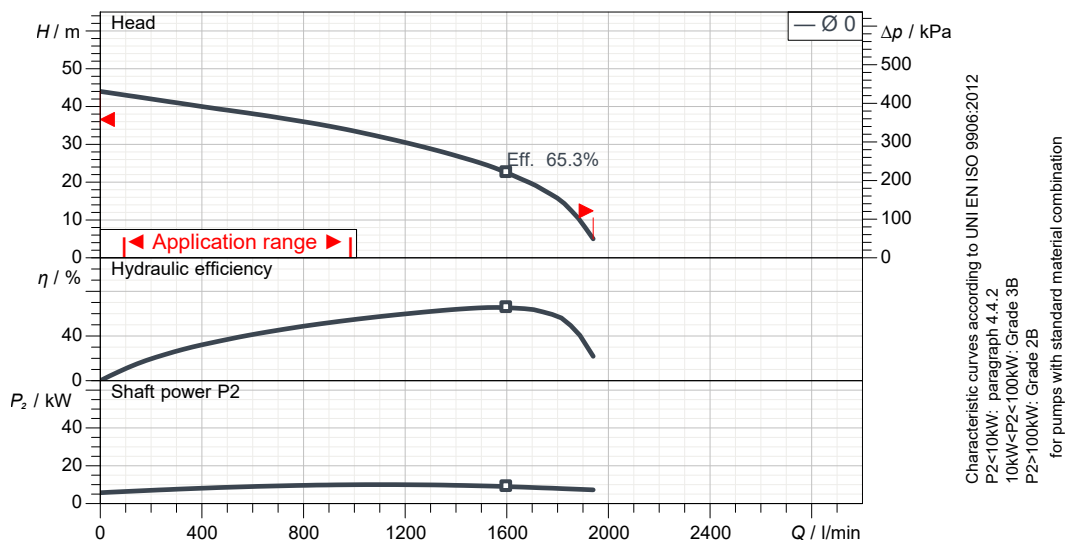


**80SFQ211-53 380-415V**
**Technical specification**
**3~ 50 Hz**

**Pump**

|           |                      |
|-----------|----------------------|
| Series    | SFQ                  |
| Pump name | 80SFQ211-53 380-415V |
| Standard  |                      |

**Motor data**

|                 |                |
|-----------------|----------------|
| Motor           | SM1-2-11-SFQ D |
| Rated voltage   | 380 V          |
| Frequency       | 50 Hz          |
| Motor phases    | 3~             |
| Number of poles | 2              |
| Rated power P2  | 11.00 kW       |
| Rated current   | 22.5 A         |
| rpm             | 2935 1/min     |
| Rated torque    | 35.8 Nm        |
| Start*          | Star-delta     |

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

**Hydraulic**

|                           |                      |
|---------------------------|----------------------|
| Free passage              | 23 mm                |
| Impeller type             | Semi-open impeller   |
| Max. hydraulic efficiency | 65.3 %               |
| 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/m <sup>3</sup> |
| 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*3.5mm <sup>2</sup>  |
| Power cable2     | 3C*3.5mm <sup>2</sup>  |
| Sheath           | 2PNCT                  |
| Control cable    | 2C*1.25mm <sup>2</sup> |
| Sheath           | 2PNCT                  |
| Cable length*    | 8                      |
| Mechanical seals | X-30W                  |
| Weight**         | 148 kg                 |

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

**Monitoring features**

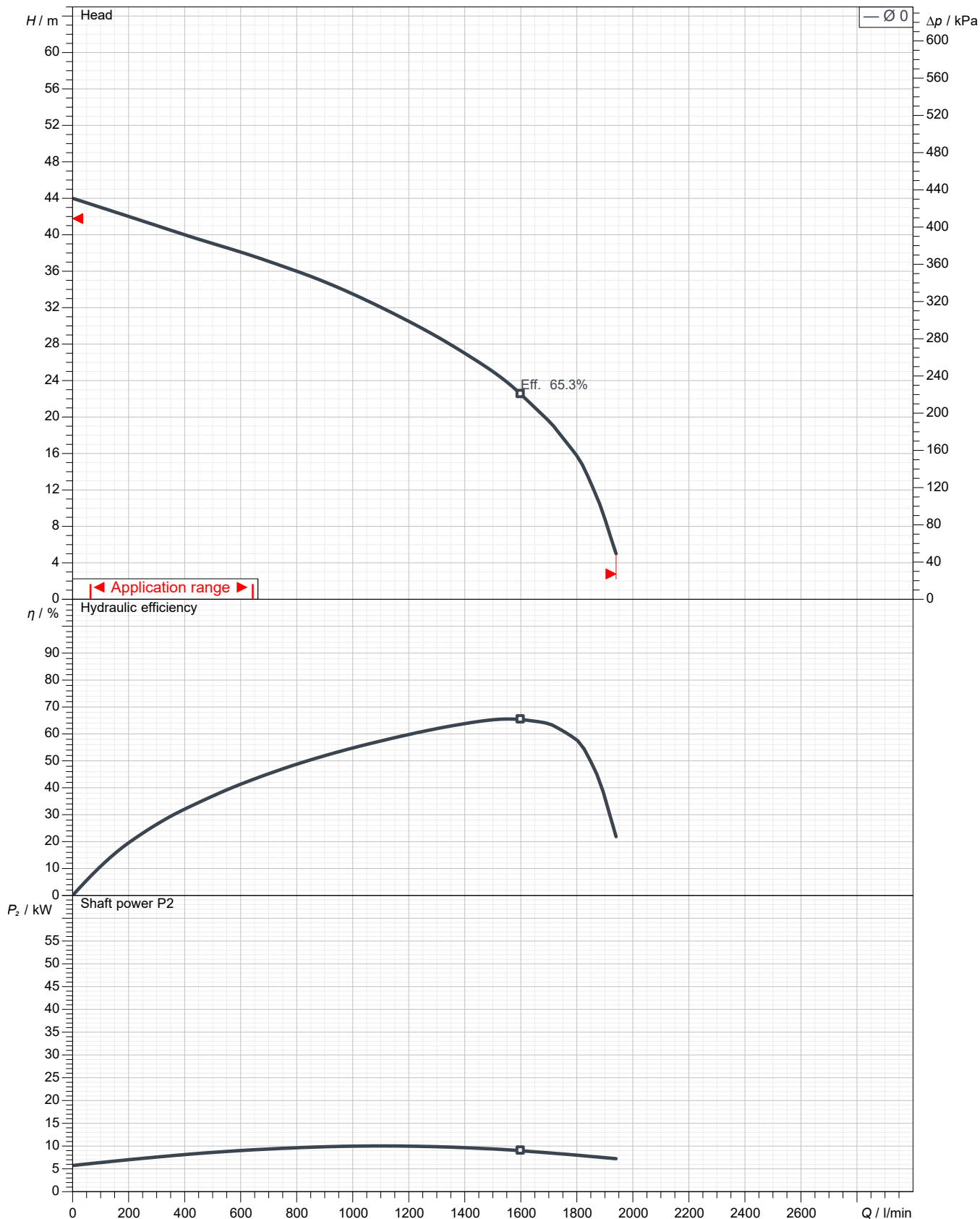
|                        |     |
|------------------------|-----|
| Monitoring option      |     |
| leaking sensor -       | N/A |
| monitoring equipment - | N/A |

# 80SFQ211-53 380-415V

## Pump performance curves

3 ~ 50 Hz

| Discharge | Head | Capacity | Rated power | Voltage | Current | rpm        |
|-----------|------|----------|-------------|---------|---------|------------|
| 80 mm     |      |          | 11.0 kW     | 380 V   | 22.5 A  | 2935 1/min |

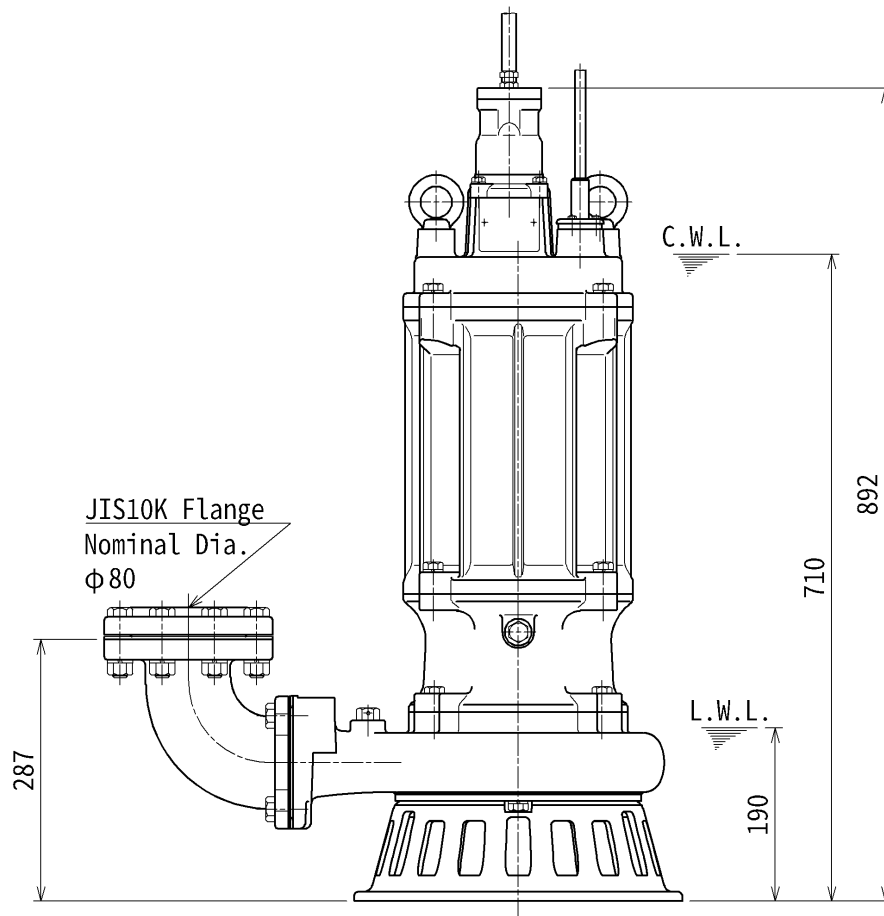
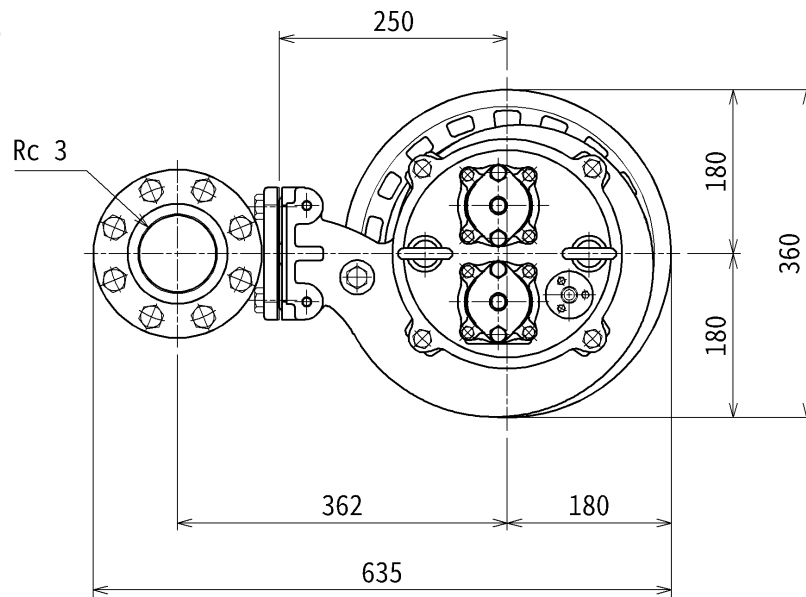


Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination  
P2<10kW: paragraph 4.4.2  
10kW<P2<100kW: Grade 3B  
P2>100kW: Grade 2B

|                                                       |  |                    |  |     |            |
|-------------------------------------------------------|--|--------------------|--|-----|------------|
| DIMENSION DRAWING                                     |  | No.                |  | No. | A-24976-25 |
| TYPE Submersible Cast Stainless Steel Wastewater Pump |  | MODEL 80SFQ211 -53 |  |     |            |

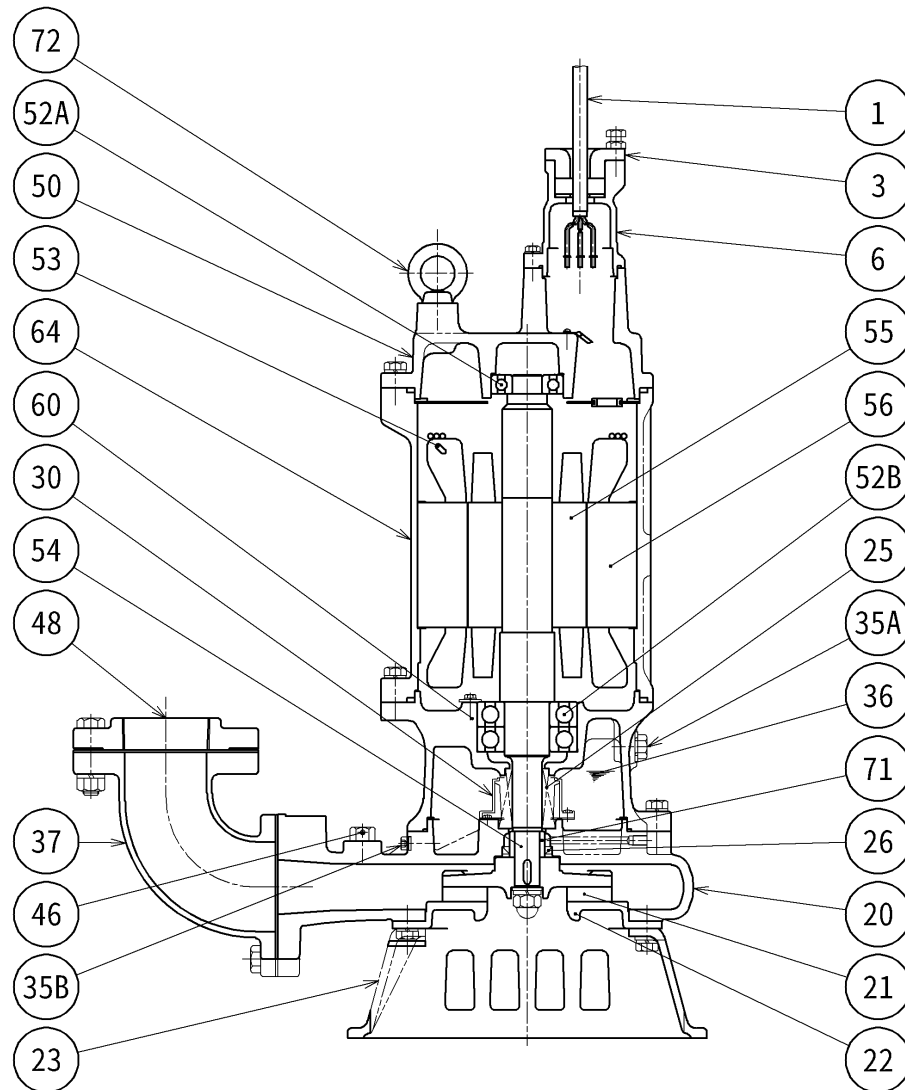
|                       |
|-----------------------|
| Approximate Weight(※) |
| 148kg                 |

※excluding cable



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

|                                                       |  |                    |  |     |            |
|-------------------------------------------------------|--|--------------------|--|-----|------------|
| SECTIONAL DRAWING                                     |  | No.                |  | No. | A-24979-45 |
| TYPE Submersible Cast Stainless Steel Wastewater Pump |  | MODEL 80SFQ211 -53 |  |     |            |



# REQ. SPECIFICATION

※1 the wetted part

| No. | DESCRIPTION       | Q'TY | MATERIAL / NOTE             | No. | DESCRIPTION     | Q'TY | MATERIAL / NOTE             |
|-----|-------------------|------|-----------------------------|-----|-----------------|------|-----------------------------|
| 1   | Cable             | 3    | Chloroprene Sheath          | 48  | Screwed Flange  | 1    | 316 Stainless Steel Casting |
| 3   | Gland             | 2    | 316 Stainless Steel Casting | 50  | Motor Bracket   | 1    | 316 Stainless Steel Casting |
| 6   | Stuffing Box      | 2    | 316 Stainless Steel Casting | 52A | Upper Bearing   | 1    | 6306ZZC3                    |
| 20  | Pump Casing       | 1    | 316 Stainless Steel Casting | 52B | Lower Bearing   | 1    | 6309ZZD2C3                  |
| 21  | Impeller          | 1    | 316 Stainless Steel Casting | 53  | Motor Protector | 3    |                             |
| 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         |     |                 |      |                             |