

Single-channel closed impeller

General characteristics

Single-channel closed impeller											
motor power	22,0 kW										
poles	4										
discharge	DN150 ÷ DN250 horizontal										
free passage	max 130 mm										
max flow rate	170 l/s										
max head	33.0 m										

Electromechanical assembly

Electromechanical assembly in GJL-250 cast iron, for submerged operation. Seal set comprising 2 (two) opposing silicon carbide mechanical seals in inspectable oil sump. Ecological dry motor.

Applications

All product images are indicative only

Designed for heavy-duty applications, they are generally used in civil and industrial wastewater treatment plants, for lifting in sewer systems and for pumping industrial sludges. Transporting rainwater containing solids and recycling raw or activated sludges and biological liquids. This series is prefitted for installation of the ZENIT cooling system for dry or semi-submerged installation.

Construction materials

CaseCast iron EN-GJL 250ImpellerCast iron EN-GJL-250Nuts and boltsStainless steel - Class A2-70

Standard gasket Rubber - NBR

Shaft Stainless steel - AISI 420

Cooling jacket Carbon steel or AISI 304 stainless steel

Paint type Ecological bicomponent epoxy (medium thickness 150 μ m)

Set of standard mechanical seals Two silicon carbide mechanical seals (2SiC)

Operating limits

Maximum operating temperature $40 \, ^{\circ} \text{C}$ PH of treated fluid $6 \div 14$ Viscosity of treated fluid $1 \, \text{mm}^2/\text{s}$ Maximum immersion depth $20 \, \text{m}$ Density of treated fluid $1 \, \text{Kg/dm}^3$ Maximum acoustic pressure $70 \, \text{dB}$ max starts per hour $20 \, \text{m}$







Cooling system

Dry installation available using the cooling jacket (see details to page 17)



Cable Gland

Cable gland system to guarantee perfect water-tightness. The universal thread ring-nut can be removed to fix a rigid or flexible duct to the cable gland to protect the power supply cable.



Sensor

Sensor for detecting water in the mechanical seal oil chamber. Connected to an electrical panel, the sensor provides immediate warning of wear on the first mechanical seal, preventing possible damage to the motor.



Mechanical seals

Two silicon carbide (SiC) mechanical seals in oil sump.



Oil sump

Large oil sump to guarantee longer mechanical seal lifetime.



Drive shaft

Impeller connected to the drive shaft by means of tapered coupling.



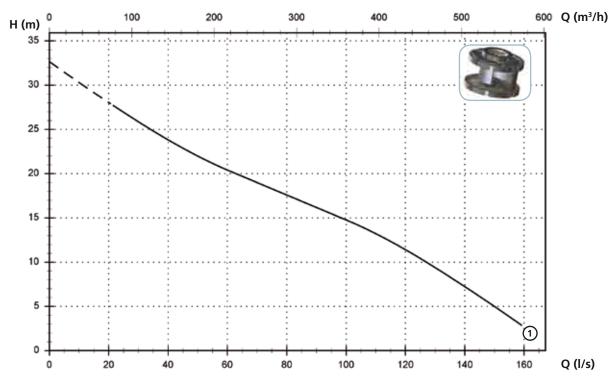
Free passage

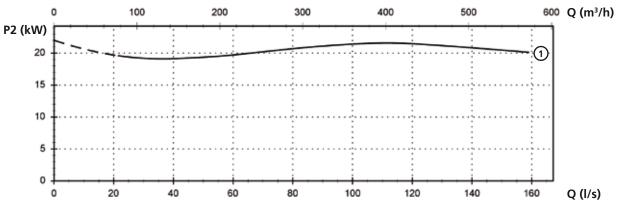
Wide free passage allowing the expulsion of solids and preventing fouling of the impeller.



Models with horizontal DN150 PN10-16 flanged discharge - 4 poles

Performances



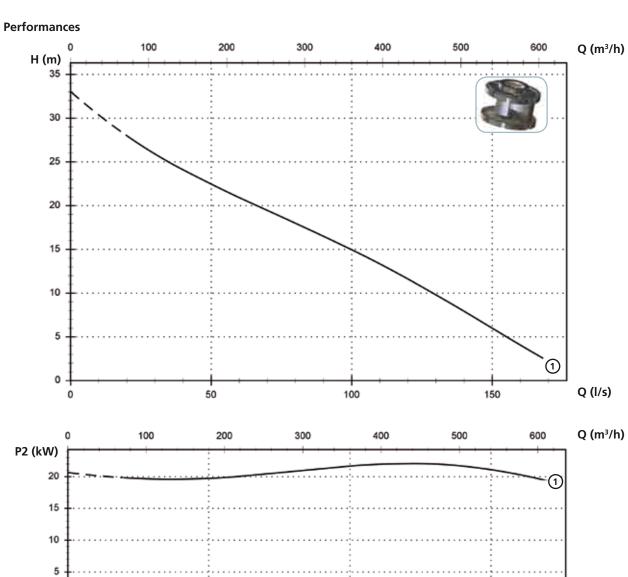


Technical data

	V	Phases	P1 (kW)	P2 (kW)	Α	Rpm	Start	Ø	Free passage
① SMN 3000/4/150 A1LT/50	400	3	25.3	22	43.5	1450	ΥΔ	DN150 PN10-16	100x130 mm



Models with horizontal DN200 PN10 flanged discharge - 4 poles



Technical data

0

	V	Phases	P1 (kW)	P2 (kW)	Α	Rpm	Start	Ø	Free passage
① SMN 3000/4/200 A1LT/50	400	3	25.3	22	43.5	1450	ΥΔ	DN200 PN10	100x130 mm

100

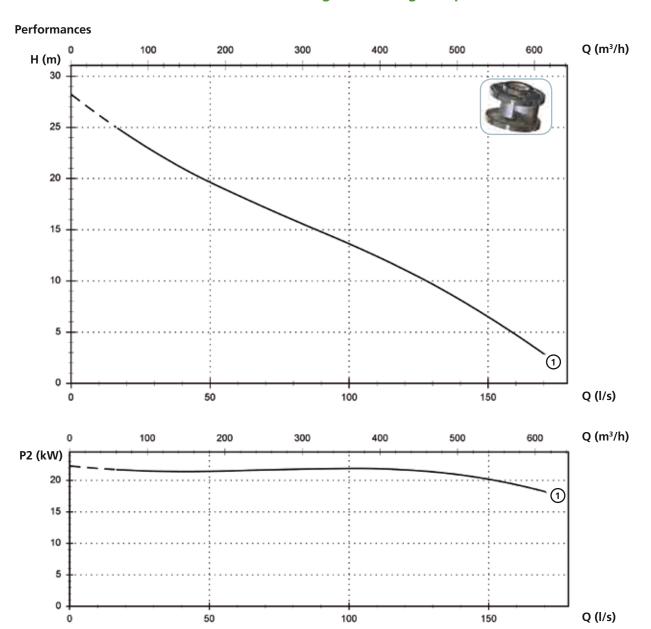
50



Q (I/s)

150

Models with horizontal DN250 PN10 flanged discharge - 4 poles



Technical data Free ٧ Phases P1 (kW) P2 (kW) Α Rpm Start Ø passage 1 SMN 3000/4/250 A1LT/50 400 25.3 22 43.5 1450 ΥΔ DN250 PN10 100x130 mm

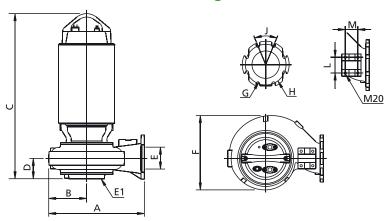


Versions available

(Key to versions on page 16)

Key to versions on page 16)																				
, , , , , , , , , , , , , , , , , , , ,	Electrical variants							Cooling				Mechanical seals								
	N A E	Т	T C	T C D	T C D	T C D G	T C G	T C S T	T C S G	T S	T R	T R G	N	CC CCE	FT	C G F T	2SIC	SICM	SICAL	2SICAL
SMN 3000/4/150 A1LT/50										•			•	•			•			
SMN 3000/4/200 A1LT/50										•			•	•			•			
SMN 3000/4/250 A1LT/50										•			•	•			•			

Overall dimensions and weights



	Α	В	С	D	Е	E1 (*)	F	G	Н	J	L	М	kg
SMN 3000/4/150 A1LT/50	650	255	1200	140	150	200	505	24	240	45°	109	79	392
SMN 3000/4/200 A1LT/50	695	275	1200	145	200	200	540	24	295	45°	109	79	393
SMN 3000/4/250 A1LT/50	785	310	1200	145	250	200	610	24	350	30°	109	79	402

Dimensions in mm

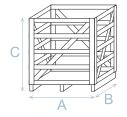
All weights and dimensions are indicative only

(*) DN of the suction flange - PN6 Packaging dimension

	Α	В	С
SMN 3000/4/150 A1LT/50	1100	900	1350
SMN 3000/4/200 A1LT/50	1100	900	1350
SMN 3000/4/250 A1LT/50	1100	900	1350

Dimension in mm

All weights and dimensions are indicative only



Installations available

