

MOTOR SPECIFICATIONS

Motor Design	Induction
Motor Type	Enclosed submersible
Insulation Class	Class B
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	120° C ± 5° C
Service Factor	1.15
Voltage Tolerance	± 10% from nominal


MOTOR DATA, 60Hz

Model	Phase	Output Power BHP	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Power Factor 100% Load	Motor Efficiency 100% Load	Pole/Speed (rpm)
SG-150	1	1.5	208	8.6	43	G	0.980	0.600	2/3450
	1	1.5	230	7.8	39	G	0.966	0.600	2/3450
	3	1.5	208	6.6	33	J	0.934	0.771	2/3450
	3	1.5	230	6	30	J	0.916	0.771	2/3450
	3	1.5	460	3	15	J	0.905	0.821	2/3450
	3	1.5	575	2.4	12	J	0.894	0.833	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	FC-20 Cast Iron
Motor Housing	FC-20 Cast Iron
Volute	FC-20 Cast Iron
External Hardware	AISI 304 Stainless Steel
O-Rings	NBR
Motor Shaft	Stainless Steel-410
Upper Bearing	Double row sealed
Lower Bearing(s)	Double row sealed
Upper Shaft Seal	Carbon/Ceramic
Lower Shaft Seal	SiC/SiC
Impeller	FC-20 Cast Iron

DIMENSIONS, WEIGHT, AND MISC.

Pump weight single phase	66lbs (30kg)
Pump weight three phase	66lbs (30kg)
Maximum submergence	33 feet (10m)
Discharge size, standard	1.25 inch NPS female horizontal
Maximum temp. of pumped fluid	104°F (40°C)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SG-150	1Ø 208V	SJTOW 14/3	33' (10m)	PVC
	1Ø 230V	SJTOW 14/3	33' (10m)	PVC
	3Ø 208V	STOW 14/4	33' (10m)	PVC
	3Ø 230V	STOW 14/4	33' (10m)	PVC
	3Ø 460V	STOW 16/4	33' (10m)	PVC
	3Ø 575V	STOW 16/4	33' (10m)	PVC

Power cable suitable for all standard voltages listed in "MOTOR DATA" section.
 Document valid only for pump with serial number 1327-001 and up.
 Refer to previous document revision for earlier serial number.

Specifications subject to change without notice



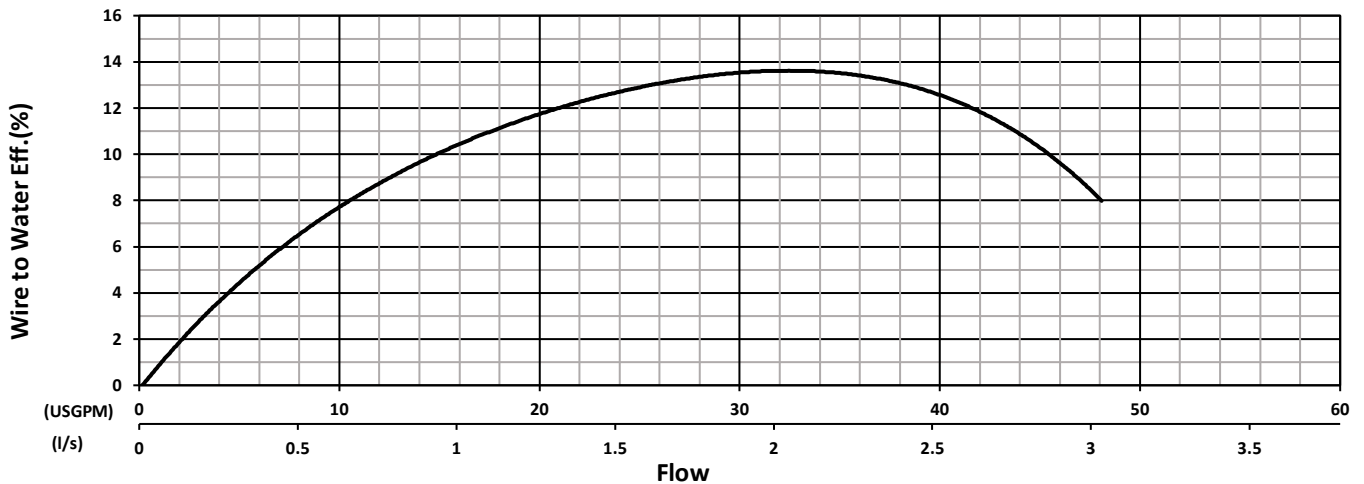
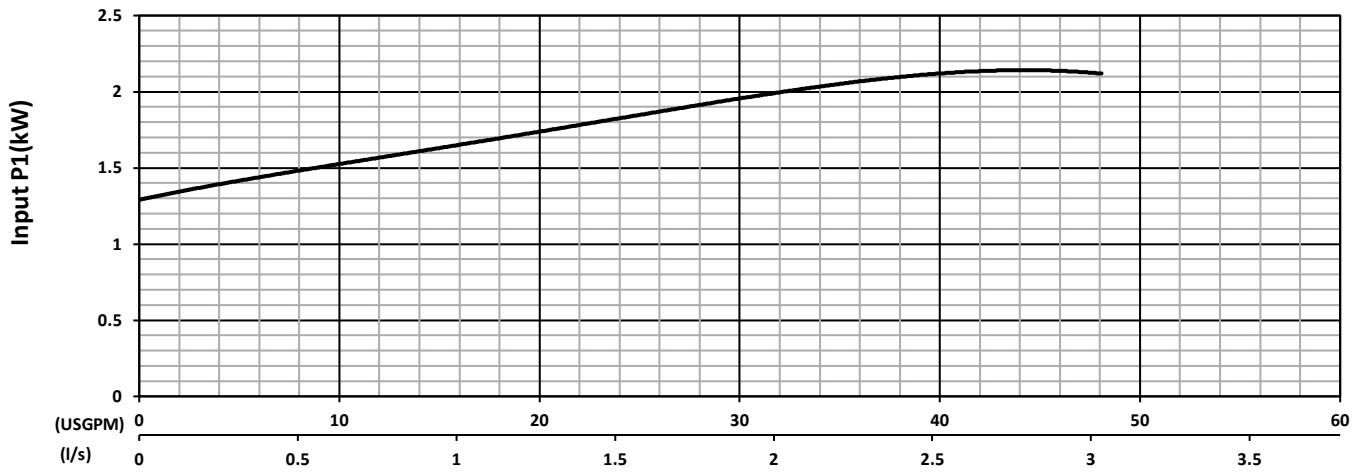
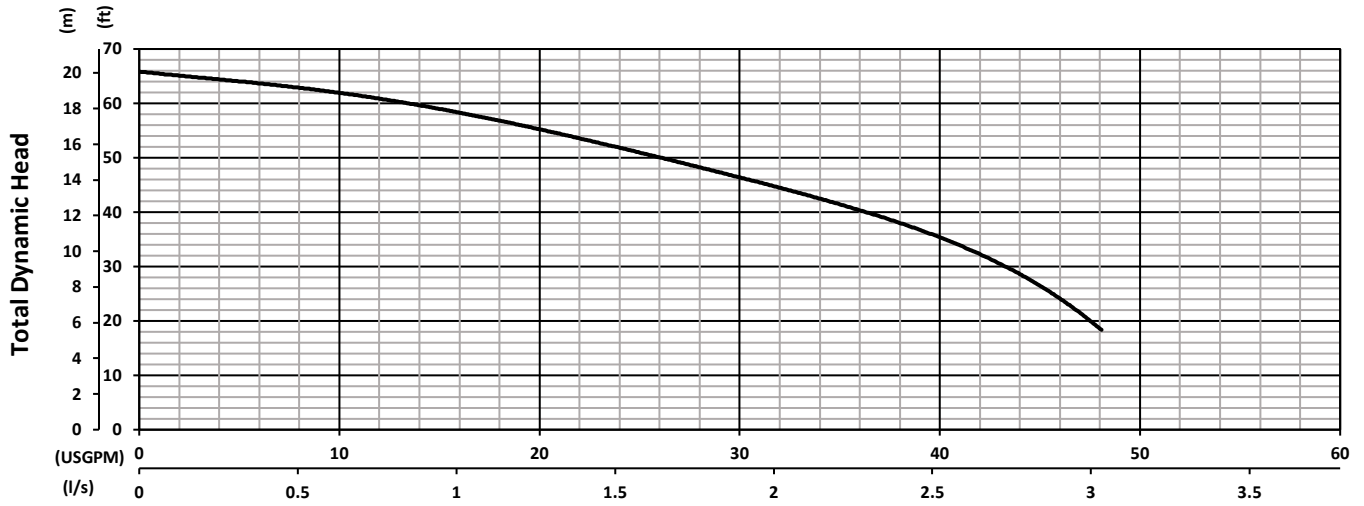
PERFORMANCE CURVE

Avenger Series SG-150

Dwg: DS-A10-026

Rev: 1

Date: 12/4/2017



Test Standard : HI 11.6 Gr 3B
 Tested with water at 20°C

Pump Performance Test - Dual Units

Frequency 60 Hz
 Pump Speed 3450 RPM
 Impeller Ø107mm

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