**ABS submersible drainage pump J 604**

**Specification**

Electric submersible pump.
Maximum submergence: 65 ft. • Protection class IP 68.
Max temperature of pumped medium at max power input and continuous duty 104°F.
Max medium density 0.0397 Lbs/inch³.
pH of the pumped medium 5-8.
Strainer hole 1/2" x 2 3/8". • Max number of starts 30/hour.

**J 604 ND Medium head, 3-phase.**
**J 604 HD High head, 3-phase.**

**Electric Motor**
3-phase squirrel-cage induction motor, 60 Hz.
Service factor 1.1. Class F insulation.
Motor rating $P_2$: 94.0 Hp. Speed: 1732 rpm

<table>
<thead>
<tr>
<th>Voltage, V</th>
<th>230</th>
<th>460</th>
<th>575</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal current, A</td>
<td>226.0</td>
<td>113.0</td>
<td>91.0</td>
</tr>
</tbody>
</table>

**Starting method**
D.O.L. start with built-in terminal block.
When used with VFD, pump must be equipped with terminal block instead of contactor.

**Power Cable**
Heavy duty power cable for submersible pump applications
100 ft 2 x AWG 2/3 GGC (UL, CSA, MSHA), 230 V
100 ft 1 x AWG 2/3 GGC (UL, CSA, MSHA), 460-575 V
Control cable: 100 ft 1 x AWG 16/7 SOOW (UL, CSA, MSHA).

**Motor Protection**
Built-in thermal switches in the stator windings [284°F, ±5].
DI leakage sensor in the junction box, DI leakage sensor in the oil chamber, thermal sensors at upper and lower bearing all connected to a separate starter and control unit.

**Shaft Seal**
Double mechanical seal in oil bath.
Primary seal: Silicon carbide on silicon carbide.
Secondary seal: Carbon on stainless steel.

**Bearings**
Upper bearing: Single-row deep groove ball bearing.
Lower bearing: Double angular contact ball bearing.

**Discharge Connections**
6", 8", 10" hose connections.
6" (standard HD), 8", 10" (standard ND) NPT threaded connections.

**Weight (without cable)**
1157 lb

**Options and Accessories**
Zinc anodes • Surface protection coating
Wear plate in polyurethane • Series connection (HD)
Starter and control units • Automatic level control unit
Floatation system • Repair kit
Discharge connection accessories and hose

**Materials**

<table>
<thead>
<tr>
<th>Casing and castings</th>
<th>Aluminium</th>
<th>ASTM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strainer and fasteners</td>
<td>Stainless steel</td>
<td>AISI 304</td>
</tr>
<tr>
<td>Shaft</td>
<td>Stainless steel</td>
<td>AISI 420</td>
</tr>
<tr>
<td>Impeller</td>
<td>Hardened chrome steel</td>
<td>AISI 420</td>
</tr>
<tr>
<td>Wear parts / O-rings</td>
<td>Nitrile rubber</td>
<td></td>
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</tbody>
</table>