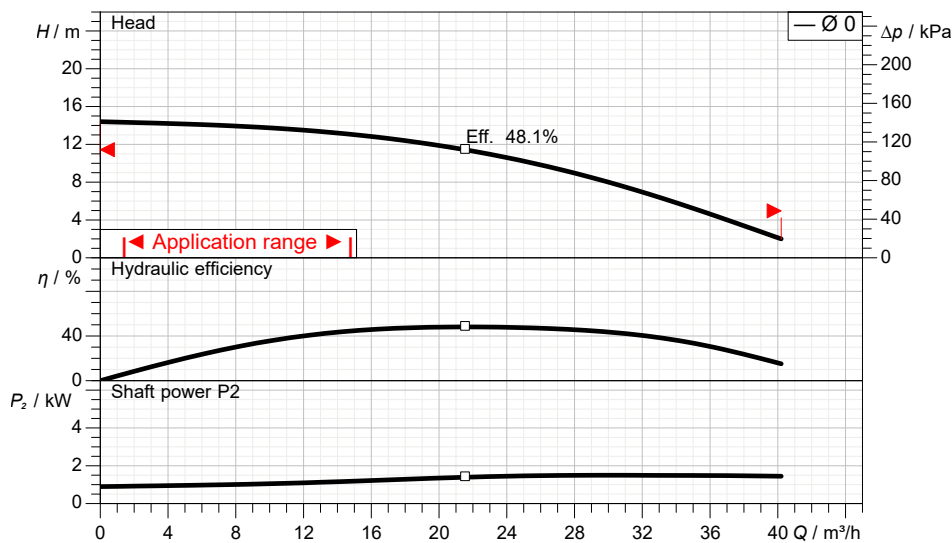


**KTZ31.5-52 380-415V**
**Technical specification**
**3~ 50 Hz**


Characteristic curves according to UNI EN ISO 9906:2012  
 P2<10kW: paragraph 4.2. 10kW<P2<100kW: Grade 3B, P2>100kW: Grade 2E  
 for pumps with standard material combination  
 Pump performance is based on tests conducted with clean water at 20 °C.

**Pump**

|           |                     |
|-----------|---------------------|
| Series    | KTZ                 |
| Pump name | KTZ31.5-52 380-415V |
| Standard  |                     |

**Motor data**

|                 |                         |
|-----------------|-------------------------|
| Motor           | JT1-2-1.5-KTZ 400V D UL |
| Rated voltage   | 380 V                   |
| Frequency       | 50 Hz                   |
| Motor phases    | 3~                      |
| Number of poles | 2                       |
| Rated power P2  | 1.5 kW                  |
| Rated current   | 3.6 A                   |
| rpm             | 2889 1/min              |
| Rated torque    | 5.0 Nm                  |
| Start*          | Direct starting         |

|                      |                  |
|----------------------|------------------|
| Degree of protection | IP 68            |
| Insulation class     | F                |
| Protection device    |                  |
| Type of oil          | Turbine oil VG32 |
| Oil amount           | 0.74 l           |

**Hydraulic**

|                           |                      |
|---------------------------|----------------------|
| Free passage              |                      |
| Impeller type             | Semi-open impeller   |
| Max. hydraulic efficiency | 48.1 %               |
| 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                         | 5-9        |
| Max. start per hour (equally distributed) | 10         |
| Wet/dry use                               | WET        |
| Operating mode                            | S1         |

**Construction materials**

|                 |                          |
|-----------------|--------------------------|
| Motor enclosure | Gray Iron Casting 150    |
| Shaft           | 420J2 Stainless Steel    |
| Pump Casing     | Gray Iron Casting 200    |
| Impeller        | High chromium casting    |
| Suction Cover   | Ductile Iron Casting 500 |
| Suction plate   | N/A                      |
| Painting        | -                        |
| Screws          | 304 Stainless Steel      |
| Gaskets         | NBR                      |

**Construction features**

|                  |            |
|------------------|------------|
| Power cable1     | 4C*1.25mm2 |
| Power cable2     | N/A        |
| Sheath           | VCT        |
| Control cable    | N/A        |
| Sheath           | N/A        |
| Cable length*    | 8 m        |
| Mechanical seals | H-20T      |
| Weight**         | 33 kg      |

\* Please inquire about cable extensions

\*\* cable's weight not included

**Monitoring features**

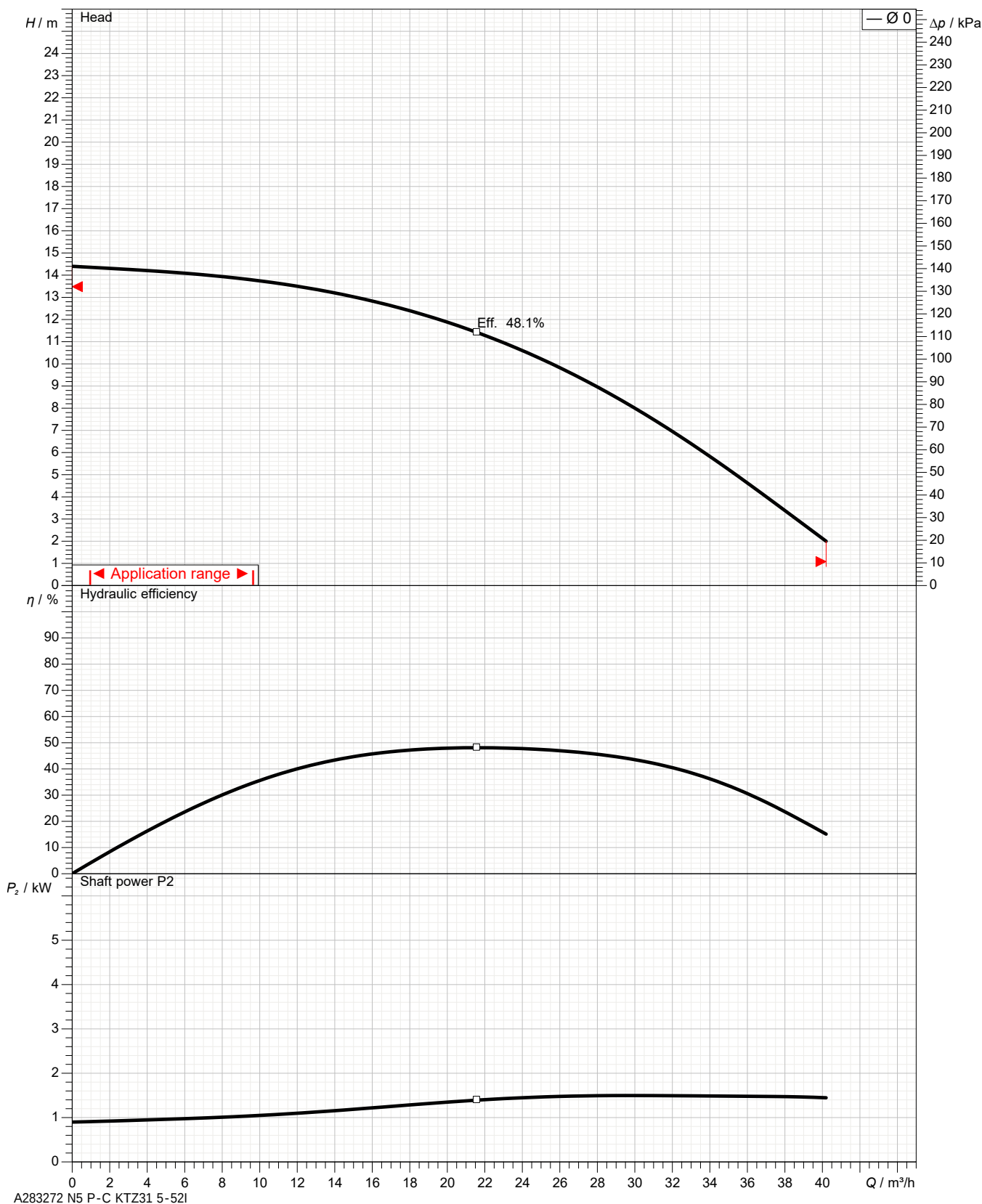
|                        |  |
|------------------------|--|
| Monitoring option      |  |
| leaking sensor -       |  |
| monitoring equipment - |  |

# KTZ31.5-52 380-415V

## Pump performance curves

3 ~ 50 Hz

| Discharge | Head | Capacity | Rated power | Voltage | Current | rpm        |
|-----------|------|----------|-------------|---------|---------|------------|
| 80 mm     |      |          | 1.5 kW      | 380 V   | 3.6 A   | 2889 1/min |



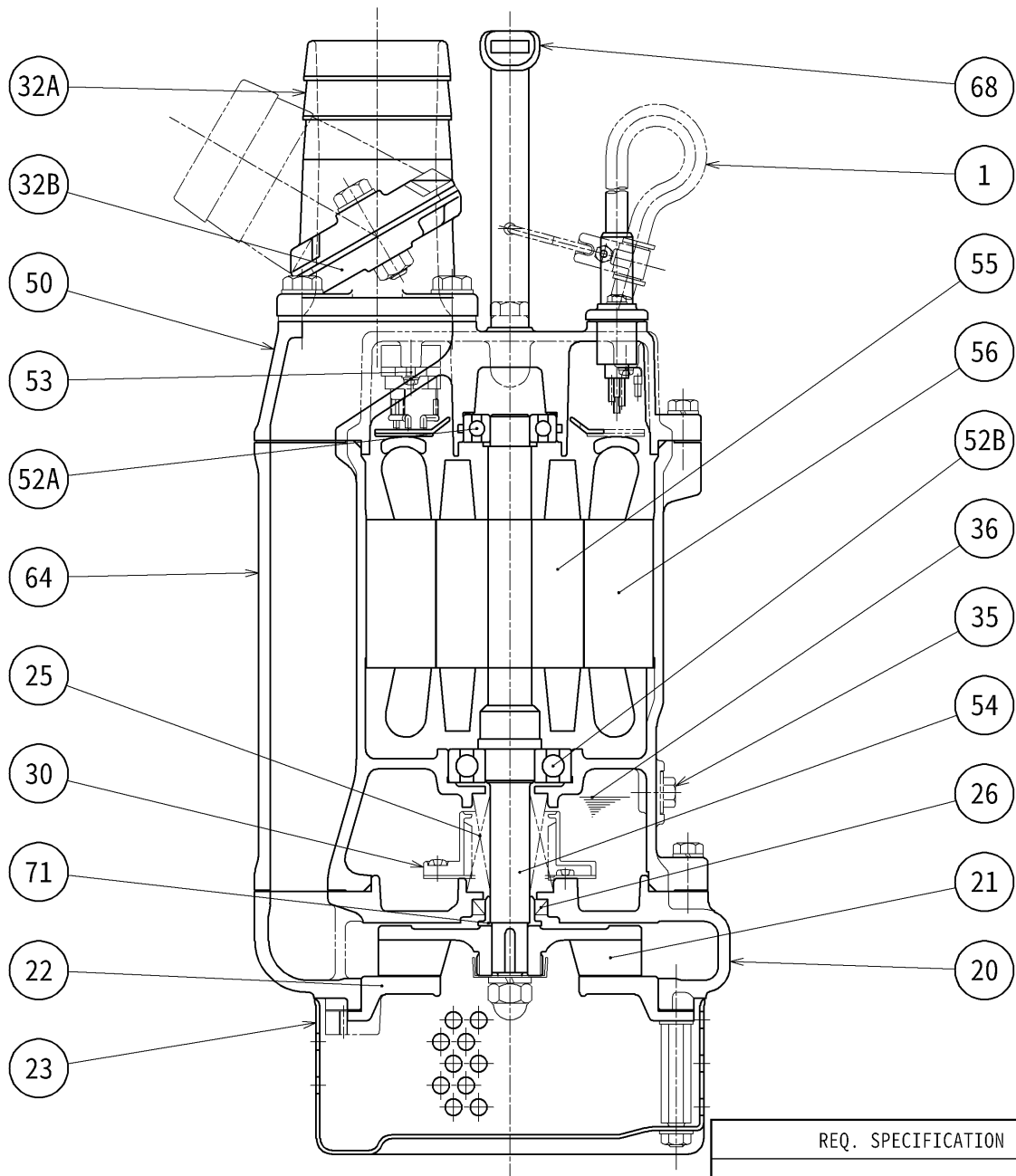
Characteristic curves according to UNI EN ISO 9906:2012 for pumps with standard material combination  
P2<10kW: paragraph 4.4.2, 10kW<P2<100kW: Grade 3B, P2>100kW: Grade 2B  
Pump performance is based on tests conducted with clean water at 20 °C.

A283272\_N5\_P-C\_KTZ31.5-52I

Created on: 2026-06-23

All data shown are not binding. Tsurumi reserves the right to change data and dimensions without notice.

|                   |                             |     |                   |
|-------------------|-----------------------------|-----|-------------------|
| SECTIONAL DRAWING |                             | No. | No. A-28341-35Y   |
| TYPE              | Submersible Dewatering Pump |     | MODEL KTZ31.5 -52 |



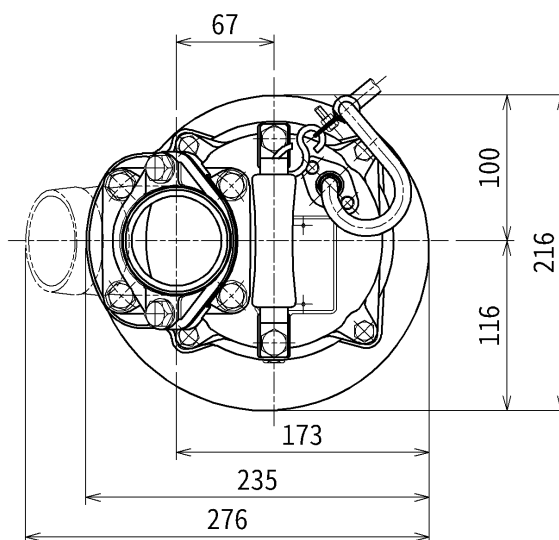
REQ. SPECIFICATION

| No. | DESCRIPTION              | Q'TY | MATERIAL / NOTE          | No. | DESCRIPTION     | Q'TY | MATERIAL / NOTE                            |
|-----|--------------------------|------|--------------------------|-----|-----------------|------|--------------------------------------------|
| 1   | Cabtyre Cable            | 1    | PVC Sheath               | 50  | Motor Bracket   | 1    | Gray Iron Casting 150                      |
| 20  | Pump Casing              | 1    | Gray Iron Casting 200    | 52A | Upper Bearing   | 1    | 6204ZZC3                                   |
| 21  | Impeller                 | 1    | Chromium Iron Casting    | 52B | Lower Bearing   | 1    | 6305ZZC3                                   |
| 22  | Suction Cover            | 1    | Ductile Iron Casting 500 | 53  | Motor Protector | 1    |                                            |
| 23  | Strainer Stand           | 1    | Steel Sheet              | 54  | Shaft           | 1    | 420J2 Stainless Steel                      |
| 25  | Mechanical Seal          | 1    | H-20T                    | 55  | Rotor           | 1    |                                            |
| 26  | Oil Seal                 | 1    | TC25388                  | 56  | Stator          | 1    |                                            |
| 30  | Oil Lifter               | 1    | Plastic                  | 64  | Motor Frame     | 1    | Gray Iron Casting 150                      |
| 32A | Hose Coupling            | 1    | Aluminium Die Casting 12 | 68  | Handle          | 1    | Stainless Steel & Nitrile Butadiene Rubber |
| 32B | Hose Coupling Attachment | 1    | Aluminium Die Casting 12 | 71  | Shaft Sleeve    | 1    | 304 Stainless Steel                        |
| 35  | Oil Plug                 | 1    | 304 Stainless Steel      |     |                 |      |                                            |
| 36  | Lubricant                |      | Turbine Oil(ISO VG32)    |     |                 |      |                                            |

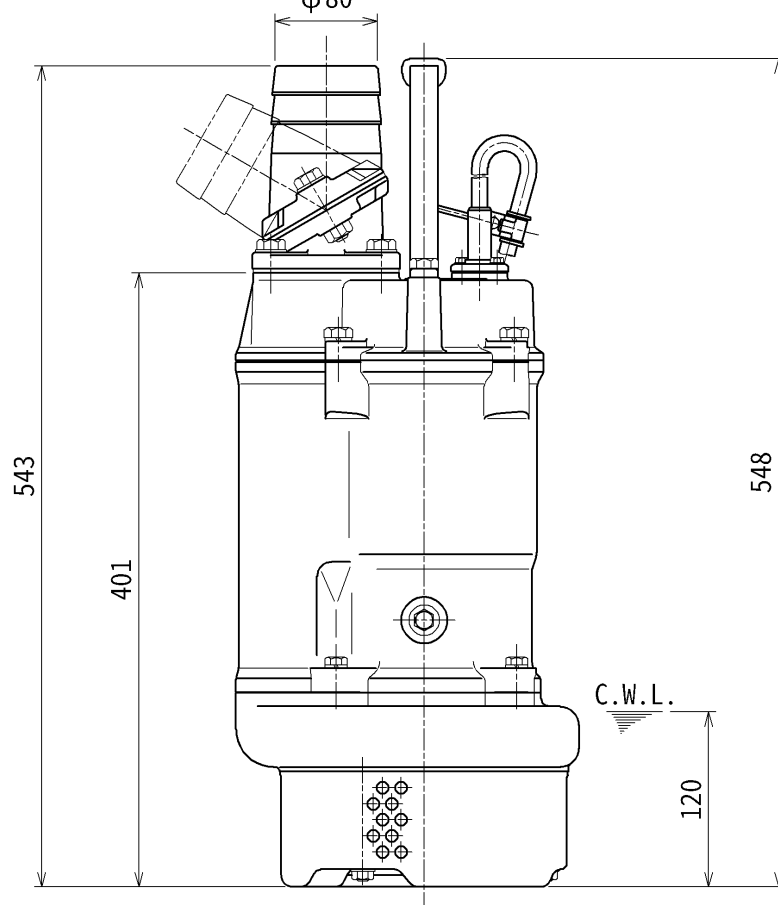
|                   |                             |     |       |             |             |
|-------------------|-----------------------------|-----|-------|-------------|-------------|
| DIMENSION DRAWING |                             | No. |       | No.         | A-28339-25Y |
| TYPE              | Submersible Dewatering Pump |     | MODEL | KTZ31.5 -52 |             |

|                       |
|-----------------------|
| Approximate Weight(※) |
| 33kg                  |

※excluding cable



Nominal Dia.  
 $\phi 80$



C.W.L.:Continuous running Water Level

TSURUMI MFG. CO., LTD.

unit:mm

Created on: 2026-06-23