

The body of motor and pump is made of rigid cast iron which can be used for long-lasting durability. Greatly increased maximum submersion depth due to mechanical seal resistant to high pressure. Due to the special design of the water passage, the water can make the motor cool down when they pass through the pump body.

The impeller and Inlet plate are made of high chrome alloy. The hardness of this material is at least 58 HR, it's more durable than other materials.

The pump can operate automatically with built-in intelligent control system, thus achieve low total energy costs.

Main advantages

- Protect against reverse phase. ensure correct impeller rotation;
- Protect against open phase or impeller jam .thus prevent accidental damage;
- Automatically stop the pump in event of overload, abnormal voltage and recovery 5 min later;
- The pump stops working at high temperature, and will automatically boots after cooling to the specified temperature;
- The water sensor's height is adjustable to control pump operation and stop;
- The pump stops working within 60s when water level is below the probe and keep downtime for 180s, after 180s. when the water level is above the probe, the pump will work again;
- Rapid assessment about the pump operation and malfunction history.



Specification

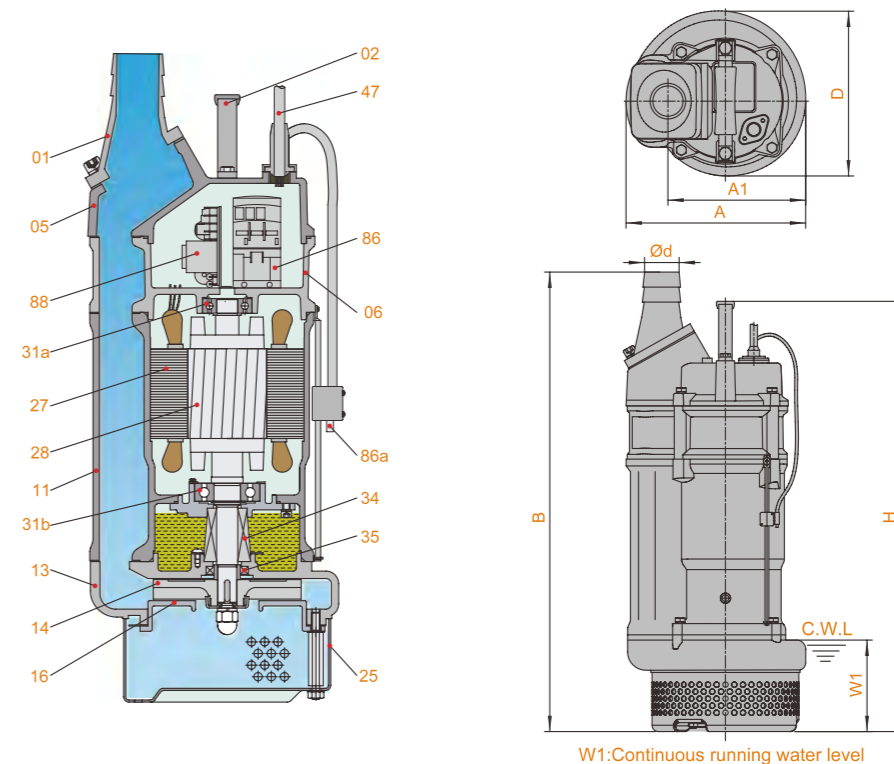
- Capacity: up to 105 m³/h
- Head: up to 38 meters
- Power: 1.5kW(2HP) to 5.5 kW (7.5HP)
- Power supply: three phase 400V±10%, 50Hz
380V±10%, 60Hz
- Insulation class: F
- Protection class: IP68
- Cable length: 8m
- Water temperature: up to 40°C
- Max. water depth: 25m

Application

- Civil engineering
- Mines, quarries, coal ore & slurries
- Sewage treatment plants
- General pumping purposes

Special features on request

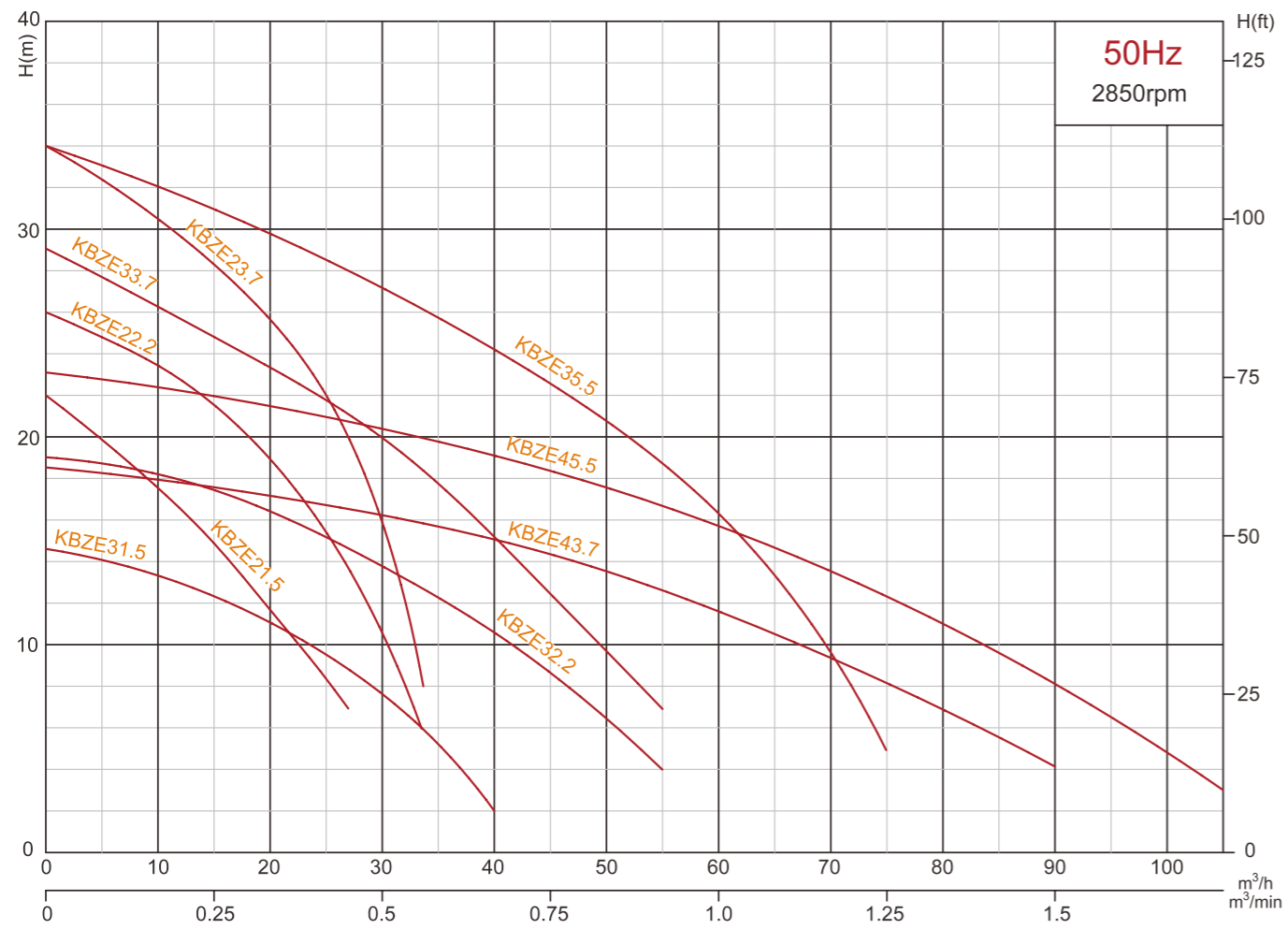
- Other voltages
- The length of cable is optional



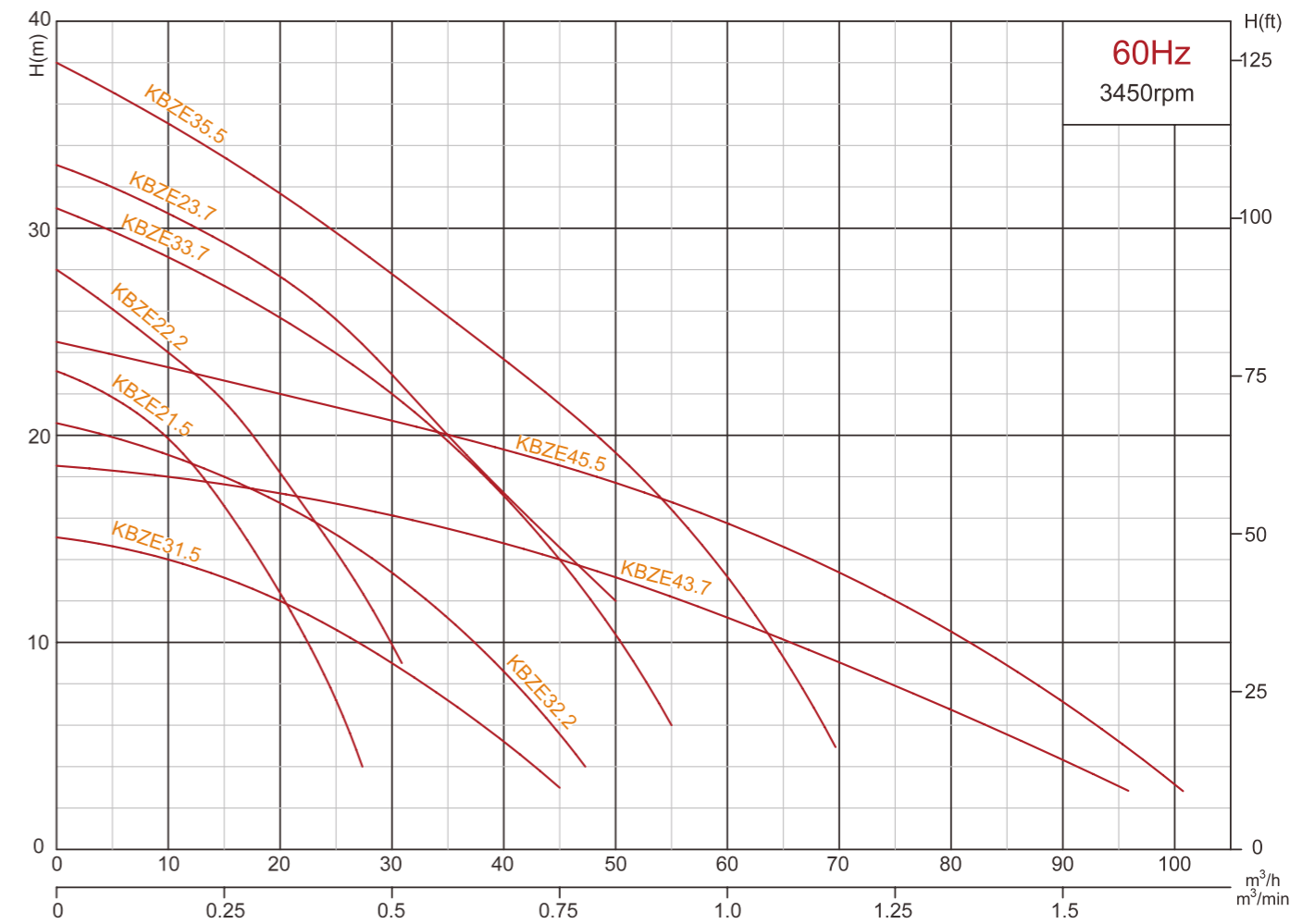
W1: Continuous running water level

| Item No. | Part name | Material | Item No. | Part name | Material |
|----------|---------------|-------------------|----------|--------------------|---|
| 01 | Hose coupling | Cast iron | 28 | Rotor | Shaft: AIS1420SS |
| 02 | Handle | Rubber&steel | 31a | Bearing | Ball bearing |
| 05 | Upper cover | Cast iron | 31b | Bearing | Ball bearing |
| 06 | Upper support | Cast iron | 34 | Mechanical sea | Sic-Sic/Carbon-Sic(≤2.2kW) Sic-Sic/Sic-Sic(≤3.7kW) |
| 11 | Motor body | Cast iron | 35 | Oil seal | |
| 13 | Pump body | Cast iron | 47 | Cable | |
| 14 | Impeller | High chrome alloy | 86 | AC Contactor | |
| 16 | Inlet plate | Ductile iron | 86a | Water level sensor | |
| 25 | Strainer | Steel | 88 | Controller block | |
| 27 | Stator | | | | |

| Model | d | A | A1 | B | D | H | W1 | N.W | G.W | Packing dimension |
|-----------|-----|-----|-----|-----|-----|-----|-----|------|------|-------------------|
| (50/60Hz) | mm | mm | mm | mm | mm | mm | mm | Kg | Kg | (mm) |
| KBZE21.5 | 50 | 235 | 190 | 613 | 216 | 582 | 120 | 41 | 45 | 680*265*265 |
| KBZE31.5 | 80 | 235 | 190 | 620 | 216 | 582 | 120 | 41 | 45 | 680*265*265 |
| KBZE22.2 | 50 | 235 | 190 | 613 | 216 | 582 | 120 | 44 | 48 | 680*265*265 |
| KBZE32.2 | 80 | 235 | 190 | 620 | 216 | 582 | 120 | 44 | 48 | 680*265*265 |
| KBZE23.7 | 50 | 283 | 223 | 703 | 252 | 707 | 150 | 71 | 76 | 770*320*295 |
| KBZE33.7 | 80 | 283 | 223 | 703 | 252 | 707 | 150 | 71 | 76 | 770*320*295 |
| KBZE43.7 | 100 | 283 | 223 | 728 | 252 | 707 | 150 | 72 | 77 | 770*320*295 |
| KBZE35.5 | 80 | 283 | 223 | 755 | 252 | 668 | 150 | 85.5 | 92.5 | 840*350*370 |
| KBZE45.5 | 100 | 283 | 223 | 780 | 252 | 668 | 150 | 86.5 | 93.5 | 840*350*370 |



| Model 50HZ | Outlet mm | Motor power | | Rated current (400V) A | Rated capacity | | Rated head m | Max capacity | | Max head m | impeller passage mm |
|---------------|--------------|-------------|-----|------------------------------|----------------|--------|-----------------|--------------|--------|---------------|---------------------------|
| | | kW | HP | | m³/h | m³/min | | m³/h | m³/min | | |
| KBZE21.5 | 50 | 1.5 | 2 | 3.5 | 15 | 0.25 | 15 | 27 | 0.45 | 22 | 8.5 |
| KBZE31.5 | 80 | 1.5 | 2 | 3.5 | 30 | 0.50 | 8 | 40 | 0.67 | 14.5 | 8.5 |
| KBZE22.2 | 50 | 2.2 | 3 | 5.0 | 18 | 0.30 | 20 | 33 | 0.55 | 26 | 8.5 |
| KBZE32.2 | 80 | 2.2 | 3 | 5.0 | 36 | 0.60 | 11 | 55 | 0.92 | 19 | 8.5 |
| KBZE23.7 | 50 | 3.7 | 5 | 7.7 | 12 | 0.20 | 30 | 33 | 0.55 | 34 | 8.5 |
| KBZE33.7 | 80 | 3.7 | 5 | 7.7 | 30 | 0.50 | 20 | 55 | 0.92 | 29 | 8.5 |
| KBZE43.7 | 100 | 3.7 | 5 | 7.7 | 60 | 1.0 | 11.5 | 90 | 1.50 | 18.5 | 8.5 |
| KBZE35.5 | 80 | 5.5 | 7.5 | 11.4 | 36 | 0.60 | 25 | 75 | 1.25 | 34 | 8.5 |
| KBZE45.5 | 100 | 5.5 | 7.5 | 11.4 | 60 | 1.0 | 16 | 105 | 1.75 | 23 | 8.5 |



| Model 60HZ | Outlet mm | Motor power | | Rated current (400V) A | Rated capacity | | Rated head m | Max capacity | | Max head m | impeller passage mm |
|---------------|--------------|-------------|-----|------------------------------|----------------|--------|-----------------|--------------|--------|---------------|---------------------------|
| | | kW | HP | | m³/h | m³/min | | m³/h | m³/min | | |
| KBZE21.5 | 50 | 1.5 | 2 | 3.5 | 15 | 0.25 | 16.5 | 27 | 0.45 | 23 | 8.5 |
| KBZE31.5 | 80 | 1.5 | 2 | 3.5 | 30 | 0.50 | 9 | 45 | 0.75 | 15 | 8.5 |
| KBZE22.2 | 50 | 2.2 | 3 | 5.1 | 18 | 0.30 | 20 | 31 | 0.52 | 28 | 8.5 |
| KBZE32.2 | 80 | 2.2 | 3 | 5.1 | 30 | 0.60 | 13 | 47 | 0.78 | 20.5 | 8.5 |
| KBZE23.7 | 50 | 3.7 | 5 | 8.0 | 12 | 0.20 | 30 | 50 | 0.83 | 33 | 8.5 |
| KBZE33.7 | 80 | 3.7 | 5 | 8.0 | 30 | 0.50 | 22 | 55 | 0.92 | 31 | 8.5 |
| KBZE43.7 | 100 | 3.7 | 5 | 8.0 | 60 | 1.0 | 11.5 | 96 | 1.60 | 18.5 | 8.5 |
| KBZE35.5 | 80 | 5.5 | 7.5 | 11.6 | 36 | 0.60 | 25 | 69 | 1.15 | 38 | 8.5 |
| KBZE45.5 | 100 | 5.5 | 7.5 | 11.6 | 60 | 1.0 | 16 | 102 | 1.70 | 24.4 | 8.5 |