

TECHNICAL DATA**PIRANHA****S20/2W, S20/2**

Dwg. DS-P01-019 Rev: B Date: 12/06

Section Piranha Tab "S" Series Page

STANDARD & EXPLOSION PROOF**MOTOR SPECIFICATIONS**

Motor Design	NEMA design B, squirrel cage induction, air filled
Motor Type	Enclosed submersible
Insulation Class	Class F, rated at 279° F (155° C)
Motor Protection	Oil Chamber Moisture Detector, bimetallic switches embedded in each phase for thermal overload protection. Installer must conform to N.E.C. standards, 1990 Ed. Art. 430.
Bimetallic Temp Trip	234° F ± 9° (130° C ± 5° C)
Service Factor	1.0
Voltage Tolerance	± 10% from nominal
Approvals	UL, CSA (FM available as option)

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)
S20/2W*	1	2.0	208	11.9	32.5	A	0.99	73.1	2/3450
S20/2W*	1	2.0	230	10.8	29.4	A	0.99	73.1	2/3450
S20/2	3	2.0	208	8.0	42.6	G	0.84	74.5	2/3450
S20/2	3	2.0	230	7.2	38.5	G	0.84	74.5	2/3450
S20/2	3	2.0	460	3.6	19.2	G	0.84	74.5	2/3450
S20/2	3	2.0	575	2.9	15.4	G	0.84	74.5	2/3450

*Requires external start kit mounted in the control panel

MATERIALS of CONSTRUCTION

Motor Housing	Cast Iron ASTM A48 Class 30
Cable Cap	Cast Iron ASTM A48 Class 30
Volute	Cast Iron ASTM A48 Class 30
Oil Chamber	Cast Iron ASTM A48 Class 30
External Hardware	AISI 304 Stainless Steel
O-Rings	Buna-N
Motor Shaft	AISI 420 Stainless Steel
Cutter Disc Assembly	Chrome Molybdenum Cobalt Tool Steel 58-62 Rockwell "C"
Upper Bearing	Single row ball bearing.
Lower Bearing(s)	Single row ball bearing.
Upper Shaft Seal	Buna N Lip Seal
Lower Shaft Seal	Silicon Carbide
Impeller	Cast Iron, Open Multi-vane

DIMENSIONS, WEIGHT, AND MISC.

Pump weight (lb.)	81
Pump weight (lb.) (explosion proof)	82
Maximum submergence (feet)	33
Discharge size, standard	1¼ Inch
Discharge thread type	Female NPT
Maximum temp. of pumped fluid	72° F (40° C)

CABLE SPECIFICATIONS

MODEL	POWER CABLE Quantity, Type	LENGTH, Feet
S20/2W	14/7 Type SOW-A	32
S20/2D	14/7 Type SOW-A	32

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