**Specification**

Electric submersible pump.
- Maximum submergence: 20 m. • Protection class IP 68.
- Max temperature of pumped medium at max power input and continuous duty 40°C.
- Max medium density 1100 kg/m³. • pH of the pumped medium 5-8.
- Strainer hole 12 x 60 mm. • 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, 50 Hz.
- Service factor 1.1. Class F insulation.
- Motor rating P: 56.0 kW. Speed: 1450 rpm

<table>
<thead>
<tr>
<th>Voltage, V</th>
<th>230</th>
<th>400</th>
<th>500</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal current, A</td>
<td>184</td>
<td>106</td>
<td>84</td>
<td>42</td>
</tr>
</tbody>
</table>

**Starting Method**
- D.O.L. start with built-in terminal block.
- Star-Delta start with built-in terminal block. When used with VFD, pump must be equipped with terminal block.

**Power Cable**
- 20 m type S1BN8-F (standard cable): 2x4x35 sq.mm.+A07RN-F 7x1.5 sq.mm. [230V star-delta start]
- 2x4x16 sq.mm.+A07RN-F 7x1.5 sq.mm. [400-500V star-delta start]
- 4x35 sq.mm.+A07RN-F 7x1.5 sq.mm. [400-500V D.O.L. start]

- 20 m type NSSHÖU.../3E (heavy duty cable): 3x10+3x10/3E+3x2.5 [3 control cables included] [1000V D.O.L.-start]
- 3x25+3x16/3E+3x2.5 [3 control cables included] [400V D.O.L.-start]

**Motor Protection**
- Built-in thermal switches in the stator winding (140°C, ±5).
- DI leakage sensor in the junction box, DI leakage sensor in the oil chamber, thermal sensors at upper (120°C) and lower (90°C) bearing 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” (standard HD), 8”, 10” (standard ND) hose connections.
- 6”, 8” B.S.P. threaded connections.

**Weight (without cable)**
- 525 kg

**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

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**Materials**

<table>
<thead>
<tr>
<th>Casing and castings</th>
<th>Aluminium</th>
<th>EN 1706: AC-43100</th>
<th>ASTM AISI10mg</th>
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</thead>
<tbody>
<tr>
<td>Strainer and fasteners</td>
<td>Stainless steel</td>
<td>10088:X5CrNi18-10 (1.4301)</td>
<td>AISI 304</td>
</tr>
<tr>
<td>Shaft</td>
<td>Stainless steel</td>
<td>10088:X20Cr13 (1.4021)</td>
<td>AISI 420</td>
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<tr>
<td>Impeller</td>
<td>Hardened chrome steel</td>
<td>10088:X30Cr13 (1.4028)</td>
<td>AISI 420</td>
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<tr>
<td>Wear parts / O-rings</td>
<td>Nitrile rubber</td>
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<td></td>
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</tbody>
</table>