

**TECHNICAL DATA****AVENGER SERIES****SV-100**

STANCOR

Dwg: DS-A04-009 Rev: 2 Date: 01/16

MOTOR SPECIFICATIONS

Motor Design	Induction
Motor Type	Enclosed submersible
Insulation Class	Class E
Motor Protection	Bi-metallic Thermal Switch
Bi-Metallic Temp Trip	120° C ± 5° C
Service Factor	1.3
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-100	1	1.0	115	12	60	H	0.99	0.71	2/3450
	1	1.0	230	6	30	H	0.99	0.60	2/3450
	3	1.0	230	3	15	G	0.87	0.74	2/3450
	3	1.0	460	1.5	9	J	0.83	0.75	2/3450
	3	1.0	575	1.2	6	G	0.80	0.76	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	FC-20 Cast Iron
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/NBR (carbon/ceramic)
Lower Shaft Seal	SIC/SIC (silicon carbide/silicon carbide)
Impeller	FC-20 Cast Iron

DIMENSIONS, WEIGHT, AND MISC.

Pump weight single phase	40lbs (18.1kg)
Pump weight three phase	40lbs (18.1kg)
Maximum submergence	30 feet (9m)
Discharge size, standard	2 inch NPT female vertical
Maximum temp. of pumped fluid	104°F (40°C)

CABLE SPECIFICATIONS

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SV-100	1Ø-115V	SJTOW 14/3	33 feet (10m)	NBR
	1Ø-230V	SJTOW 16/3	33 feet (10m)	NBR
	3Ø-230V	STOW 16/4	33 feet (10m)	NBR
	3Ø-460V	STOW 16/4	33 feet (10m)	NBR
	3Ø-575V	STOW 16/4	33 feet (10m)	NBR

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

Specifications subject to change without notice