Barmesa® Pumps

SUBMERSIBLE SOLIDS HANDLING PUMP

Series: **4SWH-DS**
20 - 100 HP @ 1750 RPM
10 - 40 HP @ 1150 RPM
Discharge: 4"
Spherical solids handling: 3"

DISCHARGE
4", 125 lb, horizontal flange, slotted to accommodate 100 mm ISO flange.

LIQUID TEMPERATURE
104 °F (40 °C) continuous

VOLUTE
Cast iron ASTM A-48 class 30

MOTOR HOUSING
Cast iron ASTM A-48 class 30

SEAL PLATE
Cast iron ASTM A-48 class 30

IMPELLER
Design: enclosed dual vane with pump-out vanes on back side. Dynamically balanced.
Material: ductile iron ASTM A-536, 65-45-12.

SHAFT
416 series stainless steel

HARDWARE
300 series stainless steel

O-RINGS
Buna-N

LIFTING BAIL
300 series stainless steel

MAX. SUBMERGENCE
66 ft (20 m)

PAINT
Epoxy

SEAL
Design: tandem, mechanical, in oil filled reservoir.
Material: inboard rotating faces, carbon; stationary faces, ceramic. Outboard rotating and stationary faces, silicon carbide. Buna-N elastomer and 300 series stainless steel hardware.

CORD ENTRY
40 ft cord, epoxy sealed housing, with secondary pressure grommet for sealing and strain relief.

BEARINGS
Upper: ball, single row and oil lubricated, for radial load.
Lower: ball, double row and oil lubricated, for radial and thrust loads.

MOTOR
NEMA three phase 208/230 & 460 V, premium efficiency, oil-filled, squirrel cage induction, inverted duty rated. Class H insulation. Requires overload protection in control panel.

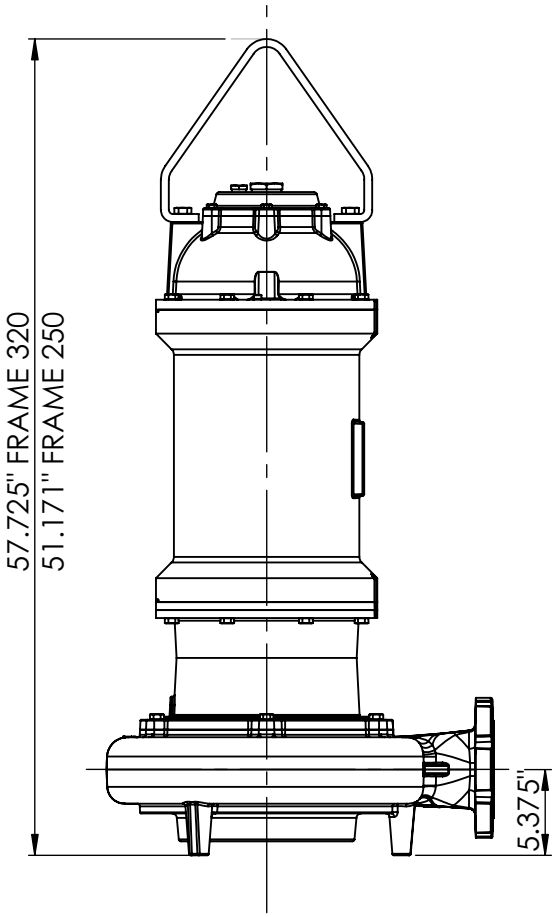
MOISTURE SENSOR
Normally open (N/O), requires relay and panel.

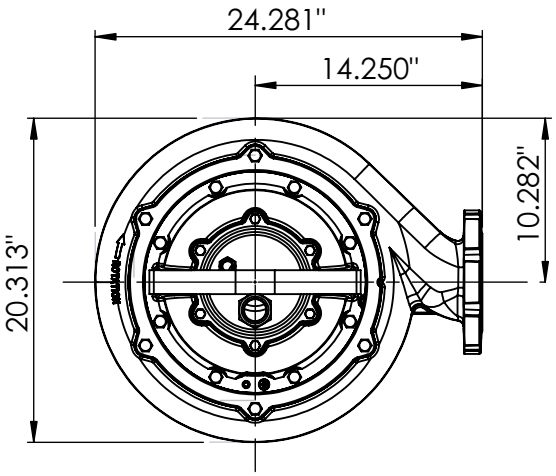
TEMPERATURE SENSOR
Normally closed (N/C), to be wired in series with control circuit.

OPTIONAL EQUIPMENT
Slide rail coupling, leg kit and seal material.

TECHNICAL DATA SHEET

SPECIFICATIONS





barmesapumps

MODEL	PART No.	HP	PH	V	RPM (nom)	NEMA START CODE	FULL LOAD AMPS	SF	AMPS SF	FRAME	POWER CORD SIZE	WEIGHT (lb)
4SWH20034DS	62172029	20	3	208/230	1750	J	73/66	1.15	73/76	250	6	615
4SWH20044DS	62172030			460			33		38		10	
4SWH25034DS	62172031	25	3	208/230	1750	G	84/76	1.15	84/88	250	6	633
4SWH25044DS	62172032			460			38		44			
4SWH30034DS	62172033	30	3	208/230	1750	E	92.2/83.4	1.15	92.2/96.0	250	2	653
4SWH30044DS	62172034			460		F	46.7		53		6	
4SWH40044DS	62172035	40	3	460	1750	E	67	1.15	78	250	6	683
4SWH50044DS	62172036	50	3	460	1750	F	65	1.15	74.8	320	6	760
4SWH60044DS	62172037	60	3	460	1750	E	76.6	1.15	88.1	320	2	782
4SWH75044DS	62172038	75	3	460	1750	G	105	1.15	120	320	2	806
4SWH100044DS	62172039	100	3	460	1750	E	132.5	1.15	152	400	2/0	927
4SWH10036DS	62172042	10	3	208/230	1150	E	29/27	1.15	37/33	250	6	598
4SWH10046DS	62172043			460			13.5		18.4		10	
4SWH15036DS	62172044	15	3	208/230	1150	H	47/43	1.15	54/49.4	250	6	623
4SWH15046DS	62172045			460			21.5		24.7		10	
4SWH20036DS	62172046	20	3	208/230	1150	E	40/38	1.15	40	250	6	642
4SWH20046DS	62172047			460			24.7		24.7			
4SWH25046DS	62172049	25	3	460	1150	G	30	1.15	34.5	320	6	719
4SWH30046DS	62172051	30	3	460	1150	E	93.6	1.15	107	320	6	740
4SWH40046DS	62172052	40	3	460	1150	E	90	1.15	103.3	320	6	762

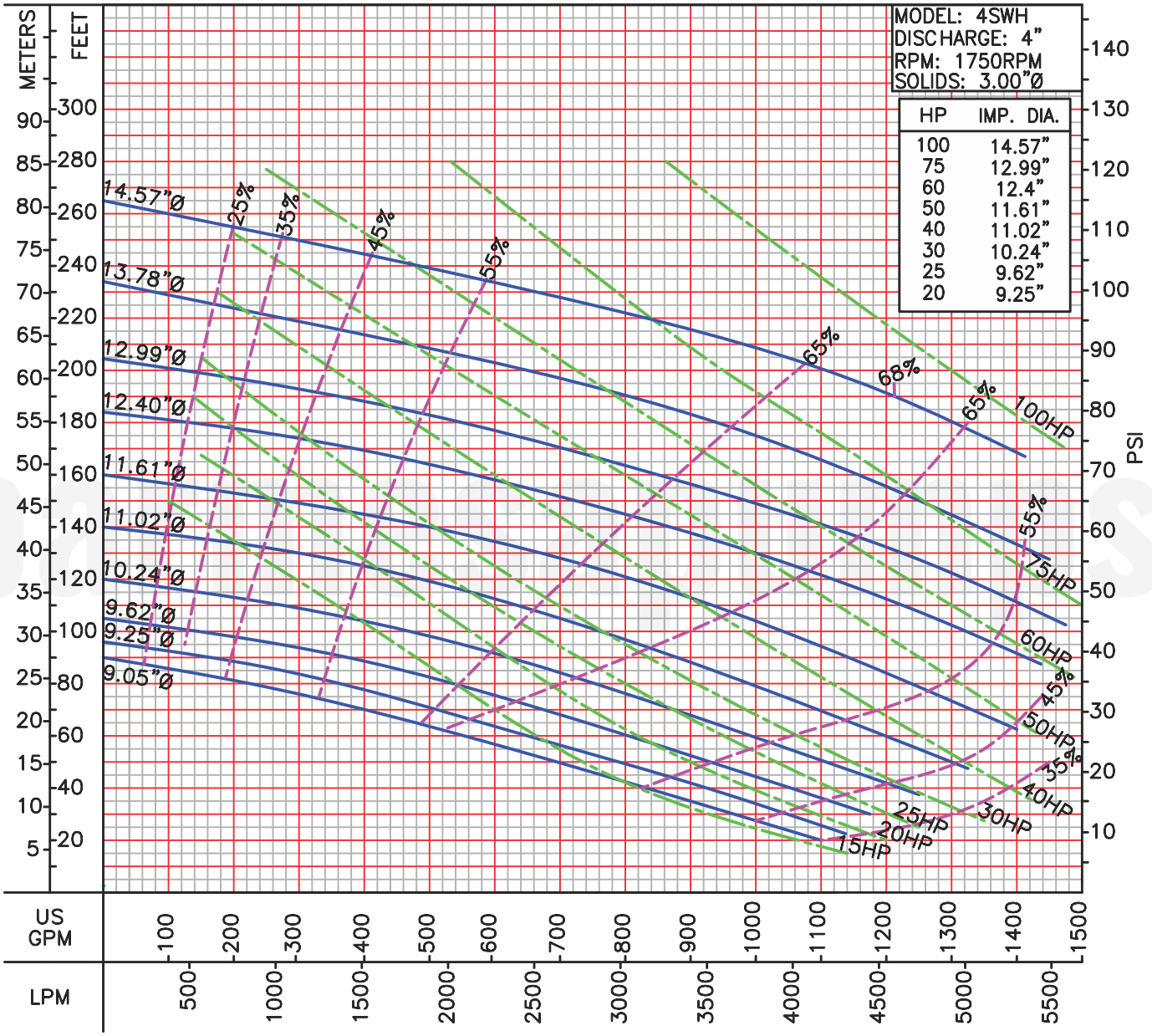
Note: Seal moisture and temperature sensor cord in all models size 18/5.

IMPORTANT!

1. Do not use the pump to handle explosive or corrosive liquids.
2. This pump is not appropriate for those applications specified as class 1 division 1 hazardous locations.
3. This pump is not approved for use in swimming pools, recreational facilities, or any application where human contact with the pump is common.
4. Do not operate the pump dry for extended periods; this may damage the motor or the seal.
5. Moisture and temperature sensors must be connected for the warranty to remain valid.

PERFORMANCE CURVES

SERIES: **4SWH-DS**
RPM: 1750

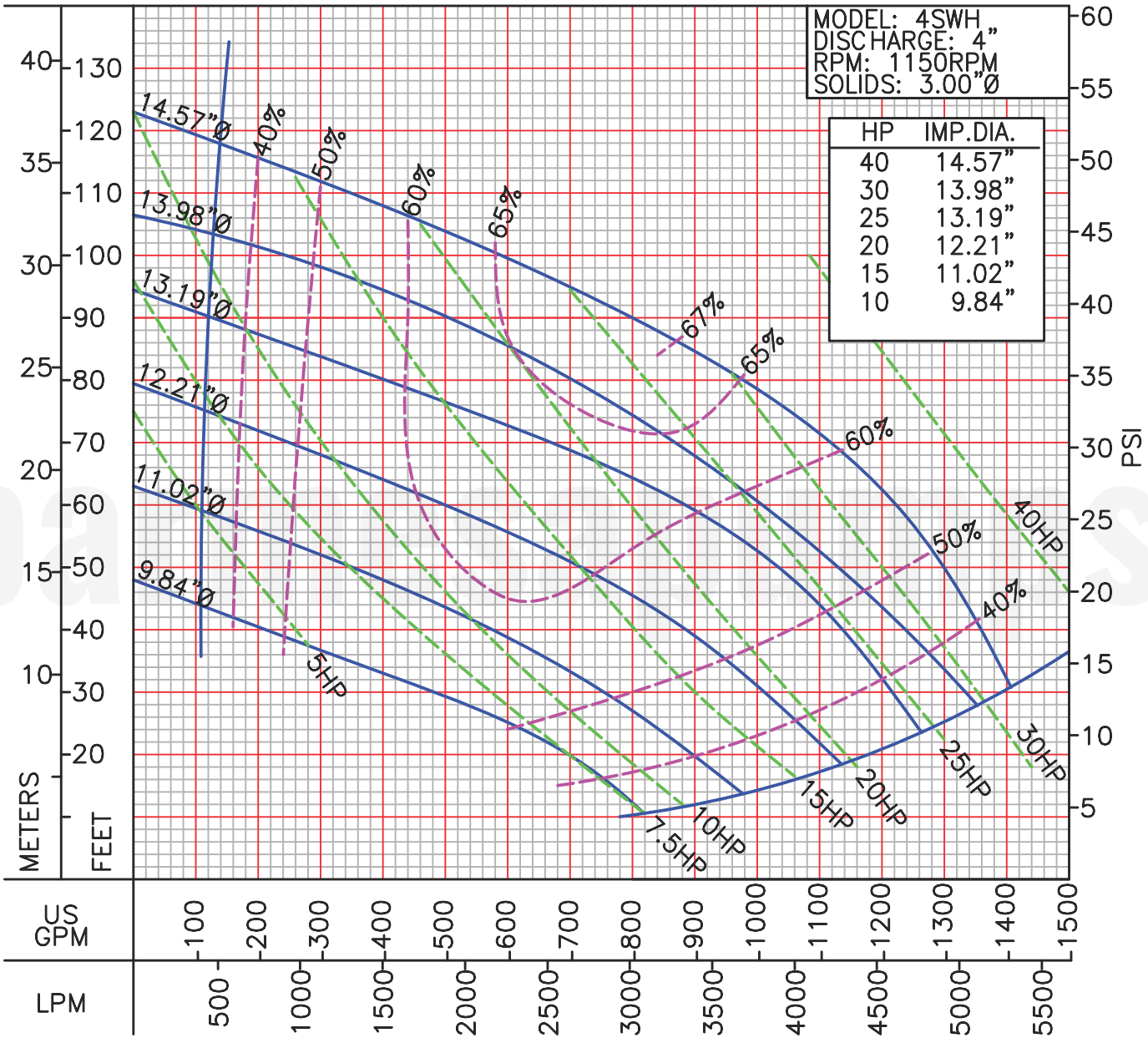


LIQUID: WATER
SPECIFIC GRAVITY: 1.00

TEMPERATURE: 70 °F (21 °C)
MAXIMUM DIA. SOLIDS: 3.00"Ø

PERFORMANCE CURVES

SERIES: **4SWH-DS**
RPM: 1150



LIQUID: WATER
SPECIFIC GRAVITY: 1.00

TEMPERATURE: 70° F (21° C)
MAXIMUM DIA. SOLIDS: 3.00"Ø