

Submersible Drainage Pump J 12

SULZER

Specification

Electric submersible pump.

Maximum submergence: 65 ft. Protection class IP 68.

Max temperature of pumped medium at max power input and continuous duty 104 °F.

Max medium density 0.0397 lbs/inch³. pH of the pumped medium 5-8.

Strainer hole: 1/4" x 7/8". Max number of starts 30/hour.

J 12 W/WKS* Medium head, single-phase

J 12 D/DKS* Medium head, 3-phase

*option: built in float switch, excl. 575 V

Electric Motor

Single-phase induction motor with built-in capacitor, 60 Hz.

Service factor 1.1. Class F insulation.

Motor rating P₂: 1.5 Hp. Speed: 3360 rpm

η: 59.1 (50 %), 66.3 (75 %), 69.5 (100 % load)

Voltage, V	115	230
Nominal current, A	13.8	6.9

3-phase squirrel-cage induction motor, 60 Hz.

Service factor 1.1. Class F insulation.

Motor rating P₂: 1.5 Hp. Speed: 3380 rpm.

D.O.L. start with built-in contactor.

η: 74.6 (50 %), 75.3 (75 %), 72.3 (100 % load)

Voltage, V	230	460	575
Nominal current, A	4.3	2.1	1.7

Power Cable

Heavy duty power cable for submersible pump applications.

65 ft AWG 14/3 SOOW (UL, CSA, MSHA), single-phase

65 ft AWG 16/4 SOOW (UL, CSA, MSHA), 3-phase

Motor Protection

Built-in thermal switches in the stator windings (284°F, ±5).

Shaft Seal

Double mechanical seal in oil bath.

Primary seal: Silicon carbide on silicon carbide.

Secondary seal: Silicon carbide on silicon carbide.

Bearings

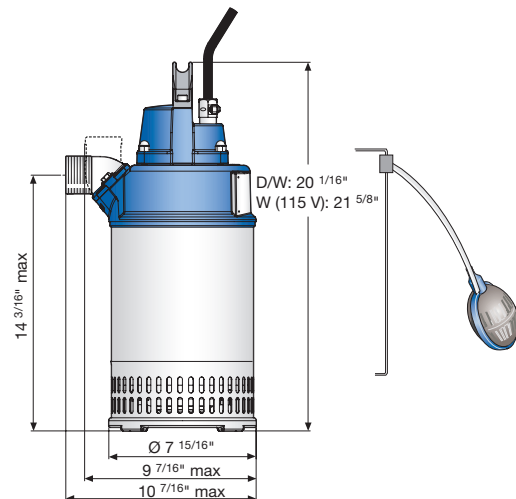
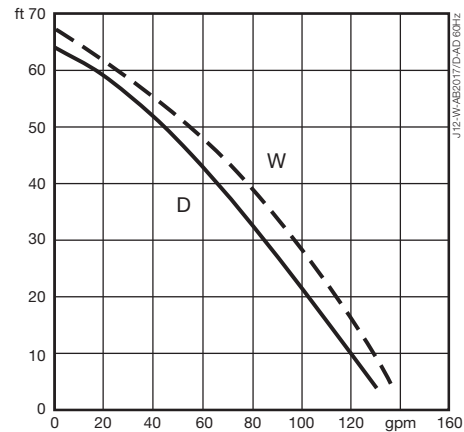
Upper bearing: Single-row deep groove ball bearing.

Lower bearing: Double angular contact ball bearing.

Discharge Connections

1 1/2", 2", 2 1/2", 3" hose connections.

2" (standard), 3" NPT threaded connections.



Weight

D: 40 lb, W: 42 lb (without cable)

Options and Accessories

Zinc anodes. Surface protection coating.

Bottom suction adapter. Series connection.

Starter and control units. Floatation ring.

Carry case. Repair kit.

Discharge connection accessories and hose.

Materials

Description	Material	ASTM
Castings	Aluminium	ASTM AISI10mg
Casing / Fasteners	Stainless steel	AISI 304
Shaft	Stainless steel	AISI 420
Impeller	High-chrome alloy	ASTM A 532: Alloy III A
Wear parts / O-rings	Nitrile rubber	