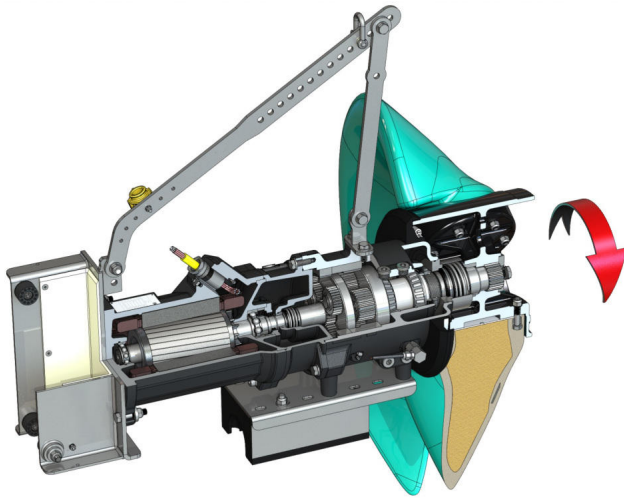


Pioneering for You

wilo

## Submersible mixer

### EMU TRE 321.21-6/16 E4



#### Unit

Power consumption at duty point $P_{1,1}$	0.60 kW
Max. thrust $F$	550 N
Thrust to power ratio	917 N/kW
Max. weight* $m$	227 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 $D_{nom}$	2100 mm
Propeller speed $n$	21 1/min
Transmission ratio	46.500

#### 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 $I_N$	4.10 A
Starting current – direct $I_A$	39.00 A
Starting current – star-delta $I_A$	13.00 A
Power consumption $P_{1 max}$	2.10 kW
Rated power $P_2$	1.7 kW
Speed original $n$	955 1/min
Motor efficiency class	IE4
Efficiency $\eta_M$	82.4 %
Power factor $\cos \varphi$	0.73
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