

## 4" ELECTRIC SUBMERSIBLE PUMP WASTE WATER

### IDEAL USAGE

Projects that require transfer of waste water up to 61 m<sup>3</sup>/h and a free passage of 56 mm

### APPLICATIONS

- Transfer of waste water liquids of pits deeper than the maximum practical suction height of > 7 meters
- Pumping in challenging areas for example when footprint is too limited or obstructions make deployment of a dry installed pump impossible
- Removal of waste water from a (temporary) containment for which a larger free passage is required



### PERFORMANCE

|                            |   |
|----------------------------|---|
| <b>Capacity:</b>           | 61.8 m <sup>3</sup> /h (max), see curve |
| <b>Max solid handling:</b> | 56 mm                                   |
| <b>Head:</b>               | 23.5 m (max), see curve                 |
| <b>Density:</b>            | 1.4 kg/l (max)                          |
| <b>Liquid temperature:</b> | 40 °C (max)                             |

### PUMP

|                              |           |
|------------------------------|-----------|
| <b>Impeller:</b>             | Vortex    |
| <b>Degree of protection:</b> | IP 68     |
| <b>Pressure resistance:</b>  | max 15 m  |
| <b>Speed:</b>                | 2,850 RPM |

### WEIGHT AND MEASURES

|                            |   |
|----------------------------|---|
| <b>Weight:</b>             | 100 kg (Dry weight incl 20 m cable)       |
| <b>Height:</b>             | 824 mm                                    |
| <b>Width (max):</b>        | 293 mm                                    |
| <b>Connection:</b>         | 4" DIN/ANSI flange on discharge side (x1) |
| <b>Length power cable:</b> | 20 m                                      |

### MATERIAL

|                        |  |
|------------------------|--|
| <b>Pump casing:</b>    | Grey iron casting (FC200)  |
| <b>Impeller:</b>       | Grey iron casting (FC200)  |
| <b>Shaft:</b>          | Stainless steel (SUS420J2)   |
| <b>Shaft seal:</b>     | Double inside mechanical seal in oil bath additional lubrication by oil lifting device |
| <b>Primary seal:</b>   | Silicon carbide on ceramic   |
| <b>Secondary seal:</b> | Silicon carbide on carbon  |
| <b>Motor frame:</b>    | Cast iron (FC150)  |
| <b>Bearings:</b>       | Shielded ball bearings, maintenance-free   |

### POWER CONNECTION

|                                 |  |
|---------------------------------|--|
| <b>Power connection:</b>        | PCE plug 16 A / 5 P / 400 V                  |
| <b>Housing material:</b>        | PC/ABS                                       |
| <b>Rated current:</b>           | 16 A   |
| <b>Rated voltage/frequency:</b> | 200/346V~ - 240/415V~ / 50+60Hz              |
| <b>Contacts:</b>                | Brass nickel plated                          |
| <b>Type of control element:</b> | Push button switch                           |
| <b>Cable:</b>                   | Rubber, 20 m NSSHÖU 4C x 1,5 mm <sup>2</sup> |

### ELECTRIC MOTOR

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Motor make / model:</b>   | Dry-type submersible induction motor |
| <b>Power input:</b>          | 4.85 kW                              |
| <b>Rated power:</b>          | 3.70 kW                              |
| <b>Voltage / Phase / Hz:</b> | 400 v / 3-phase / 50 Hz              |
| <b>Rated current:</b>        | 7.7 A                                |
| <b>Start current:</b>        | 57.98 A                              |
| <b>Starting mode:</b>        | Direct starting (DOL)                |
| <b>Insulation class:</b>     | F / 2 Poles                          |

### FEATURES

|                         |  |
|-------------------------|--|
| <b>Lifting options:</b> | Single lifting handle                                  |
| <b>Cable:</b>           | Standard executed with 20 m cable (power & floater)    |
| <b>Phases:</b>          | Phase inverter plug                                    |
| <b>Protection:</b>      | Watertight anti-wicking protection                     |
| <b>Optional:</b>        | Connected floater                                      |
| <b>Motor:</b>           | Circle thermal protector (snap-action bi-metal device) |

### QUALITY AND SAFETY

- QMS inspections executed before every rental
- Watertight cable entry connection
- Circle thermal protector
- Cable strain relieve

### CURVE



