



The Eaton designed 39-0001 boost pump is mounted within a 39-0004 canister installed in the aircraft fuel tanks. The pump incorporates a mixed flow impeller driven by an internal, fuel flooded, variable frequency 3 phase induction motor and provides fuel supply to the engines. The pump is capable of operation directly from a 200V L-L 360Hz to 800Hz three phase supply.

Pump performance is maintained at altitude over a range of fuel temperatures. The unit has excellent thermal performance mounted to composite structure and includes both motor thermal protection devices and a thermal sensor to indicate composite structure interface temperature.

Design Features

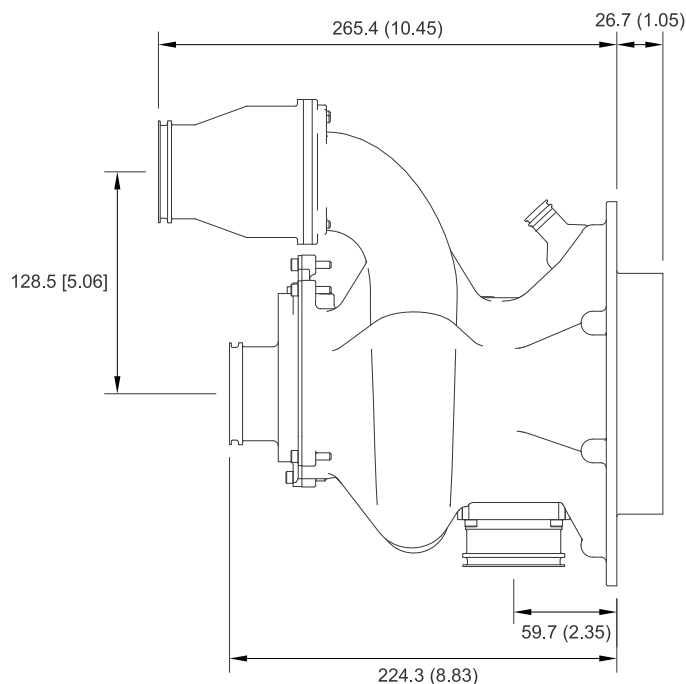
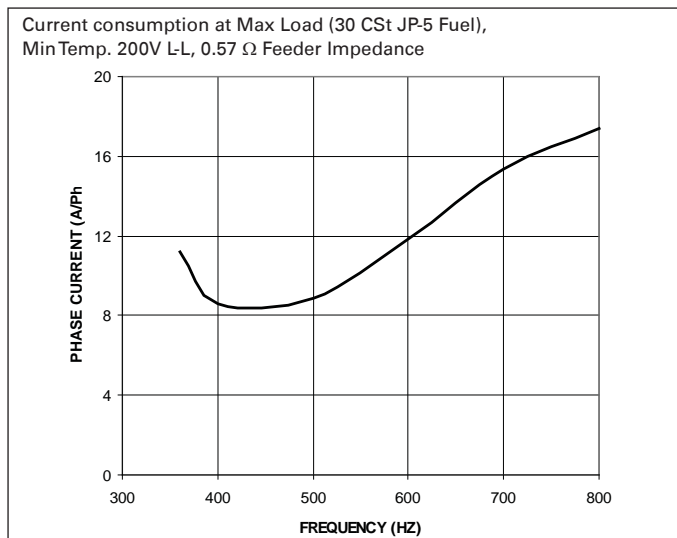
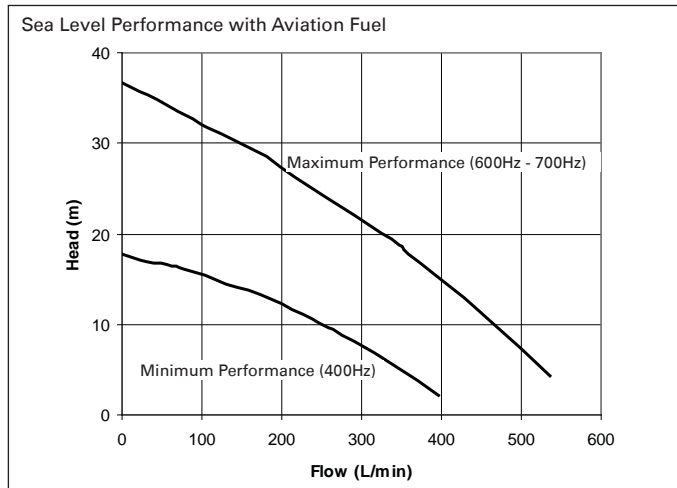
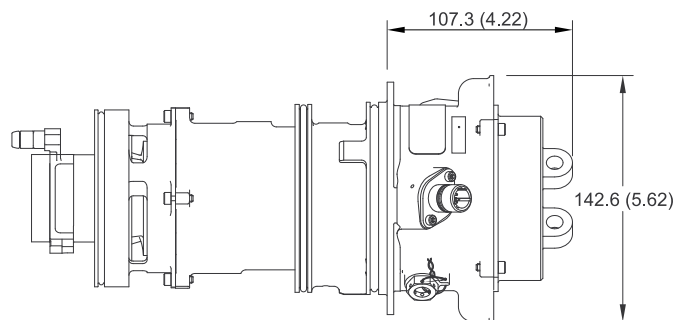
- The canister incorporates inlet and outlet valves to allow the pump to be removed from the tank without needing to drain the fuel tanks.
- The reliability and long life of the unit are enhanced by the fully flooded operation of the AC motor which facilitates cooling and lubrication.



Powering Business Worldwide

Specification

Pump Part No. 39-0001-1100
 Canister Part No. 39-0004-1100
 Power Supply 200V 3 Phase
 Variable Frequency 360 - 800Hz
 Flow Rate 3.78kg/sec (30,000 lb/hr)
 Delivery Pressure min 48 / max 413kPa (7/60psig)
 Motor Speed Variable (5300 - 8500rpm)
 Current Consumption 8.4A at 400Hz
 17.0A at 800Hz
 Weight
 Pump 5.00kg (11.00lb)
 Canister 2.84kg (6.25lb)



Dimensions in mm (in)

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