

**SPECIFICATIONS** 

Model

80B21.5

**B-series** 

1.5kW, 3-phase

# **Type of Pump**

Submersible cast iron pump suitable for pumping sewage, wastewater, storm water, etc.

### Type of Fluid

Sewage, wastewater, and water carrying solid matters

Temperature: 0 to 40°C

(High temperature model available on special request)

## **Discharge Bore**

80mm

## **Motor Output**

1.5kW

### Power Supply

Three-phase

## **Starting Method**

Direct on Line

#### Motor

Continuous-duty rated, dry-type induction motor

Insulation Class: F

Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)

2-pole, 3000/3600min-1 (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz 380V - 3.5A 400V - 3.5A 415V - 3.5A 60Hz 220V - 6.0A 380V - 3.4A 440V - 3.2A

# **Power Cable**

Sheath: PVC

Standard Length: 6m 200 to 600V supply:

 $1 \times 4 \times 1.25$ mm<sup>2</sup>, O.D. 11.1mm

## Dry Weight (excluding cable)

Free Standing Type: 36kg Guide Rail Fitting Type: 34kg

### Impeller

Semi-open single-channel impeller for solid-handling design, dynamically balanced

Solids Passage  $50Hz - 49 \times 41mm$  $60Hz - 49 \times 35mm$ 

# 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.

## **Bearings**

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 Faces: Ceramic + Carbon Lower Seal Faces: SiC + SiC

## Oil Seal (Lip Seal)

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

## **OIL LIFTER** (Patented)

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), 900ml

# **Motor Protection Device**

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

# Bend Set (Free Standing Type)

- Discharge Bend
- Screwed Flange

# TOS/TS Set (Guide Rail Fitting Type)

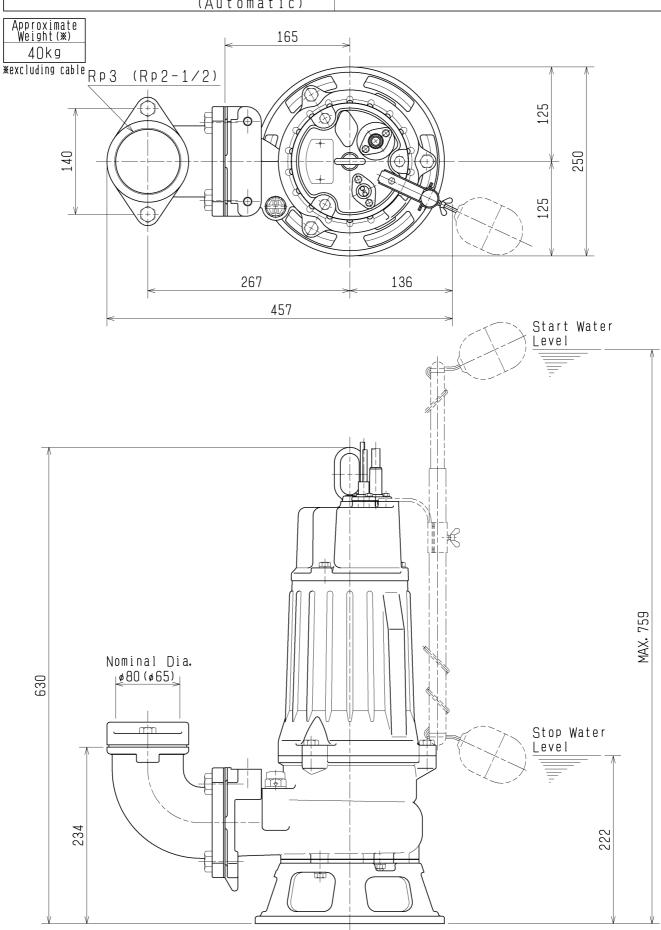
- Duckfoot Bend
- Guide Support
- Guide Hook
- · Lifting Chain 5m (with Shackles)
- JIS 10kg/cm<sup>2</sup> Screwed Flange (TOS Set only)

# **External Leakage Sensor**

				A-11450-1
	PERFORMANC			
TYPE Sewage Submers Channel Impe	sible   MODEL 8 sller Pump   TOS8		W) 21.5 -52 F W) 21.5 -52	requency 50 h
CUSTOMER'S NAME	,			
EQUIPMENT TITLE				
			<u>NO.</u>	
P. COULDE DODE	STANDARD SPECIFICAT:		REQUIRED SPE	
DISCHARGE BORE TOTAL HEAD	80 8	m m		1 m
CAPACITY	0. 55	m³/min		m³/mii
MOTOR OUTPUT	1. 5	kW		k \
PHASE × VOLTAGE	3 ø×	V	ø >	×
CURRENT	0 0 0 000	A1		
POLES / REVOLUTION STARTING METHOD	2 P/ S.S.3000 DIRECT ON LINE	min <sup>-1</sup>	P /	min
INSULATION CLASS	F F			
-			REMARKS:	
			-	
100+ + 20				
90 + + =				
80 + 16				
80 + 16				
70++				
60 + 12				
	PUMP EFF.			
50++				
40 + 8	A MA	$\rightarrow$		
30+	TO TAL HEAD			
20 - 2. 0 + 4	OUT PUT			
10-1.0-				
% kW m	0.5	1 1 1 1 1 1 1	1.0	m³/min
PUMP OUT TOTAL CAPACITY	(			
	UMI MFG. CO.,L	TD		



DIMENSION D	RAWING	No.		No.	A-11453-3
TYPE Sewage Submers: Channel Impel (Aut		•	80BA21.5	_	52/62



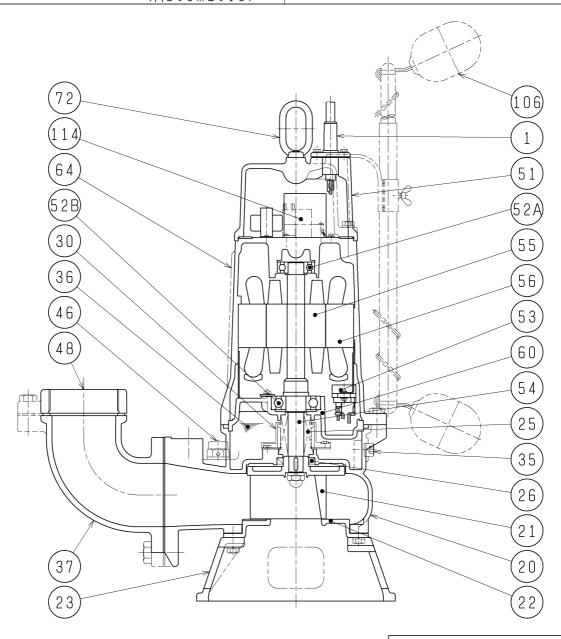
The Figure in ( ) shows the dimensions of discharge Bore at Nominal ø65.



SECTIONAL DRAWING No. No. A-11456-5

TYPE Sewage Submersible MODEL 80BA21.5 -52/62

(Automatic)



REQ.SPECIFICATION

## \* the wetted part

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No.	DESCRIPTION	Q' TY	MATERIAL / NOTE	No.	DESCRIPTION	Q' TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	51	Head Cover	1	Gray Iron Casting
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6204ZZC3
21	Impeller	1	Gray Iron Casting	52B	Lower Bearing	1	6305ZZC3
22	Suction Cover	1	Gray Iron Casting	53	Motor Protector	1	
23	Strainer Stand	1	Gray Iron Casting	54	Shaft	1	Stainless Steel 420J2(*)
25	Mechanical Seal	1	H-20A	55	Rotor	1	
26	Oil Seal	1	TC32488	56	Stator	1	
30	Oil Lifter	1	Plastic	60	Bearing Housing	1	Gray Iron Casting
35	Oil Plug	1	Stainless Steel 304	64	Motor Frame	1	Gray Iron Casting
36	Lubricant		Turbine Oil(ISO VG32)	72	Eye Bolt	1	Stainless Steel 304
37	Discharge Bend	1	Gray Iron Casting	106	Float	2	Plastic
46	Air Release Valve	1	Nylon	114	Relay Unit	1	
48	Screwed Flange	1	Gray Iron Casting				