Series 5800 Pump
Model: 58XX-7X01-B584
Flow Range: Open Flow = .97-1.50 GPM
At 70 PSI = .54-1.00 GPM

COMPLETING THE PART NUMBER:

58XX-7X01-B584

- Steel Mounting Plate (Other Types Available)
- Desired Shut-off Pressure & Code
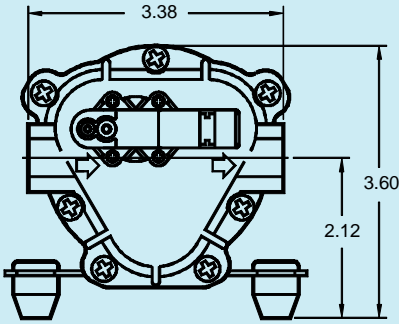 - A = 30PSI   C = 45PSI   E = 60PSI
  - B = 40PSI   D = 50PSI   F = 70PSI
- 70 PSI Pressure Switch Limit (Maximum Flow Components)
- Select Pumphead Model From Performance Data Chart
- 3 = Open Ports for 3/8" Compression Fitting
- 5 = Push-to-Connect Ports for 3/8" Tubing

SPECIFICATIONS:

- **MOTOR:**
  - **TYPE:** 115 VAC, 60 HZ, Permanent Magnet, Totally Enclosed, Non-Ventilated
  - **LEADS:** 14 AWG, 12" LONG
  - **TEMP. LIMITS:** For User Safety, Optimal Performance, and Maximum Motor Life, This Motor is Equipped with a Thermal Protector that Limits the Motor Shell Temperature to 145°F (63°C), as Shown on the Heat Rise Graph.
  - **DUTY CYCLE:** See Heat Rise Graph

- **PUMP DESIGN:** 3 Chamber Diaphragm Pump, Self Priming, Capable of Being Run Dry

- **TYPICAL APPLICATION:** Industrial Grade Water Transfer

- **MATERIALS:**
  - **HOUSINGS:** Nylon
  - **VALVES:** EPDM
  - **DIAPHRAGM:** Santoprene
  - **FASTENERS:** Stainless Steel

- **LIQUID TEMPERATURE:** 170°F (77°C) Max.

- **PUMP CERTIFICATIONS:** NSF Standard 58

- **PRIMING CAPABILITIES:**

	58X0	58X1	58X2	58X3	58X4
PRIME (FEET)	4.5	5.5	7	9	10

- **FITTINGS:**

TYPE	SHAPE	KIT NO.	CONNECTS TO…
3/8" COMPRESSION	STRAIGHT	25-145	3/8" TUBING
3/8" COMPRESSION	ELBOW	25-146	3/8" TUBING
3/8" STEM	STRAIGHT	25-144	3/8" JOHN GUEST PUSH-ON FITTING
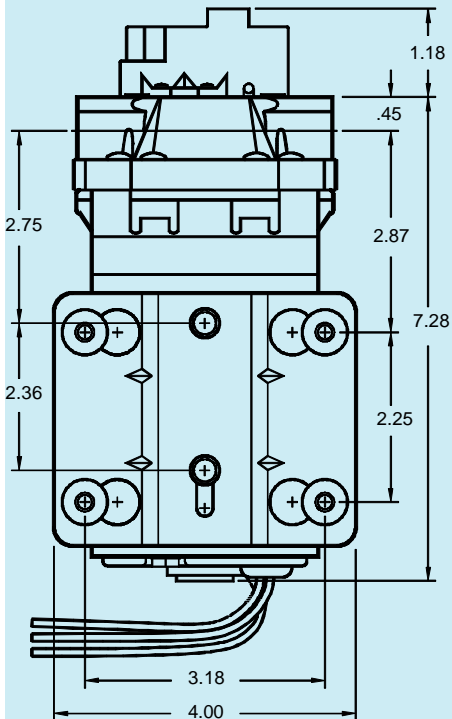
WEIGHT: 6 lbs.

Dimensions: 3.38, 3.60, 2.12, 1.18, .45, 2.75, 2.87, 2.36, 7.28, 2.25, 3.18, 4.00

Series 5800 Pump
Model: 58XX-7X01-B584

PERFORMANCE DATA

DISCHARGE PRESSURE (PSI)	PUMPHEAD MODEL									
	58X0		58X1		58X2		58X3		58X4	
	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)	FLOW (GPM)	CURRENT (AMPS)
70	0.54	0.41	0.67	0.48	0.87	0.59	0.95	0.68	1.00	0.75
60	0.60	0.38	0.72	0.45	0.91	0.54	1.00	0.63	1.07	0.70
50	0.66	0.35	0.78	0.41	0.95	0.50	1.06	0.58	1.16	0.64
40	0.70	0.32	0.83	0.37	0.98	0.46	1.14	0.53	1.24	0.58
30	0.76	0.30	0.87	0.34	1.03	0.41	1.20	0.48	1.30	0.52
20	0.83	0.26	0.91	0.30	1.10	0.36	1.27	0.42	1.37	0.47
10	0.90	0.23	0.95	0.26	1.16	0.33	1.34	0.39	1.44	0.43
OPEN	0.97	0.21	0.99	0.22	1.22	0.30	1.40	0.36	1.50	0.40

PERFORMANCE MEASURED WITH FLOODED INLET (0 PSI), 70°F (21°C) AMBIENT AND WATER TEMPERATURE, AND VOLTAGE CONTROLLED AT 115 VAC. POSITIVE INLET PRESSURE WILL INCREASE THE DISCHARGE PRESSURE BY A SIMILAR AMOUNT, FOR A GIVEN FLOW. MAXIMUM INLET PRESSURE IS 60 PSI.

SHADED AREA DENOTES CONTINUOUS OPERATION CAPABILITY AT DESIGNATED PRESSURE AND CURRENT.
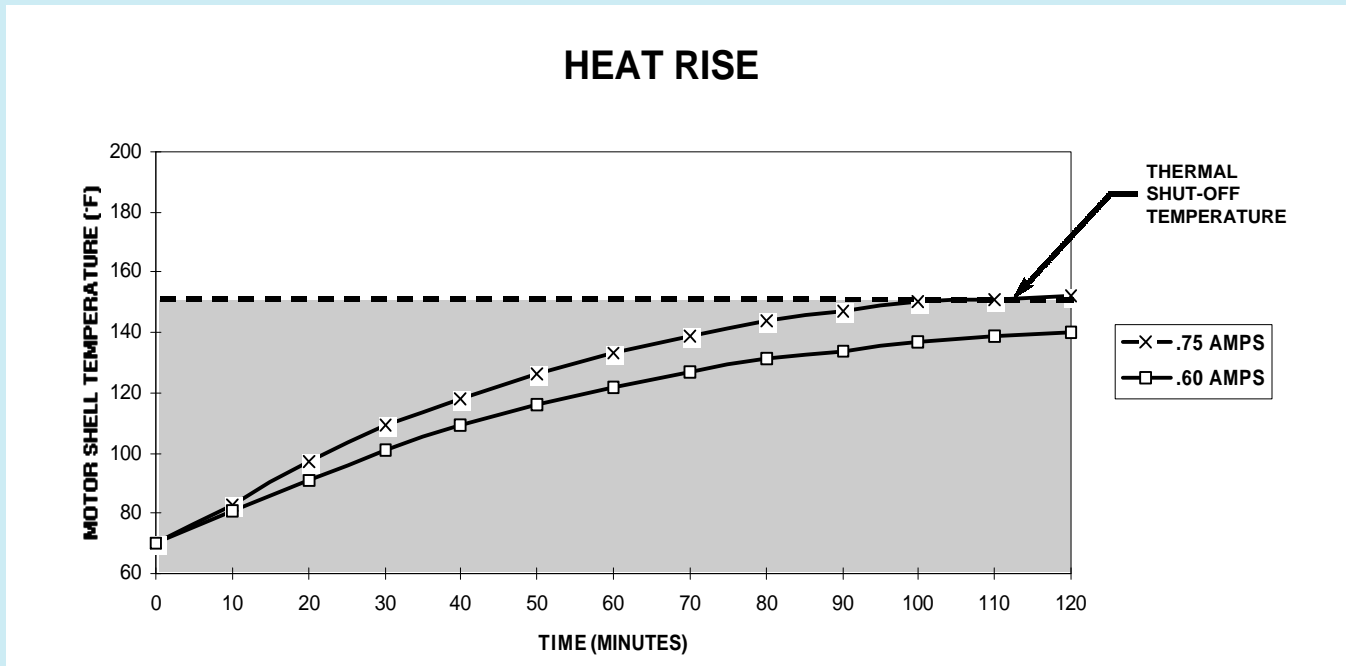
HEAT RISE

The shaded area in both the Performance Data and Heat Rise charts, contains pumps with current levels that are capable of running without periodic cool down. Pumps in this category will generally transfer more water over sustained periods than those in the unshaded areas, which are required to shut down while the motor cools. Some applications require maximum flows at high pressures for relatively short periods, however, so an explanation of thermal protection follows:

1. The Heat Rise graph plots the highest current that can run without ever leaving the Shaded Area, in this case, .60 amps. All pumps with lower operating currents may also run continuously, unless the surrounding air temperature exceeds 70°F (21°C).
2. The other curve shown is the highest flow and pressure model offerred, the 58X4. At 70 PSI, this pump will flow 1.00 GPM, drawing .75 amps.
3. The motor driving all of these pump models has a built in thermal protector that will open, shutting off the pump, when the surface temperature of the motor heats to approximately 145°F. After the initial room temperature heat rise as shown, the model 58X4 reaches the shut off temperature after about 40 minutes of run time, pumping about 40 gallons at 70 PSI.
4. Motors of this size and construction require 20 to 40 minutes of cooling time before the thermal protector closes and re-energizes the pump. Lower current levels heat more slowly, allowing longer run times, but the cool down time still averages about 30 minutes, at 70°F ambient temperature.
5. Your application may call for short bursts of water, consuming far less than the 40 minutes of sustained operation. Start up current exceeds normal running current, however, so cycling should be limited to 6 times per minute.

ALL PERFORMANCE AND HEAT RISE FIGURES ARE APPROXIMATE. ACTUAL VALUES WILL VARY WITH AMBIENT CONDITIONS.