**Specifications**
- End suction centrifugal pump with closed impeller
- Maximum working pressure: 10 bar
- Liquid temperature: -10 °C to +110 °C

**Materials**
- Pump casing: 316 Stainless Steel
- Impeller: 316 Stainless Steel
- Casing cover: 316 Stainless Steel
- Shaft: 316 Stainless Steel (wetted part)
- Motor bracket: Cast Iron
- Mechanical seal: SiC/SiC/Viton

**Motor Data**
- IEC standard 4 pole 50 Hz motors
- Normally fitted with WEG motors
- 3 Phase, TEFC, IP55 or above, Class F or above

**Range**
- 32 to 80 mm Ø discharge
- 0.25 to 7.5 kW - 3 Phase

**Supply**
- Available complete with motor or as a pump end kit without motor

**Options**
- Other motor brands, types, etc. on request

**Accessories**
- Companion flange kits.

This series of stainless steel pumps feature a unique one piece volute casing that is produced using an advanced computer controlled Plasma stamping system that ensures total quality control during manufacture. With the smooth surfaces of stamped stainless steel, this results in consistent high standard products, of superior quality and high efficiency. (Cast casing on 65-250 & 80 models)

The back pull-out construction permits the disassembly and overhaul of the impeller, mechanical seal and motor without removal of the suction or discharge piping, or pump casing.

The centre line discharge and foot support under the casing ensure maximum resistance to misalignment and distortion from pipe loads.

**Available as pump end kit** (without motor)

**Standard IEC motors used, allowing for special enclosure or specific brand motors to be fitted.**

- Over 35 model sizes
- 32 mm to 80 mm discharge
- 0.25 to 7.5 kW motor power
- Flows to 2200 lpm
- Heads to 23 metres
**Model Code**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3LS4 50 - 160 / 1.5 R</td>
<td>Reduced Diameter Impeller</td>
</tr>
<tr>
<td>Motor Size kW</td>
<td>Nominal Impeller Diameter mm</td>
</tr>
<tr>
<td>Discharge Size Ø mm</td>
<td>4 = 4 Pole speed</td>
</tr>
<tr>
<td>Model; 3LS with motor; 3LSF without motor (kit)</td>
<td></td>
</tr>
</tbody>
</table>

**Configuration**

3LS4 pumps use IEC standard motors. 3 phase WEG cast iron motors are generally fitted as standard, but specific brands, special enclosures, etc. can also be supplied. The requirements for frame size and mounting are in the dimension table. Note that B5 = Flange mount; B35 = Foot & Flange mount.

The style of motor support varies depending on model and motor size, as shown in the figures below and referred to in the dimension table.

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These models available on request

- Synchronous Speed: 1500 rpm
- Applicable standard of test: ISO 2458
- Water temp: 20 °C
- Class C

---

Fig 1  
Fig 1A  
Fig 2  
Fig 3
### Dimensions

- **Dimensions & weights refer to units fitted with high efficiency 3 Phase cast iron WEG W22 motors**

#### Motor details

<table>
<thead>
<tr>
<th>Motor details</th>
<th>Dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong>: 3LS4</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 32</strong>: 125/0.25</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 40</strong>: 125/0.25</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 50</strong>: 125/0.25</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 32</strong>: 125/0.37</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 40</strong>: 125/0.37</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
<tr>
<td><strong>DN 50</strong>: 125/0.37</td>
<td><strong>Frame</strong>: B5</td>
<td><strong>Mount</strong>: Fig 1</td>
</tr>
</tbody>
</table>

#### Pump Model

<table>
<thead>
<tr>
<th>DN2 x DN1</th>
<th>3LS4 32-125/0.25</th>
<th>3LS4 32-160/0.37</th>
<th>3LS4 32-200/0.55</th>
<th>3LS4 32-200/0.75</th>
<th>3LS4 40-125/0.37</th>
<th>3LS4 40-160/0.55</th>
<th>3LS4 40-200/1.1</th>
<th>3LS4 40-200/1.5</th>
<th>3LS4 50-125/0.55</th>
<th>3LS4 50-160/0.75</th>
<th>3LS4 50-160/1.1R</th>
<th>3LS4 50-200/1.5R</th>
<th>3LS4 50-200/2.2</th>
<th>3LS4 65-125/0.55</th>
<th>3LS4 65-125/0.75</th>
<th>3LS4 65-160/0.75</th>
<th>3LS4 65-160/1.1R</th>
<th>3LS4 65-200/2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 mm x 50 mm</td>
<td>0.969</td>
<td>0.969</td>
<td>1.24</td>
<td>1.59</td>
<td>0.969</td>
<td>1.24</td>
<td>2.31</td>
<td>3.19</td>
<td>1.24</td>
<td>1.59</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>1.59</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
</tr>
<tr>
<td>40 mm x 65 mm</td>
<td>0.969</td>
<td>0.969</td>
<td>1.24</td>
<td>2.31</td>
<td>0.969</td>
<td>1.24</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>1.59</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>1.59</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
</tr>
<tr>
<td>50 mm x 65 mm</td>
<td>1.24</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>2.31</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
<td>3.19</td>
<td>4.49</td>
<td>1.24</td>
</tr>
</tbody>
</table>

#### Specifications

- **Specifications subject to change without notice**

#### Flanges

- Flanges to DIN 2532

- DN 32, 40, 50, 65, 80, 100
- P 75, 80, 95, 115, 120, 135
- K 100, 110, 125, 145, 160, 180
- D 140, 150, 165, 185, 200, 225

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Support configuration varies. See previous page.

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Dimensions subject to change without notice.
Typical with stamped casing
(i.e. all 32, 40 & 50 mm & 65-125/160/200)

Typical with cast casing
(i.e. 65-250, & all 80)

---

**Table:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Suits models</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Casing</td>
<td>All 32, 40 &amp; 50; 65-125/160/200</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65-250; All 80</td>
<td>316 Stainless Steel - precision cast</td>
</tr>
<tr>
<td>7</td>
<td>Impeller</td>
<td>All 32, 40 &amp; 50</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All 65 &amp; 80</td>
<td>316 Stainless Steel - precision cast</td>
</tr>
<tr>
<td>4</td>
<td>Casing cover</td>
<td>32, 40 &amp; 50; 65-125/160/200; 80-160</td>
<td>316L Stainless Steel - stamped</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65-250; 80-200/250</td>
<td>316 Stainless Steel - precision cast</td>
</tr>
<tr>
<td>26</td>
<td>O-Ring (casing)</td>
<td>All models</td>
<td>Viton</td>
</tr>
<tr>
<td>11</td>
<td>Mechanical seal</td>
<td>All models</td>
<td>SiC/SiC/Viton with anti rotation device for stationary seat.</td>
</tr>
<tr>
<td>6</td>
<td>Stub shaft</td>
<td>All models</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

(Material refers to part in contact with liquid)

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IEC Standard Motor

Note: Mounting and support feet varies between models.

Specifications subject to change without notice.

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**EBARA PUMPS AUSTRALIA PTY. LTD.**

**Data Sheet**

**3LS4 13-03**