# Submersible drainage pump J 205



## 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: 8 x 34 mm (5/16" x 1 5/16").

Max number of starts 30/hour.

J 205 ND Medium head, 3-phase
J 205 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>: 26.0 kW (35 Hp). Speed: 3500 rpm

Voltage, V	230	380	460	575
Nominal current, A	82	50	41	33

## Starting method

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

D.O.L. start with built-in SoftDrive (380-460V).

Star-Delta start with built-in terminal block.

When used with VFD, pump must be equipped with terminal block instead of contactor.

#### Power cable

20 m/65 ft H07RN8-F (standard cable):

1-4x10 sq.mm. (460-575V D.O.L.-start)

1-4x16 sq.mm. (380V D.O.L.-start)

1-4x25 sq.mm. (230V D.O.L.-start)

2-4x6 sq.mm. + 4x1.5 sq.mm.(380-575V star-delta start)

2-4x10 sq.mm. + 4x1.5 sq.mm. (230V star-delta start)

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

3x6+3x6/3E+3x1.5 (3 control cables included) (460-575V D.O.L.) 3x10+3x10/3E+3x2.5 (3 control cables included) (380V D.O.L.)

## **Motor protection**

Built-in thermal switches in the stator windings (140°C/284°F, ±5), connected to built-in contactor, SoftDrive or to separate control box. DI leakage sensor as option, but not in combination with built-in contactor or SoftDrive.

#### Shaft seal

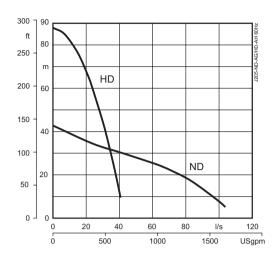
Double mechanical seal in oil bath, mounted in seal cartridge for easy service.

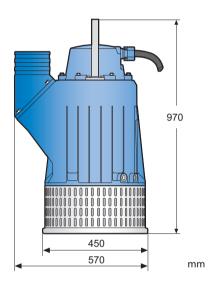
Primary seal: Silicon carbide on silicon carbide.

Secondary seal: Silicon carbide on antimony treated carbon.

#### **Bearings**

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





#### Discharge connections

4" (standard HD), 6" (standard ND), 8" hose connections.

4", 6", 8" B.S.P. thread.

4", 6", 8" NPT thread.

#### Weight

155 kg / 342 lbs (without cable)

#### Options and accessories

Zinc anodes. Surface protection coating.

Wear plate in polyurethane. Electronic motor supervision.

Series connection. Starter and control units.

Automatic level control unit. Floatation system. Repair kit.

Discharge connection accessories and hose.

# **Materials**

Description	Material	EN	ASTM
Casing / Castings	Aluminium	EN 1706:AC-43100	ASTM AlSi10mg
Strainer / Handle / 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		