

Pump type: Submersible vortex pump
 Application: Waste water, sewage

Pump data

Solids passage: 100 mm
 Discharge/ Suction diameter: 100 mm/ 120 mm
 Impeller type: Vortex
 Impeller diameter: 335 - 255 mm
 Recommended min. flow: 6 l/sec (21 m3/h)
 Weight: 300 kg

Motor

Mains: 50 c/s – 3 phase
 Rated shaft power: 34.0 kW
 Rated electrical power: 39.5 kW
 Nominal speed: 1440 rpm
 Motor efficiency: 86 %
 Power factor (cos phi): 0.86
 Degree of protection: IP 68
 Isolation class: F (155°C)
 Max. water temperature: 40°C
 Standard cable length: 10 m

Materials

Pump casing: Cast iron GG 25 (EN-GJL-250)
 Impeller: S.g cast iron GGG 40 (EN-GJS-400-15)
 Motor unit: Cast iron GG 25 (EN-GJL-250)
 Shaft: AISI 431
 Bolts: Alt: AISI 316
 Elastomers: AISI 316
 Nitrile (NBR) or neoprene (CR)
 Alt: viton (FPM)
 Neoprene (CR)
 Seal lubrication: Oil
 Seal pump side: Silicon carbide – silicon carbide
 Seal motor side: Carbon - Ceramic
 Coating: Two components polyurethane

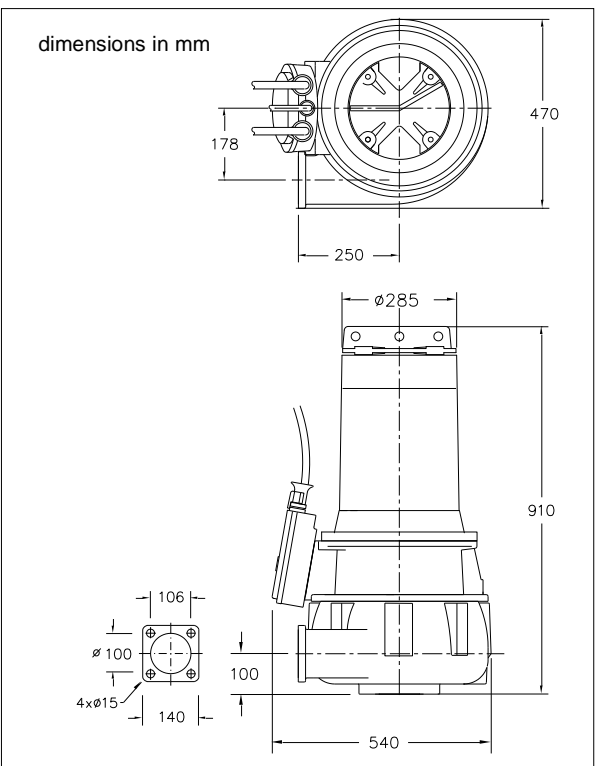
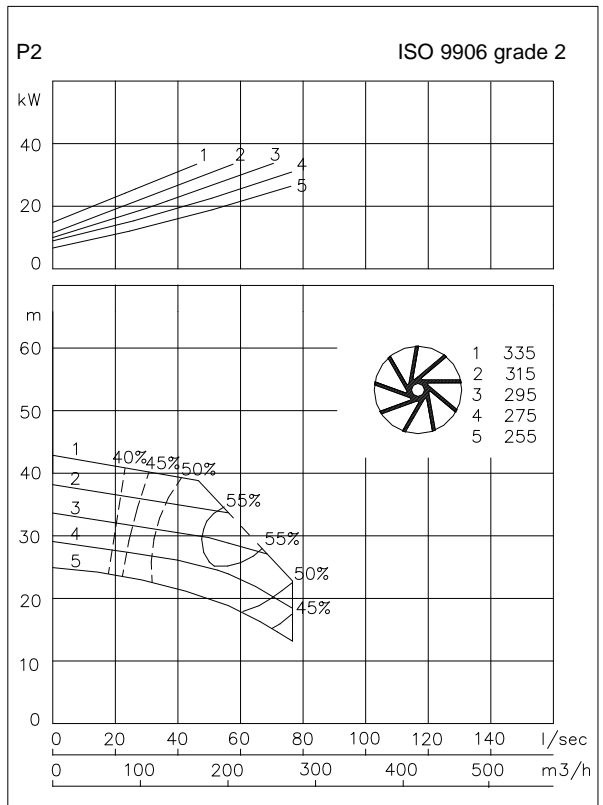
Installation options

Guide bar coupling: OWK 100 or OWK 150
 Freestanding Including support (VRS): 100 mm hose connection or G 4" threaded connection
 Dry Installation Including cooling system (ODO): vertical or horizontal install. discharge flange NW100 suction flange NW125



Optional

- Version with cooling system
- Flameproof version, to class: II 2 G Ex d IIB c T4
 Standard: II 2 G Ex b c d IIB T4 Gb
 With Frequency control: II 2 G Ex b c d IIB T3 Gb
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
 Flameproof version with external cable



Connections

voltage [V]*	current [A]	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
		direct start	star-delta start	direct start	star-delta start
230	115.5	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
400	66.4	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
500	53.1	4G16 + 4G2.5	2x4G10 + 4G2.5	4G16 + 4G2.5	2x4G10 + 4G2.5
starting current DOL start : 4.5 x rated current					
starting current YD start : 1.5 x rated current					
					* other voltages on request