

Series: GSZ-4	Discharge Bore: 150 - 250mm	Motor Output / Pole: 37 - 150kW / 4-pole
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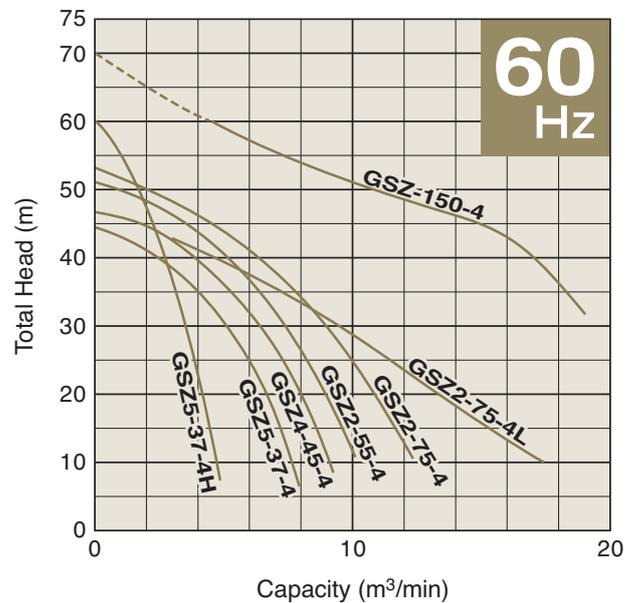
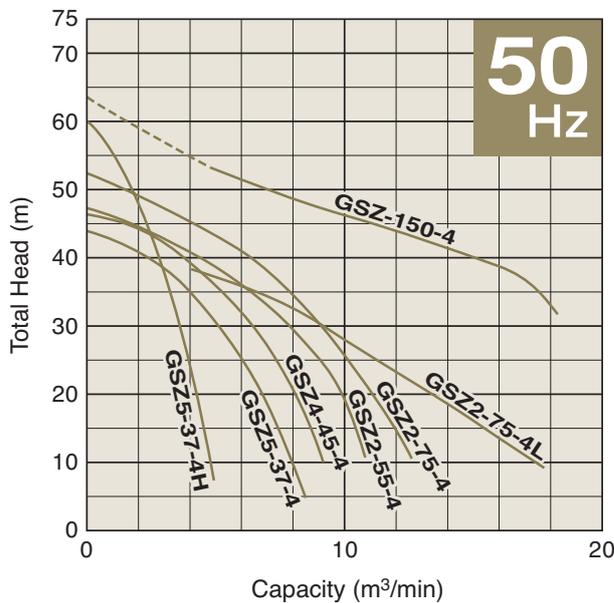
The GSZ-4-series is a submersible three-phase cast iron high head and high volume heavy-duty drainage pump driven by a 4-pole motor. The side discharge, spiral design allows smoother passage of the sucked solid matters. The motor is cooled by a water jacket that assures efficient motor cooling even when it operates with its motor exposed to air. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

Selection Table

Model	Discharge Bore mm	Motor Output kW	Phase	Starting Method	Pole	Dry Weight kg
GSZ5-37-4H	150	37	3-phase	Star-Delta	4	595
GSZ5-37-4	200	37	3-phase	Star-Delta	4	566
GSZ4-45-4	200	45	3-phase	Star-Delta	4	583
GSZ2-55-4	250	55	3-phase	Star-Delta	4	1091
GSZ2-75-4	250	75	3-phase	Star-Delta	4	1141
GSZ2-75-4L	250	75	3-phase	Star-Delta	4	1200
GSZ-150-4	250	150	3-phase	Star-Delta	4	2315

Performance Curves

It is not recommended to operate the unit continuously along the dashed curve.



SPECIFICATIONS	Model	GSZ5-37-4H	GSZ-4-series
			37kW, 3-phase

<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 150mm, JIS 10kg/cm² Flange</p> <p>Motor Output 37kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 80A</td> <td>220V – 140A</td> </tr> <tr> <td>400V – 76A</td> <td>380V – 81A</td> </tr> <tr> <td>415V – 73A</td> <td>440V – 72A</td> </tr> </table> <p>Power Cable Standard Length: 10m 380 to 600V supply: 1 x 4 x 14mm², O.D. 25.6mm, Chloroprene rubber 1 x 3 x 14mm², O.D. 25.6mm, Chloroprene rubber 1 x 2 x 1.25mm², O.D. 9.6mm, PVC 200 to 240V supply: 1 x 4 x 22mm², O.D. 31.6mm, Chloroprene rubber 1 x 3 x 22mm², O.D. 27.1mm, Chloroprene rubber 1 x 2 x 1.25mm², O.D. 9.6mm, PVC</p> <p>Dry Weight (excluding cable) 595kg</p>	50Hz	60Hz	380V – 80A	220V – 140A	400V – 76A	380V – 81A	415V – 73A	440V – 72A	<p>Impeller Closed impeller made of 304 stainless steel casting</p> <p>Solids Passage 50Hz – φ10mm 60Hz – φ10mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used four as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 8400ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p>
50Hz	60Hz								
380V – 80A	220V – 140A								
400V – 76A	380V – 81A								
415V – 73A	440V – 72A								

Special Specifications
High Temperature Liquids Version (60°C)

SPECIFICATIONS	Model	GSZ5-37-4	GSZ-4-series
			37kW, 3-phase

<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 200mm, JIS 10kg/cm² Flange</p> <p>Motor Output 37kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 80A</td> <td>220V – 140A</td> </tr> <tr> <td>400V – 76A</td> <td>380V – 81A</td> </tr> <tr> <td>415V – 73A</td> <td>440V – 72A</td> </tr> </table> <p>Power Cable Standard Length: 10m 380 to 600V supply: 1 x 4 x 14mm², O.D. 25.6mm, Chloroprene rubber 1 x 3 x 14mm², O.D. 25.6mm, Chloroprene rubber 1 x 2 x 1.25mm², O.D. 9.6mm, PVC 200 to 240V supply: 1 x 4 x 22mm², O.D. 31.6mm, Chloroprene rubber 1 x 3 x 22mm², O.D. 27.1mm, Chloroprene rubber 1 x 2 x 1.25mm², O.D. 9.6mm, PVC</p> <p>Dry Weight (excluding cable) 566kg</p>	50Hz	60Hz	380V – 80A	220V – 140A	400V – 76A	380V – 81A	415V – 73A	440V – 72A	<p>Impeller Closed impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ25mm 60Hz – ϕ25mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used four as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 8400ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p>
50Hz	60Hz								
380V – 80A	220V – 140A								
400V – 76A	380V – 81A								
415V – 73A	440V – 72A								

Special Specifications
High Temperature Liquids Version (60°C)

SPECIFICATIONS	Model	GSZ4-45-4	GSZ-4-series
			45kW, 3-phase

<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 200mm, JIS 10kg/cm² Flange</p> <p>Motor Output 45kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 92A</td> <td>380V – 89A</td> </tr> <tr> <td>400V – 87A</td> <td>440V – 78A</td> </tr> <tr> <td>415V – 84A</td> <td></td> </tr> </table> <p>Power Cable Standard Length: 10m 380 to 600V supply: 1 x 4 x 22mm², O.D. 31.6mm, Chloroprene rubber 1 x 3 x 22mm², O.D. 27.1mm, Chloroprene rubber 1 x 2 x 1.25mm², O.D. 9.6mm, PVC</p> <p>Dry Weight (excluding cable) 583kg</p>	50Hz	60Hz	380V – 92A	380V – 89A	400V – 87A	440V – 78A	415V – 84A		<p>Impeller Closed impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ25mm 60Hz – ϕ25mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used three as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 8000ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p>
50Hz	60Hz								
380V – 92A	380V – 89A								
400V – 87A	440V – 78A								
415V – 84A									

Special Specifications
High Temperature Liquids Version (60°C)

SPECIFICATIONS	Model	GSZ2-55-4									
		GSZ-4-series 55kW, 3-phase									
<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 250mm, JIS 10kg/cm² Flange</p> <p>Motor Output 55kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 114A</td> <td>380V – 111A</td> </tr> <tr> <td>400V – 108A</td> <td>440V – 95A</td> </tr> <tr> <td>415V – 105A</td> <td></td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 10m 380 to 600V supply: 1 x $\begin{pmatrix} 3 \times 30\text{mm}^2 \\ 1 \times 14\text{mm}^2 \\ 2 \times 2\text{mm}^2 \end{pmatrix}$ O.D. 35.9mm 1 x 3 x 30mm², O.D. 35.9mm</p> <p>Dry Weight (excluding cable) 1091kg</p>		50Hz	60Hz	380V – 114A	380V – 111A	400V – 108A	440V – 95A	415V – 105A		<p>Impeller Closed impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ25mm 60Hz – ϕ25mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Upper: Permanently lubricated, deep-groove, double-shielded C3 ball bearing Lower: Duplex angular contact ball bearing mounted back-to-back</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used three as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>Labyrinth Ring Made of 403 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 9400ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p> <p>Leakage Sensor Made of 304 stainless steel. It can be wired to a control panel to alert operators of water incursion into the oil chamber.</p>	
50Hz	60Hz										
380V – 114A	380V – 111A										
400V – 108A	440V – 95A										
415V – 105A											
<p>Special Specifications</p> <p>High Temperature Liquids Version (60°C)</p>											

SPECIFICATIONS	Model	GSZ2-75-4									
		GSZ-4-series 75kW, 3-phase									
<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 250mm, JIS 10kg/cm² Flange</p> <p>Motor Output 75kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 164A</td> <td>380V – 154A</td> </tr> <tr> <td>400V – 152A</td> <td>440V – 133A</td> </tr> <tr> <td>415V – 150A</td> <td></td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 10m 380 to 600V supply: 1 x $\begin{pmatrix} 3 \times 30\text{mm}^2 \\ 1 \times 14\text{mm}^2 \\ 2 \times 2\text{mm}^2 \end{pmatrix}$ O.D. 35.9mm 1 x 3 x 30mm², O.D. 35.9mm</p> <p>Dry Weight (excluding cable) 1141kg</p>		50Hz	60Hz	380V – 164A	380V – 154A	400V – 152A	440V – 133A	415V – 150A		<p>Impeller 50Hz – Closed impeller made of 304 stainless steel casting 60Hz – Closed impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ25mm 60Hz – ϕ25mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Upper: Permanently lubricated, deep-groove, double-shielded C3 ball bearing Lower: Duplex angular contact ball bearing mounted back-to-back</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used three as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>Labyrinth Ring Made of 403 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 9400ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p> <p>Leakage Sensor Made of 304 stainless steel. It can be wired to a control panel to alert operators of water incursion into the oil chamber.</p>	
50Hz	60Hz										
380V – 164A	380V – 154A										
400V – 152A	440V – 133A										
415V – 150A											
<p>Special Specifications High Temperature Liquids Version (60°C)</p>											

SPECIFICATIONS	Model	GSZ2-75-4L							
		GSZ-4-series 75kW, 3-phase							
<p>Type of Pump Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Water Jacket Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 250mm, JIS 10kg/cm² Flange</p> <p>Motor Output 75kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Star-Delta</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: F Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 164A</td> <td>380V – 154A</td> </tr> <tr> <td>400V – 152A</td> <td>440V – 133A</td> </tr> <tr> <td>415V – 150A</td> <td></td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 10m 380 to 600V supply: 1 x $\begin{pmatrix} 3 \times 30\text{mm}^2 \\ 1 \times 14\text{mm}^2 \\ 2 \times 2\text{mm}^2 \end{pmatrix}$ O.D. 35.9mm 1 x 3 x 30mm², O.D. 35.9mm</p> <p>Dry Weight (excluding cable) 1200kg</p>	50Hz	60Hz	380V – 164A	380V – 154A	400V – 152A	440V – 133A	415V – 150A		<p>Impeller Closed impeller made of high-chromium cast iron</p> <p>Solids Passage 50Hz – ϕ25mm 60Hz – ϕ25mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Upper: Permanently lubricated, deep-groove, double-shielded C3 ball bearing Lower: Duplex angular contact ball bearing mounted back-to-back</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used three as a “Dust Seal”, it protects the mechanical seal from abrasive particles.</p> <p>Labyrinth Ring Made of 403 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.</p> <p>Pressure Relief Ports Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 9400ml</p> <p>Motor Protection Device A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.</p> <p>Leakage Sensor Made of 304 stainless steel. It can be wired to a control panel to alert operators of water incursion into the oil chamber.</p>
50Hz	60Hz								
380V – 164A	380V – 154A								
400V – 152A	440V – 133A								
415V – 150A									

SPECIFICATIONS	Model	GSZ-150-4	
		GSZ-4-series 150kW, 3-phase	

Type of Pump

Submersible high head and high volume drainage pump for construction and foundation works, floodwater drainage, etc.

Water Jacket

Equipped with a water jacket, around the motor frame. A portion of the pumped liquid is allowed to flow into the water jacket to cool the motor.

Type of Fluid

Stormwater, groundwater, wash water, and sand-carrying water

Temperature: 0 to 40°C

Discharge Bore & Connection

250mm, JIS 10kg/cm² Flange

Motor Output

150kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: F

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

4-pole, 1500/1800min⁻¹ (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz	60Hz
380V – 307A	380V – 307A
400V – 292A	440V – 265A
415V – 281A	

Power Cable

Sheath: Chloroprene rubber

Standard Length: 10m

380 to 600V supply:

1 x $\left(\begin{matrix} 3 \times 80\text{mm}^2 \\ 1 \times 38\text{mm}^2 \\ 3 \times 2\text{mm}^2 \end{matrix} \right)$ O.D. 53.5mm

1 x 3 x 80mm², O.D. 48.9mm

Dry Weight (excluding cable)

2315kg

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage

50Hz – ϕ 25mm

60Hz – ϕ 25mm

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing

Upper: Cylindrical roller bearing

Lower: Duplex angular contact ball bearing mounted back-to-back

Shaft

420 stainless steel

Shaft Seal (Mechanical Seal)

Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: Tungsten Carbide + Carbon

Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

Used four as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Pressure Relief Ports

Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles by drawing the particles away.

Type of Lubricating Oil & Volume

Turbine Oil (ISO VG32), 26000ml

Motor Protection Device

A miniature thermal protector is embedded in each winding of the motor. Should excessive heat builds up, the bimetal strip opens to cause the control panel to shut the power supply.

Leakage Sensor

Made of 304 stainless steel. It can be wired to a control panel to alert operators of water incursion into the oil chamber.

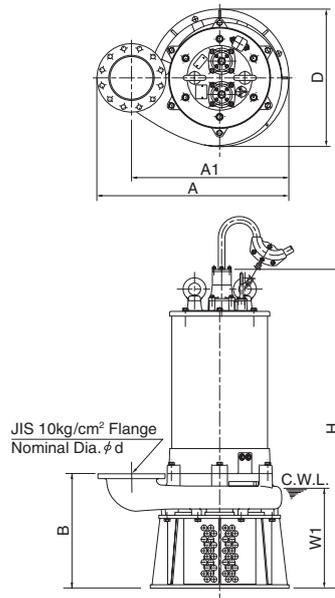
DIMENSIONS

Model

GSZ5-37-4H to GSZ-150-4

GSZ-4-series

150 - 250mm



C. W. L. : Continuous Running Water Level

Unit: mm

Model	d	A	A1	B	D	H	W1
GSZ5-37-4H	150	900	760	520	700	1553	440
GSZ5-37-4	200	915	750	550	660	1583	480
GSZ4-45-4	200	915	750	600	660	1591	460
GSZ2-55-4	250	1050	850	655	708	1927	510
GSZ2-75-4	250	1050	850	655	708	1927	510
GSZ2-75-4L	250	1050	850	700	739	1972	730
GSZ-150-4	250	1218	1018	764	846	2420	780