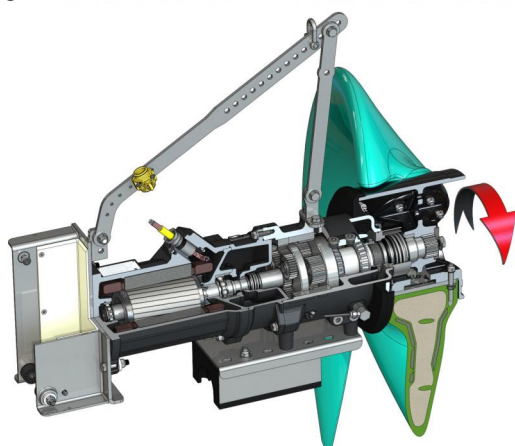
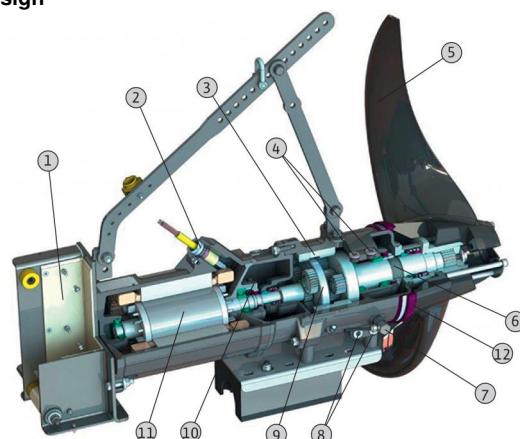


Data sheet: EMU TRE 326-3.33-6/16

Design / Direction of rotation



Design



1 = frame, 2 = cable, 3 = gear chamber, 4 = oil filler plugs, 5 = propeller, 6 = pre-chamber, 7 = sealing chamber monitoring (optional), 8 = oil drain plugs, 9 = planetary gear, 10 = sealing chamber, 11 = motor, 12 = hub ring

Unit

Power consumption $P_{1,1}$	2.3 kW
Max. thrust F	2,620 N
Max. weight* m	235 kg
Explosion protection	ATEX
Ex classification ATEX	II 2G Ex d IIB T4 Gb
Protection class	IP 68

Motor data

Type of motor	TE 17-6/16R
Motor type	Submersible motor according to DIN/VDE 0530 (IEC 34)
Mains connection	3~400 V, 50 Hz
Rated current I_N	4.70 A
Starting current - direct I_A	39 A
Starting current - star-delta I_A	13 A
Power consumption P_1	2.60 kW
Rated power P_2	2.10 kW
Rated speed n	941 rpm
Efficiency η_M	81.90
Power factor $\cos \varphi$	0.79
Fluid temperature T	+3 ... +40 °C
Max. immersion depth	20 m
Insulation class	H
Max. switching frequency t	15
min. switching break t	3
Starting torque M	80 Nm
Moment of inertia	0.0206 kg/m ²
Motor bearings	1 grooved ball bearing, 1 two-row inclined ball bearing

Gear

Gear construction type	m 2.0 as per DIN 780/P10 (ISO 54); 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 Lh10	> 100000 operating hours, ISO 281

Propeller

Propeller model	3-blade propeller with self-cleaning hub; backward-curved as a result clogging- and entwining-free
Nominal propeller diameter	2600 mm
Propeller speed n	33 rpm
Transmission ratio	29.227

Materials

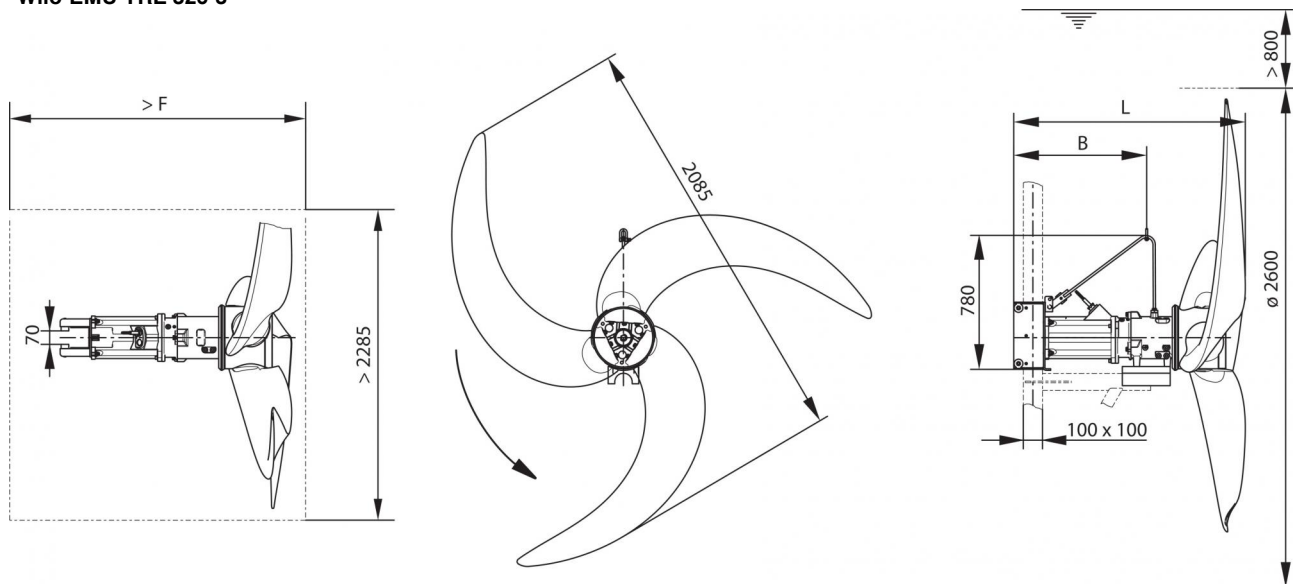
Motor housing	EN-GJL-250
Motor shaft	1.4021
Gear housing	EN-GJL 250
Planetary gear	1.7131
Hollow gear	1.5216
Sun gear	1.7131
Output shaft	1.4462
Static seal	FPM
Sealing on pump side	SiC/SiC
Seal, gear chamber/prechamber	FPM
Seal, gear/sealing chamber	SiC/SiC
Sealing on motor side	FPM
Propeller	GfK Vinylester
Propeller hub	EN-GJL-400-15

Data sheet: EMU TRE 326-3.33-6/16

Fill quantities and types	
Filling prechamber	CLP transmission oil, ISO VG 220
Filling volume prechamber <i>V</i>	1.00 l
Filling gear chamber	CLP transmission oil, ISO VG 220
Fill quantity gear chamber <i>V</i>	0.60 l
Filling sealing chamber	White oil
Fill level sealing chamber <i>V</i>	1.10 l

Dimensions and dimensions drawings: EMU TRE 326-3.33-6/16

Dimension drawing
Wilo-EMU TRE 326-3



Dimensions <i>F</i>	1330 mm
Dimensions <i>L</i>	1180 mm
Max. weight* <i>m</i>	235 kg

* = maximum weight including accessories



Motor type
TE 17-6/16R

Rated output [P2]
1,89kW

Rated voltage
400V~3+50Hz

Date
15.03.2018

Application data

data sheet standard
S1 submerged

VDE 0530 operating mode:
Service factor: **1**
Pumped water temperature: **40** [°C]

Max. installation depth: **IP68 20** [m]
min. water level: **-** [mm]

Explosion-proof:

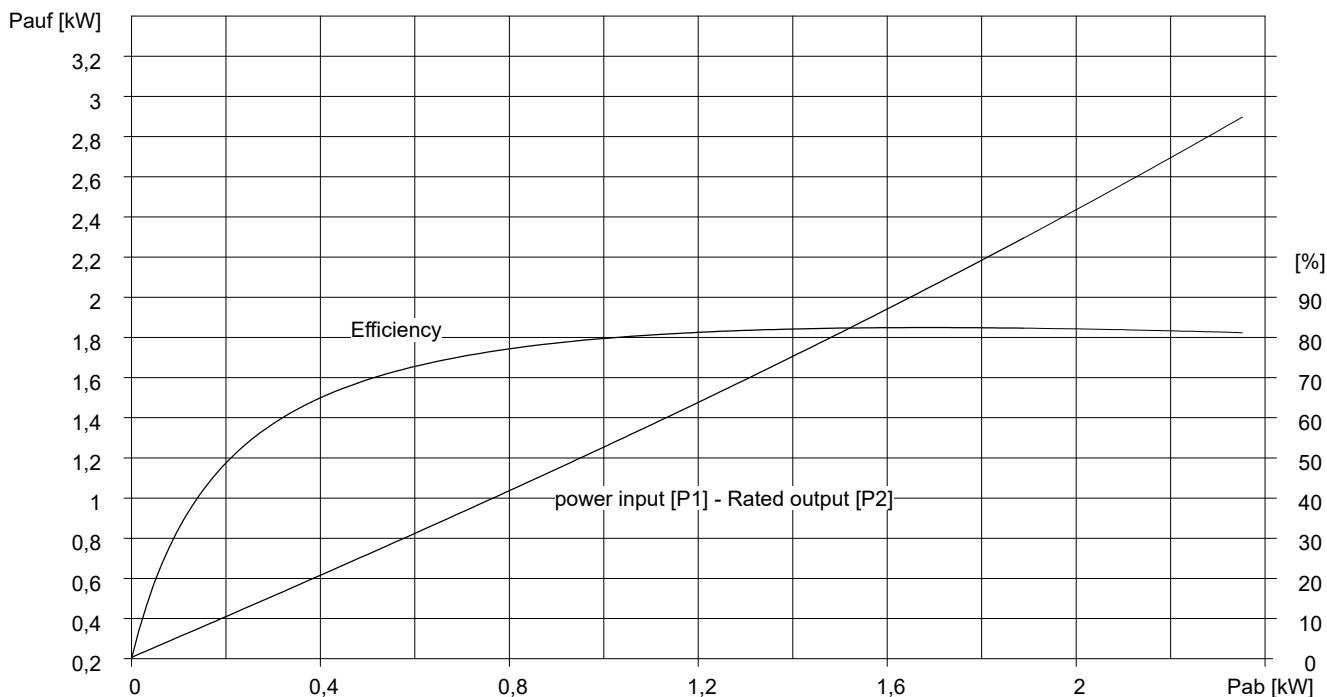
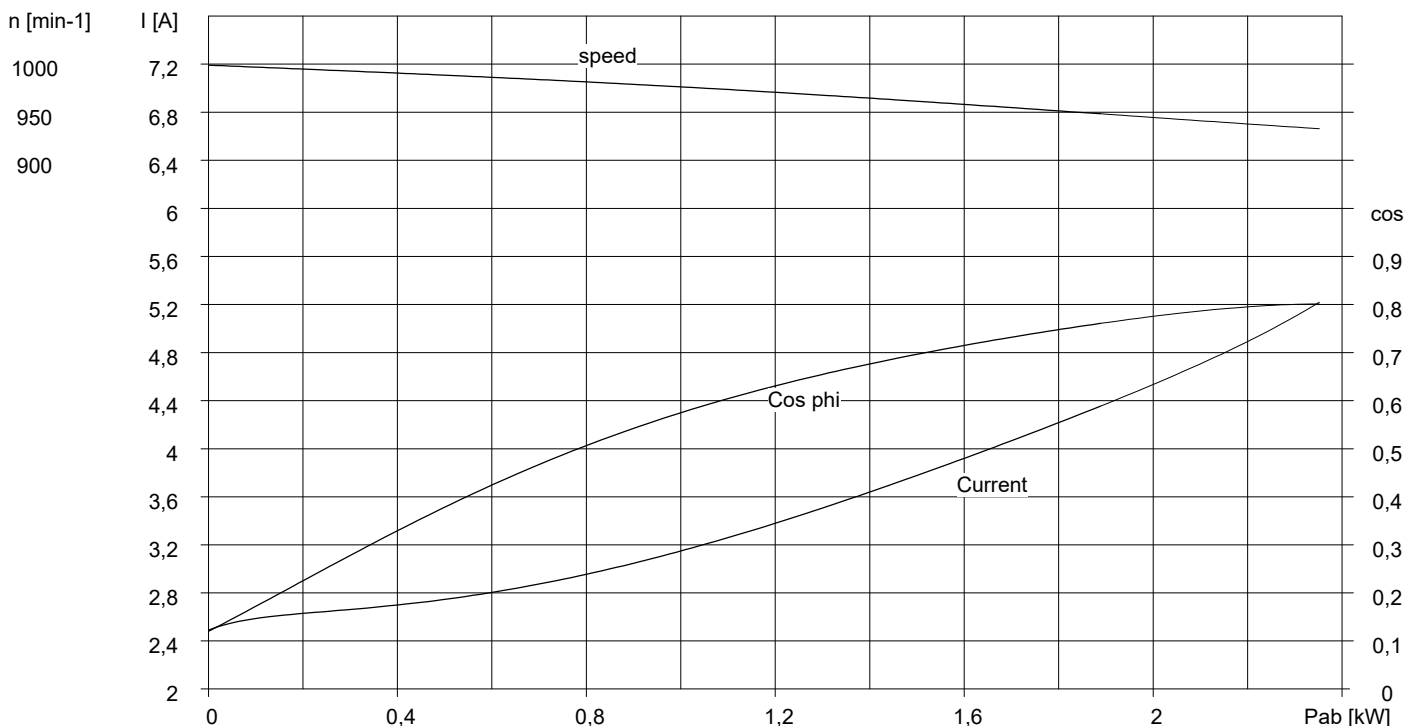
Explosion code: **-**
nr. for operation Ex: **-**
nr. for frequency converter Ex: **-**

Motor connection wiring:

Direct: **7x1,5 NSSHÖU**

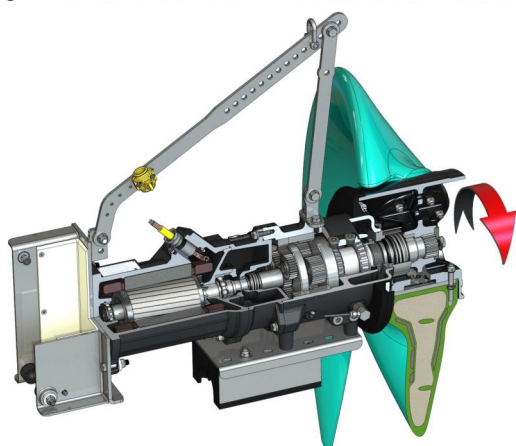
Motor data:

Rated output [P2]: **1,89** [kW]
power input [P1]: **2,3** [kW]
Rated speed: **948,4** [min-1]
Rated current: **4,4** [A]
Max. starts per hour: **15** [h]
length: **477** [mm]
Weight: **72** [kg]
Efficiency: 100/75/50 **82,3/82,1/79,2** [%]
Cos phi: 100/75/50 **0,76/0,68/0,56**
Starting current: Direct **39** [A]
Cos phi start: **0,74**
torque: load 100%/starting **19,1/80** [Nm]
Mass moment of inertia: **0,0206** [kgm²]
Insulating class: **H / B**

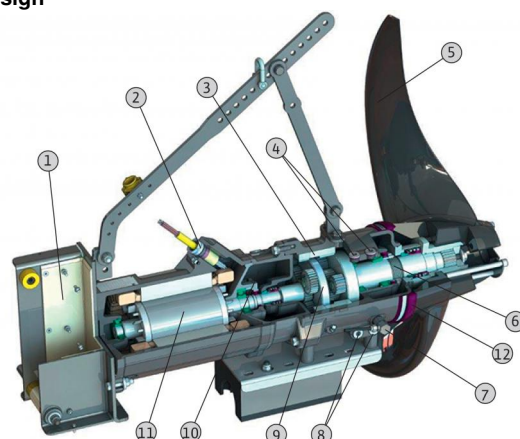


Data sheet: EMU TRE 326-3.24-6/16

Design / Direction of rotation



Design



1 = frame, 2 = cable, 3 = gear chamber, 4 = oil filler plugs, 5 = propeller, 6 = pre-chamber, 7 = sealing chamber monitoring (optional), 8 = oil drain plugs, 9 = planetary gear, 10 = sealing chamber, 11 = motor, 12 = hub ring

Unit

Power consumption $P_{1,1}$	1.1 kW
Max. thrust F	1,500 N
Max. weight* m	235 kg
Explosion protection	ATEX
Ex classification ATEX	II 2G Ex d IIB T4 Gb
Protection class	IP 68

Motor data

Type of motor	TE 17-6/16R
Motor type	Submersible motor according to DIN/VDE 0530 (IEC 34)
Mains connection	3~400 V, 50 Hz
Rated current I_N	4.70 A
Starting current - direct I_A	39 A
Starting current - star-delta I_A	13 A
Power consumption P_1	2.60 kW
Rated power P_2	2.10 kW
Rated speed n	941 rpm
Efficiency η_M	81.90
Power factor $\cos \varphi$	0.79
Fluid temperature T	+3 ... +40 °C
Max. immersion depth	20 m
Insulation class	H
Max. switching frequency t	15
min. switching break t	3
Starting torque M	80 Nm
Moment of inertia	0.0206 kg/m ²
Motor bearings	1 grooved ball bearing, 1 two-row inclined ball bearing

Gear

Gear construction type	m 2.0 as per DIN 780/P10 (ISO 54); 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 Lh10	> 100000 operating hours, ISO 281

Propeller

Propeller model	3-blade propeller with self-cleaning hub; backward-curved as a result clogging- and entwining-free
Nominal propeller diameter	2600 mm
Propeller speed n	24 rpm
Transmission ratio	40.74

Materials

Motor housing	EN-GJL-250
Motor shaft	1.4021
Gear housing	EN-GJL 250
Planetary gear	1.7131
Hollow gear	1.5216
Sun gear	1.7131
Output shaft	1.4462
Static seal	FPM
Sealing on pump side	SiC/SiC
Seal, gear chamber/prechamber	FPM
Seal, gear/sealing chamber	SiC/SiC
Sealing on motor side	FPM
Propeller	GfK Vinylester
Propeller hub	EN-GJL-400-15

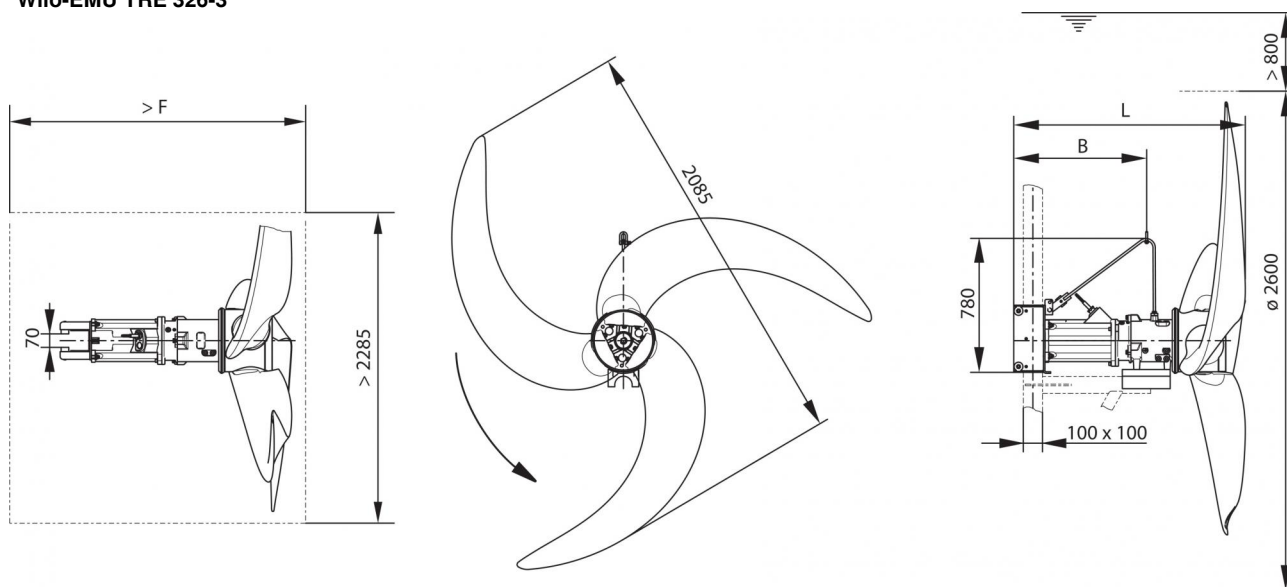
Data sheet: EMU TRE 326-3.24-6/16

Fill quantities and types

Filling prechamber	CLP transmission oil, ISO VG 220
Filling volume prechamber <i>V</i>	1.00 l
Filling gear chamber	CLP transmission oil, ISO VG 220
Fill quantity gear chamber <i>V</i>	0.60 l
Filling sealing chamber	White oil
Fill level sealing chamber <i>V</i>	1.10 l

Dimensions and dimensions drawings: EMU TRE 326-3.24-6/16

Dimension drawing
Wilo-EMU TRE 326-3



Dimensions <i>F</i>	1330 mm
Dimensions <i>L</i>	1180 mm
Max. weight* <i>m</i>	235 kg

* = maximum weight including accessories



Motor type
TE 17-6/16R

Rated output [P2]
0,86kW

Rated voltage
400V~3+50Hz

Date
15.03.2018

Application data

data sheet standard
S1 submerged

VDE 0530 operating mode:
Service factor: **1**
Pumped water temperature: **40** [°C]

Max. installation depth: **IP68 20** [m]
min. water level: - [mm]

Explosion-proof:

Explosion code: -
nr. for operation Ex: -
nr. for frequency converter Ex: -

Motor connection wiring:

Direct: **7x1,5 NSSHÖU**

Motor data:

Rated output [P2]: **0,86** [kW]
power input [P1]: **1,1** [kW]
Rated speed: **980,2** [min-1]
Rated current: **3,05** [A]
Max. starts per hour: **15** [h]
length: **477** [mm]
Weight: **72** [kg]
Efficiency: 100/75/50 **78,0/73,9/66,4** [%]
Cos phi: 100/75/50 **0,53/0,44/0,34**
Starting current: Direct **39** [A]
Cos phi start: **0,74**
torque: load 100%/starting **8,4/80** [Nm]
Mass moment of inertia: **0,0206** [kgm²]
Insulating class: **H / B**

