

SPECIFICATIONS:

MODEL NUMBER: 8090-902-248

PUMP DESIGN: Positive Displacement 3 Chamber Diaphragm Pump

CHECK VALVE: (1-Way Operation) Prevents Reverse Flow

CAM: 2.5 Degree

MOTOR: Permanent Magnet, P/N 11-160-10, Thermally Protected

VOLTAGE: 230 VAC Nominal

PRESSURE SWITCH: Adjustable Shut-Off (Range 80-100 PSI)

Factory Set @ 100 PSI, Turn On 85 PSI $\pm$ 5 PSI

LIQUID TEMPERATURE: 180 Degrees Fahrenheit (82 Degrees Centigrade) Max.

PRIME: Self-Priming Up To 9 Ft. Vertical,
Max. Inlet Pressure 30 PSI (2.1 Bar)

PORTS: 3/8"-18 NPT Female

MATERIAL OF CONSTRUCTION:

PLASTICS- Nylon

VALVES- EPDM

DIAPHRAGM- Santoprene

FASTENERS- Zinc Plated Steel

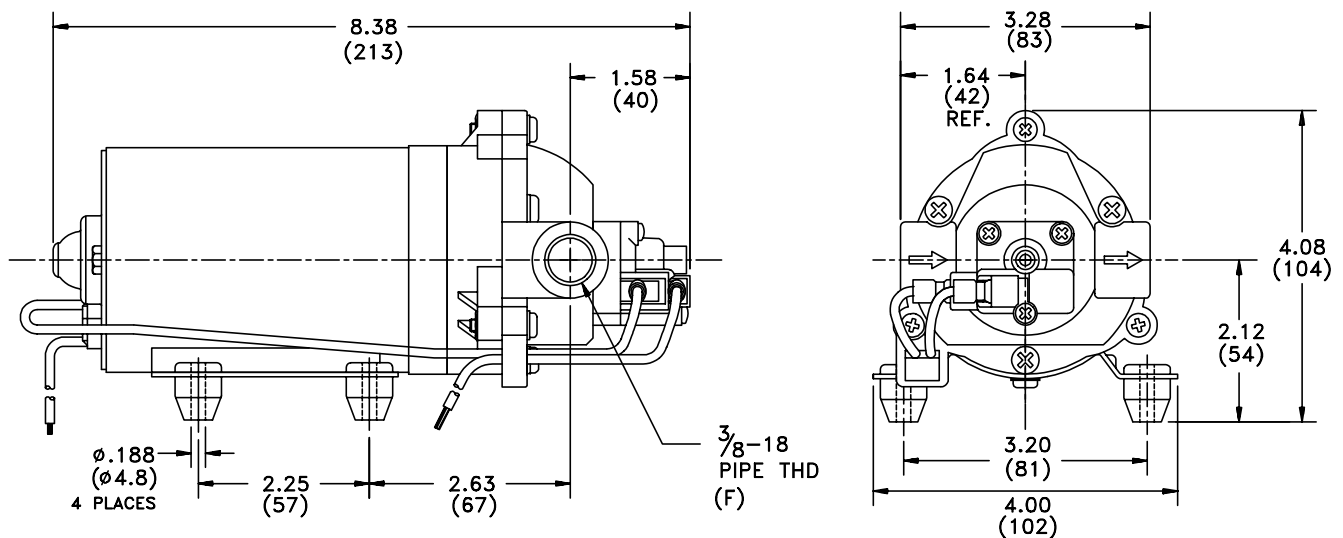
NET WEIGHT: 4.75 Lbs (2.15 Kg)

DUTY CYCLE: Intermittent (See Temperature Rise Chart)

TYPICAL APPLICATIONS: Soil Extraction

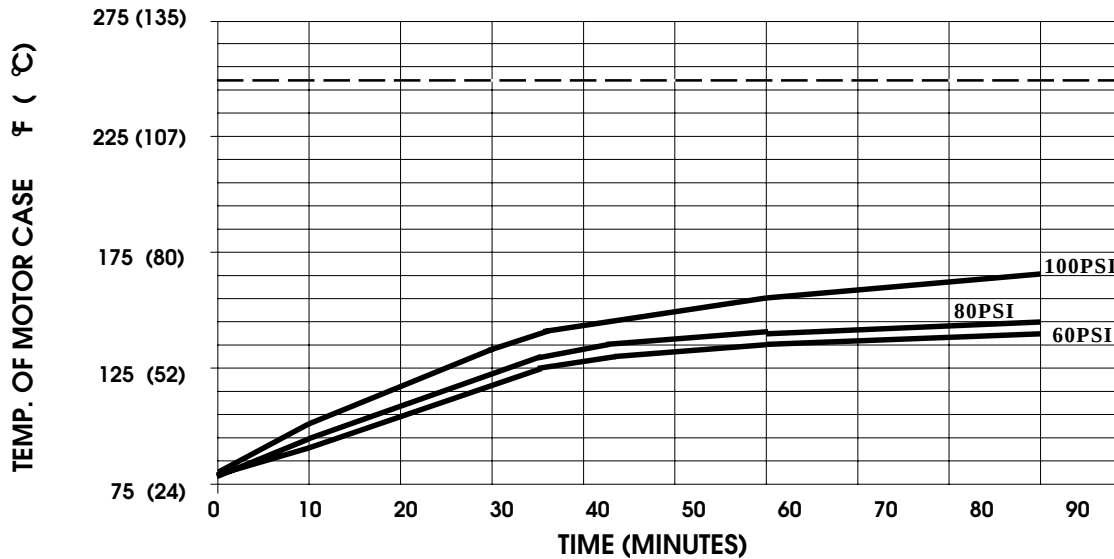
APPROVALS: VDE Approved

DIMENSIONS:



TEMPERATURE RISE

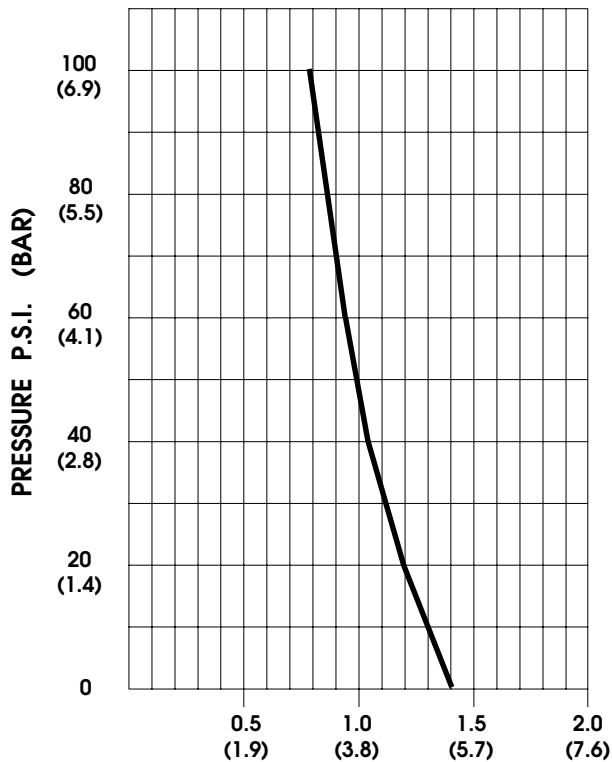
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THIS GRAPH IS FOR USE AS A DESIGN GUIDE. IT IS BASED ON RUNNING CONTINUOUSLY WITH AN AMBIENT TEMPERATURE OF 80° F IN STILL AIR. THE THERMAL BREAKER WILL OPEN WHEN THE CASE TEMPERATURE REACHES 250° F.

[----- TRIP POINT OF THERMAL PROTECTOR]

TYPICAL PERFORMANCE



PRESSURE (PSI)	FLOW (GPM/LIT)	RPM MIN/MAX	CURRENT (AMPS)	VOLTAGE (VOLTS)
OPEN	1.42/5.4	2570/2595	0.16	230VAC
10	1.28/4.8	2520/2530	0.19	"
20	1.19/4.5	2440/2460	0.21	"
30	1.12/4.2	2360/2395	0.23	"
40	1.05/4.0	2290/2330	0.25	"
50	1.00/3.8	2235/2295	0.27	"
60	0.95/3.6	2170/2225	0.29	"
70	0.91/3.4	2135/2180	0.31	"
80	0.87/3.3	2070/2135	0.32	"
90	0.83/3.1	2030/2085	0.34	"
100	0.79/3.0	2000/2055	0.36	"

-SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

-ALL DATA BASED ON TESTING WITH WATER AT AMBIENT TEMPERATURE.

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