**Submersible Axial Flow Pumps
SSP-GS series**

Installation can be done by merely lowering the pump into a discharge column

**Special Features:**
- It is easy to install the pump into a discharge column where the force of gravity and the pumping pressure keeps it seated firmly.
- Since it is a submersible type, no priming water is necessary. It is an advantage in emergency or automatic operation.
- It saves the work time for maintenance and inspection as removal and reinstallation can be quickly performed.
- The pump takes less aboveground space than end-suction centrifugal pumps, which reduces the construction and facility cost.
- It is possible to select the best installation method from among several types of discharge columns: steel pipe, cast iron pipe, and concrete casing, etc.
- It is compact but exhibits high efficiency and performance.
- The pumps are available with the discharge diameter ranging from 300mm to 1500mm.

**Applications:**
- Pumping wastewater and stormwater in sewerage system
- Land drainage and irrigation
- Emergency floodwater drainage
- Draining or transferring large volumes of water

**Major Components & Specifications:**

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| Pump Structure    |      |     |     |     |     |     |     |      |      |      |      |
| Impeller          |      |     |     |     |     |     |     |      |      |      |      |
| Shaft Seal        |      |     |     |     |     |     |     |      |      |      |      |
| Bearing           |      |     |     |     |     |     |     |      |      |      |      |

| Pump Materials    |      |     |     |     |     |     |     |      |      |      |      |
| Impeller          |      |     |     |     |     |     |     |      |      |      |      |
| Guide Casing      |      |     |     |     |     |     |     |      |      |      |      |
| Suction Casing    |      |     |     |     |     |     |     |      |      |      |      |
| Shaft Seal        |      |     |     |     |     |     |     |      |      |      |      |

| Motor Type        |      |     |     |     |     |     |     |      |      |      |      |
| Type              |      |     |     |     |     |     |     |      |      |      |      |
| Dry Type          |      |     |     |     |     |     |     |      |      |      |      |
| Submersible motor |      |     |     |     |     |     |     |      |      |      |      |

| Motor Insulation  |      |     |     |     |     |     |     |      |      |      |      |
| Class E           |      |     |     |     |     |     |     |      |      |      |      |
| Class F           |      |     |     |     |     |     |     |      |      |      |      |

| Motor Phase       |      |     |     |     |     |     |     |      |      |      |      |
| Three-Phase       |      |     |     |     |     |     |     |      |      |      |      |

| Motor Built-in Protection Devices |      |     |     |     |     |     |     |      |      |      |      |
| Circle Thermal Protector (7.5kW and below) |      |     |     |     |     |     |     |      |      |      |      |
| Miniature Protector (11kW and over)       |      |     |     |     |     |     |     |      |      |      |      |
| Leakage Sensor (22kW and over)            |      |     |     |     |     |     |     |      |      |      |      |

| Motor Lubricant   |      |     |     |     |     |     |     |      |      |      |      |
| Turbine Oil ISO VG32 |      |     |     |     |     |     |     |      |      |      |      |

| Motor Materials   |      |     |     |     |     |     |     |      |      |      |      |
| Motor Frame       |      |     |     |     |     |     |     |      |      |      |      |
| Gray Cast Iron    |      |     |     |     |     |     |     |      |      |      |      |
| Shaft             |      |     |     |     |     |     |     |      |      |      |      |
| 420 Stainless Steel |      |     |     |     |     |     |     |      |      |      |      |
| Cable             |      |     |     |     |     |     |     |      |      |      |      |
| Chloroprene Rubber or Polychloroprene Rubber Sheathed |      |     |     |     |     |     |     |      |      |      |      |

**Installation Examples:**

- Top Discharge Arrangement
- Side Discharge Arrangement
- Concrete Casing
Performance Curves:

50Hz

60Hz
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**Note:**

The symbols A and B in the specifications show the dimensions indicated in the right-hand figure.
### Submersible Axial Flow Pumps

#### Specifications:

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<th>No. of Poles</th>
<th>Speed (mm)</th>
<th>A (mm)</th>
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<td>110 x 16</td>
<td>SS 4503600</td>
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</tbody>
</table>

G: with Gears  SS: Synchronous Speed

The manufacturer reserves the right to change the specifications without notice.

TSURUMI MANUFACTURING CO., LTD.