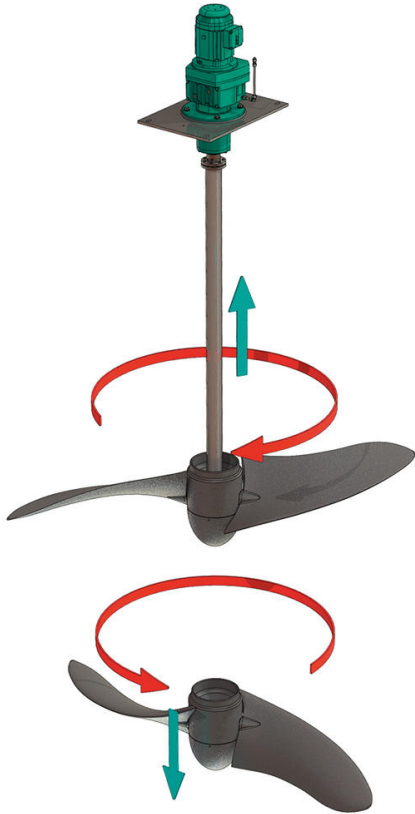


Pioneering for You

wilo

Vertical mixer

Wilo-Vardo WEEDLESS VM.F6-1/220.31-220 RM87 DRU100L4/C



Drive unit

| | |
|------------------------------------|---|
| Drive design | Helical gear motor with corrosion protection OS3/C4 |
| Motor designation | RM87 DRU100L4/C |
| Mains connection (delta, star) | 3~230 V, 3~400 V, 50 Hz |
| Rated current, direct delta I_N | 8.3 A |
| Rated current, direct star I_N | 4.75 A |
| Power consumption $P_{1\ max}$ | 2.46 kW |
| Rated power P_2 | 2.2 kW |
| Speed original n | 1464 1/min |
| Motor efficiency class | IE4 |
| Motor efficiency 50 | 88.4 % |
| Motor efficiency 75 | 89.7 % |
| Motor efficiency 100 | 89.5 % |
| Power factor $\cos \varphi_{100}$ | 0.74 |
| 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 | 685 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 | 6.8 l |

Unit

| | |
|------------------------------------|-----------|
| Power consumption at 40° $P_{1.1}$ | 1.08 kW |
| Max. thrust at 40° F | 1200 N |
| Thrust to power ratio at 40° | 1111 N/kW |
| Min. fluid temperature T_{min} | 3 °C |
| Max. fluid temperature T_{max} | 40 °C |
| Max. weight m | 385 kg |

Propeller

| | |
|--------------------------------------|--|
| Propeller model | 2-blade propeller made of solid material |
| Nominal propeller diameter D_{nom} | 2000 mm |
| Direction of thrust | up/down |
| Propeller speed n | 31 1/min |
| Transmission ratio | 47.580 |
| Propeller hub | PUR Polyurethane |
| Propeller | PUR Polyurethane |

Mixer shaft

| | |
|--------------------------------|---------------------------|
| Min. length of mixer shaft l | 2.0 m |
| Max. length of mixer shaft l | 3.5 m |
| Mixer shaft | 1.4571, X6CrNiMoTi17-12-2 |

Motor plate

| | |
|---------------------------|---------------------------|
| Number of fastening holes | 4 |
| Motor plate | 1.4571, X6CrNiMoTi17-12-2 |