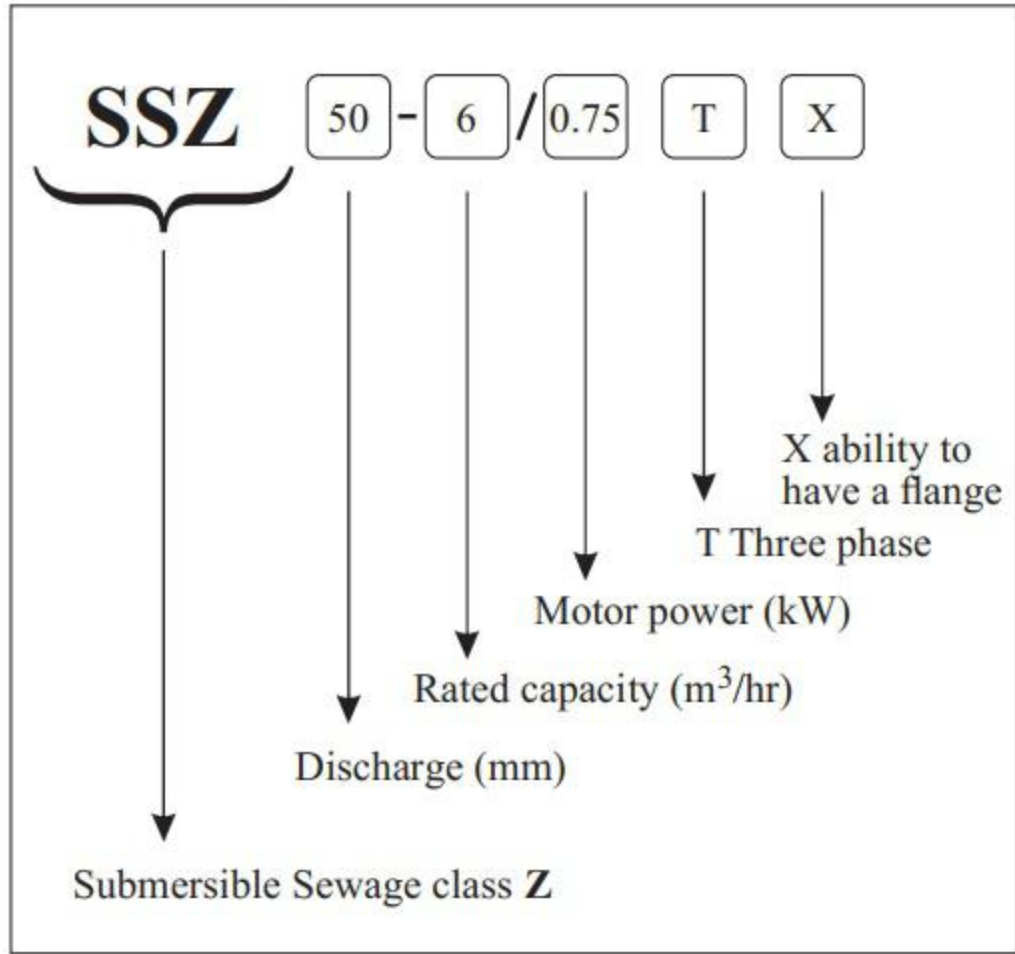
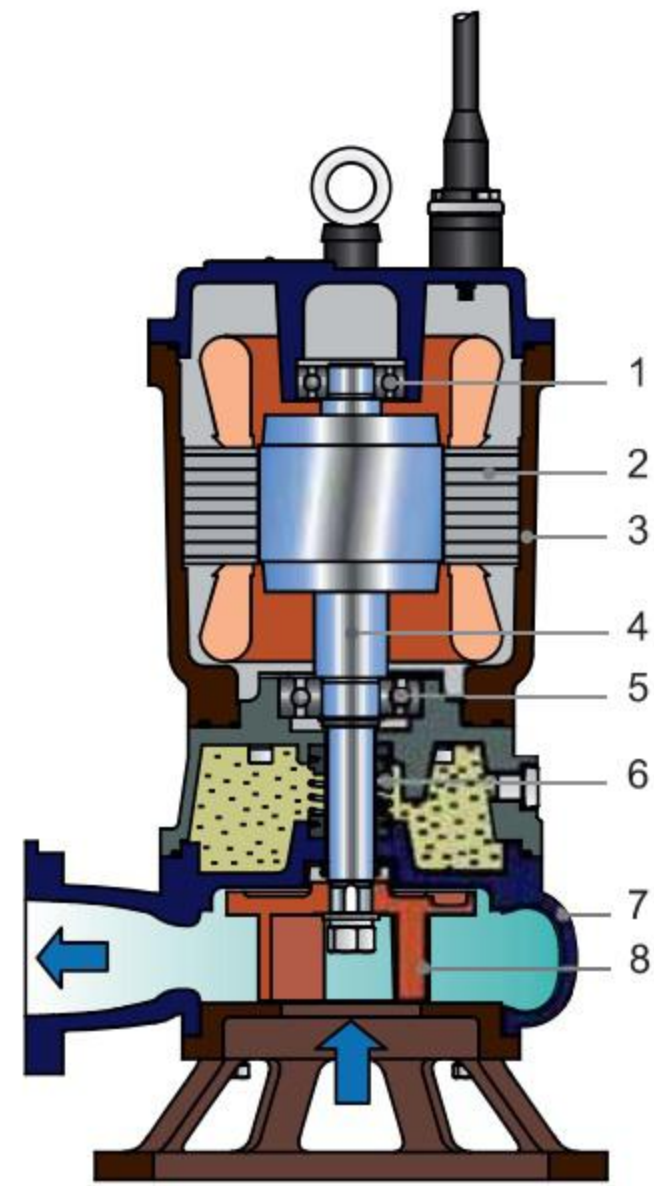


Nomenclature



## Pump schematic & Components

|   |                 |
|---|-----------------|
| 1 | Upper Bearing   |
| 2 | Motor           |
| 3 | Motor casing    |
| 4 | Motor shaft     |
| 5 | Lower Bearing   |
| 6 | Mechanical Seal |
| 7 | Pump Casing     |
| 8 | Impeller        |



|                                         |                 |
|-----------------------------------------|-----------------|
| <b>Submersible Pumps</b>                | <b>S Series</b> |
| <b>Specification: SSZ (Sewage Pump)</b> | <b>50 Hz</b>    |

| <b>SSZ</b>          |                       |                              |                                                      |               |
|---------------------|-----------------------|------------------------------|------------------------------------------------------|---------------|
| <b>PUMP</b>         | <b>Liquid Handled</b> | <b>Type of Liquid</b>        | Sewage                                               |               |
|                     |                       | <b>Max. Temp. ( °C)</b>      | 40 <sup>o</sup>                                      |               |
|                     |                       | <b>Max. Solids Size (mm)</b> | 20 or 30 (depends on the model)                      |               |
|                     |                       | <b>Max. density (kg/m3)</b>  | 1200                                                 |               |
|                     |                       | <b>pH Level</b>              | 4 - 10                                               |               |
|                     | <b>Construction</b>   | <b>Impeller</b>              | Semi-open single channel with cutting action         |               |
|                     |                       | <b>Shaft seal type</b>       | Oil lubricated, single spring double mechanical seal |               |
|                     | <b>Connection</b>     | <b>Discharge (mm)</b>        | DN 50, 80, 100                                       |               |
|                     | <b>Material</b>       | <b>Casing</b>                | Cast Iron                                            |               |
|                     |                       | <b>Impeller</b>              | Cast Iron                                            |               |
|                     |                       | <b>Suction Cover</b>         | Cast Iron                                            |               |
|                     |                       | <b>Shaft</b>                 | Stainless Steel Chromium                             |               |
|                     |                       | <b>Motor frame</b>           | Cast Iron                                            |               |
|                     |                       | <b>fasteners</b>             | Stainless Steel                                      |               |
|                     |                       | <b>Mechanical Seal</b>       | Carbon/Ceramic/NBR                                   | Impeller Side |
|                     | Carbon/Ceramic/NBR    | Motor Side                   |                                                      |               |
| <b>Accessories</b>  | <b>Standard</b>       | Discharge elbow              |                                                      |               |
| <b>Certificates</b> | CE                    |                              |                                                      |               |

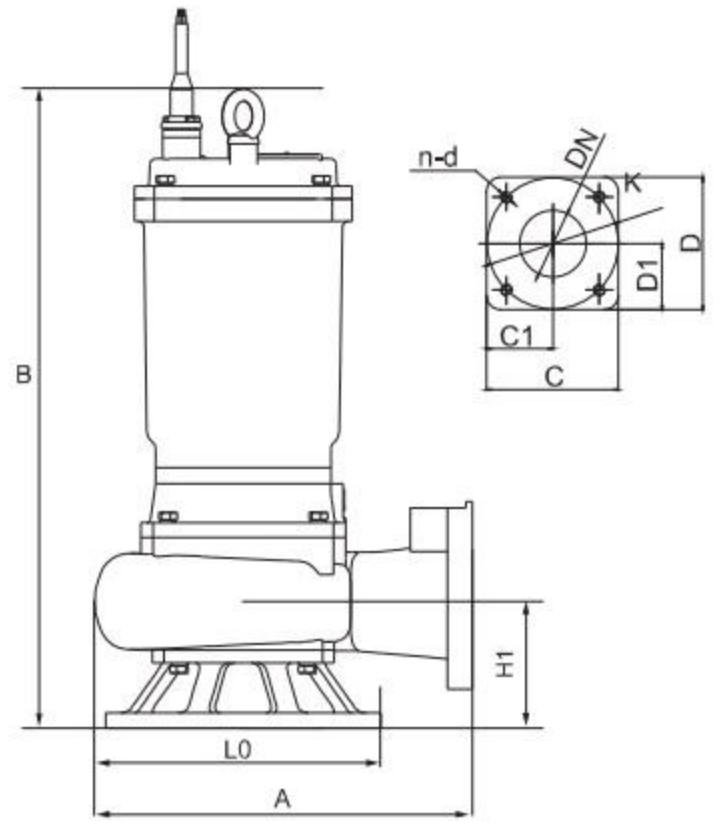
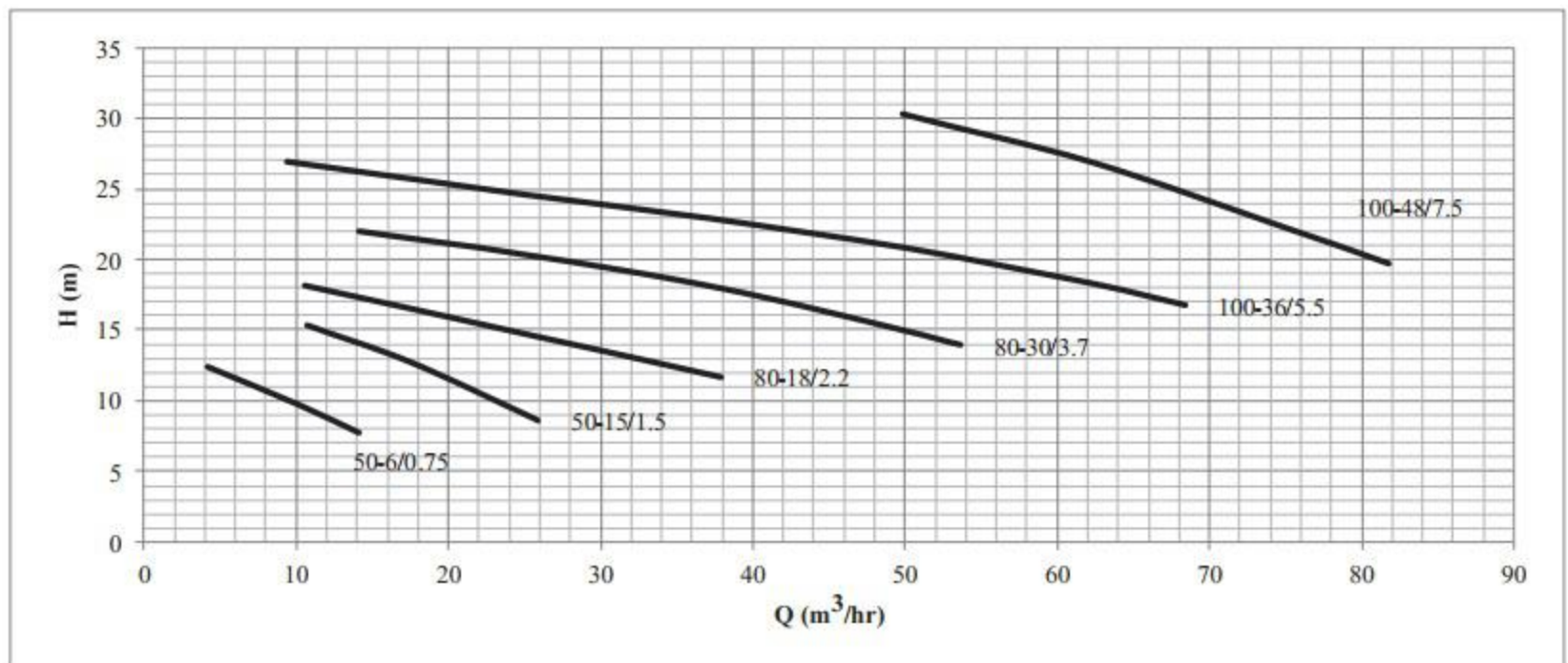
|              |                               |                   |                                                    |
|--------------|-------------------------------|-------------------|----------------------------------------------------|
| <b>Motor</b> | <b>Type</b>                   |                   | Air filled dry submersible                         |
|              | <b>No. of poles</b>           |                   | 2                                                  |
|              | <b>Rotation Speed (r/min)</b> |                   | 2850                                               |
|              | <b>Insulation Class</b>       |                   | F                                                  |
|              | <b>Protection Degree</b>      |                   | IP 68                                              |
|              | <b>Power Rating (kW)</b>      |                   | 0.75 - 7.5                                         |
|              | <b>Frequency (Hz)</b>         |                   | 50 ± 5%                                            |
|              | <b>Voltage (V)</b>            |                   | 220±10% for single phase & 380±10% for three phase |
|              | <b>Starting</b>               |                   | DOL                                                |
|              | <b>Over Load Protection</b>   |                   | Built in                                           |
|              | <b>Cable</b>                  | <b>material</b>   | H07RN-F                                            |
|              |                               | <b>length (m)</b> | 6                                                  |
|              | <b>Bearings</b>               |                   | Permanently lubricated sealed ball bearing         |

## Performance Curves & Tables

| Model              | Motor |      | Q (lit/min) | 0    | 66   | 133  | 200  | 266  | 333  | 400 |
|--------------------|-------|------|-------------|------|------|------|------|------|------|-----|
|                    | HP    | kW   | Q (m3/hr)   | 0    | 4    | 8    | 12   | 16   | 20   | 24  |
| SSZ 50-8/0.75 T WC | 1.0   | 0.75 | H (m)       | 14.0 | 12.3 | 10.5 | 8.5  | -    | -    | -   |
| SSZ 50-18/1.5 T WC | 2.0   | 1.5  |             | 17.9 | -    | -    | 14.8 | 13.5 | 11.3 | 9.6 |

| Model              | Motor |     | Q (lit/min) | 0    | 200  | 250  | 333  | 500  | 666  | 833  |
|--------------------|-------|-----|-------------|------|------|------|------|------|------|------|
|                    | HP    | kW  | Q (m3/hr)   | 0    | 12   | 15   | 20   | 30   | 40   | 50   |
| SSZ 80-24/2.2 T WC | 3.0   | 2.2 | H (m)       | 21.0 | 17.8 | 17.1 | 15.9 | 13.6 | -    | -    |
| SSZ 80-30/3.7 T WC | 5.0   | 3.7 |             | 24.0 | -    | 21.4 | 21.0 | 19.5 | 17.3 | 14.6 |

| Model               | Motor |     | Q (lit/min) | 0    | 250  | 333  | 500  | 667  | 833  | 1000 | 1167 | 1333 |
|---------------------|-------|-----|-------------|------|------|------|------|------|------|------|------|------|
|                     | HP    | kW  | Q (m3/hr)   | 0    | 15   | 20   | 30   | 40   | 50   | 60   | 70   | 80   |
| SSZ 100-38/5.5 T WC | 7.5   | 5.5 | H (m)       | 28.4 | 26.2 | 25.2 | 23.8 | 22.2 | 20.5 | 18.8 | -    | -    |
| SSZ 100-65/7.5 T WC | 10.0  | 7.5 |             | 43.9 | -    | -    | -    | -    | 30.3 | 27.7 | 23.8 | 20.4 |



## Dimensions & Weights

| Model              | Dim.(mm) |     |     |     |     |     |     |    |     |    |       | N.W.<br>(kg) |
|--------------------|----------|-----|-----|-----|-----|-----|-----|----|-----|----|-------|--------------|
|                    | B        | H1  | A   | L0  | DN  | K   | C   | C1 | D   | D1 | n-d   |              |
| SSZ 50-8/0.75 T X  | 460      | 96  | 250 | 220 | 50  | 99  | 100 | 50 | 100 | 50 | 4-M10 | 31           |
| SSZ 50-18/1.5 T X  | 520      | 99  | 270 | 200 | 50  | 99  | 100 | 50 | 100 | 50 | 4-M10 | 36           |
| SSZ 80-24/2.2 T X  | 525      | 101 | 292 | 237 | 80  | 156 | 140 | 70 | 150 | 70 | 4-M12 | 40           |
| SSZ 80-30/3.7 T X  | 560      | 100 | 326 | 270 | 80  | 156 | 140 | 70 | 150 | 70 | 4-M12 | 65           |
| SSZ 100-38/5.5 T X | 600      | 103 | 346 | 290 | 100 | 156 | 140 | 70 | 150 | 70 | 4-M12 | 78           |
| SSZ 100-65/7.5 T X | 600      | 103 | 346 | 290 | 100 | 156 | 140 | 70 | 150 | 70 | 4-M12 | 84           |

## Details & Extra Information

| Model              | Power |     | Rate Current (A) | Solid Passage<br>(mm) | Cable line<br>(m) | Dim.mm<br>(L×W×H) | G.W.<br>(kg) |
|--------------------|-------|-----|------------------|-----------------------|-------------------|-------------------|--------------|
|                    | kW    | HP  |                  |                       |                   |                   |              |
| SSZ 50-8/0.75 T X  | 0.75  | 1   | 2                | 20                    | 6                 | 525×250×305       | 34           |
| SSZ 50-18/1.5 T X  | 1.5   | 2   | 3.6              | 20                    | 6                 | 600×255×330       | 40           |
| SSZ 80-24/2.2 T X  | 2.2   | 3   | 5.1              | 20                    | 6                 | 600×275×365       | 45           |
| SSZ 80-30/3.7 T X  | 3.7   | 5   | 8.2              | 30                    | 6                 | 370×325×680       | 71           |
| SSZ 100-38/5.5 T X | 5.5   | 7.5 | 11.7             | 30                    | 6                 | 400×340×770       | 85           |
| SSZ 100-65/7.5 T X | 7.5   | 10  | 15.7             | 30                    | 6                 | 400×340×770       | 91           |