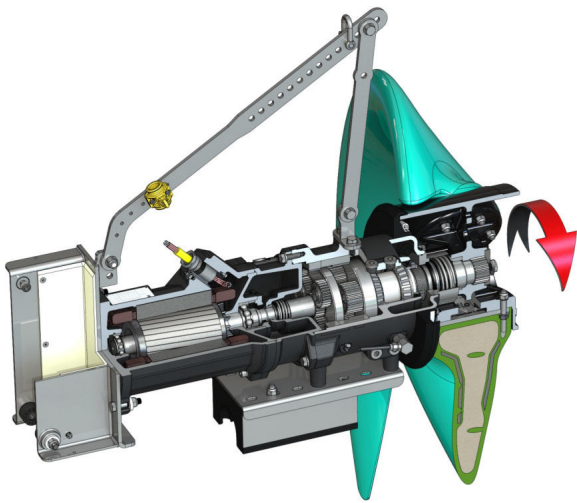


Pioneering for You

## Submersible mixer

### EMU TRE 326-3.38-4/16



#### Unit

Power consumption at duty point $P_{1,1}$	4.36 hp
Max. thrust $F$	764.4 lbf
Thrust to power ratio	173 lbf/hp
Max. weight* $m$	518.1 lb
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 $D_{nom}$	102.4 in (*)
Propeller speed $n$	38 RPM
Transmission ratio	46.500

#### Filling quantities and types

Filling prechamber	Gear oil CLP220
Filling volume prechamber $V$	0.3 US gal
Filling gear chamber	Gear oil CLP220
Fill volume gear chamber $V$	0.2 US gal
Filling sealing chamber	White oil
Fill volume sealing chamber $V$	0.3 US gal

#### Motor/electronics

Motor type	TE 17-4/16R (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~230 V, 60 Hz
Rated current $I_N$	14.20 A
Starting current – direct $I_A$	120.00 A
Power consumption $P_{1 max}$	6.2 hp
Rated power $P_2$	5.4 hp
Speed original $n$	1747 RPM
Motor efficiency class	IE3
Efficiency $\eta_M$	87.3 %
Power factor $\cos \varphi$	0.81
Min. fluid temperature $T_{min}$	37 °F
Max. fluid temperature $T_{max}$	104 °F
Max. immersion depth	66 ft
Insulation class	H
Max. switching frequency $t$	15 rph
min. switching break $t$	3 min
Starting torque $M$	72.3 lbf ft
Moment of inertia	0.32 lb ft <sup>2</sup>
Motor bearings	2 grooved ball bearing

#### Materials

Motor housing	ASTM A48, Class No. 35
Static gaskets	FKM Fluoro rubber
Motor shaft	AISI 420
Seal, gear/sealing chamber	SiC/SiC, Q1Q1VGG
Gear housing	ASTM A48, Class No. 35
Planetary gear	AISI 5115
Hollow gear	Grade 60
Sun gear	AISI 5115
Output shaft	AISI 329
Seal, gear chamber/prechamber	FKM Fluoro rubber
Sealing chamber	ASTM A48, Class No. 35
Seal bushing	AISI 316Ti
Propeller hub	60-40-15
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