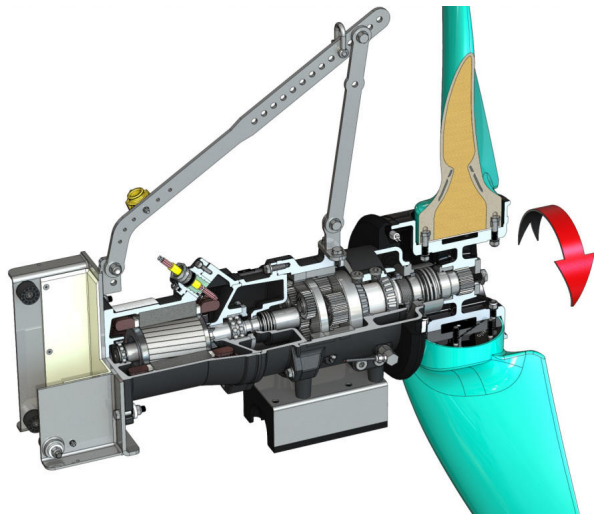


Pioneering for You

## Submersible mixer EMU TR 216.66-4/8



### Unit

Power consumption at duty point $P_{1,1}$	3.96 hp
Max. thrust $F$	438.4 lbf
Thrust to power ratio	109 lbf/hp
Max. weight* $m$	429.9 lb
Explosion protection ATEX	optional
Explosion protection FM	optional
Protection class motor	IP68

### Propeller

Propeller model	2-blade propeller with self-cleaning hub; clogging- and entwining-free
Nominal propeller diameter $D_{nom}$	63.0 in (*)
Propeller speed $n$	66 RPM
Transmission ratio	26.350

### 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	T 17-4/8R (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~230 V, 60 Hz
Rated current $I_N$	16.30 A
Starting current – direct $I_A$	67.00 A
Starting current – star-delta $I_A$	23.00 A
Power consumption $P_{1 max}$	7.2 hp
Rated power $P_2$	5.6 hp
Speed original $n$	1690 RPM
Motor efficiency class	–
Efficiency $\eta_M$	79.0 %
Power factor $\cos \varphi_{100}$	0.82
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 $M$	31.0 lbf ft
Moment of inertia	0.17 lb ft <sup>2</sup>
Motor bearings	1 grooved ball bearing, 1 two-row inclined 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	ASTM A536, Grade 60-40-18
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

Subject to change without prior notice.