

# Submersible drainage center-line pump JC 34

**SULZER**

## 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: 8 x 33 mm (5/16" x 1 5/16").  
 Max number of starts 30/hour.

**JC 34 ND** Medium head, 3-phase  
**JC 34 HD** High head, 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>: 4.3 kW (6 Hp). Speed: 3400 rpm.  
 D.O.L. start with built-in contactor.

Voltage, V	230	460	575
Nominal current, A	16	8	6.4

## Power cable

20 m/65 ft H07RN8-F (standard cable):  
 4 x 4 sq.mm (230V)  
 4 x 2.5 sq.mm (460-575V)

20 m/65 ft NSSHÖU.../3E (heavy duty cable):  
 3x1.5+3x1.5/3E

## Motor protection

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

## Shaft seal

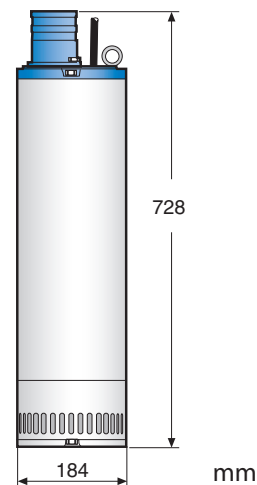
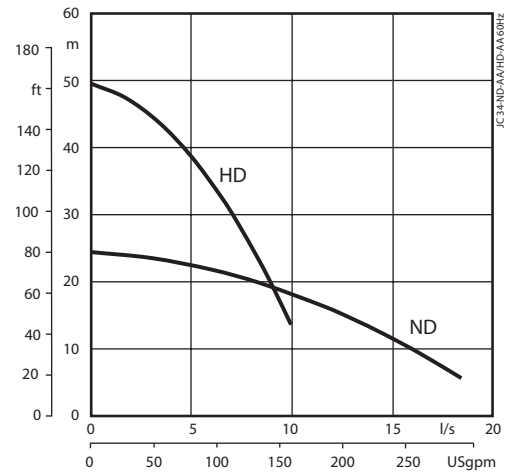
Double mechanical seal in oil bath.  
 Primary seal: Silicon carbide on silicon carbide.  
 Secondary seal: Stainless steel on antimony treated carbon.

## Bearings

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

## Discharge connections

2" (standard HD), 3" (standard ND) hose connections  
 2", 3" B.S.P. thread.  
 2", 3" NPT thread.



## Weight

31 kg/68 lbs (without cable)

## Options and accessories

Zinc anodes. Starter and control units.  
 Automatic level control unit. Repair kit.  
 Discharge connection accessories and hose.

## Materials

Description	Material	EN	ASTM
Castings	Aluminium	EN 1706:AC-43100	ASTM A1Si10mg
Casing	Aluminium	AW5754	ASTM AA 5754
Fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Impeller	Hardened chrome steel	10088:X30Cr13 (1.4028)	AISI 420
Wear parts / O-rings	Nitrile rubber		