

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

**Pump data**

Solids passage: 50 mm  
 Discharge/ Suction diameter: 50 mm/ 65 mm  
 Impeller type: Vortex  
 Impeller diameter: 220 - 180 mm  
 Recommended min. flow: 1.5 l/sec (5 m3/h)  
 Weight: 260 kg




**Motor**

Mains: 50 c/s – 3 phase  
 Rated shaft power: 29.0 kW  
 Rated electrical power: 32.6 kW  
 Nominal speed: 2920 rpm  
 Motor efficiency: 89 %  
 Power factor (cos phi): 0.92  
 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)  
 Electrical cable: 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 100-65-N   
 Freestanding: 75 mm hose connection or   
 Including support (VRS): G 3" threaded connection  
 Dry Installation: vertical or horizontal install.   
 Including cooling system: discharge flange NW65  
 (ODO): suction flange NW65

**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	current	Electrical cable size [mm2]			
		motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	star-delta start	direct start	star-delta start
230	88.9	-	2x4G10 + 4G2.5	-	2x4G10 + 4G2.5
400	51.1	4G16 + 4G2.5	2x4G6 + 4G2.5	4G16 + 4G2.5	2x4G6 + 4G2.5
500	40.9	4G10 + 4G2.5	2x4G6 + 4G2.5	4G10 + 4G2.5	2x4G6 + 4G2.5
starting current DOL start : 5.6 x rated current					
starting current YD start : 1.9 x rated current					
					* other voltages on request

