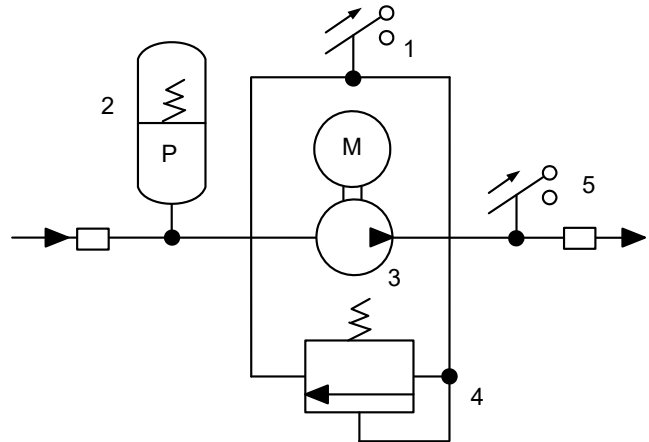


MOTOR DRIVEN PUMP UNIT

PDT Model 5001



1. Differential Pressure Switch
2. Accumulator
3. Pump
4. Bypass Valve
5. High Pressure Switch

Hydraulic Schematic

Description

The PDT Model 5001 includes a positive displacement pump, spring loaded accumulator and two pressure switches. The motor cavity is flooded to

allow the use of a hydro dynamically lubricated journal instead of ball bearings. These design features greatly enhance pump reliability and benefit

motor cooling. The unit has been qualified to MIL-STD-810 environments and has a proven flight history within its jamming radar cooling system.

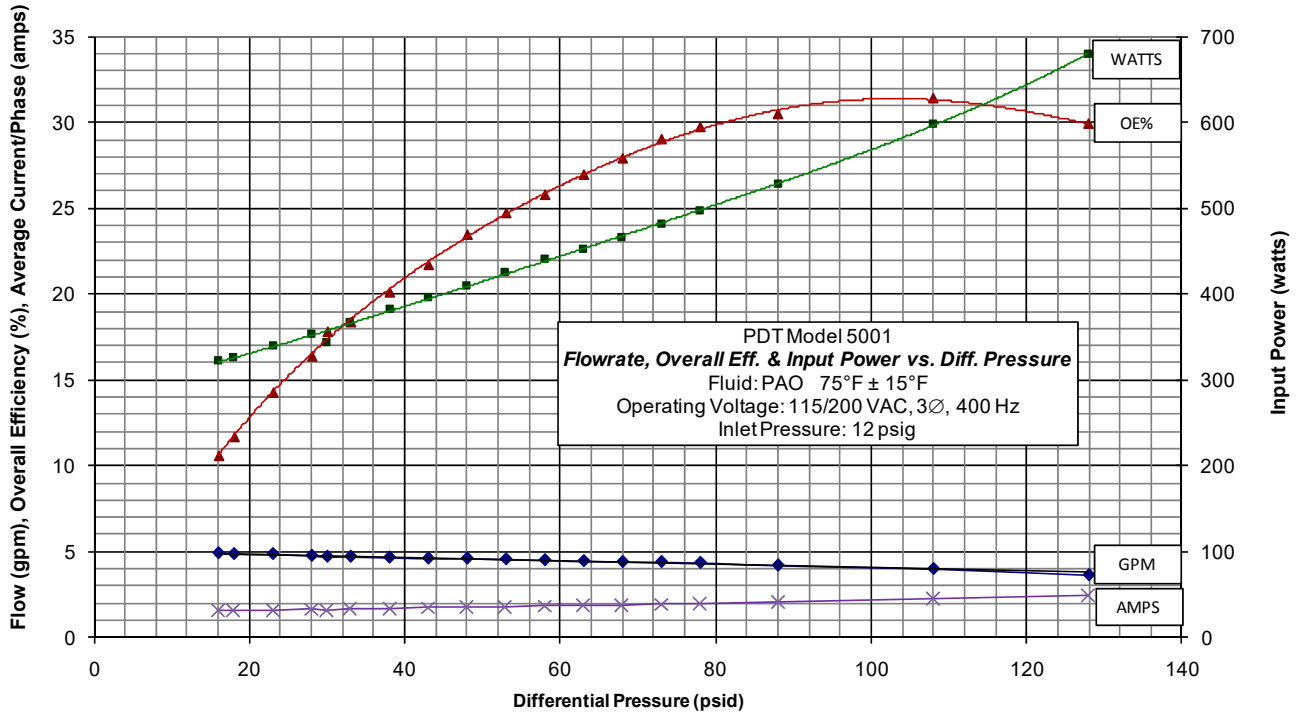
Specification

Pump Parameters	Fluid:	Polyalphaolefin (PAO) per MIL-PRF-87252
	Pump Flow:	4.0 gpm (min)
	Pressure:	30 psid @ +21°C ± 5°C
	Operating Temperature Ranges:	Ambient Air: -54°C to +85°C Coolant: -54°C to +105°C
	Operating Voltage:	115/200 VAC, 3Ø, 400 Hz
	Input Power:	414 Watts (max)
	Pump Type:	Positive displacement
	Dry Weight:	7.0 lbs (max)
Accumulator	Pressure:	33.5 in ³ (min) @ 15 psig ; 0 in ³ (min) @ 8 psig
	Style:	Piston-type, Spring loaded, Vented
Valve	Integral Bypass Valve:	Full bypass @ 4.00 gpm (min) by 150 psid
Switches	Differential Pressure:	Normally open Close by 8.5 ±1.5 psid on increasing pressure Open by 5.0 ±2.0 psid on decreasing pressure
	High (Gauge) Pressure:	Open by 140 psig on increasing pressure Close by 120 psig on decreasing pressure
	Thermal Protection:	Integral relay and thermal switches (located in motor windings)

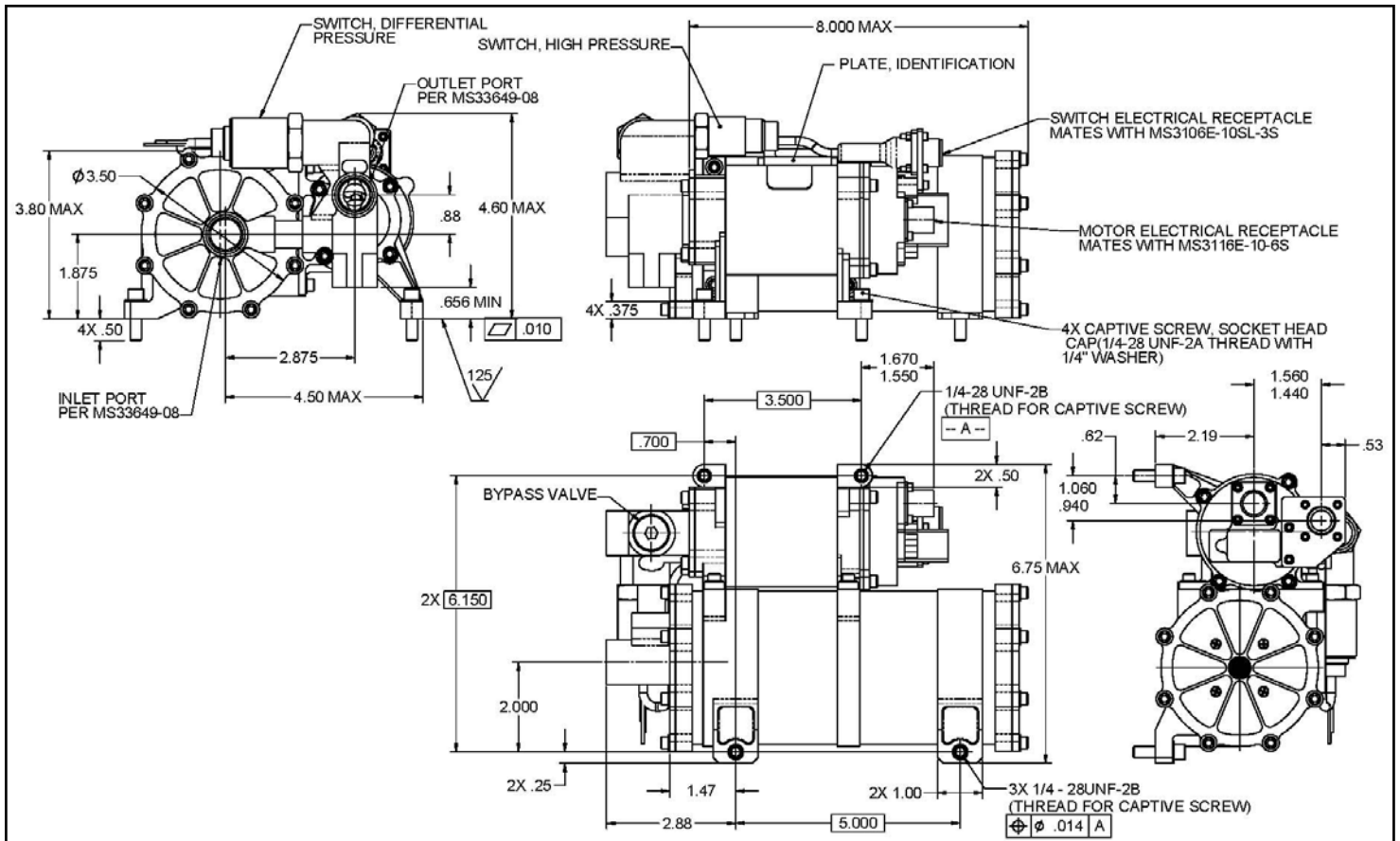
MOTOR DRIVEN PUMP UNIT

PDT Model 5001

Performance Graph



Outline



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PDT Model 5001