Submersible Drainage Pump J 12



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: 6.5 x 22 mm (1/4" x 7/8"). Max number of starts 30/hr.

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

Electric motor

Single-phase induction motor with built-in capacitor, 60 Hz. Service factor 1.1. Class F insulation. Motor rating P_{\circ} : 1.1 kW (1.5 Hp). Speed: 3360 rpm

ŋ: 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: 1.1 kW (1.5 Hp). Speed: 3380 rpm

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

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

Voltage, V	230	380	460	575
Nominal current, A	4.3	2.6	2.1	1.7

Power cable

20 m/65 ft H07RN8-F:

3x1.5 sq.mm (single-phase)

4x1.5 sq.mm (3-phase)

Motor protection

Built-in thermal switches in the stator windings (140°C/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.

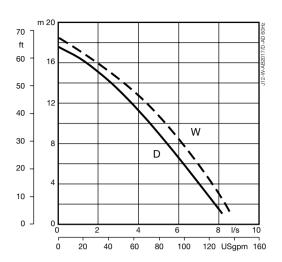
Bearings

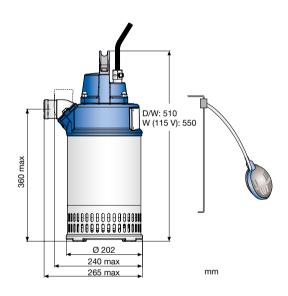
Upper bearing: Single-row deep groove ball bearing. Lower bearing: Single-row deep groove ball bearing.

Discharge connections

1 ½", 2" (standard), 2 ½", 3" hose connections. 2", 2 ½", 3" B.S.P. threaded connections.

2", 3" NPT thread.





Weight

D: 18 kg (40 lb) W: 19 kg (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.

^{*} option: built in float switch excl. 575V

Materials

Description	Material	EN	ASTM
Castings	Aluminium	EN 1706:AC-43100	ASTM AlSi10mg
Casing / Fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Impeller	White cast iron	EN-GJN-HV600(XCr23)	ASTM A 532: Alloy III A
Wear parts / O-rings	Nitrile rubber		