

Pump type: Submersible Duplex Pump

Application: Waste water, Seawater

Pump data

Solids passage	100 mm
Discharge/ Suction diameter	100 mm / 100 mm
Impeller type:	Vortex
Impeller diameter	210 - 185 mm
Recommended min. flow	6 l/sec (21 m ³ /h)
Weight	67 kg

Motor

Mains:	50 c/s – 3 phase
Rated shaft power	3.5 kW
Rated electrical power	4.5 kW
Nominal speed	1385 rpm
Motor efficiency	78 %
Power factor (cos phi)	0.84
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	Thermoplastic elastomer (TPE)
Seal lubrication	Oil
Seal pump side	Silicon carbide – Silicon carbide - Viton
Seal motor side	Carbon – Ceramic

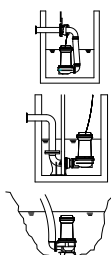
Installation options

Hose coupling BWK 100

Guide bar coupling OWK 100

Freestanding or 100 mm hose connection

Including support (VRS) G 4" threaded connection

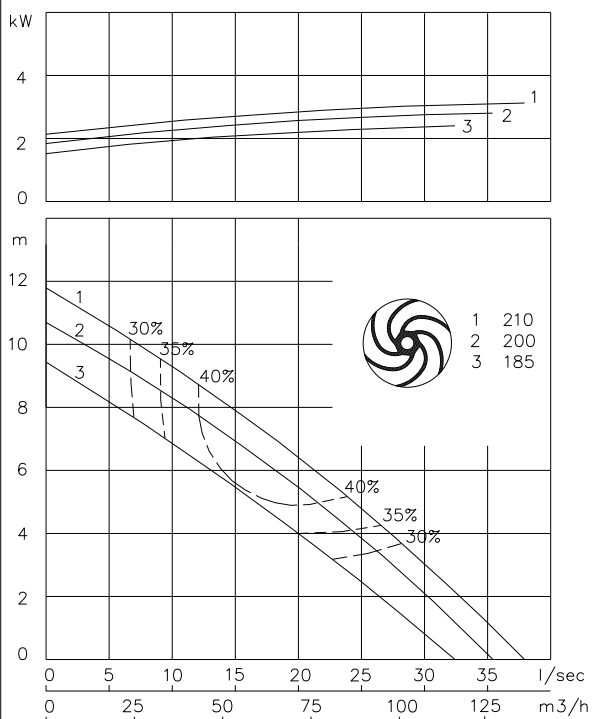


Optional

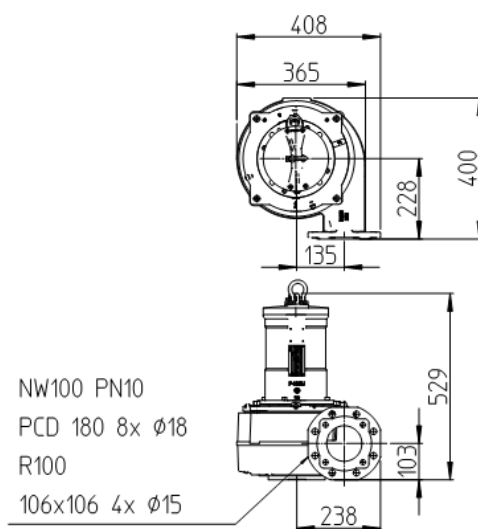
- Flameproof version, to class: II 2 G Ex d IIB c T4
Standard: II 2 G Ex b c d IIB T4 Gb
With Frequency control: II 2 G Ex b c d IIB T3 Gb
- Thermo switches in stator windings
(standard for flame proof version)
- Cable protective sheathing (AISI 316)
- Water detector in motor and oil chamber
Flameproof version with external cable and only in oil chamber

P2

ISO 9906 grade 2



dimensions in mm



NW100 PN10
PCD 180 8x Ø18
R100
106x106 4x Ø15

Connections

		Electrical cable size [mm ²]		motor protection and/or water detector		flameproof version	
voltage	current						
[V]*	[A]	direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	13.4	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
400	7.7	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
500	6.2	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
starting current DOL start : 4.3 x rated current							
starting current YD start : 1.4 x rated current						* other voltages on request	