

**TECHNICAL DATA****AVENGER SERIES****SS-100**

STANCOR

Dwg: DS-A07-006 Rev: 3 Date: 03/16

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	1.3
Voltage Tolerance	± 10% from nominal

**MOTOR DATA, 50Hz**

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)
SS-100	1	1.0	230	6	30	H	0.87	0.700	2/2850
	3	1.0	380	2.2	11	J	0.74	0.730	2/2850
	3	1.0	400	2.2	11	J	0.69	0.730	2/2850
	3	1.0	415	2.2	11	J	0.64	0.740	2/2850

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)
SS-100	1	1.0	115	12	60	H	0.97	0.695	2/3450
	1	1.0	230	6	25	G	0.97	0.699	2/3450
	3	1.0	230	3	15	G	0.80	0.728	2/3450
	3	1.0	460	1.5	10	J	0.66	0.670	2/3450
	3	1.0	575	1.2	8	J	0.68	0.726	2/3450

MATERIALS OF CONSTRUCTION

Upper Motor Lid	AISI Stainless Steel 316
Motor Housing	AISI Stainless Steel 316
Oil Chamber	AISI Stainless Steel 316
Volute	AISI Stainless Steel 316
External Hardware	AISI 304 Stainless Steel
O-Rings	FKM
Motor Shaft	AISI Stainless Steel 316 (in pumped media)
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	AISI Stainless Steel 316

DIMENSIONS, WEIGHT, AND MISC.

Pump weight single phase	40lbs (18kg)
Pump weight three phase	40lbs (18kg)
Maximum submergence	33 feet (10m)
Discharge size, standard	2 inch NPT female vertical
Maximum temp. of pumped fluid	104°F (40°C)

CABLE SPECIFICATIONS 50HZ

MODEL	PHASE/VOLTAGE	POWER CABLE	LENGTH	OUTER JACKET
SS-100	1Ø-230V	H07 3G1.0	33 feet (10m)	Viton
	3Ø-380V	H07 4G1.0	33 feet (10m)	Viton
	3Ø-400V	H07 4G1.0	33 feet (10m)	Viton
	3Ø-415V	H07 4G1.0	33 feet (10m)	Viton

Specifications subject to change without notice

CABLE SPECIFICATIONS 60HZ

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

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