

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

Pump data

Solids passage 100 mm
Discharge/ Suction diameter 100 mm/ 100 mm
Impeller type: Vortex
Impeller diameter 250 - 230 mm
Recommended min. flow 6 l/sec (21 m3/h)
Weight 105 kg

Motor

Mains: 50 c/s – 3 phase
Rated shaft power 6.0 kW
Rated electrical power 7.7 kW
Nominal speed 1395 rpm
Motor efficiency 78 %
Power factor (cos phi) 0.85
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) or neoprene (CR)
Alt: viton (FPM)
Neoprene (CR)
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

Header coupling BWK 100

Guide bar coupling OWK 100

Freestanding 100mm hose connection or
Including support (VRS) G 4" threaded connection



Optional

- 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
- Thermo switches in stator windings
(standard for flame proof version)
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
Flameproof version with external cable

Connections

		Electrical cable size [mm2]					
voltage	current					flameproof version	
[V]*	[A]	direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	22.9	4G6	7G1.5	4G6 + 4G1.5	10G1.5	4G6 + 4G2.5	10G1.5
400	13.1	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
500	10.5	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
starting current DOL start : 4.2 x rated current							
starting current YD start : 1.4 x rated current						* other voltages on request	

