

**TECHNICAL DATA****PIRANHA****S30/2D**

Dwg. DS-P01-016 Rev: E Date: 01/07

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**STANDARD & EXPLOSION PROOF****MOTOR SPECIFICATIONS**

<b>Motor Design</b>	NEMA design B, squirrel cage induction, air filled
<b>Motor Type</b>	Enclosed submersible
<b>Insulation Class</b>	Class F, rated at 279° F (155° C)
<b>Motor Protection</b>	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.
<b>Bimetallic Temp Trip</b>	234° F ± 9° (130° C ± 5° C)
<b>Service Factor</b>	1.0
<b>Voltage Tolerance</b>	± 10% from nominal
<b>Approvals</b>	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)
S30/2	3	4.0	208	12.1	80.4	J	0.88	77.6	2/3450
S30/2	3	4.0	230	11.0	72.6	J	0.88	77.6	2/3450
S30/2	3	4.0	460	5.5	36.3	J	0.88	77.6	2/3450
S30/2	3	4.0	575	4.4	29.0	J	0.88	77.6	2/3450

\*Requires external start kit mounted in the control panel

**MATERIALS of CONSTRUCTION**

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

**DIMENSIONS, WEIGHT, AND MISC.**

<b>Pump weight (lb.)</b>	88
<b>Pump weight (lb.) (explosion proof)</b>	89
<b>Maximum submergence (feet)</b>	33
<b>Discharge size, standard</b>	1¼ Inch
<b>Discharge thread type</b>	Female NPT
<b>Maximum temp. of pumped fluid</b>	72° F (40° C)

**CABLE SPECIFICATIONS**

MODEL	POWER CABLE Quantity, Type	LENGTH, Feet
S30/2D	14/7 Type SOW-A	32

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