

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)
SV-40	1	0.4	115	5.2	26	J	0.947	0.600	2/3450
	1	0.4	208	2.9	14.5	J	0.944	0.600	2/3450
	1	0.4	230	2.6	13	J	0.945	0.600	2/3450
	3	0.4	208	2.2	11	L	0.848	0.663	2/3450
	3	0.4	230	2	10	L	0.808	0.677	2/3450
	3	0.4	460	1	5	L	0.805	0.693	2/3450
	3	0.4	575	0.8	4	L	0.835	0.686	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	Nylon 66
Motor Housing	AISI 304 Stainless Steel
Oil Chamber	FC-20 Cast Iron
Volute	FC-20 Cast Iron
External Hardware	AISI 304 Stainless Steel
O-Rings	Nitrile (Buna N)
Motor Shaft	Stainless Steel (410)
Upper Bearing	Single row, doubled sealed
Lower Bearing(s)	Single row, doubled sealed
Upper Shaft Seal	CA/CE (carbon/ceramic)
Lower Shaft Seal	SIC/SIC (silicon carbide/silicon carbide)
Impeller	FC-20 Cast Iron

DIMENSIONS, WEIGHT, AND MISC.

Pump weight single phase	26lbs (12kg)
Pump weight three phase	26lbs (12kg)
Maximum submergence	33 feet (10m)
Discharge size, standard	2-inch NPS female vertical
Maximum temp. of pumped fluid	104°F (40°C)
Free Passage	1.38" (35mm)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SV-40	1Ø-115V	SJTOW 16/3	16 feet (5m)	PVC
	1Ø-208V	SJTOW 16/3	16 feet (5m)	PVC
	1Ø-230V	SJTOW 16/3	16 feet (5m)	PVC
	3Ø-208V	STOW 16/4	16 feet (5m)	PVC
	3Ø-230V	STOW 16/4	16 feet (5m)	PVC
	3Ø-460V	STOW 16/4	16 feet (5m)	PVC
	3Ø-575V	STOW 16/4	16 feet (5m)	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

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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)
SE-40	1	0.4	115	5.2	26	J	0.943	0.600	2/3450
	1	0.4	208	2.9	14.5	J	0.943	0.600	2/3450
	1	0.4	230	2.6	13	J	0.937	0.600	2/3450
	3	0.4	208	2.2	11	L	0.856	0.674	2/3450
	3	0.4	230	2	10	L	0.803	0.676	2/3450
	3	0.4	460	1	5	L	0.801	0.692	2/3450
	3	0.4	575	0.8	4	L	0.832	0.684	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	Nylon 66
Motor Housing	AISI 304 Stainless Steel
Oil Chamber	FC-20 Cast Iron
Volute	FC-20 Cast Iron
External Hardware	AISI 304 Stainless Steel
O-Rings	Nitrile (Buna N)
Motor Shaft	Stainless Steel (410)
Upper Bearing	Single row Sealed
Lower Bearing(s)	Single row Sealed
Upper Shaft Seal	CA/CE (carbon/ceramic)
Lower Shaft Seal	SIC/SIC (silicon carbide/silicon carbide)
Impeller	FC-20 Cast Iron

DIMENSIONS, WEIGHT, AND MISC.

Pump weight single phase	24lbs (11kg)
Pump weight three phase	24lbs (11kg)
Maximum submergence	30 feet (9m)
Discharge size, standard	2-inch NPS female vertical
Maximum temp. of pumped fluid	104°F (40°C)
Free Passage size	1.38" (35mm)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SE-40	1Ø-115V	SJTOW 16/3	16'(5m)	PVC
	1Ø-208V	SJTOW 16/3	16'(5m)	PVC
	1Ø-230V	SJTOW 16/3	16'(5m)	PVC
	3Ø-208V	STOW 16/4	16'(5m)	PVC
	3Ø-230V	STOW 16/4	16'(5m)	PVC
	3Ø-460V	STOW 16/4	16'(5m)	PVC
	3Ø-575V	STOW 16/4	16'(5m)	PVC

Power cable suitable for all standard voltages listed in "MOTOR DATA" section.
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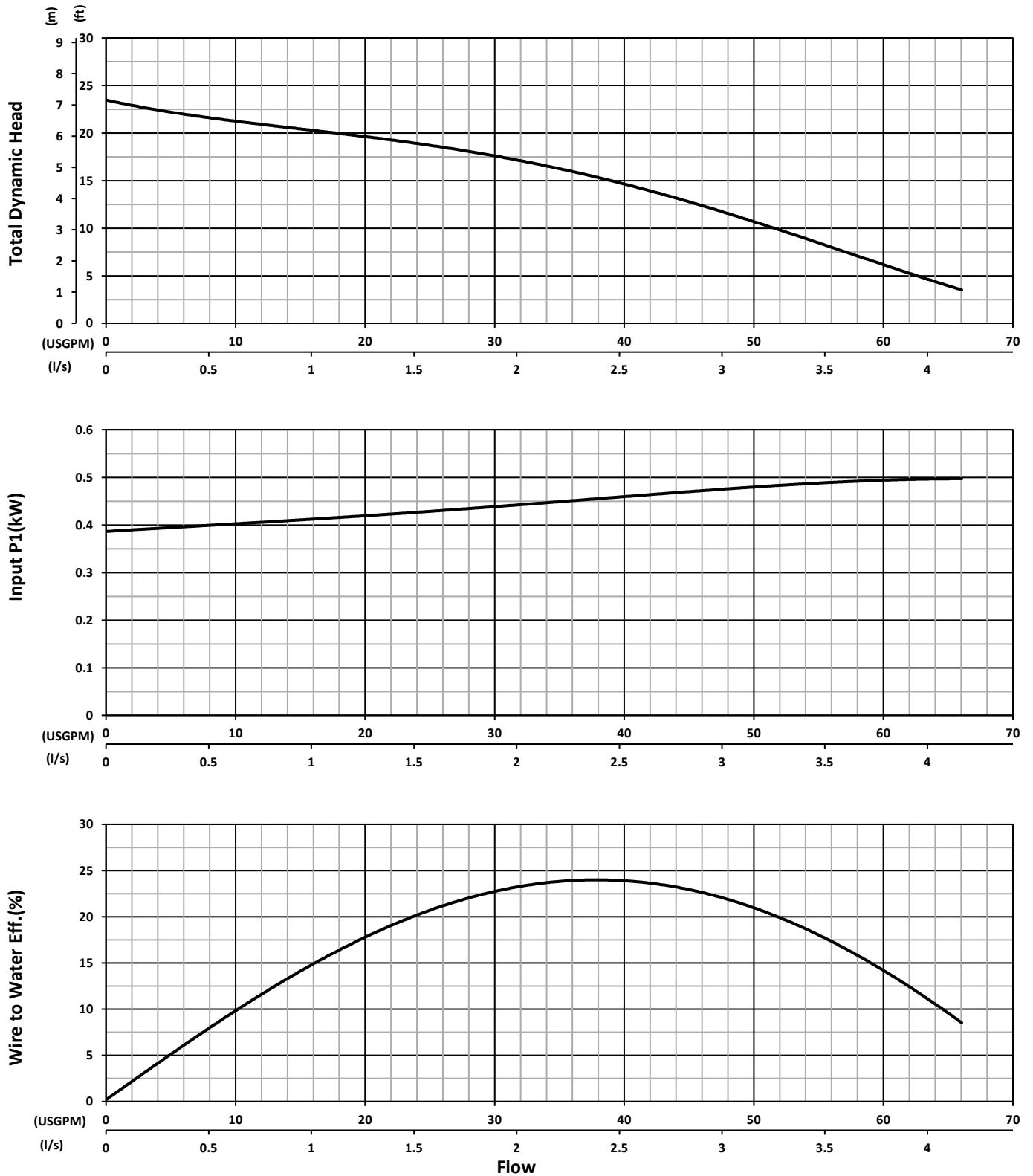
PERFORMANCE CURVE

Avenger Series SV-40

Dwg: DS-A04-003

Rev: 4

Date: 12/1/2017



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

Pump Performance Test - Dual Units

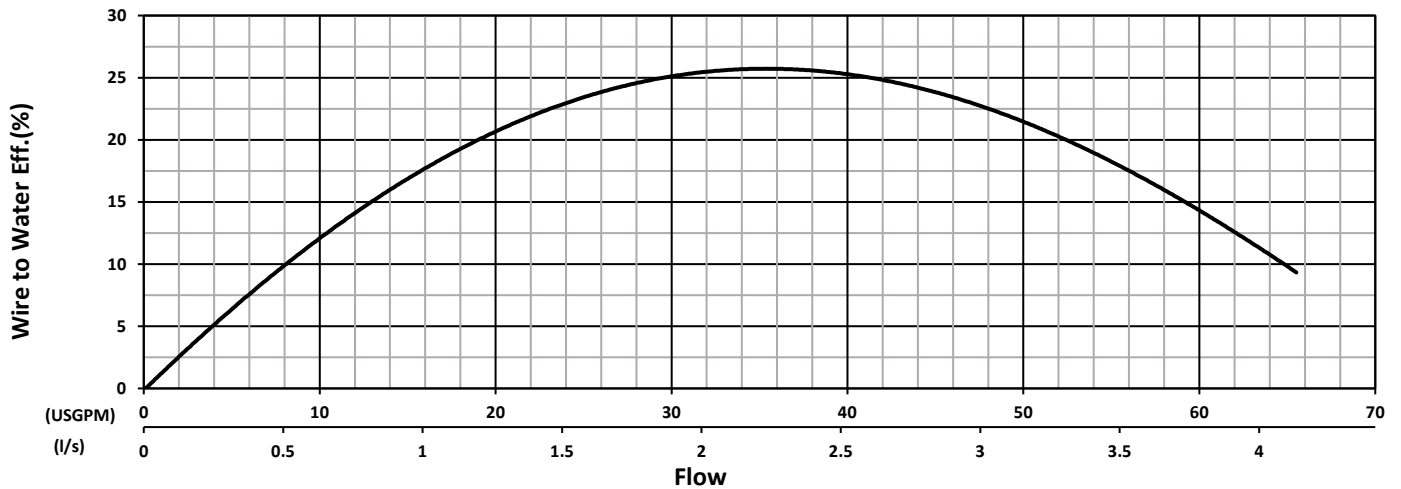
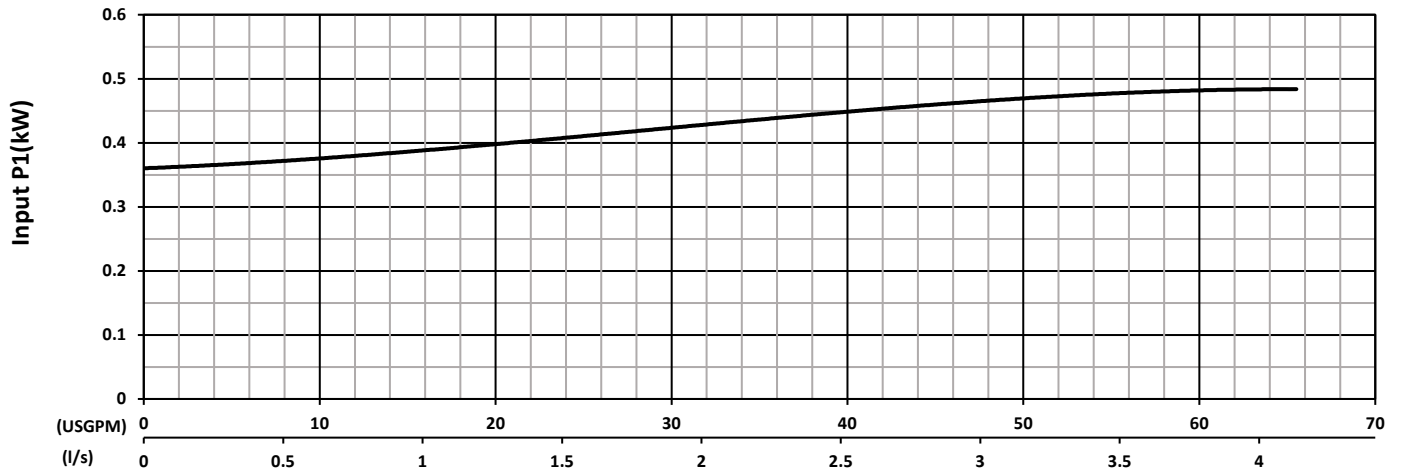
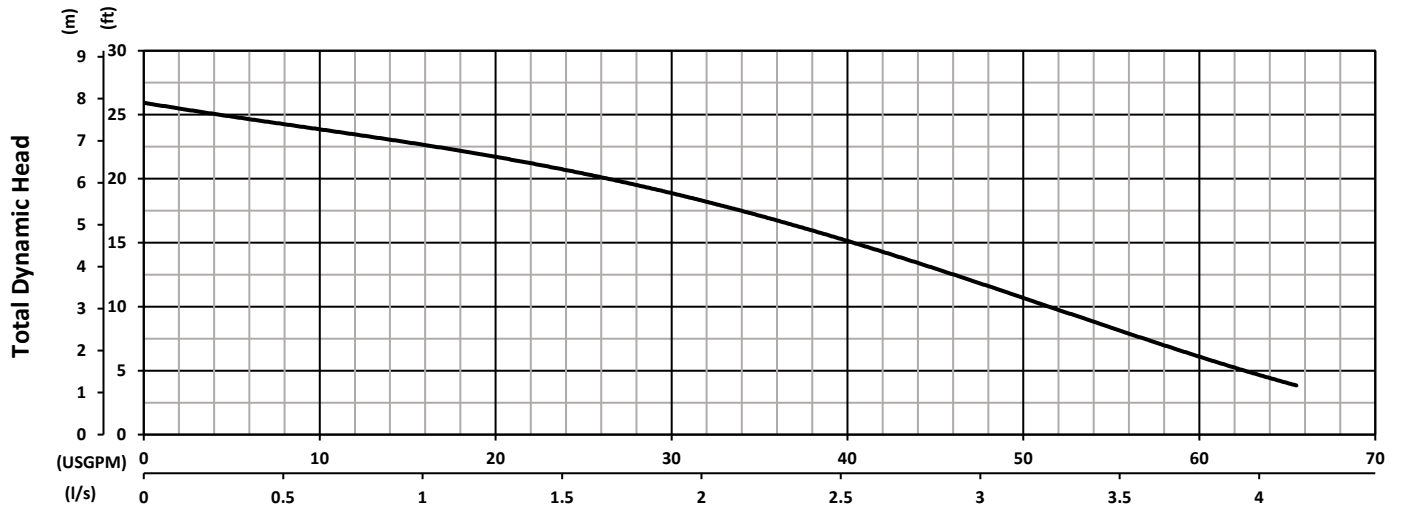
Frequency 60 Hz
Pump Speed 3450 RPM
Impeller Ø74mm

Specifications subject to change without notice

Dwg: DS-A09-003

Rev: 3

Date: 12/1/2017



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 ø74mm

Specifications subject to change without notice