

# Submersible Drainage Pump Type ABS J 405

EN 50 Hz

## Specification

Electric submersible pump.  
 Maximum submergence: 20 m. • Protection class IP 68.  
 Max temperature of pumped medium at max power input and continuous duty 40°C.  
 Max medium density 1100 kg/m<sup>3</sup>. • pH of the pumped medium 5-8.  
 Strainer hole 8 x 34 mm. • Max number of starts 30/hour.

### J 405 ND Medium head, 3-phase.

### J 405 HD High head, 3-phase.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 35.0 kW. Speed: 2930 rpm

Voltage, V	230	400	500 - 550	690	1000
Nominal current, A	108	62	51	36	25

## Starting method

D.O.L. start with built-in contactor (230-550 V).  
 D.O.L. start with built-in terminal block (230-1000 V).  
 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 type S1BN8-F (standard cable):  
 4x10 sq.mm. (690 V DOL-start with contactor)  
 4x16 sq.mm. (400-550 V DOL-start with contactor)  
 4x10 sq.mm. + 4x1.5 sq.mm. (690 V DOL-start with terminal block)  
 4x16 sq.mm. + 4x1.5 sq.mm. (400-550 V DOL-start with terminal block)  
 2-4x6 sq.mm. + 4x1.5 sq.mm. (690 V star-delta start)  
 2-4x10 sq.mm. + 4x1.5 sq.mm. (400-550 V star-delta start)  
 2-4x25 sq.mm. + 4x1.5 sq.mm. (230 V star-delta start)

## 20 m type NSSHÖU.../3E (heavy duty cable):

3x6+3x6/3E+3x1.5 (3 control cables included) (1000 V DOL-start)  
 3x10+3x10/3E+3x1.5 (3 control cables incl.) (690 V DOL-start)  
 3x16+3x16/3E+3x2.5 (3 control cables incl.) (400-550 V DOL-start)

## Motor Protection

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

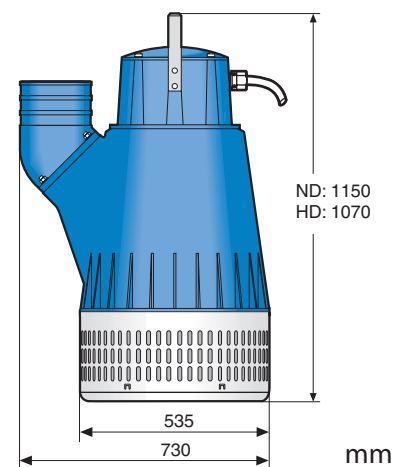
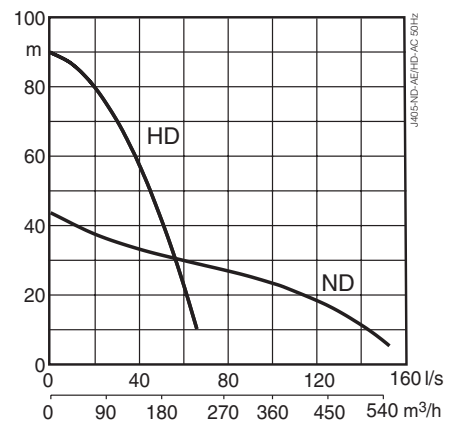
## Shaft Seal

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.

Materials		EN	ASTM
Casing and castings	Aluminium	EN 1706: AC-43100	ASTM AISI10mg
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		



## Discharge Connections

4" (HD standard), 6", 8" (ND standard) hose connections.  
 4", 6", 8" B.S.P. threaded connections.

## Weight (without cable)

270 kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Wear plate in polyurethane • Series connection (HD)  
 Starter and control units • Automatic level control unit  
 Floatation system • Repair kit  
 Discharge connection accessories and hose