

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

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 AISI 329
Impeller AISI 329
Motor unit AISI 329
Shaft AISI 316
Bolts AISI 316
Elastomers Viton (FPM)
Electrical cable Neoprene (CR)
Seal lubrication Oil
Seal pump side Silicon carbide – Silicon carbide - Viton
Seal motor side Carbon – Ceramic

Installation options

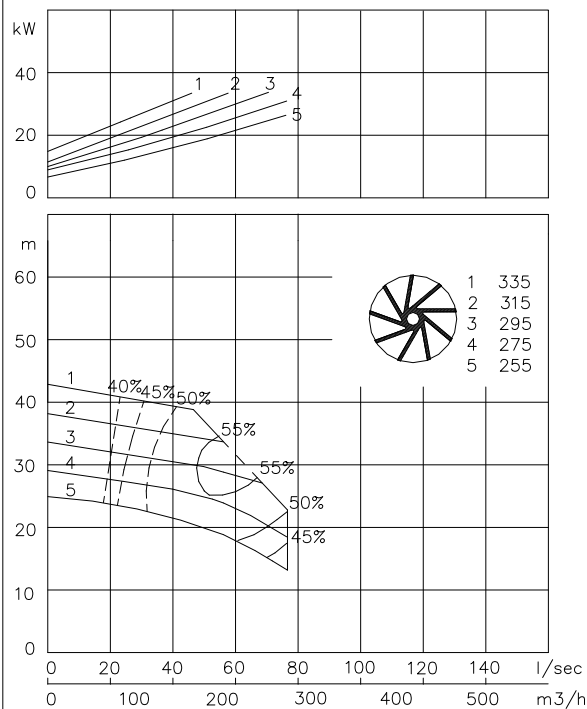
Guide bar coupling OWK 100 -U
Freestanding 100 mm hose connection or
Including support (VRS) G 4" threaded connection
Dry Installation vertical or horizontal install.
Including cooling system discharge flange NW100
(ODO) suction flange NW125



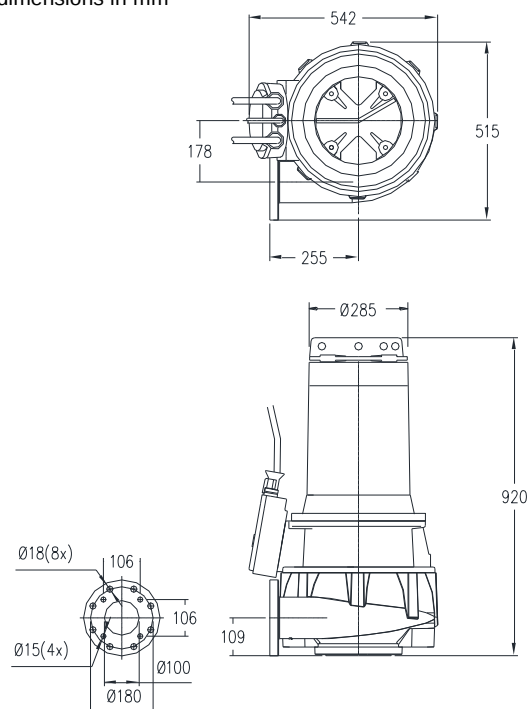
Optional

- 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

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	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	