

MODEL 380

Brushless DC Motor



Brushless DC Design

Eliminates frequent and costly maintenance of motor brushes.

0-5 VDC Speed Control

Maintains speed across entire torque range of the motor. 1 V/1000 rpm allows quick, initial set up of control scheme. When combined with a positive displacement pump, the speed control feature can extend the useful life of the pump by increasing speed to compensate for pump wear.

Torque Limiting Capability

Prevents undesirable decoupling by causing a motor stall to occur before the magnets decouple, avoiding the need to power down to recover.

IP55 Enclosure

Permits installation in washdown locations or when the motor housing will be exposed to corrosive fumes.

Mounting Configuration

Supports Micropump standard magnetic coupling for "A" or "B" mount pumps.

Specifications

Power Supply: 20 to 28 VDC

Control Voltage: 0 to 5 VDC

Tachometer Output: 0 to 5 V square wave, 2 pulsations per rev.

Maximum Current Draw: 3.4 A

Torque @ Speed: 114 mN-m (15 oz-in @ 3750 rpm @ 22°C)
106 mN-m (13.9 oz-in @ 3400 rpm @ 50°C)

Service Life: MPBF greater than 50,000 hours and L10 greater than 20,000 hours

Thermal Shutdown: 90°C +/- 4°C mounting flange temperature

Motor Insulation: Class B