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°F (130°C ± 5°C)

Service Factor
1.0

Voltage Tolerance
± 10% from nominal

Approvals
UL, CSA (FM available as option)

MOTOR DATA, 60Hz

<table>
<thead>
<tr>
<th>Model</th>
<th>Phase</th>
<th>Output Power bhp</th>
<th>Volts</th>
<th>Full Load Amps</th>
<th>Locked Rotor Amps</th>
<th>NEMA Code Letter</th>
<th>Power Factor 100% Load</th>
<th>Motor Efficiency 100% Load</th>
<th>Pole/Speed (rpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S20/2W*</td>
<td>1</td>
<td>2.0</td>
<td>208</td>
<td>11.9</td>
<td>32.5</td>
<td>A</td>
<td>0.99</td>
<td>73.1</td>
<td>2/3450</td>
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<tr>
<td>S20/2W*</td>
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<td>230</td>
<td>10.8</td>
<td>29.4</td>
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<td>G</td>
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<td>74.5</td>
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<tr>
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<td>7.2</td>
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<td>G</td>
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<td>G</td>
<td>0.84</td>
<td>74.5</td>
<td>2/3450</td>
</tr>
</tbody>
</table>

*Motor shafts are 4130 seamless steel with 0.040” wall thickness.

*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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>POWER CABLE Quantity, Type</th>
<th>LENGTH, Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>S20/2W</td>
<td>14/7 Type SOW-A</td>
<td>32</td>
</tr>
<tr>
<td>S20/2D</td>
<td>14/7 Type SOW-A</td>
<td>32</td>
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</table>

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