

Vertical mixer

Wilo-Vardo WEEDLESS VM.F7-1/320.39-400 RM97 DRN112M4/C



Drive unit

Drive design	Helical gear motor with corrosion protection OS3/C4
Motor designation	RM97 DRN112M4/C
Mains connection (delta, star)	3~230 V, 3~400 V, 50 Hz
Rated current, direct delta I_N	13.8 A
Rated current, direct star I_N	7.9 A
Power consumption $P_{1\ max}$	4.51 kW
Rated power P_2	4 kW
Speed original n	1464 1/min
Motor efficiency class	IE3
Motor efficiency 50	88.6 %
Motor efficiency 75	89.4 %
Motor efficiency 100	88.7 %
Power factor $\cos \varphi_{100}$	0.81
Min. ambient temperature T_{min}	-20 °C
Max. ambient temperature T_{max}	40 °C
Insulation class	F
Protection class motor	IP55
Max. switching frequency t	15 rph
min. switching break t	3 min
Nominal torque M	970 Nm
Explosion protection ATEX	no
Explosion protection FM	no
Motor protection (optional)	Bimetal, PTC
Motor housing	Aluminium
Gear housing	5.1300, EN-GJL-200

Filling quantities and types

Filling gear	Gear oil E 460 (Organic)
Gear fill quantity V	14 l

Unit

Power consumption at 40° $P_{1.1}$	3.02 kW
Max. thrust at 40° F	2560 N
Thrust to power ratio at 40°	848 N/kW
Min. fluid temperature T_{min}	3 °C
Max. fluid temperature T_{max}	40 °C
Max. weight m	540 kg

Propeller

Propeller model	3-blade propeller made of solid material
Nominal propeller diameter D_{nom}	2000 mm
Direction of thrust	up/down
Propeller speed n	39 1/min
Transmission ratio	37.130
Propeller hub	PUR Polyurethane
Propeller	PUR Polyurethane

Mixer shaft

Min. length of mixer shaft l	2.5 m
Max. length of mixer shaft l	4.0 m
Mixer shaft	1.4571, X6CrNiMoTi17-12-2

Motor plate

Number of fastening holes	6
Motor plate	1.4571, X6CrNiMoTi17-12-2