Series:

Discharge Bore:

Motor Output / Pole:

LH

80·100mm

3 - 30kW / 2-pole



The LH-series is a submersible three-phase cast iron high head drainage pump. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The top discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.*

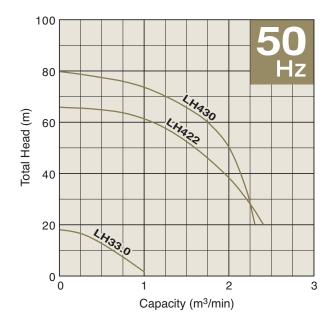
* excluding LH33.0

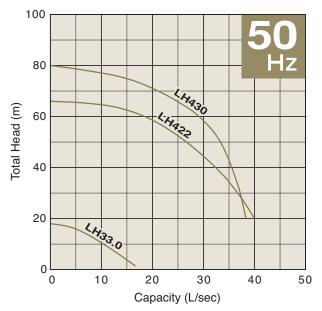
Selection Table

Model	Discharge Bore mm	Motor Output kW	Phase	Starting Method	Pole	Dry Weight kg
LH33.0	80	3	3-phase	Direct on Line	2	42
LH422 (*)	100	22	3-phase	Direct on Line	2	350
LH430	100	30	3-phase	Star-Delta	2	355

^{*:} available for 1000V supply

Performance Curves





Model

LH33.0

LH-series

3kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

80mm (3"), BSPT Male Threaded Coupling

Motor Output

3kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 6.5A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.) Standard Length: 20m x 1 cable

4 x 2.0mm², O.D. 14.4mm

Dry Weight (excluding cable)

42kg

Impeller

Semi-open impeller of high-chromium cast iron

Solids Passage: \(\phi \)6mm

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 380ml

Motor Protection Device

415V: Circle Thermal Protector (CTP)

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Optional Accessories

Center Flanged Pipe & BSPT Female Threaded Flange

Special Specifications (415V only)

Tandem Operation Version & Kit

Model

LH422

LH-series

22kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

100mm (4"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

22kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: B, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 40A 1000V - 15.2A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable 4 x 14mm², O.D. 25.6mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable

PLATINUM®, Type 241.1G10PCP Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm

(acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

350kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

All Stainless Steel Version (316 Stainless Steel) High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: \(\phi \)6mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6900ml

Motor Protection Device

415V: Circle Thermal Protector (CTP)

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH430

LH-series 30kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

100mm (4"), JIS 10kg/cm² Flange

Motor Output

30kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min-1 (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 55A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 22 \text{mm}^2 + 1 \times 14 \text{mm}^2 + 2 \times 2 \text{mm}^2$, O.D. 38.8mm

Dry Weight (excluding cable)

355kg

Optional Accessories

BSPT Female Threaded Flange

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: \(\phi \)6mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6900ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

Galvanic Anode

150mm

Series:

Discharge Bore:

Motor Output / Pole:

15 - 110kW / 2-pole



LH

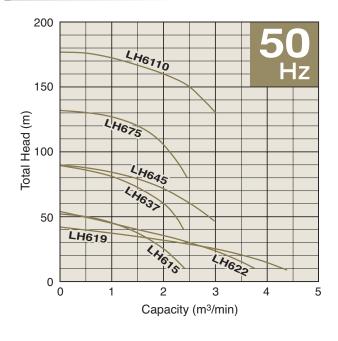
The LH-series is a submersible three-phase cast iron high head drainage pump. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The top discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

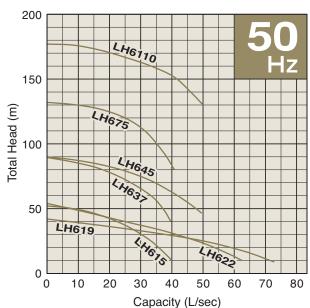
Selection Table

Model	Discharge Bore	Motor Output	Phase	Starting Method	Pole	Dry Weight
	mm	kW				kg
LH615	150	15	3-phase	Direct on Line	2	213
LH619	150	19	3-phase	Direct on Line	2	350
LH622 (*)	150	22	3-phase	Direct on Line	2	360
LH637 (*)	150	37	3-phase	415V: Star-Delta 1000V: Direct on Line	2	495
LH645 (*)	150	45	3-phase	415V: Star-Delta 1000V: Direct on Line	2	510
LH675	150	75	3-phase	Star-Delta	2	865
LH6110 (*)	150	110	3-phase	415V: Star-Delta 1000V: Direct on Line	2	1210

*: available for 1000V supply

Performance Curves





Model

LH615

LH-series

15kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 10kg/cm² Flange

Motor Output

15kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: B Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 26.5A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.) Standard Length: 10m x 1 cable

4 x 8mm², O.D. 21.7mm

Dry Weight (excluding cable)

213kg

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #8.5mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 3740ml

Motor Protection Device

415V: Circle Thermal Protector (CTP)

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Galvanic Anode

Made of aluminium alloy. It protects the pump from electric corrosion.

Optional Accessories

BSPT Female Threaded Flange

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Model

LH619

LH-series

19kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 10kg/cm² Flange

Motor Output

19kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: B Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz 415V – 35A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.) Standard Length: 10m x 1 cable

4 x 14mm², O.D. 25.6mm

Dry Weight (excluding cable)

350kg

Impeller

Closed impeller made of high-chromium cast iron

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6900ml

Motor Protection Device

415V: Circle Thermal Protector (CTP)

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

Galvanic Anode

Made of aluminium alloy. It protects the pump from electric corrosion.

Optional Accessories

BSPT Female Threaded Flange

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Model

LH622

LH-series

22kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

22kW

Power Supply

Three-phase

Starting Method

Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: B, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

415V - 40A 1000V - 15.2A

Power Cable

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable 4 x 14mm², O.D. 25.6mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable

PLATINUM®, Type 241.1G10PCP Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm (acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

360kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #12mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6900ml

Motor Protection Device

415V: Circle Thermal Protector (CTP)

A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor. If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH637

LH-series

37kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

37kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 65A 1000V - 26.8A

Power Cable

415V

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 22 \text{mm}^2 + 1 \times 14 \text{mm}^2 + 2 \times 2 \text{mm}^2$, O.D. 38.8mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable PLATINUM®, Type 241.1G10PCP

Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm (acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

495kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

All Stainless Steel Version (316 Stainless Steel) High Temperature Liquids Version (60°C) **Impeller**

Closed impeller made of high-chromium cast iron

Solids Passage: #6mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + Carbon Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 4800ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH645

LH-series

45kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

45kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min-1 (50Hz)

Power Supply Voltages & Rated Currents

415V - 79A 1000V - 33.5A

Power Cable

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 22 \text{mm}^2 + 1 \times 14 \text{mm}^2 + 2 \times 2 \text{mm}^2$, O.D. 38.8mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable

PLATINUM®, Type 241.1G10PCP Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm (acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

510kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V) Seawater-Resistant Kit

- Galvanic Anodes (with Fittings, Seal Putty)
- Seawater-Resistant Special Cast Iron Impeller
- 304 Stainless Steel Eye Bolts

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #6mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + Carbon Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 4800ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH675

LH-series

75kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 20kg/cm² Flange

Motor Output

75kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V – 130A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 30 \text{mm}^2 + 1 \times 22 \text{mm}^2 + 3 \times 2 \text{mm}^2$, O.D. 41.1 mm

Dry Weight (excluding cable)

865kg

Optional Accessories

BSPT Female Threaded Flange

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #8mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6100ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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 (415V only)

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

Galvanic Anode

Model

LH6110

LH-series

110kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

150mm (6"), JIS 20kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

110kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 204A 1000V - 82.5A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 20m x 2 cables

Cable 1: 3 x 38mm² + 1 x 22mm² + 3 x 2mm²,

O.D. 35.8mm

Cable 2: 3 x 38mm², O.D. 35.9mm

1000V

PCP sheathed, Type 241.1, 1.1kV Mining cable

PLATINUM®, Type 241.1G35PCP Standard Length: 20m x 1 cable

3 x 35mm² + GC control + 3 x Ground, O.D. 41.7mm

(acceptable Macey® 4-pin Plug)

Cable Entry with Anti-Wicking Block

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

Dry Weight (excluding cable)

1210kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

All Stainless Steel Version (316 Stainless Steel)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: \$10mm

Mouth Ring

Made of high-chromium cast iron, excellent in

abrasion-resistance

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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 403 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure

generated in the casing.

Pressure Relief Ports

Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles

by drawing the particles away.

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 8000ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Leakage Sensor (415V only)

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

Galvanic Anode

Series:

Discharge Bore:

Motor Output / Pole:

37 - 110kW / 2-pole

LH 200mm

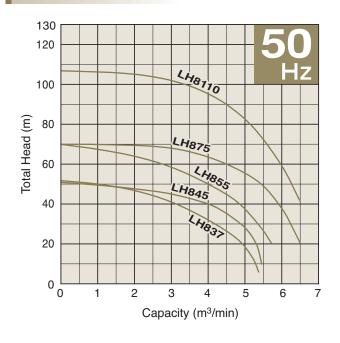


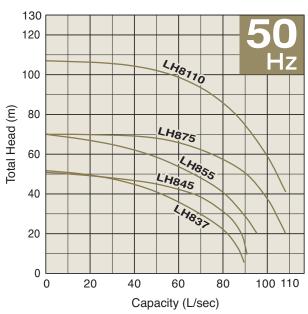
The LH-series is a submersible three-phase cast iron high head drainage pump. Being the pump cylindrical and slim, it can be installed in a well casing for deep well dewatering. The center flange construction assures a stable installation even if it is fixed by the discharge pipe. The top discharge, flow-thru design provides maximum motor cooling efficiency allowing continuous operation at low water levels and extended dry-run capability. The pump incorporates seal pressure relief ports that prevent the pumping pressure from applying to the shaft seal.

Selection Table

Model	Discharge Bore	Motor Output	Phase	Starting Method	Pole	Dry Weight
	mm	kW				kg
LH837 (*)	200	37	3-phase	415V: Star-Delta 1000V: Direct on Line	2	495
LH845 (*)	200	45	3-phase	415V: Star-Delta 1000V: Direct on Line	2	510
LH855	200	55	3-phase	Star-Delta	2	820
LH875	200	75	3-phase	Star-Delta	2	865
LH8110 (*)	200	110	3-phase	415V: Star-Delta 1000V: Direct on Line	2	1210
*: available for 1000V supply						

Performance Curves





Model

LH837

LH-series

37kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

200mm (8"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

37kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 65A 1000V - 26.8A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 22 \text{mm}^2 + 1 \times 14 \text{mm}^2 + 2 \times 2 \text{mm}^2$, O.D. 38.8mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable PLATINUM®, Type 241.1G10PCP

Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm (acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

495kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

All Stainless Steel Version (316 Stainless Steel) High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: \$\phi 20mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + Carbon Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 4800ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH845

LH-series

45kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

200mm (8"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

45kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

415V - 79A 1000V - 33.5A

Power Cable

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 22 \text{mm}^2 + 1 \times 14 \text{mm}^2 + 2 \times 2 \text{mm}^2$, O.D. 38.8mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable PLATINUM®, Type 241.1G10PCP

Standard Length: 20m x 1 cable

3 x 10mm² + GC control + 3 x Ground, O.D. 31.6mm (acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

510kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V) Seawater-Resistant Kit

- Galvanic Anodes (with Fittings, Seal Putty)
- Seawater-Resistant Special Cast Iron Impeller
- 304 Stainless Steel Eye Bolts

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: ¢20mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

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

Bearing

Permanently lubricated, deep-groove, double-shielded C3 ball bearings

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: SiC + Carbon Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal) Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 4800ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor.

If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut off by using an external control panel.

Galvanic Anode

Model

LH855

LH-series

55kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

200mm (8"), JIS 10kg/cm² Flange

Motor Output

55kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min⁻¹ (50Hz)

Power Supply Voltages & Rated Currents

50Hz 415V – 97A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 30 \text{mm}^2 + 1 \times 22 \text{mm}^2 + 3 \times 2 \text{mm}^2$, O.D. 41.1 mm

Dry Weight (excluding cable)

820kg

Optional Accessories

BSPT Female Threaded Flange

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #20mm

Mouth Ring

Made of high-chromium cast iron, excellent in

abrasion-resistance

Cable Entry with Anti-Wicking Block

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

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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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

Used as a "Dust Seal", it protects the mechanical seal

from abrasive particles.

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure

generated in the casing.

Pressure Relief Ports

Protect the mechanical seal against excessive pressure, and also protect the seal faces from abrasive particles

by drawing the particles away.

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6100ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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 (415V only)

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

Galvanic Anode

Model

LH875

LH-series

75kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

200mm (8"), JIS 10kg/cm² Flange

Motor Output

75kW

Power Supply

Three-phase

Starting Method

Star-Delta

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed) 2-pole, 3000min-1 (50Hz)

Power Supply Voltages & Rated Currents 50Hz 415V - 130A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 10m x 1 cable

 $6 \times 30 \text{mm}^2 + 1 \times 22 \text{mm}^2 + 3 \times 2 \text{mm}^2$, O.D. 41.1 mm

Dry Weight (excluding cable)

865kg

Optional Accessories

BSPT Female Threaded Flange Seawater-Resistant Kit

- Galvanic Anodes (with Fittings, Seal Putty)
- Seawater-Resistant Special Cast Iron Impeller
- 304 Stainless Steel Eye Bolts

Special Specifications (415V only)

High Temperature Liquids Version (60°C)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #20mm

Mouth Ring

Made of high-chromium cast iron, excellent in abrasion-resistance

Cable Entry with Anti-Wicking Block

Watertight cable entry with strain-relief device. The antiwicking 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: SiC + SiC Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)

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

Labyrinth Ring

Made of 304 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 6100ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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 (415V only)

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

Galvanic Anode

Model

LH8110

LH-series

110kW, 3-phase

Type of Pump

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

Type of Fluid

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

Temperature: 0 to 40°C

Discharge Bore & Connection

200mm (8"), JIS 10kg/cm² Flange

w/ BSPT Female Threaded Flange (Option for 415V)

Motor Output

110kW

Power Supply

Three-phase

Starting Method

415V: Star-Delta, 1000V: Direct on Line

Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: 415V: F, 1000V: F or H

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000min-1 (50Hz)

Power Supply Voltages & Rated Currents

50Hz

415V - 204A 1000V - 82.5A

Power Cable

415V:

PCP sheathed 600V cable (H07RN-F equiv.)

Standard Length: 20m x 2 cables

Cable 1: $3 \times 38 \text{mm}^2 + 1 \times 22 \text{mm}^2 + 3 \times 2 \text{mm}^2$,

O.D. 35.8mm

Cable 2: 3 x 38mm2, O.D. 35.9mm

1000V:

PCP sheathed, Type 241.1, 1.1kV Mining cable

PLATINUM®, Type 241.1G35PCP Standard Length: 20m x 1 cable

3 x 35mm² + GC control + 3 x Ground, O.D. 41.7mm

(acceptable Macey® 4-pin Plug)

Dry Weight (excluding cable)

1210kg

Optional Accessories

BSPT Female Threaded Flange (Standard for 1000V)

Special Specifications (415V only)

All Stainless Steel Version (316 Stainless Steel)

Impeller

Closed impeller made of high-chromium cast iron

Solids Passage: #20mm

Mouth Ring

Made of high-chromium cast iron, excellent in

abrasion-resistance

Cable Entry with Anti-Wicking Block

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

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BearingUpper: 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: SiC + SiC Lower Seal Face: SiC + SiC

Labyrinth Ring

Made of 403 stainless steel, equipped to provide a better countermeasure against wear caused by high pressure generated in the casing.

Pressure Relief Ports

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

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.

Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 8000ml

Motor Protection Device

415V: Miniature Thermal Protector (MTP)

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.

1000V: MTP & Ground-Check Diode

The MTPs are connected with a diode (3A-1000V) in series into the Ground-Check circuit in the motor. If excessive heat builds up and the bimetal strip opens, or Ground-fault happens, the power supply can be shut

off by using an external control panel.

Leakage Sensor (415V only)

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

Galvanic Anode

DIMENSIONS

Model

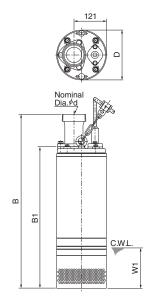
LH33.0 to LH8110

LH-series

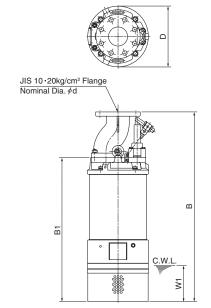
80 - 200mm

C. W. L.: Continuous Running Water Level

LH33.0



100-200mm model



Unit: mm

					Offic. Hilli	
Model	d	В	B1	D	W1	
LH33.0	80	645	524	185	150	
LH422 (*)	100	1352	1051	420	250	
LH430	100	1352	1051	420	250	
LH615	150	1014	777	330	185	
LH619	150	1423	1072	420	270	
LH622 (*)	150	1423	1072	420	270	
LH637 (*)	150	1448	1027	530	180	
LH645 (*)	150	1448	1027	530	180	
LH675	150	1676	1300	563	200	
LH6110 (*)	150	1887	1485	616	200	
LH837 (*)	200	1488	1027	530	180	
LH845 (*)	200	1488	1027	530	180	
LH855	200	1716	1300	563	200	
LH875	200	1716	1300	563	200	
LH8110 (*)	200	1887	1485	616	200	
★: available for 1000V supply						