## Sewage / Wastewater Pumps

**B**-series

| C TSURUMI PUMP |       |       |
|----------------|-------|-------|
| SPECIFICATIONS | Model | 100B4 |

|  |  | 100D/      | 10 711  | D-Selles   |  |  |  |  |
|--|--|------------|---|--|--|--|--|--|
| SPECIFICATIONS   | Model  | 100B4      | ю./П  | 3.7kW, 3-phase   |  |  |  |  |
|  |  |            |   |  |  |  |  |  |
| <b>Type of Pump</b><br>Submersible cast iron pump<br>wastewater, storm water, etc.                         |  | ng sewage, | <b>Impeller</b><br>Semi-open two-channel impeller for solid-handling design,<br>dynamically balanced  |  |  |  |  |  |
| <b>Type of Fluid</b><br>Sewage, wastewater, and w  | ater carrying solid  | matters    | Solids Passage<br>50Hz – 35 × 62mm<br>60Hz – 35 × 55mm  |  |  |  |  |  |
| Temperature: 0 to 40°C<br>(High temperature model av   | ailable on special   | request)   | <b>Cable Entry with Anti-Wicking Block</b><br>Watertight cable entry with strain-relief device. The anti-<br>wicking block prevents water incursion due to capillary<br>action should the power cable be damaged or the end |  |  |  |  |  |
| Discharge Bore<br>100mm  |  |            |   |  |  |  |  |  |
| Motor Output<br>3.7kW  |  |            | submerged. Bearings   |  |  |  |  |  |
| <b>Power Supply</b><br>Three-phase   |  |            | C3 ball bearings  | eep-groove, double-shielded  |  |  |  |  |
| Starting Method<br>Direct on Line (Star-Delta av   | vailable on special  | request)   | Shaft<br>420 stainless steel  |  |  |  |  |  |
| <b>Motor</b><br>Continuous-duty rated, dry-t   | type induction moto  | or         | Shaft Seal (Mechanical Seal)<br>Furnished with a double-face mechanical seal located in<br>oil chamber. Both upper and lower seal faces always run<br>in a clean environment.   |  |  |  |  |  |
| Insulation Class: E (availabl<br>Degree of Protection: IP68  | e in F on special re   | equest)    | Upper Seal Faces: Ceramic -<br>Lower Seal Faces: SiC + SiC  |  |  |  |  |  |
|  | of Poles & Speed (Synchronous Speed)<br>le, 1500/1800min <sup>-1</sup> (50/60Hz) |            |   | <b>Oil Seal</b> (Lip Seal)<br>Used as a "Dust Seal", it protects the mechanical seal |  |  |  |  |
| Power Supply Voltages & Ra<br>50Hz 60Hz  |  |            | from abrasive particles.  |  |  |  |  |  |
| 380V - 8.2A 220V -<br>400V - 7.9A 380V -<br>415V - 7.7A 440V -   | 8.0A   |            | <b>OIL LIFTER</b> (Patented)<br>Equipped in oil chamber. It<br>oil to the mechanical seal an  |  |  |  |  |  |
| Power Cable  |  |            | to the upper seal faces ever<br>rated volume.   |  |  |  |  |  |
| Sheath: PVC<br>Standard Length: 6m<br>380 to 600V supply:  |  |            | Type of Lubricating Oil & Volu<br>Turbine Oil (ISO VG32), 1350  |  |  |  |  |  |
| 1 × 4 × 2.0mm <sup>2</sup> , O.D. 11.8mr<br>200 to 240V supply:<br>1 × 4 × 3.5mm <sup>2</sup> , O.D. 13.9m |  |            | Motor Protection Device<br>A circle thermal protector<br>Directly cuts the motor circui   |  |  |  |  |  |
| <b>Dry Weight</b> (excluding cal<br>Free Standing Type: 82kg   |  |            | or an overcurrent condition o   | •  |  |  |  |  |

## Optional Accessories

Guide Rail Fitting Type: 78kg

## Bend Set (Free Standing Type)

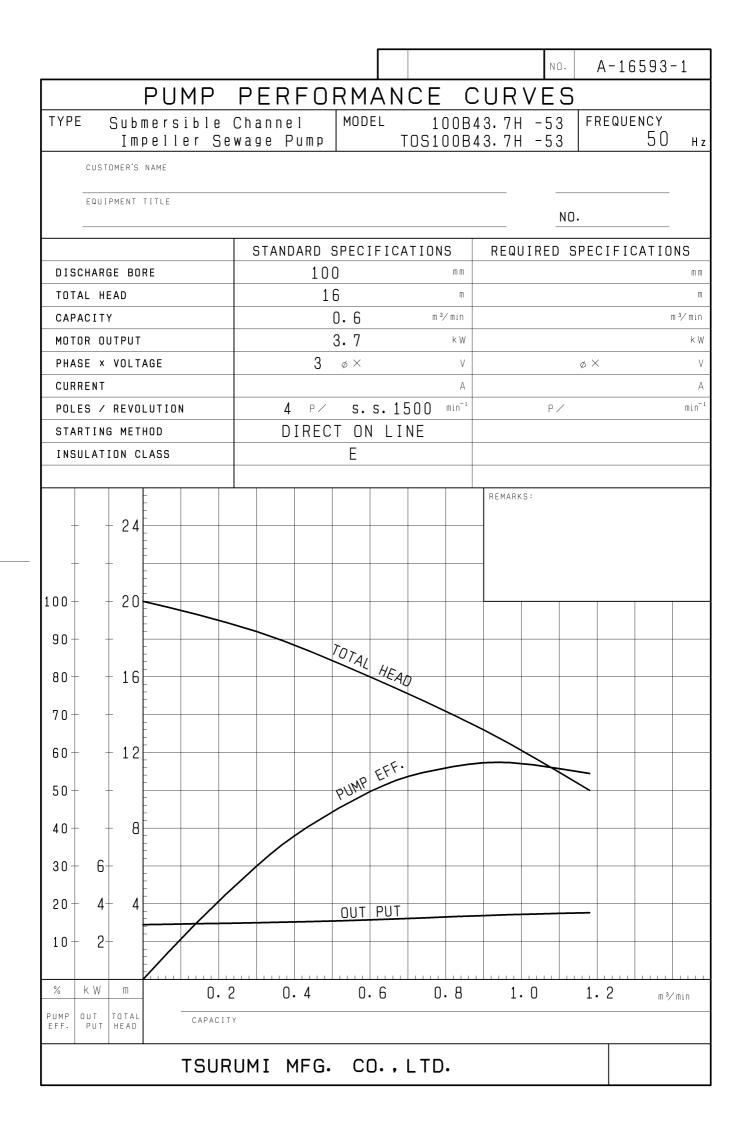
- Discharge Bend
- JIS 10kg/cm<sup>2</sup> Screwed Flange

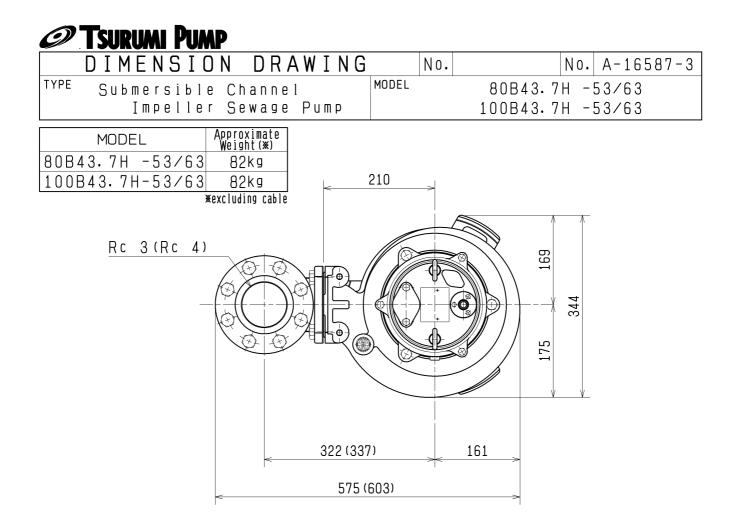
## TOS/TS Set (Guide Rail Fitting Type)

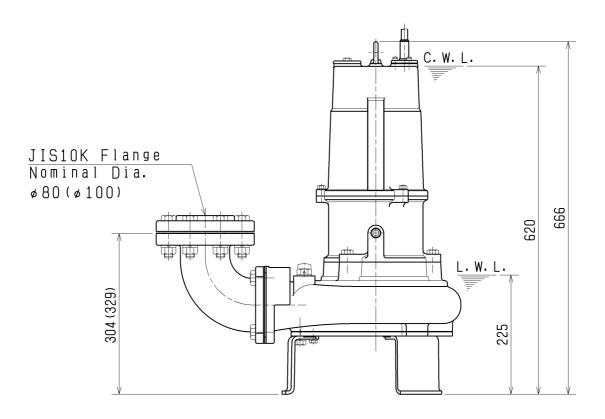
- Duckfoot Bend
- Guide Support
- Guide Hook
- Lifting Chain 5m (with Shackles)
- JIS 10kg/cm<sup>2</sup> Screwed Flange (TOS Set only)

**External Leakage Sensor** 

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The Figure in ( ) shows the dimensions of discharge Bore at Nominal \$100.

C.W.L.:Continuous running Water Level L.W.L.:Lowest running Water Level

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|      | <b>Surumi Pump</b><br>Bectional | DRAWING            | Νο.   | No. A-16588-3                       |
|------|---------------------------------|--------------------|-------|-------------------------------------|
| ТҮРЕ | Sewage Submer<br>Channel Impe   | sible<br>ller Pump | MODEL | 80B43.7H -53/63<br>100B43.7H -53/63 |
|      |                                 |                    |       |                                     |

|            |                   |       | 0                     |     |                 | REQ. SPECIFICATION |                           |  |
|------------|-------------------|-------|-----------------------|-----|-----------------|--------------------|---------------------------|--|
| <u>* t</u> | he wetted part    |       |                       |     |                 |                    |                           |  |
| No.        | DESCRIPTION       | Q' TY | MATERIAL / NOTE       | No. | DESCRIPTION     | Q' TY              | MATERIAL / NOTE           |  |
| 1          | Cabtyre Cable     | 1     | PVC Sheath            | 48  | Screwed Flange  | 1                  | Gray Iron Casting         |  |
| 20         | Pump Casing       | 1     | Gray Iron Casting     | 52A | Upper Bearing   | 1                  | 6304ZZC3                  |  |
| 21         | Impeller          | 1     | Gray Iron Casting     | 52B | Lower Bearing   | 1                  | 6309ZZC3                  |  |
| 22         | Suction Cover     | 1     | Gray Iron Casting     | 53  | Motor Protector | 1                  |                           |  |
| 23         | Stand             | 3     | Steel Plate           | 54  | Shaft           | 1                  | Stainless Steel 420J2(**) |  |
| 25         | Mechanical Seal   | 1     | H-35A                 | 55  | Rotor           | 1                  |                           |  |
| 26         | Oil Seal          | 1     | TC507212              | 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        | 2                  | Stainless Steel 304       |  |
| 37         | Discharge Bend    | 1     | Gray Iron Casting     |     |                 |                    |                           |  |
| 46         | Air Release Valve | 1     | Nylon                 |     |                 |                    |                           |  |

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