



OPTIMIX 3G 100-135



Application

Submersible motor Dry matter content up to 12 % Substrate temperature up to 55°C pH-value 6.5 - 8.2

Motor

Motor power: 10.0 kW, 8-poles 400 V, 50 Hz, Special voltages on request Protection class IP 68, up to 10 m submergence PTC 130°C thermistors (for thermal protection) Separate oil chamber, turbine oil

Gear

Flange mounted planetary gear Reduction ratio i = 5.35Longlife gear oil Oil change after 8,000 operating hours

Corrosion protection

Ductile cast iron housing (GGG40) Agitator has an two component epoxy coating Agitator is galvanically isolated from the guide mast

Cable

Pressed cable gland, cable standard length 10 m Cable $4 \times 10 + 4 \times 1 \text{ mm}^2$, Ø 26 mm, Resistant against biomass Strain relief 800 N

Propeller

3-blade high efficiency propeller, dynamically balanced Optimix 3G | 10 kW | propeller XT 1200-12 | 135 rpm Hardened steel or ss304

Guide mast connection

Guide mast support with 4 rollers for smooth height adjustment: 10 kW: 120 / 150 mm square mast

Bearing

Bearing flange with mechanical seal SiC/SiC 2 Tapered roller bearings to absorb the axial thrust Shaft Ø 45 mm Separate oil chamber, Longlife gear oil POM protection to minimize abrasion

Ex zone

Authorized for Ex-Zone 2 ATEX Classification **(€ (E)** II 3G Ex ec h IIA T3 Gc

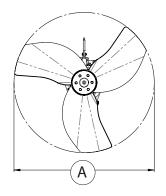
Control switch

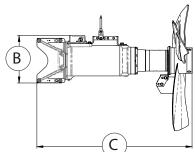
Requirement on site: Frequency converter is absolutely necessary

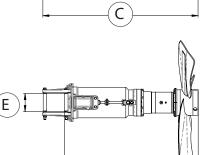
Soft start only after consulting SUMA Rührtechnik GmbH



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Dimensions / Weight										
Туре	A [mm]	B [mm]	C max. [mm]	D [mm]	E [mm]	Weight approx. [kg]				
3G 100-135	1,200	407	1,328	1,144	150	310				

D

Technical data												
Туре	Rated Power [kW]	Rated Voltage [V]	Full load current [A]	Frequency [Hz]	Power factor cos φ	Gear reduction ratio	Propeller speed [rpm]	Propeller diameter [mm]	Axial force [kN]	Flow velocity [m/s] *	Pumping rate [m³/min]	Pumping rate $[m^3/h]$
3G 100-135	10.0	400	30.2	50	0.58	5.35	135	1,200	4.8	3.5	230	13.780

Subject to technical changes
* measured in water and 1.2 m distance