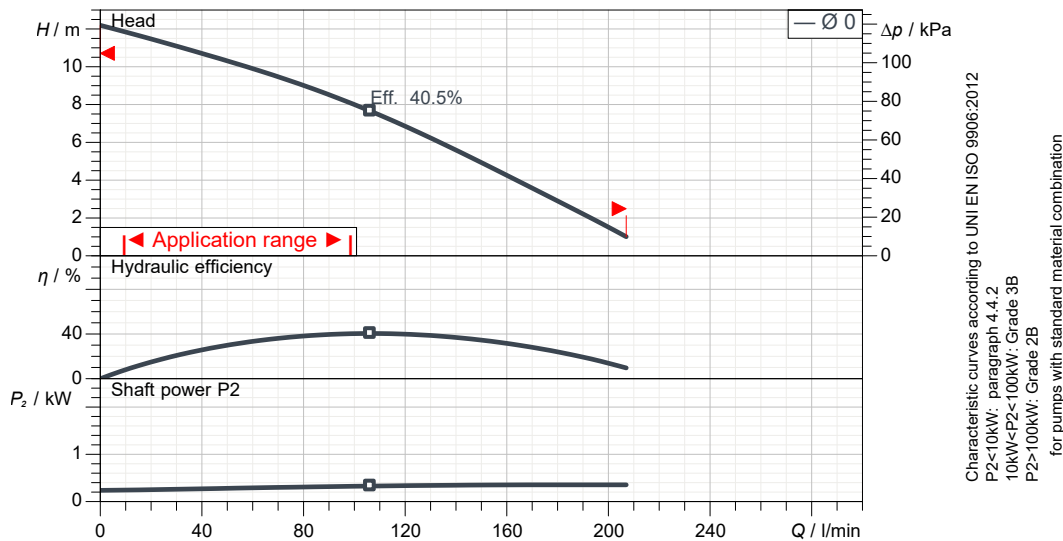


## Technical specification

**1~ 50 Hz**


### Pump

|           |                    |
|-----------|--------------------|
| Series    | HS                 |
| Pump name | HS2.4S-53 220-240V |
| Standard  |                    |

### Motor data

|                   |                      |
|-------------------|----------------------|
| Motor             | HWE-2D 0.4-2 HS 240V |
| Rated voltage     | 220 V                |
| Frequency         | 50 Hz                |
| Motor phases      | 1~                   |
| Number of poles   | 2                    |
| Rated power $P_2$ | 0.40 kW              |

|               |            |
|---------------|------------|
| Rated current | 2.7 A      |
| rpm           | 2723 1/min |
| Rated torque  | 1.4 Nm     |
| Start*        |            |

|                      |                     |
|----------------------|---------------------|
| Degree of protection | IP 68               |
| Insulation class     | E                   |
| Protection device    | Miniature protector |
| Type of oil          | Turbine oil VG32    |
| Oil amount           | 0.16                |

### Hydraulic

|                           |                      |
|---------------------------|----------------------|
| Free passage              |                      |
| Impeller type             | Vortex impeller      |
| Max. hydraulic efficiency | 40.5 %               |
| Discharge                 | 50 mm                |
| Curve tolerance           | UNI EN ISO 9906:2012 |

### Operating limits (standard pumps)

|                                           |                        |
|-------------------------------------------|------------------------|
| Max. liquid temperature                   | 40 °C                  |
| Max. density treated liquid               | 1030 kg/m <sup>3</sup> |
| pH treated liquid                         | 5-9                    |
| Max. start per hour (equally distributed) | 10                     |
| Wet/dry use                               | WET                    |
| Operating mode                            | S1                     |

### Construction materials

|                 |                          |
|-----------------|--------------------------|
| Motor enclosure | Aluminium Die Casting 12 |
| Shaft           | 403 Stainless Steel      |
| Pump Casing     | Gray Iron Casting 200    |
| Impeller        | Urethane rubber          |
| Suction Cover   | N/A                      |
| Suction plate   | N/A                      |
| Painting        | -                        |
| Screws          | SWRM                     |
| Gaskets         | NBR                      |

### Construction features

|                  |                        |
|------------------|------------------------|
| Power cable1     | 3C*1.25mm <sup>2</sup> |
| Power cable2     | N/A                    |
| Sheath           | VCT                    |
| Control cable    | N/A                    |
| Sheath           | N/A                    |
| Cable length*    | 5                      |
| Mechanical seals | W-14VCA                |
| Weight**         | 11.3 kg                |

\* Please inquire about cable extensions  
 \*\* cable's weight not included

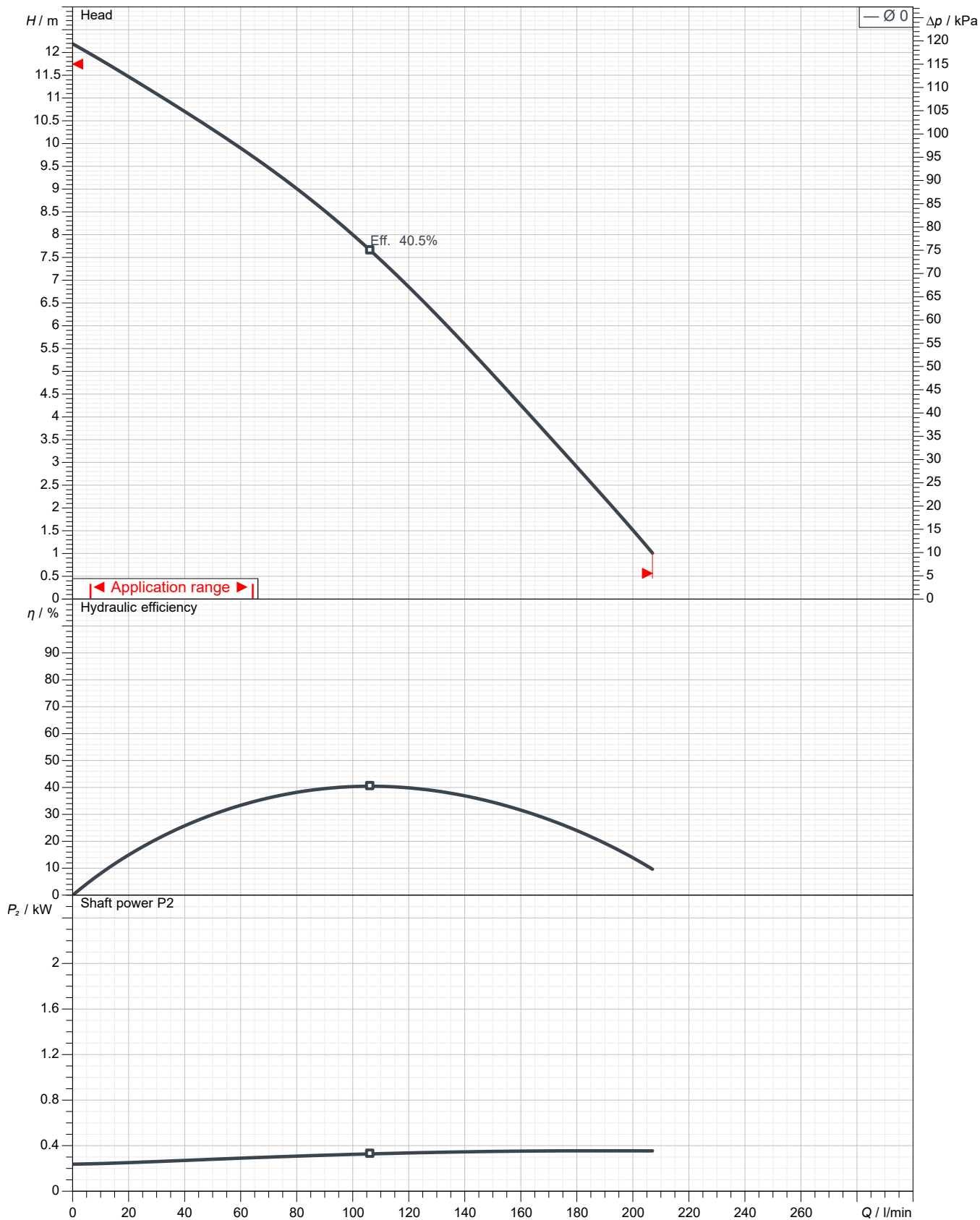
### Monitoring features

|                        |  |
|------------------------|--|
| Monitoring option      |  |
| leaking sensor -       |  |
| monitoring equipment - |  |

## Pump performance curves

**3 ~ 50 Hz**

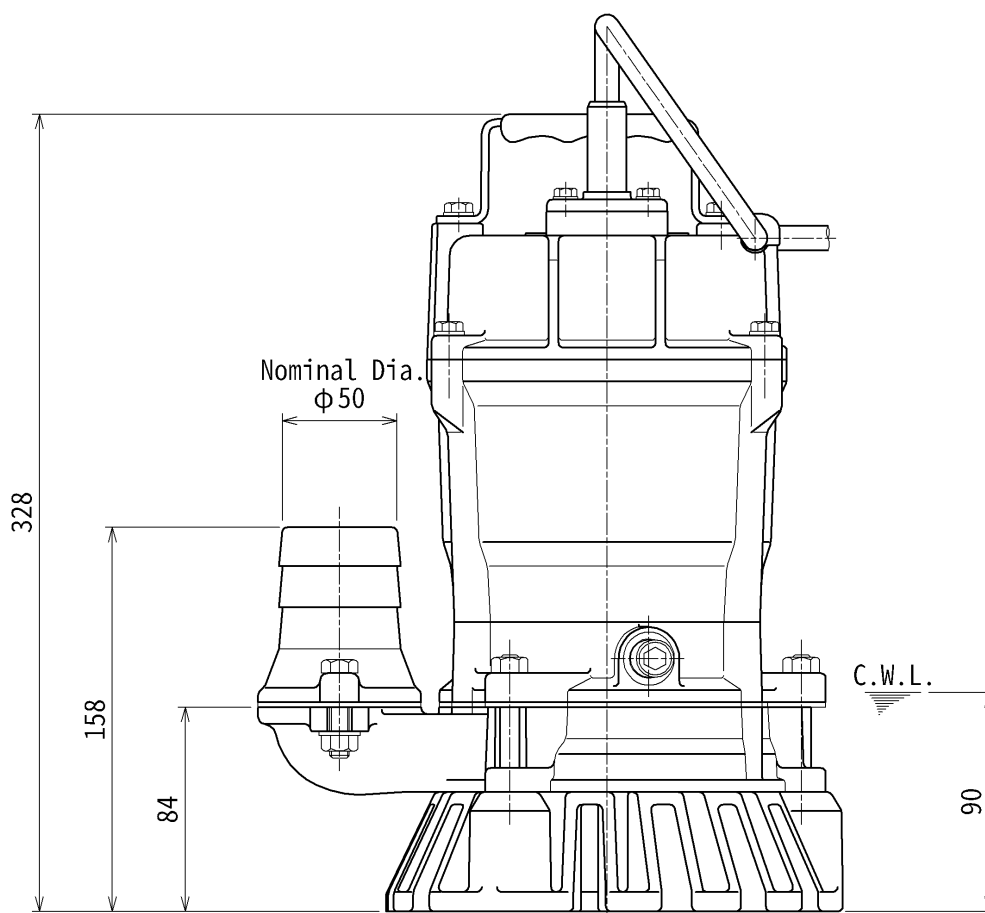
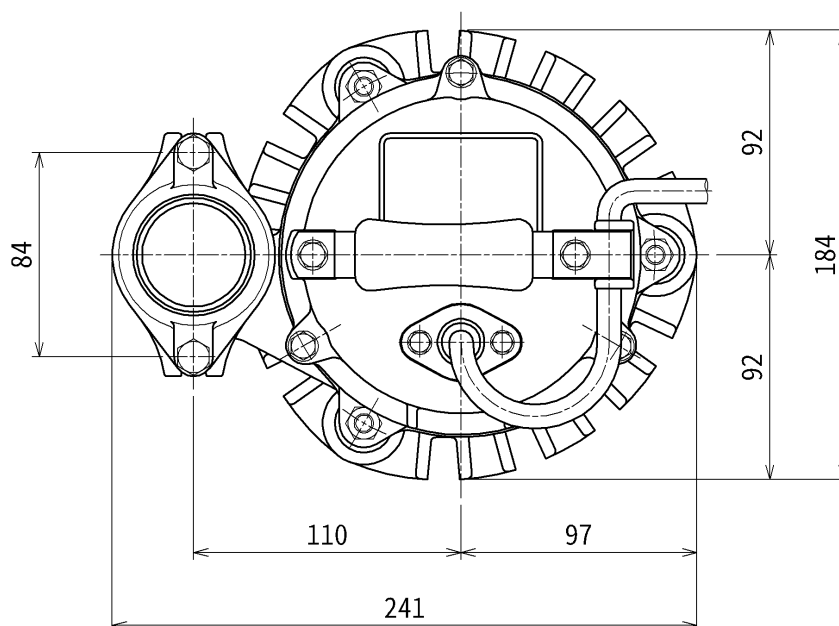
| Discharge<br>50 mm | Head | Capacity | Rated power<br>0.4 kW | Voltage<br>220 V | Current<br>2.7 A | rpm<br>2723 1/min |
|--------------------|------|----------|-----------------------|------------------|------------------|-------------------|
|--------------------|------|----------|-----------------------|------------------|------------------|-------------------|



|                                              |  |                  |  |     |            |
|----------------------------------------------|--|------------------|--|-----|------------|
| DIMENSION DRAWING                            |  | No.              |  | No. | A-09152-55 |
| TYPE Submersible Portable<br>Dewatering Pump |  | MODEL HS2.4S -53 |  |     |            |

|                          |
|--------------------------|
| Approximate<br>Weight(※) |
| 11.3kg                   |

※excluding cable

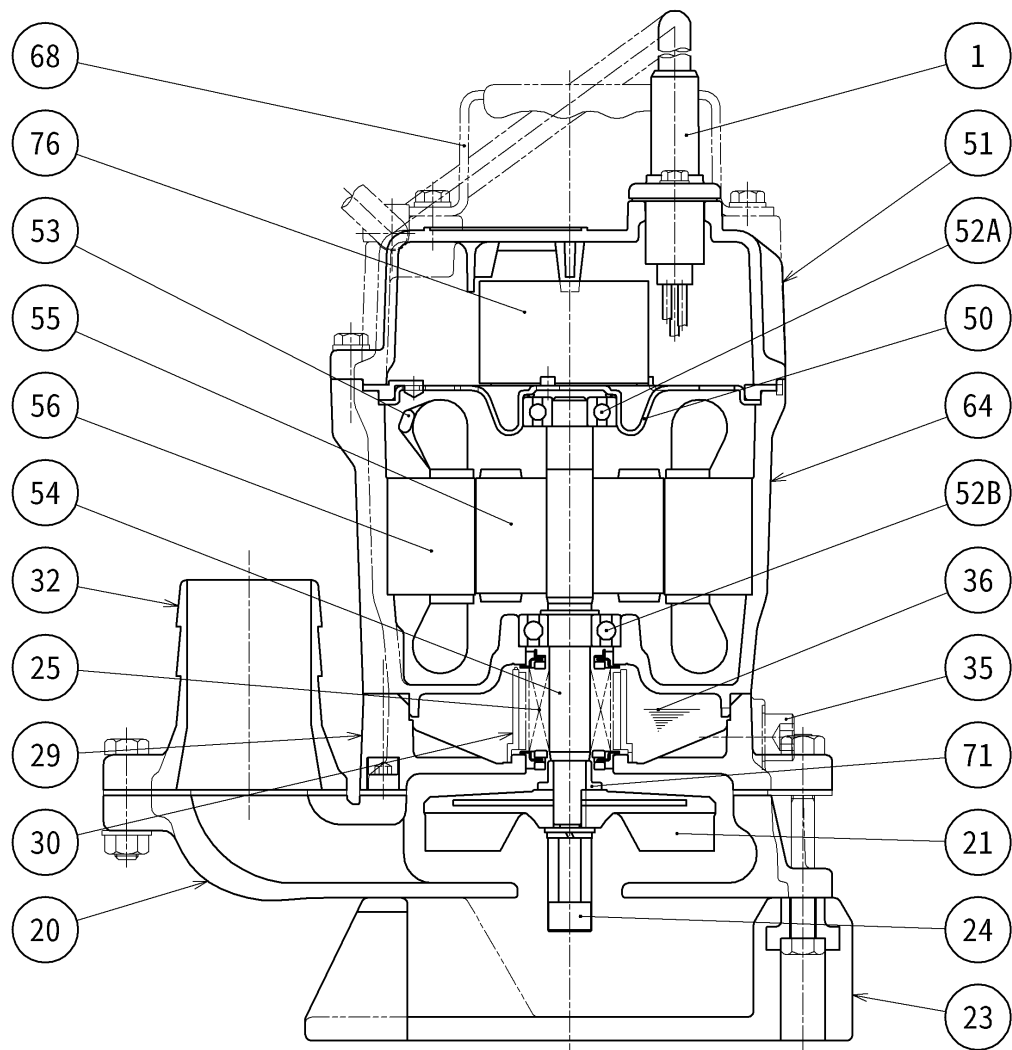


C.W.L.:Continuous running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

|                   |                                         |  |       |            |     |            |
|-------------------|-----------------------------------------|--|-------|------------|-----|------------|
| SECTIONAL DRAWING |                                         |  | No.   |            | No. | A-31639-15 |
| TYPE              | Submersible Portable<br>Dewatering Pump |  | MODEL | HS2.4S -53 |     |            |



REQ. SPECIFICATION

| No. | DESCRIPTION      | Q'TY | MATERIAL / NOTE          | No. | DESCRIPTION     | Q'TY | MATERIAL / NOTE              |
|-----|------------------|------|--------------------------|-----|-----------------|------|------------------------------|
| 1   | Cabtyre Cable    | 1    | PVC Sheath               | 52A | Upper Bearing   | 1    | 6201ZZC3                     |
| 20  | Pump Casing      | 1    | Gray Iron Casting 200    | 52B | Lower Bearing   | 1    | 6202ZZC3                     |
| 21  | Impeller         | 1    | Urethane Rubber          | 53  | Motor Protector | 1    |                              |
| 23  | Strainer Stand   | 1    | Vinyl Chloride           | 54  | Shaft           | 1    | 403 Stainless Steel          |
| 24  | Agitator         | 1    | Sintered Alloy           | 55  | Rotor           | 1    |                              |
| 25  | Mechanical Seal  | 1    | W-14VCA                  | 56  | Stator          | 1    |                              |
| 29  | Oil Casing       | 1    | Gray Iron Casting 200    | 64  | Motor Frame     | 1    | Aluminium Die Casting 12     |
| 30  | Oil Lifter       | 1    | Plastic                  | 68  | Handle          | 1    | Steel Sheet & Natural Rubber |
| 32  | Hose Coupling    | 1    | Aluminium Die Casting 12 | 71  | Shaft Sleeve    | 1    | 304 Stainless Steel          |
| 35  | Oil Plug         | 1    | 304 Stainless Steel      | 76  | Capacitor       | 1    |                              |
| 36  | Lubricant        |      | Turbine Oil(ISO VG32)    |     |                 |      |                              |
| 50  | Motor Bracket    | 1    | Steel Sheet              |     |                 |      |                              |
| 51  | Motor Head Cover | 1    | Aluminium Die Casting 12 |     |                 |      |                              |