

# ABS submersible drainage pump J 54

## Specification

Electric submersible pump.  
 Maximum submergence: 20 m (65 ft). • Protection class IP 68.  
 Max temperature of pumped medium at max power input and continuous duty 40°C (104°F).  
 Max medium density 1100 kg/m<sup>3</sup> (0.0397 Lbs/inch<sup>3</sup>)  
 pH of the pumped medium 5-8.  
 Strainer hole ND/HD: 7.5 x 22 mm, LD: max 9 x 28 mm.  
 Max number of starts 30/hour.

**J 54 ND Medium head, 3-phase.**

**J 54 HD High head, 3-phase.**

**J 54 LD High flow, 3-phase.**

## Electric Motor

3-phase squirrel-cage induction motor, 60 Hz  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 6.6 kW (9 Hp). Speed: 3400 rpm

Voltage, V	230	380	460	575
Nominal current, A	22	13.3	11	8.8

## Starting method

D.O.L. start with built-in contactor.  
 D.O.L. start with built-in SoftDrive (400-460V).  
 When used with VFD, pump must be equipped with terminal block instead of contactor.

## Power Cable

20 m/65 ft S1BN8-F (standard cable):  
 4 x 4 sq.mm. (230V)  
 4 x 2.5 sq.mm. (380-575V)

20m/65 ft NSSHÖU.../3E (heavy duty cable):  
 3x2.5+3x2.5/3E (230-575V)

## Motor Protection

Built-in thermal switches in the stator windings (140°C/284°F, ±5), connected to built-in contactor.

## Shaft Seal

Double mechanical seal in oil bath.  
 Primary seal: Silicon carbide on silicon carbide  
 Secondary seal: Stainless steel on antimony treated carbon

## Bearings

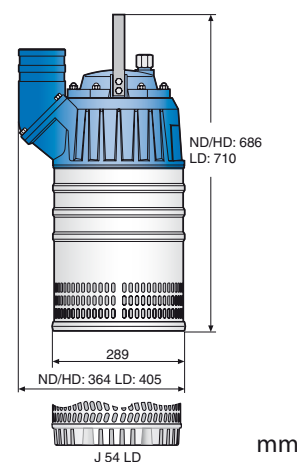
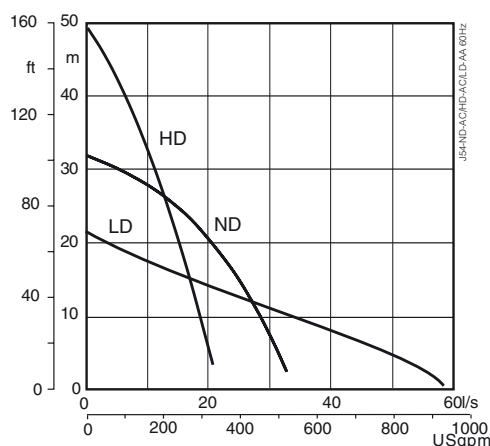
Upper bearing: Single-row deep groove ball bearing.  
 Lower bearing: Double angular contact ball bearing.

## Discharge Connections

3" (standard HD), 4" (standard ND), 6" (standard LD) hose connections.  
 3", 4", 6" B.S.P. thread.  
 3", 4", 6" NPT thread.

Materials		EN	ASTM
Castings	Aluminium	EN 1706: AC-43100	ASTM AlSi10mg
Casing / Handle / 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	EN-GJN-HV600(XCr23)	ASTM A 532: Alloy III A
Wear parts / O-rings	Nitrile rubber		

GB 60 Hz



## Weight (without cable)

50 kg/110lbs

## Options and accessories

Zinc anodes • Surface protection coating  
 Diffuser in polyurethane (ND+HD) • Electronic motor supervision  
 Series connection • Starter and control units  
 Automatic level control unit • Floatation ring • Repair kit  
 Discharge connection accessories and hose