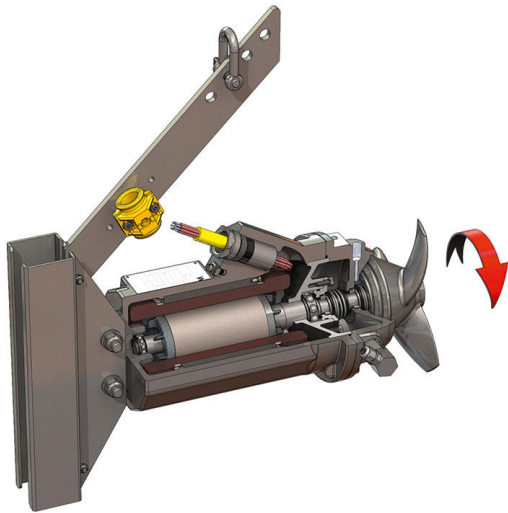


Pioneering for You

wilo

## Submersible Mixer

### Flumen EXCEL- TRE 20.145-4/13 S7



#### Materials

Motor housing	1.4408, GX5CrNiMo19-11-2
Static gaskets	FKM
Motor shaft	1.4021, X20Cr13
Sealing chamber	1.4408, GX5CrNiMo19-11-2
Seal on the fluid side	SiC/SiC, Q1Q1VGG
Propeller	1.4408, GX5CrNiMo19-11-2

#### Unit

Power consumption at duty point $P_{1,1}$	0.57 kW
Max. thrust $F$	105 N
Thrust to power ratio	184 N/kW
Max. weight* $m$	40 kg
Explosion protection ATEX	no
Explosion protection FM	no
Protection class motor	IP68

#### Propeller

Propeller model	3-blade propeller with self-cleaning hub; backward-curved as a result clogging- and entwining-free
Nominal propeller diameter	200 mm
Propeller speed $n$	1400 1/min
Transmission ratio	1.000

#### Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber $V$	0.40 l

#### Motor/electronics

Motor type	TE 12-4/13GRF
Motor design	Submersible motor acc. IEC 60034-1
Mains connection	3~400 V, 50 Hz
Rated current $I_N$	2.95 A
Starting current - direct $I_A$	14.00 A
Power consumption $P_{1 max}$	1.41 kW
Rated power $P_2$	1.10 kW
Speed original $n$	1400 1/min
Motor efficiency class	IE3
Power factor $\cos \varphi$	0.69
Min. fluid temperature $T_{min}$	3 °C
Max. fluid temperature $T_{max}$	40 °C
Max. immersion depth	20 m
Insulation class	H/B
Max. switching frequency $t$	15 1/h
min. switching break $t$	3 min
Starting torque $M$	18.3 Nm
Moment of inertia	0.0021 kg/m <sup>2</sup>
Motor bearings	2 grooved ball bearing

\*maximum weight including accessories