

# Master

## Electrical submersible drainage pump 50Hz



### Pump specifications

| Type                          | Master |      |      |
|-------------------------------|--------|------|------|
| 50Hz                          | N      | H    | SH   |
| Discharge connection          | 6"     | 4"   | 3"   |
| Rated Power P (kW)            | 10     | 10   | 10   |
| Max. power consumption P (kW) | 11.7   | 11.7 | 11.7 |
| Shaft speed (r.p.m.)          | 2855   | 2855 | 2855 |
| Rated current at 230V         | 33 A   | 33 A | 33 A |
| Rated current at 400V         | 21 A   | 21 A | 21 A |
| Rated current at 500V         | 15 A   | 15 A | 15 A |
| Rated current at 1000V        | 8 A    | 8 A  | 8 A  |
| Solids passage (mm)           | 10     | 10   | 10   |
| Height (mm)                   | 832    | 832  | 887  |
| Diameter (mm)                 | 346    | 346  | 346  |
| Weight (kg)                   | 80     | 80   | 98   |

Other voltages on request

### Features

#### Pump types

N: normal pressure,  
H: high pressure,  
SH: super high pressure

#### Classification

Electrical submersible drainage pump. Protection Class: IP68

#### Electrical motor

Squirrel cage induction motor. Insulation Class: H (IEC85)

#### Motor protector

Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator opening temperature 140°C (284°F) (= SMART system), air valve.

- DOL, tar/delta
- Softstarter (only 400V-50Hz)

#### Cable – SubCab

230V: 4G4mm<sup>2</sup>, 20m (66ft) or 8AWG/4, 53ft  
380-575V: 4G4mm<sup>2</sup>, 20m (66ft) or 12AWG/4, 53ft

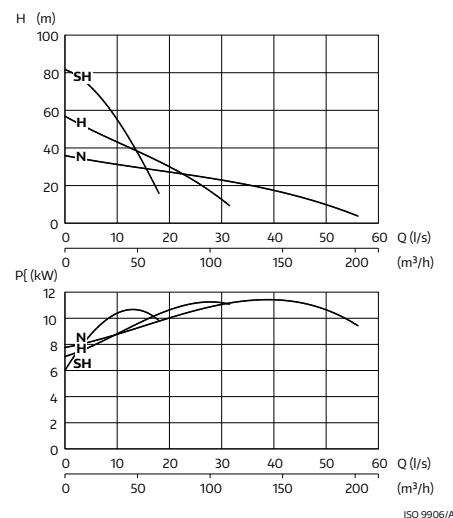
#### Limitations

Max. submersion depth: 20m (66ft)  
Max. liquid temperature: 40°C (104°F)  
Allowed pH range: 5 - 8  
Maximum liquid density: 1100kg/m<sup>3</sup> (68lbs/ft<sup>3</sup>)

#### Shaft Seals

Cartridge seal: pre-assembled double mechanical seal running in an oil compartment  
Material lower seal: silicon carbide - silicon carbide  
Material upper seal: tungsten carbide - aluminium oxide

**PD505182-INT**



#### Bearings

Ball bearings with C3 clearance

#### Discharge connection

3-6" hose, ISO-G or NPT

#### Materials

Casted parts: Aluminium  
Outer casing: Stainless steel  
Motor shaft: Stainless steel  
Impeller and suction cover: Hard-Iron™  
Diffusers: Nitrile rubber  
Screws and nuts: Stainless steel  
O-rings: Nitrile rubber

#### Accessories

External level regulator, Zinc anodes, Tandem connection, Pump raft

Specifications can be changed without notice.