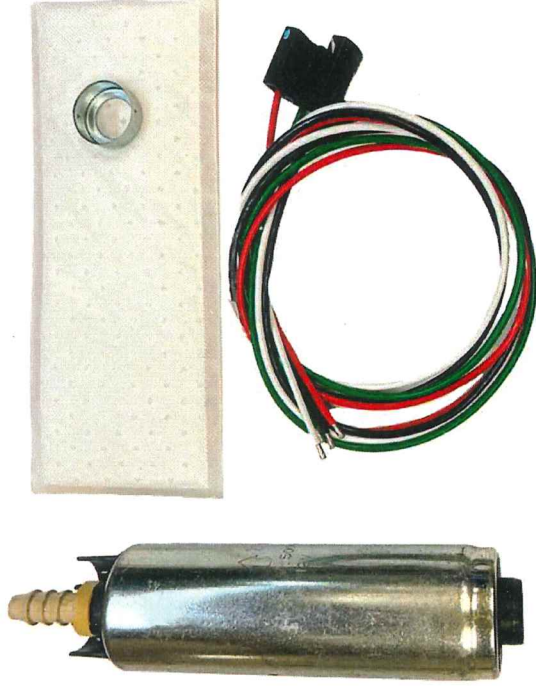




Brushless Screw Fuel Pump Kit BKS1002

New
Product

- BKS1002 Kit Includes:
- TI Automotive Popular E5LM Brushless Screw Pump
 - Designed for in tank applications
 - Triple barb fitting
 - Efficient screw pump design with positive displacement
 - Kit Components
 - 3' long wire harness for in tank mounting
 - High performance inlet filter, 360° orientation
 - Printed Instructions

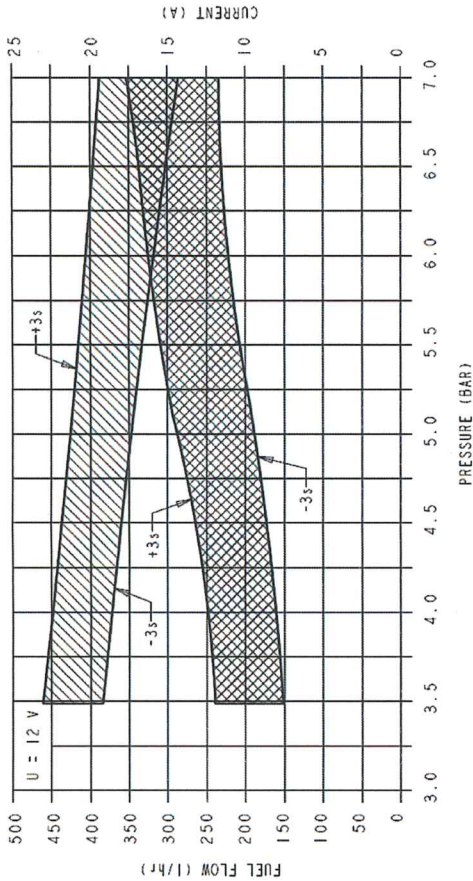
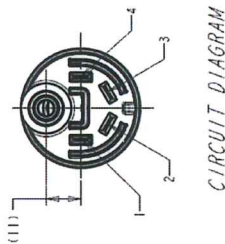
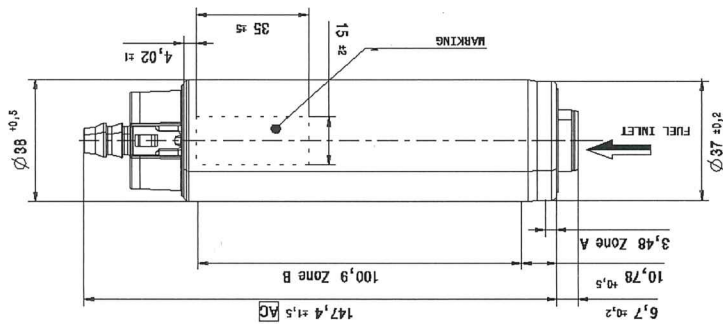


Fuel Tank and Delivery Systems

Fuel Pumps – General Overview

E5LM

Architecture Overview:



Instructions/Warning

The fuel pump must be driven with a sensorless 6 step commutation method (trapezoidal control) or other suitable method – Sinusoidal or Field Oriented Control (FOC) for example

Pump must be used with a BLDC - Brushless Pump Controller (Not Supplied).

ADVICE: This Fuel Pump is operated by using 3-Phase DC Brushless motor techniques utilizing sensorless drive. Instead of having only two wires exiting fuel pump for constant DC electrical power to be applied, this fuel pump has four wires. Three of which attach directly to the motor's stator windings and one ground wire. This makes an external electronic DC brushless controller REQUIRED for operation. TI Automotive BCT1001 controller can operate this model fuel pump and is available for purchase. The use of Initial Position Detection (IPD) to assist in pump start-up is preferred.

- BLDC Controller REQUIRED; NOT SUPPLIED

Determine controller mounting location. Area should be in close proximity to the tank and away from heat and extreme weather conditions. Take note of the 4 wires and phase orientation to be connected to the fuel pump. Make sure mounting location leave enough wire length but not straining the wires. Minimum pump speed: 2500 rpm - @4 bar or 3500 rpm - @6 bar or greater

