DNP42-30DJ

Pump type:	Submersible slurry pump
Application:	Abrasive media

Pump data

Solids passage	80 mm
Discharge/ Suction diameter	100 mm/ 100 mm
Impeller type:	Vortex
Impeller diameter	190 mm
Recommended min. flow	6 l/sec (21 m3/h)
Weight	105 kg

Motor

Mains:	50 c/s – 3 phase
Rated shaft power	5.0 kW
Rated electrical power	6.3 kW
Nominal speed	1420 rpm
Motor efficiency	78 %
Power factor (cos phi)	0.82
Degree of protection	IP 68
Isolation class	F (155°C)
Max. water temperature	40°C
Standard cable length	10 m

Materials

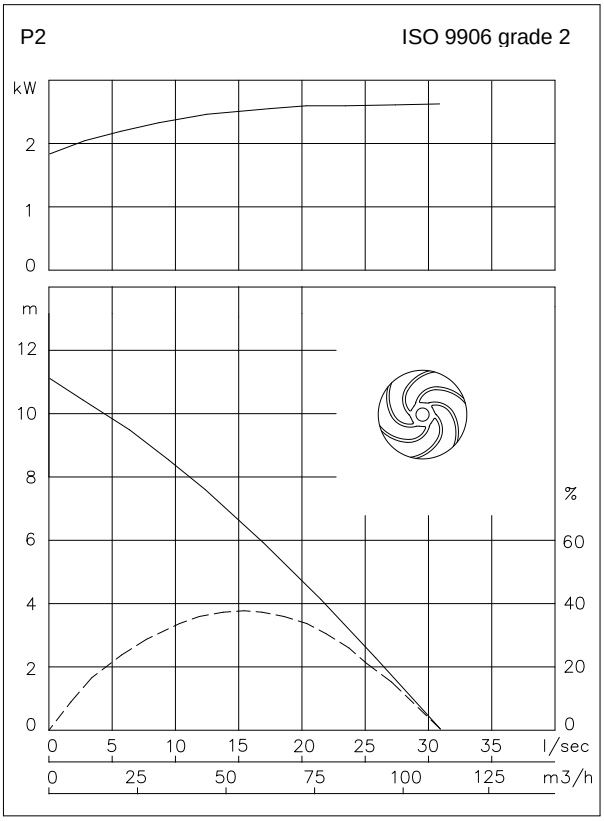
Pump casing/ wear plate	Nihard 4 (G-X300CrNiSi 9-5))
Impeller	Nihard 4 (G-X300CrNiSi 9-5))
Motor unit	Cast iron GG 25 (EN-GJL-250)
Shaft	AISI 431 Alt: AISI 316
Bolts	AISI 316
Elastomers	Nitrile (NBR) or neoprene (CR) Alt: viton (FPM)
Electrical cable	Neoprene (CR)
Seal lubrication	Oil
Seal pump side	Silicon carbide – silicon carbide
Seal motor side	Carbon - Ceramic
Coating	Two components polyurethane

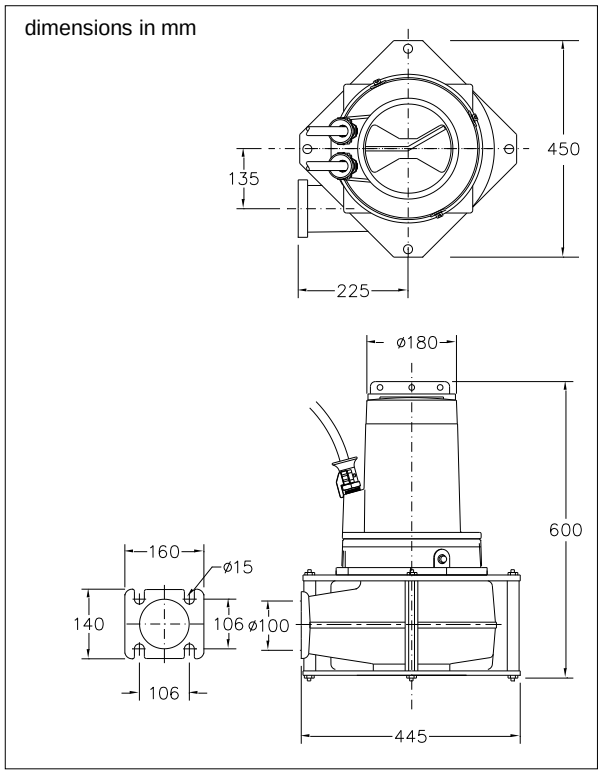
Installation options

Header coupling	BWK 100
Bottom elbow coupling	OWK 100
Freestanding Including support (VRS)	NW100 flanged elbow or 100 mm hose connection

Optional

- Version with agitator, see DNP42-31DJ
- 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			motor protection and/or water detector		flameproof version	
[V]*	[A]	direct start	stardelta start	direct start	stardelta start	direct start	stardelta start
230	19.5	4G2.5	7G1.5	7G2.5	10G1.5	7G2.5	10G1.5
400	11.2	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
500	9.0	4G2.5	7G1.5	7G1.5	10G1.5	7G1.5	10G1.5
starting current DOL start : 5.0 x rated current							
starting current YD start : 1.7 x rated current						* other voltages on request	