

ABS submersible drainage pump JC 84

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/m³ (0.0397 lbs/inch³)
 pH of the pumped medium 5-8.
 Strainer hole ND/HD: 7.5 x 22 mm, SD: 7.5 x 25 mm,
 LD: max 9 x 28 mm. Max number of starts 30/hour.

- JC 84 ND Medium head, 3-phase.**
- JC 84 HD High head, 3-phase.**
- JC 84 SD High head, 3-phase.**
- JC 84 LD High flow, 3-phase.**

Electric Motor

3-phase squirrel-cage induction motor, 60 Hz.
 Service factor 1.1. Class F insulation.
 Motor rating P₂: 11.0 kW (15 Hp). Speed: 3400 rpm

Voltage, V	230	380	460	575
Nominal current, A	34	20	17	13.5

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 2.5 sq.mm. (575 V)
 4 x 4 sq.mm. (380-460 V)
 4 x 6 sq.mm. (230 V)

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

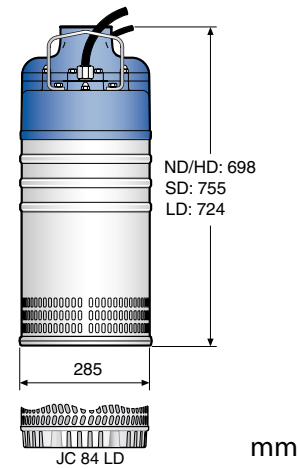
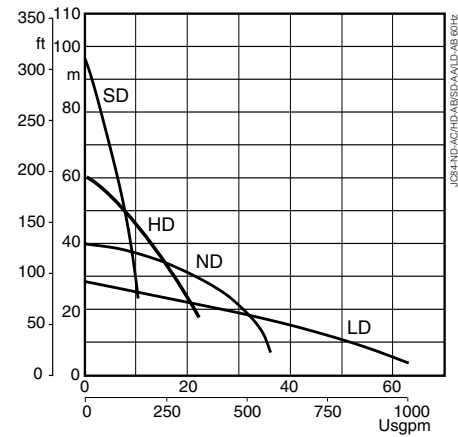
Upper bearing: Single-row deep groove ball bearing.
 Lower bearing: Double angular contact ball bearing.

Discharge Connections

3" (standard HD/SD), 4" (standard ND, LD) G/B.S.P. thread.
 3", 4" NPT thread.

Materials		EN	ASTM
Castings	Aluminium	EN 1706: 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, SD	White cast iron	EN-GJN-HV600(XCr23)	ASTM A 532: Alloy III A
Wear parts SD	Polyurethane		
Wear parts ND, HD, LD / O-rings	Nitrile rubber		

GB 60 Hz



Weight (without cable)

ND/HD/LD: 60 kg/132 lbs, SD: 67 kg/148 lbs

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 • Floation system • Repair kit
 Discharge connection accessories and hose