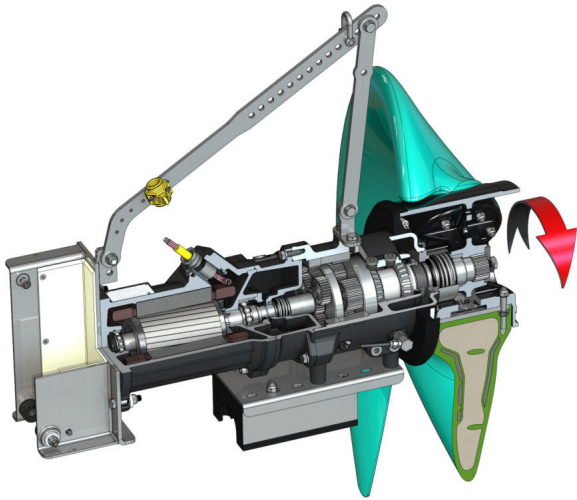


Pioneering for You

wilo

## Submersible mixer

EMU TRE 326-3.33-6/16



### Unit

|   |           |
|---|-----------|
| Power consumption at duty point $P_{1,1}$ | 2.30 kW   |
| Max. thrust $F$                           | 2620 N    |
| Thrust to power ratio                     | 1139 N/kW |
| Max. weight* $m$                          | 235 kg    |
| Explosion protection ATEX ATEX            | optional  |
| Explosion protection FM FM                | optional  |
| Protection class motor                    | IP68      |

### Propeller

|                                      |  |
|--------------------------------------|--|
| Propeller model                      | 3-blade propeller with self-cleaning hub; clogging- and entwining-free |
| Nominal propeller diameter $D_{nom}$ | 2600 mm  |
| Propeller speed $n$                  | 33 1/min   |
| Transmission ratio                   | 29.227   |

### Filling quantities and types

|                                 |                 |
|---------------------------------|-----------------|
| Filling prechamber              | Gear oil CLP220 |
| Filling volume prechamber $V$   | 1.00 l          |
| Filling gear chamber            | Gear oil CLP220 |
| Fill volume gear chamber $V$    | 0.60 l          |
| Filling sealing chamber         | White oil       |
| Fill volume sealing chamber $V$ | 1.10 l          |

### Motor/electronics

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Motor type                          | TE 17-6/16R (Ex)                   |
| Motor design                        | Submersible motor – surface-cooled |
| Mains connection                    | 3~400 V, 50 Hz                     |
| Rated current $I_N$                 | 4.70 A                             |
| Starting current – direct $I_A$     | 39.00 A                            |
| Starting current – star-delta $I_A$ | 13.00 A                            |
| Power consumption $P_{1 max}$       | 2.60 kW                            |
| Rated power $P_2$                   | 2.1 kW                             |
| Speed original $n$                  | 941 1/min                          |
| Motor efficiency class              | IE3                                |
| Efficiency $\eta_M$                 | 81.9 %                             |
| Power factor $\cos \varphi$         | 0.79                               |
| Min. fluid temperature $T_{min}$    | 3 °C                               |
| Max. fluid temperature $T_{max}$    | 40 °C                              |
| Max. immersion depth                | 20 m                               |
| Insulation class                    | H                                  |
| Max. switching frequency $t$        | 15 rph                             |
| min. switching break $t$            | 3 min                              |
| Starting torque $M$                 | 80 Nm                              |
| Moment of inertia                   | 0.0206 kg/m <sup>2</sup>           |
| Motor bearings                      | 2 grooved ball bearing             |

### Materials

|                               |                           |
|-------------------------------|---------------------------|
| Motor housing                 | 5.1301, EN-GJL-250        |
| Static gaskets                | FKM                       |
| Motor shaft                   | 1.4021, X20Cr13           |
| Seal, gear/sealing chamber    | SiC/SiC, Q1Q1VGG          |
| Gear housing                  | 5.1301, EN-GJL-250        |
| Planetary gear                | 1.7131, 16MnCr5           |
| Hollow gear                   | 1.5216, 17MnV6            |
| Sun gear                      | 1.7131, 16MnCr5           |
| Output shaft                  | 1.4462, X2CrNiMoN22-5-3   |
| Seal, gear chamber/prechamber | FKM                       |
| Sealing chamber               | 5.1301, EN-GJL-250        |
| Seal on the fluid side        | SiC/SiC, Q1Q1VGG          |
| Seal bushing                  | 1.4571, X6CrNiMoTi17-12-2 |
| Propeller hub                 | 5.3106, EN-GJS-400-15     |
| Propeller                     | VE-GFRP                   |

### Gear

|                        |   |
|------------------------|---|
| Gear construction type | m 2.0 as per DIN 780-1:1977-05 /P10 (ISO54:1996-12); sun and planetary gears case hardened and sanded, internal gear butt-jointed |
| Gear bearings          | Six needle roller bearing (planetary), two tapered roller bearings (output shaft adjustable type), gearing permanently fixed      |
| Service life $L_{h10}$ | 100,000 operating hours, ISO 281:2007-02  |

\*maximum weight including accessories