

Pump Data

Model	SM.V1
Type	Shredder Mixing Pump
Stage	1
Impeller Type	Open
Impeller Diameter	127 mm
Inlet Diameter	2 1/2" - 75mm
Outlet Diameter	2" - 63mm
Flow (Max.-Nominal-Min.)	50.7 – 30.9 - 10 m ³ /h
Head (at QMax.-QNominal-QMin.)	4.57 – 12.10 – 15.50 m
Max. Pump Efficiency %	40.6
Shaft Power (P2) (Max.)	2.96 kW
Shaft Power (P2) (at Max.Eff)	2.51 kW
Rated NPSH	1.2 m

Fluid Data

Fluid	Water
Density	1000 kg/m ³
Kinematic Viscosity	1 cSt
Temperature	20°C

Other

Shaft Diameter	30.00 mm
Max.Sand Quantity	50.00 g/m ³
Max.Sand dimension	20.00 mm
Rotation	CCW
Connection	NEMA Standard

Motor Data

Model	3MAS 90LK2
Rated Power (kW)	3 kW
Rated Power (HP)	4 HP
Rated Speed	2875 rpm
Rated Voltage (V)	230-400 (D / Y)
Frequency	50 Hz
Rated Current (A)	10.3-5.92 (D / Y)
Number of Phase	3
Number of Pole	2
Cos φ 100% load	0.84
Efficiency 100% load	0.871 - IE3 Class
Insulation Class	F
Protection Class	IP 55
Temp. Rise Class	B
Duty Type	S1
Service Factor	1.0
Sound Pressure Level	65 dB
Vibration Class	Grade A
Bearing Front-Back	6205 ZZ/CM
Protection	Thermistor (PTC or Bimetal)

Shaft Seal

Type	Mechanical Seal (UMBRA)
Material	SiC/Sic Viton 304

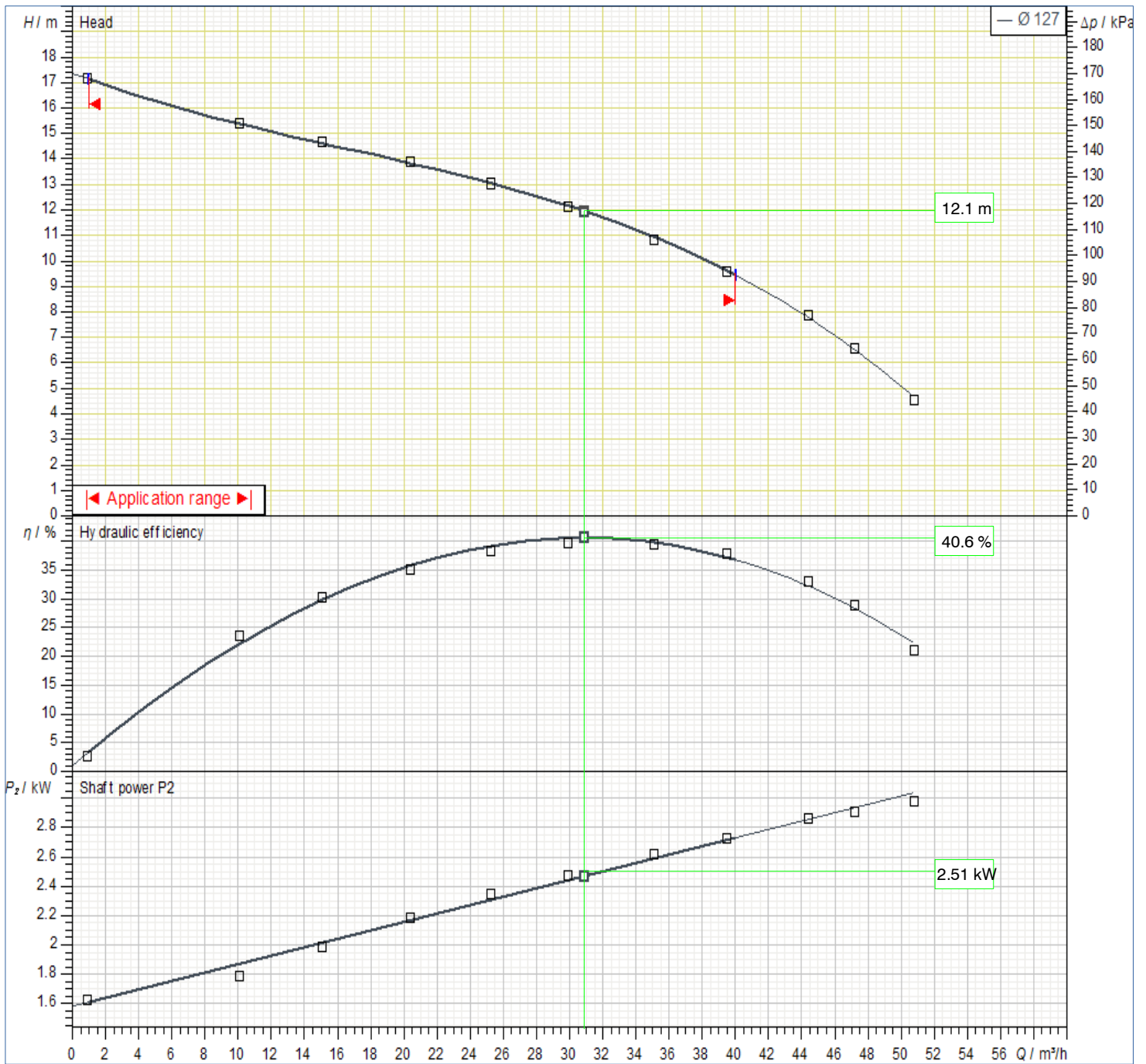
Materials

Shaft	Stainless Steel (AISI 420)
Impeller	Stainless Steel (AISI304)
Shredder	Stainless Steel (AISI304)
Volute	Cast Iron (GGG 40)
Cable	H07RN-F 7x4 mm ²

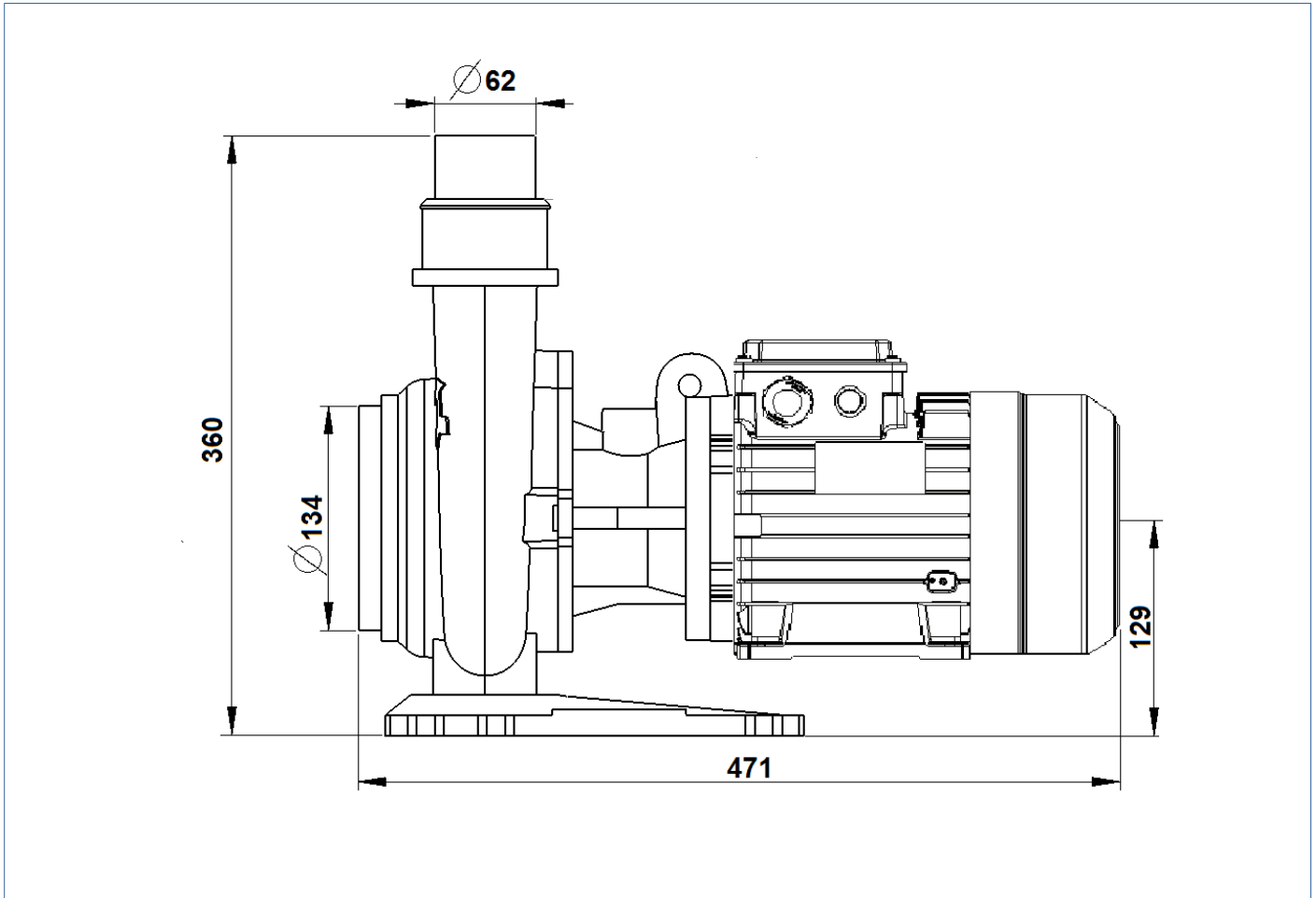
Duty Point

Flow	Head	NPSHr	Shaft Power (P2)	Motor Input Power (P1)	Pump Eff %	Total Eff %
30.9 m ³ /h	12.1 m	1.2 m	2.51 kW	2.88 kW	40.60	35.36

Pump Curves



Dimensions and Weights



Weight of Motor (kg)	18.5
Weight of Pump (kg)	25.0
Total Weight (kg)	43.5