

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 360 - 275 mm
Recommended min. flow 6 l/sec (21 m3/h)
Weight 330 kg

Motor

Mains: 50 c/s – 3 phase
Rated shaft power 48.0 kW
Rated electrical power 54.5 kW
Nominal speed 1460 rpm
Motor efficiency 88 %
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
Alt: AISI 316
Bolts AISI 316
Elastomers Nitrile (NBR) of neoprene (CR)
Alt: viton (FPM)
Neoprene (CR)
Electrical cable Oil
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 100 mm hose connection or
Including support (VRS) G 4" threaded connection



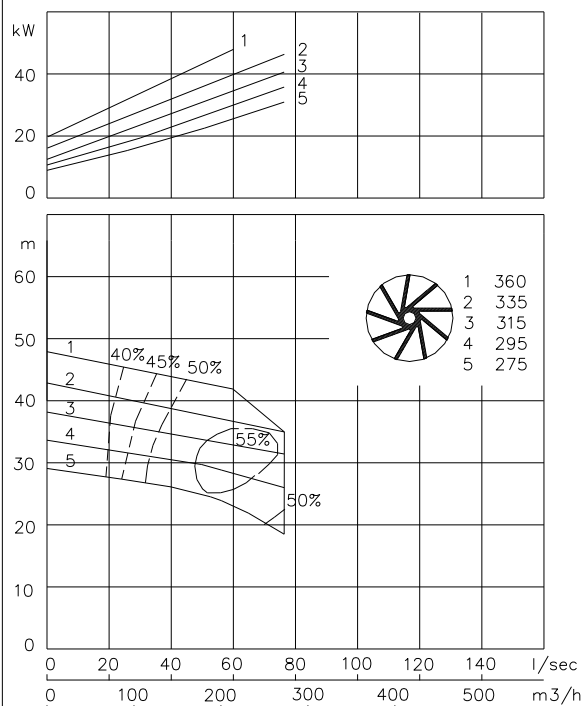
Dry Installation vertical or horizontal install.
Including cooling system discharge flange NW100
(ODO) suction flange NW125



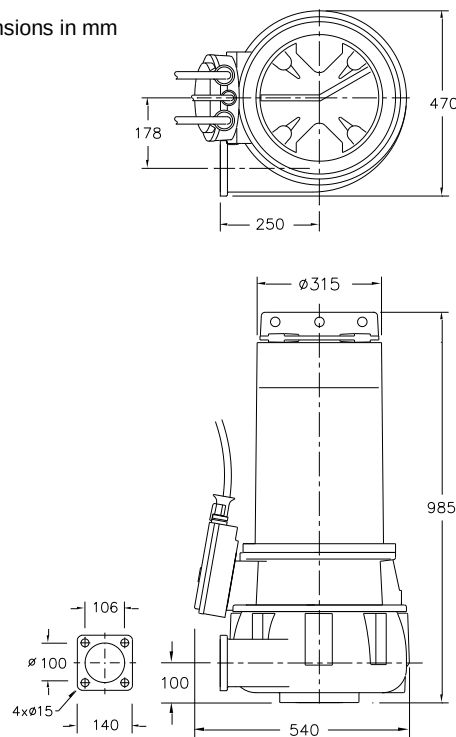
Optional

- 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

P2 ISO 9906 grade 2



dimensions in mm



Connections

		Electrical cable size [mm2]			
voltage	current	motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	star-delta start	direct start	star-delta start
230	159.2	-	-	-	-
400	91.5	-	2x4G16 + 4G2.5	-	2x4G16 + 4G2.5
500	73.2	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
starting current DOL start : 4.4 x rated current					
starting current YD start : 1.5 x rated current					
* other voltages on request					