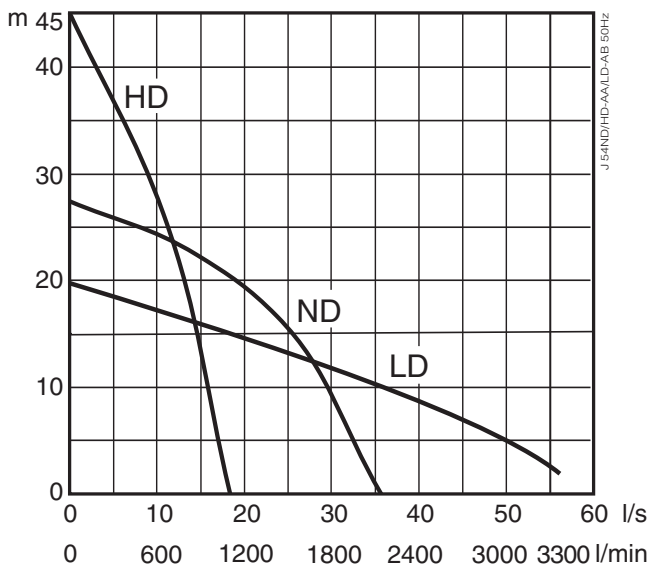


Pump performance



Materials

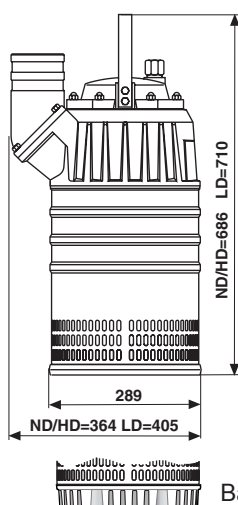
		EN	ASTM
Castings:	Aluminium	EN1706:AC-43100	ASTM AISi10mg
Casing and fasteners:	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Shaft :	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Impeller LD:	Hardened chrome steel	10088:X30Cr13 (1.4028)	AISI 420
Impeller ND, HD:	White cast iron	EN1695G-X260Cr27	ASTM A 532: Alloy III A
Rubber parts:	Nitrile rubber		

Mechanical seals

Upper	Carbon against Stainless steel
Lower	Silicon carbide against Silicon carbide

Bearings

Upper	Single row type 62204 2RS C3
Lower	Double angular contact type 3306 C3



Weight

50 kg without cable.

Submersible

Maximum depth 20 m.

Free passage

□ 7.5 mm.

Surface finish

Bare surface.

Discharge connection

Plain hose	3"	4"	6"
Threaded	NPT 3" / G 3"	NPT 4" / G 4"	NPT 6" / G 6"
Storz	B	A	F

Motor performance at full load 50 Hz

Speed	2850 rpm						
Phase	3						
Power input	P ₁ = 6,8 kW						
Power nominal	P ₂ = 5,8 kW						
Voltage	230V	346V	380V	400V	415V	500V	1000V
Current	21A	13,2A	12A	12A	11A	9,2A	4,6A
Cos φ	0,86						

Electrical data

Motor enclosed submersible IP 68.
Built in contactor unit.
Insulation class F = 155°C.

Cooling

Cooling is achieved by the media being pumped along the motor. Snore operation is possible.

Protection

Motor protection by a built in contactor unit on D.O.L connected pumps. Thermal switches in each phase and contactor coil are connected in series. Motor protection can be arranged external on star-delta connected pumps. Cables for thermal contacts are lead out together power cable.

Direct start with dual voltage motor.

The standard motor (230/400V) are star-connected for 400 volts supply. Motor can also be delta-connected for 230 volts supply. This change is made at the top of the pump in the terminal box. Voltage of the contactor need to follow motor voltage.

Star-delta start with dual voltage motor.

The motor (400/690V) are connected via a multiple core cable to an external star-delta starter for 400 volt supply. Cables for thermal controls can be connected in the starter box to include motor protection.

Cable and connecting plug.***

Starting method	Direct on line start (DOL)		Star-delta start (SD)
	230 V	346- 500 V	346-500 V
Cable*	H07RN-F4G 2,5	H07RN-F4G 2,5	A07RN-F10G 2,5
Plug**	free cable ends	CEE 32A (400V)	free cable ends

* Standard length 20m, **With phase changer,

***For cable 1000V consult ABS.

Accessories

Series connection

Replacement of the bottom plate and outer casing makes it possible to connect pumps in series.

Zinc anodes

Available for protection against galvanic corrosion.

Surface coating

Coating on complete pump for high resistance against corrosion and wear.

Level control

Possible with an external control unit.

Electronic surveillance system

Electronic motor supervision relay indicating wrong rotation - phase failure - incorrect phase sequence.

Diffuser ND/HD in polyurethane

For applications with extremely tough wear conditions or aggressive media.