PRODUCT DATA SHEET



Product attributes and benefits

• Integral assembly, mounted internal to aircraft fuel tank

for fuel pump applications utilizing a 28 VDC power system.

testing and field experience provides a low risk, cost effective solution

- · Single inlet utilizing a centrifugal impeller
- 28 volt brushless DC drive system (motor & controller)
- Voltage range is from 18 VDC to 32 VDC
- · Motor and controller are fuel cooled for long life

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PARKER AEROSPACE

Fuel boost pump

Product data matrix and performance index

Model 13C1-1

Characteristic	Value	Pump performance
Model number Application	13C1-1 Fuel boost pump	Typical model 13C1-1 pump performace curve at 28 VDC for room temperature JP-8 at sea level
Pumping data Hydraulic element Rated flow Minimum discharge pressure Typical discharge pressure Maximum operating altitude	Single stage, centrifugal 9000 pph 27 psig 30 psig at SL 40,000 ft	40 35 35 30 30 30 30 30 30 30 30 30 30 30 30 30
Qualified fuels Temperature range Duty cycle	JP-8, JP-4 -65°F to +135°F Continuous	5 5 0 0 2000 4000 6000 8000 10000 Flow (pph)
Motor data Motor type Voltage Current at rated flow Maximum current Dry run capability EMI filtering Stator Thermal protection Electrical connection	Brushless DC 28 VDC 21 amps at SL 30 amps Yes Yes Yes D38999/26WE6PN	— Pressure — Current
Geometric assembly data Assembly mounting Inlet port Discharge port Discharge check valve Bypass flow valve Lift capability Approximate envelope (LxWxH) Weight (maximum)	Submerged, wall mount #8 mesh, screened inlet MS33786-24 No Yes No 6.1" x 6.9" x 8.4" 8.5 lbs	

