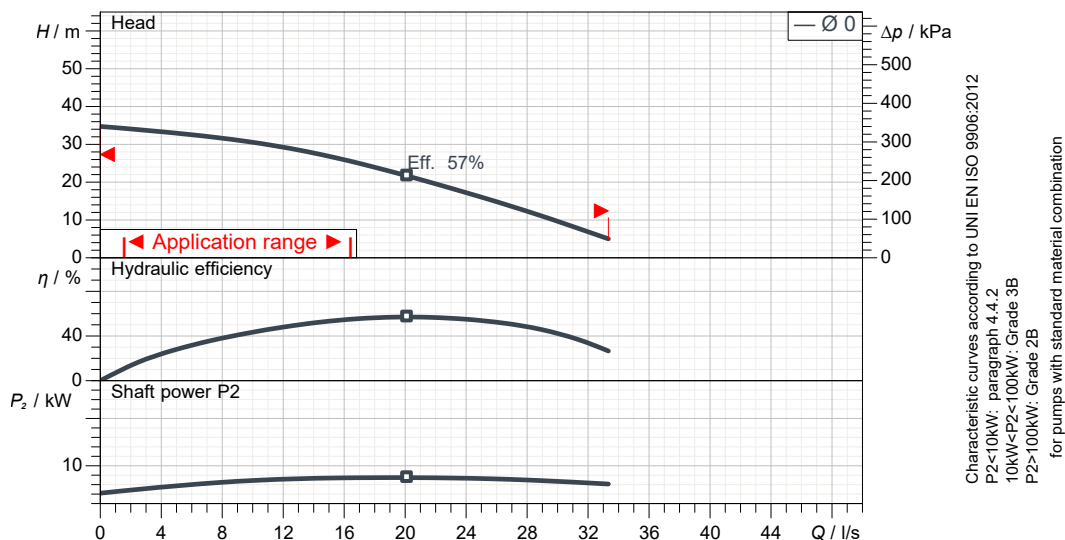


**80SFQ27.5-53 380-415V**
**Technical specification**
**3~ 50 Hz**

**Pump**

|           |                       |
|-----------|-----------------------|
| Series    | SFQ                   |
| Pump name | 80SFQ27.5-53 380-415V |
| Standard  |                       |

**Motor data**

|                 |                 |
|-----------------|-----------------|
| Motor           | SM1-2-7.5-SFQ D |
| Rated voltage   | 380 V           |
| Frequency       | 50 Hz           |
| Motor phases    | 3~              |
| Number of poles | 2               |
| Rated power P2  | 7.50 kW         |
| Rated current   | 14.8 A          |
| rpm             | 2945 1/min      |
| Rated torque    | 24.3 Nm         |
| Start*          | Direct starting |

|                      |                          |
|----------------------|--------------------------|
| Degree of protection | IP 68                    |
| Insulation class     | F                        |
| Protection device    | Circle thermal protector |
| Type of oil          | Turbine oil VG32         |
| Oil amount           | 2.25                     |

**Hydraulic**

|                           |                      |
|---------------------------|----------------------|
| Free passage              | 23 mm                |
| Impeller type             | Semi-open impeller   |
| Max. hydraulic efficiency | 57.0 %               |
| Discharge                 | 80 mm                |
| Curve tolerance           | UNI EN ISO 9906:2012 |

**Operating limits (standard pumps)**

|                                           |            |
|-------------------------------------------|------------|
| Max. liquid temperature                   | 40 °C      |
| Max. density treated liquid               | 1030 kg/m³ |
| pH treated liquid                         | 3-10       |
| Max. start per hour (equally distributed) | 4          |
| Wet/dry use                               | WET        |
| Operating mode                            | S1         |

**Construction materials**

|                 |                                   |
|-----------------|-----------------------------------|
| Motor enclosure | 316 Stainless Steel Casting       |
| Shaft           | 316 Stainless Steel (wetted part) |
| Pump Casing     | 316 Stainless Steel Casting       |
| Impeller        | 316 Stainless Steel Casting       |
| Suction Cover   | 316 Stainless Steel Casting       |
| Suction plate   | N/A                               |
| Painting        | N/A                               |
| Screws          | 316 Stainless Steel               |
| Gaskets         | FKM                               |

**Construction features**

|                  |           |
|------------------|-----------|
| Power cable1     | 4C*5.5mm2 |
| Power cable2     | N/A       |
| Sheath           | 2PNCT     |
| Control cable    | N/A       |
| Sheath           | N/A       |
| Cable length*    | 8         |
| Mechanical seals | X-30W     |
| Weight**         | 128 kg    |

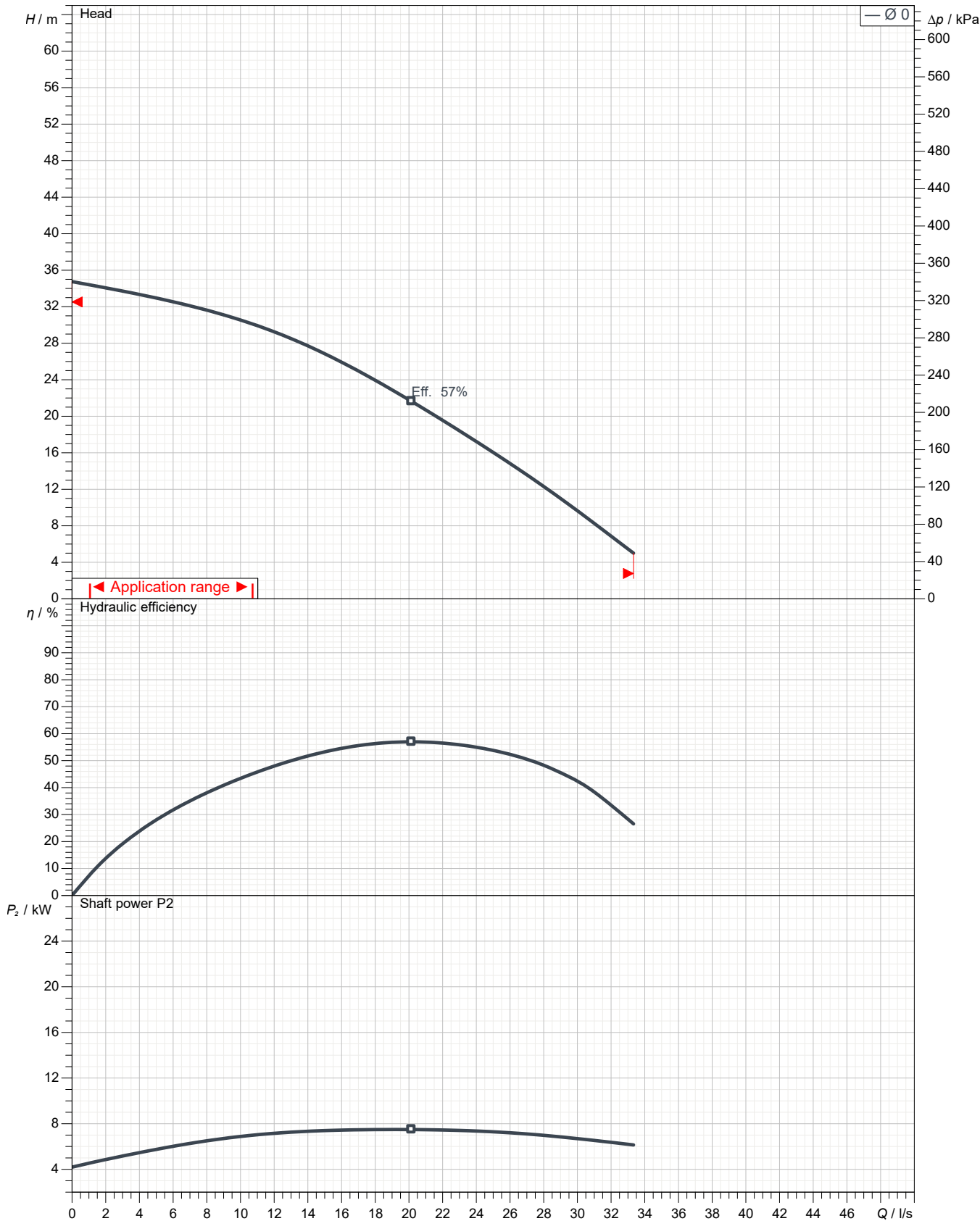
\* Please inquire about cable extensions  
 \*\* cable's weight not included

**Monitoring features**

|                        |     |
|------------------------|-----|
| Monitoring option      |     |
| leaking sensor -       | N/A |
| monitoring equipment - |     |

**3 ~ 50 Hz**

|                           |             |                 |                              |                         |                          |                          |
|---------------------------|-------------|-----------------|------------------------------|-------------------------|--------------------------|--------------------------|
| <b>Discharge</b><br>80 mm | <b>Head</b> | <b>Capacity</b> | <b>Rated power</b><br>7.5 kW | <b>Voltage</b><br>380 V | <b>Current</b><br>14.8 A | <b>rpm</b><br>2945 1/min |
|---------------------------|-------------|-----------------|------------------------------|-------------------------|--------------------------|--------------------------|



Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination

P2<10kW: paragraph 4.4.2

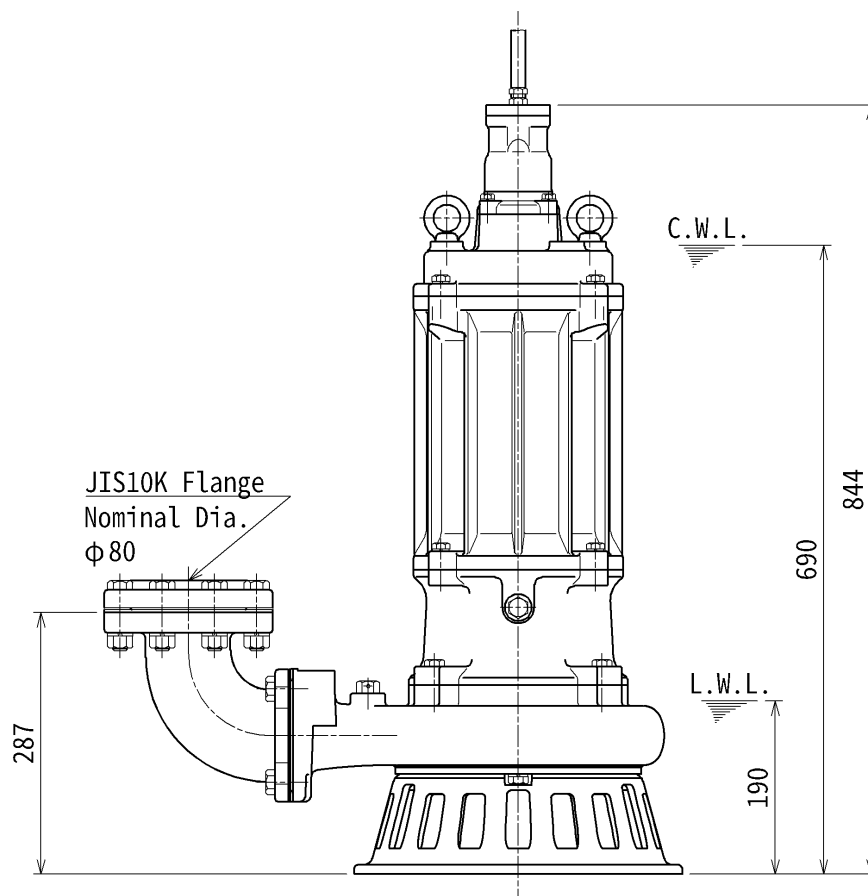
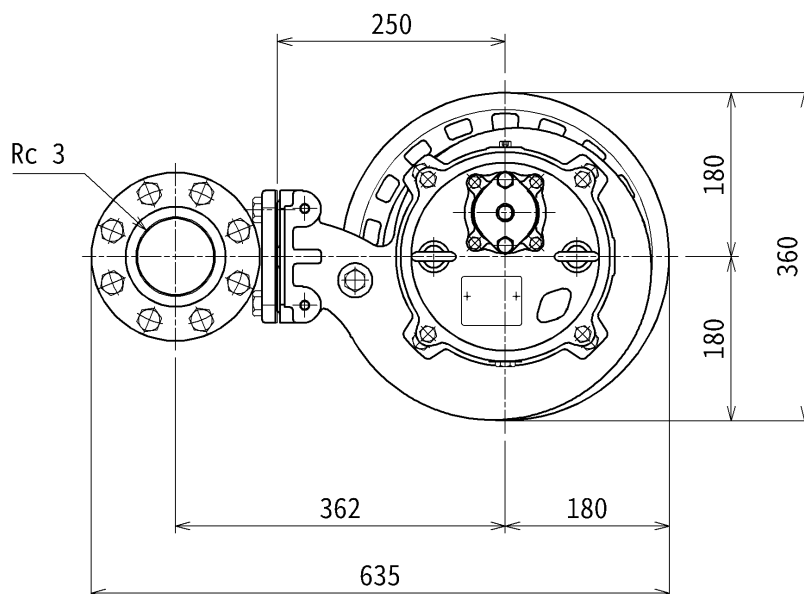
10kW<P2<100kW: Grade 3B

P2>100kW: Grade 2B

|                                                       |  |                     |  |     |             |
|-------------------------------------------------------|--|---------------------|--|-----|-------------|
| DIMENSION DRAWING                                     |  | No.                 |  | No. | A-24975-25J |
| TYPE Submersible Cast Stainless Steel Wastewater Pump |  | MODEL 80SFQ27.5 -53 |  |     |             |

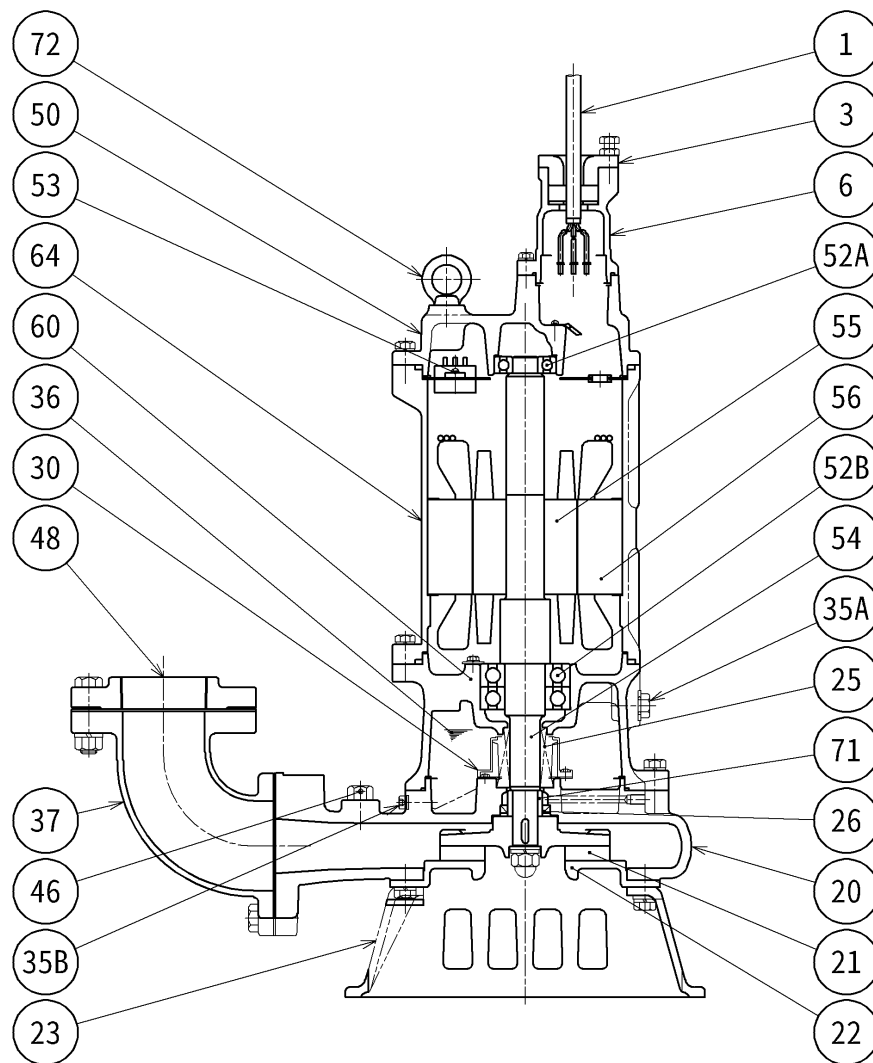
|                       |
|-----------------------|
| Approximate Weight(※) |
| 128kg                 |

※excluding cable



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

|                                                       |  |                     |                 |
|-------------------------------------------------------|--|---------------------|-----------------|
| SECTIONAL DRAWING                                     |  | No.                 | No. A-24977-35J |
| TYPE Submersible Cast Stainless Steel Wastewater Pump |  | MODEL 80SFQ27.5 -53 |                 |



# REQ. SPECIFICATION

※1 the wetted part

| No. | DESCRIPTION       | Q'TY | MATERIAL / NOTE             | No. | DESCRIPTION     | Q'TY | MATERIAL / NOTE             |
|-----|-------------------|------|-----------------------------|-----|-----------------|------|-----------------------------|
| 1   | Cabtyre Cable     | 1    | Chloroprene Sheath          | 48  | Screwed Flange  | 1    | 316 Stainless Steel Casting |
| 3   | Gland             | 1    | 316 Stainless Steel Casting | 50  | Motor Bracket   | 1    | 316 Stainless Steel Casting |
| 6   | Stuffing Box      | 1    | 316 Stainless Steel Casting | 52A | Upper Bearing   | 1    | 6305ZZC3                    |
| 20  | Pump Casing       | 1    | 316 Stainless Steel Casting | 52B | Lower Bearing   | 1    | 6308ZZD2C3                  |
| 21  | Impeller          | 1    | 316 Stainless Steel Casting | 53  | Motor Protector | 1    |                             |
| 22  | Suction Cover     | 1    | 316 Stainless Steel Casting | 54  | Shaft           | 1    | 316 Stainless Steel(※1)     |
| 23  | Strainer Stand    | 1    | 316 Stainless Steel Casting | 55  | Rotor           | 1    |                             |
| 25  | Mechanical Seal   | 1    | X-30W                       | 56  | Stator          | 1    |                             |
| 26  | Oil Seal          | 1    | TC35508                     | 60  | Bearing Housing | 1    | 316 Stainless Steel Casting |
| 30  | Oil Lifter        | 1    | Plastic                     | 64  | Motor Frame     | 1    | 316 Stainless Steel Casting |
| 35A | Oil Plug          | 1    | 316 Stainless Steel         | 71  | Shaft Sleeve    | 1    | 316 Stainless Steel         |
| 35B | Oil Plug          | 1    | 316 Stainless Steel         | 72  | Eyebolt         | 2    | 316 Stainless Steel         |
| 36  | Lubricant         |      | Turbine Oil(ISO VG32)       |     |                 |      |                             |
| 37  | Discharge Bend    | 1    | 316 Stainless Steel Casting |     |                 |      |                             |
| 46  | Air Release Valve | 1    | 316 Stainless Steel         |     |                 |      |                             |