ABS submersible sewage pump XFP 100J - 600X

ABS submersible sewage pumps, series XFP are suitable for clear and wastewater, for sewage with sludge containing solids and fibrous material.

Construction

- Energy saving premium efficiency motor in accordance with IE3 of IEC 60034-30, exceeding EFF1 of CEMEP regulation.
- □ The water-tight fully flood-proof motor and the pump section form a compact and robust unit, easy to clean and easy to service.
- □ Water pressure sealed connection chamber, with two stage cable entry, protected against excessive cable tension and bending.
- □ Bimetallic thermal sensors in the stator which open at 140 °C.
- □ Rotor and rotor shaft dynamically balanced, upper and lower bearings lubricated-for-life, maintenance-free.
- □ Triple shaft sealing.
- Upper and lower sealing by means of a silicon carbide mechanical seal, independent of the direction of rotation.
- Inspection chamber with sensor for moisture protection to indicate water leakage through mechanical seal.
- Option: Blockage- and maintenance-free internal closed looped cooling system. Cooling medium: Glycol - water mixture (standard for PE6 range).
- □ Hydraulic parts with various impeller options: 2-or 3-channel Contrablock, 2-or 3-channel closed or 3-channel skew.
- □ These pumps are built as standard in ATEX explosion-proof version in accordance with international standards e.g. Ex d IIB T4/ATEX II 2Gk.

Hydraulics

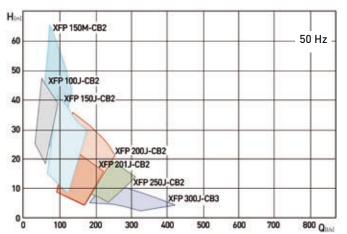
You have the choice of the following hydraulics in the range of DN 100 to DN 600 discharge:

Hydraulics / Impeller type

•			
XFP 100J	CB2	XFP 300J	CH2
XFP 100J	CH2	XFP 300M	CH2
XFP 150J	CB2	XFP 301M	CH2
XFP 150M	CB2	XFP 350M	CH3
XFP 150J	CH2	XFP 351M	CH3
XFP 200J	CB2	XFP 400M	CH2
XFP 200J	CH2	XFP 400R	CH3
XFP 200M	CH2	XFP 500U	CH3
XFP 201J	CB2	XFP 501U	SK3
XFP 250J	CB2	XFP 600V	CH3
XFP 250M	CH2	XFP 600X	SK3
XFP 300J	CB3		

CB... = Contrablock, CH...= closed channel, SK...= skew; last digit [2 or 3] = Number of impeller vanes

Performance fields with Contrablock system





Motor

Water pressure sealed premium efficiency motors, (3-phase, squirrel cage induction motors), from 15 to 350 kW and, depending on hydraulic requirements as 4- to 12-pole versions.

Voltage: 400 V3~, 50 Hz (other voltages on request).

Insulation material: H (motor winding protected by temperature

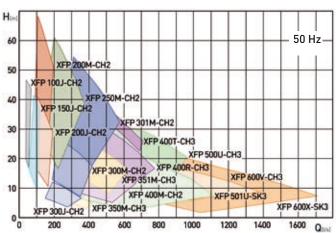
sensor 140 °C).

Temperature rise: According to class A.

Protection type: IP68.

Start-up: direct on line (DOL), soft starter or star-delta.

Performance field with channel impeller



ABS submersible sewage pump XFP 100J - 600X GB 2012-01-23 | We reserve the rights to alter specifications due to technical developments.

Standard and options

Description	Standard	Option
Max. ambient temperature	40 °C	60 °C
Max. submergence depth	20 m	
Mains voltage	380420 V/50 Hz	230 V, 690 V/50 Hz
Voltage tolerance	± 10 % at 400 V	
Insulation class	H (140)	H (160) (not for explosion-proof)
Start-up	DOL (direct on line), star-delta or soft starter	
Approval	Ex/ATEX	
Cables	S1BN8-F	EMC shielded cables
Cable length	10 m	15 m, 20 m, other length on request
Mechanical seal (medium side)	SiC-SiC (NBR)	SiC-SiC (Viton execution)
Mechanical seal (motor side)	SiC-SiC	
0-rings	NBR	Viton
Preparation for lifting hoist	Lifting hoop	Lifting hoop in stainless steel
Protective coating	Two component coating epoxy resin	Special coatings on request
Cathodic protection		Zinc anodes on request
Installation	Wet-well	Dry-well vertical/horizontal
Motor cooling	Cooling by surrounding medium	Closed loop cooling system*
Moisture sensor motor housing		DI (sensor for moisture detection)*
Moisture sensor inspection chamber	DI (sensor for moisture detection)	

^{*} standard for PE6 motor range

Motor protection X = Standard; O = Option; - = not possible

PE4 to PE6		Ex	Ex VFD drive
Winding	Bi-metallic switch	Χ	-
	Thermistor (PTC)	0	Χ
	PT 100	0	0
Seal protection	Inspection chamber	Χ	Х
	Motor housing	O (X for PE6)	0
	Connection box	O (X for PE6)	0
Temperature bearing upper/lower	Bi-metallic switch	O (X for PE6)	0
	Thermistor (PTC)	0	0
	PT 100	0	0
	Vibration sensor	0	0

Materials

Motor	Standard	Option
Connection chamber	EN-GJL-250	
Cooling chamber	EN-GJL-250	
Cooling jacket	1.0036	
Motor housing	EN-GJL-250	
Motor shaft	1.4021	1.4462
Fasteners (medium contacted)	1.4401	
Lifting hoop (PE4 & 5)	EN-GJS-400-18	1.4470
Lifting hoop (PE6)	1.0060	1.4462
Hydraulics	Standard	Option
Volute	EN-GJL-250	
Impeller	EN-GJL-250	1.4470
Bottom plate (not all versions)	EN-GJL-250	1.4470
Shroud (XFP 501U and 600X)	EN-GJL-250	
Wear ring (not all versions)	EN-GJL-300	1.4581

tandard Option	Connection sys. (wet)
N-GJL-250 Non sparking	Pedestal
tainless steel	Fastening elements
poxy resin	Protective coating
alv. steel Stainless steel	Guide rail
N-GJS-400-18 1.4470	Pipe retainer
tandard Option	Connection sys. (dry)
0036 Galv. steel	Support frame
N-GJS-400-18 1.4470 Option	Pipe retainer Connection sys. (dry)



