

GB 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 with free passage 45x40 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

**JS 12 W/WKS\* -104\*\* single-phase.**

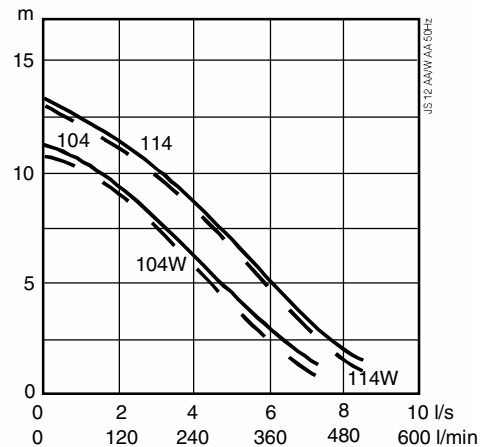
**JS 12 W/WKS\* -114 single-phase.**

**JS 12 D/DKS\* -104\*\* 3-phase.**

**JS 12 D/DKS\* -114 3-phase.**

\*option: built in float switch excl. 500 V

\*\* Impeller diameter for duty with low water level or intermittent dry running.



## Electric Motor

Single-phase motor with built-in capacitor, 50Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 0.9 kW. Speed: 2850 rpm

Voltage, V	230
Nominal current, A	5.1

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 0.9 kW. Speed: 2850 rpm  
 D.O.L. start with built-in contactor.

Voltage, V	230	400	500
Nominal current, A	3.3	1.9	1.5

## Power Cable

20 m type HO7RN-F:  
 4 x 1.5 sq.mm. (3-phase)  
 3 x 1.5 sq.mm. (single-phase)

## Motor Protection

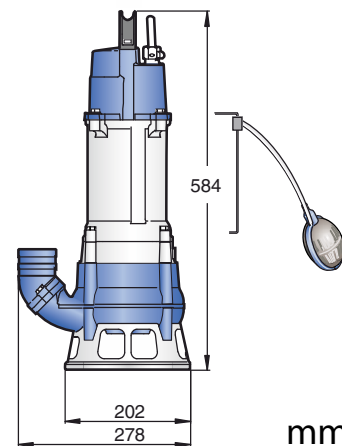
Built-in thermal switches in the stator windings (140°C, ±5).

## 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

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

## Weight (without cable)

18kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Starter and control units • Floatation ring • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM A1S10mg
Fasteners	Stainless steel	10088:X5CrNi18-10 [1.4301]	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 [1.4021]	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTM A536-80:60-40-18
O-rings	Nitrile rubber		



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 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 with free passage 45x40 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

### JS 15 D/DKS\* -114\*\* 3-phase.

### JS 15 D/DKS\* -126 3-phase.

\*option: built in float switch excl. 500 V  
 \*\* Impeller diameter for duty with low water level or intermittent dry running.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 1.3 kW. Speed: 2850 rpm  
 D.O.L. start with built-in contactor.

Voltage, V	230	400	500
Nominal current, A	4.5	2.6	2.1

## Power Cable

20 m type HO7RN-F:  
 4 x 1.5 sq.mm.

## Motor Protection

Built-in thermal switches in the stator windings (140°C, ±5).

## Shaft Seal

Double mechanical seal in oil bath.  
 Primary seal: Silicon carbide on silicon carbide.  
 Secondary seal: Silicon carbide on silicon carbide.

## Bearings

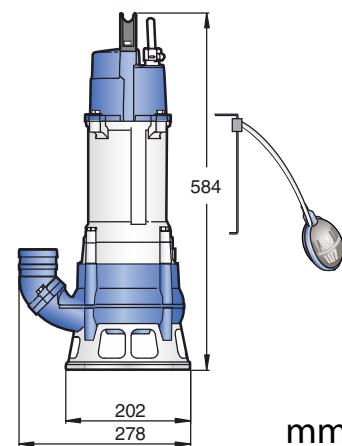
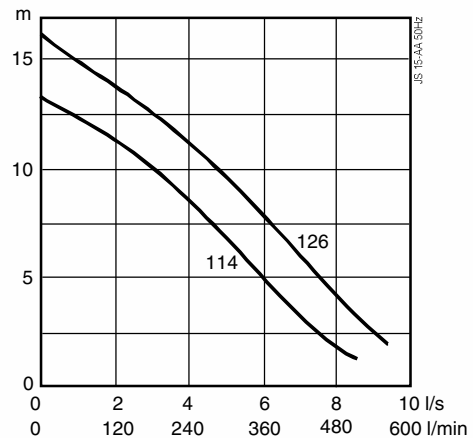
Upper bearing: Single-row deep groove ball bearing.  
 Lower bearing: Single-row deep groove ball bearing.

## Discharge Connections

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

## Weight (without cable)

18 kg



## Options and Accessories

Zinc anodes • Surface protection coating  
 Starter and control units • Floatation ring • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM AlSi10mg
Fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTMA A 563-80: 60-40-18
O-rings	Nitrile rubber		

## Specification

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 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 with free passage 55x40 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

**JS 24 D/DKS\* -124\*\* 3-phase.**

**JS 24 D/DKS\* -140 3-phase.**

\*option: built in float switch, excl 500V

\*\*Impeller diameter for duty with low water level or intermittent dry running.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 2.0 kW. Speed: 2870 rpm  
 D.O.L. start with built-in contactor.

Voltage, V	230	400	500
Nominal current, A	7.3	4.2	3.4

## Power Cable

20 m type HO7RN-F (standard cable):  
 4 x 1.5 sq.mm.

20m NSSHÖU.../3E (heavy duty cable):  
 3x1.5+3x1.5/3E (230-500V)

## Motor Protection

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

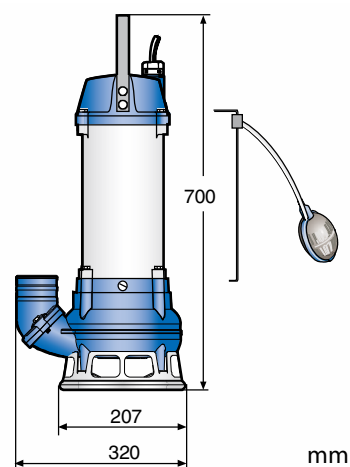
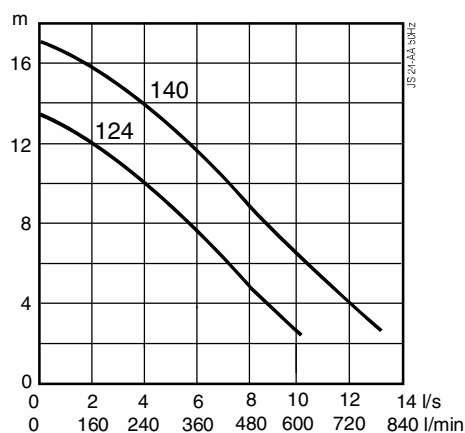
## Bearings

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

## Discharge Connections

2 1/2", 3" (standard), 4" hose connections.  
 2 1/2", 3", 4" B.S.P. threaded connections.

GB 50 Hz



## Weight (without cable)

29 kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Electronic motor supervision • Starter and control units  
 Automatic level control unit • Floatation ring • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM AISi10mg
Handle and fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTM A 536-80: 60-40-18
O-rings	Nitrile rubber		

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 Max medium density 1100 kg/m<sup>3</sup>. • pH of the pumped medium 5-8.  
 Strainer with free passage 55x40 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

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### JS 44 D/DKS\* -140\*\* 3-phase.

### JS 44 D/DKS\* -160 3-phase.

\*option: built in float switch, excl. 500V

\*\*Impeller diameter for duty with low water level or intermittent dry running.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 3.3 kW. Speed: 2870 rpm  
 D.O.L. start with built-in contactor.

Voltage, V	230	400	500
Nominal current, A	12	6.9	5.5

## Power Cable

20 m type HO7RN-F (standard cable):  
 4 x 2.5 sq.mm.

20m NSSHÖU.../3E (heavy duty cable):  
 3x1.5+3x1.5/3E (230-500V)

## Motor Protection

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

## Shaft Seal

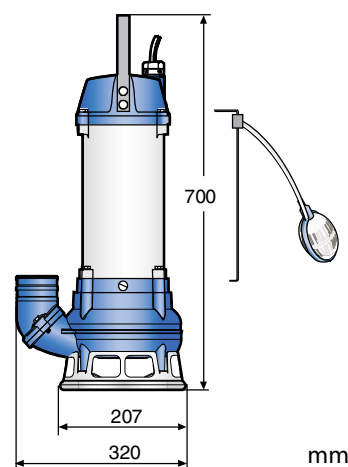
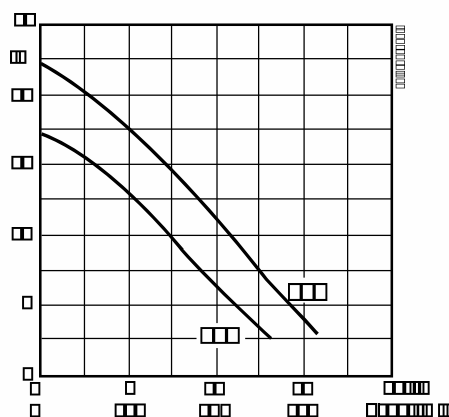
Double mechanical seal in oil bath.  
 Primary seal: Silicon carbide on silicon carbide.  
 Secondary seal: Stainless steel on antimony treated carbon.

## Bearings

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

## Discharge Connections

2 1/2", 3" (standard), 4" hose connections.  
 2 1/2", 3", 4" B.S.P. threaded connections.



## Weight (without cable)

31 kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Electronic motor supervision • Starter and control units  
 Automatic level control unit • Floatation ring • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM AlSi10mg
Handle and fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTM A 536-80:60-40-18
O-rings	Nitrile rubber		



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 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 with free passage 55x45 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

### JS 54 D/DKS\*-160\*\* 3-phase.

### JS 54 D/DKS\*-175 3-phase.

\*option: built in float switch, excl. 500V

\*\*Impeller diameter for duty with low water level or intermittent dry running.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 5.2 kW. Speed: 2850 rpm

Voltage, V	230	400	500
Nominal current, A	19.1	11	8.4

## Starting Method

D.O.L. start with built-in contactor.  
 D.O.L. start with built-in SoftDrive (400-460V).  
 When used with VFD, pump must be equipped with terminal block instead of contactor.

## Power Cable

20 m type HO7RN-F (standard cable):  
 4 x 2.5 sq.mm. (230-500V)

20m NSSHÖU.../3E (heavy duty cable):  
 3x1.5+3x1.5/3E (230-500V)

## Motor Protection

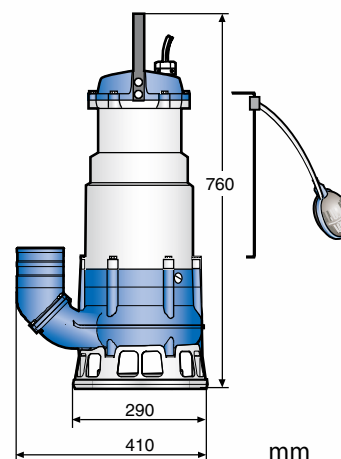
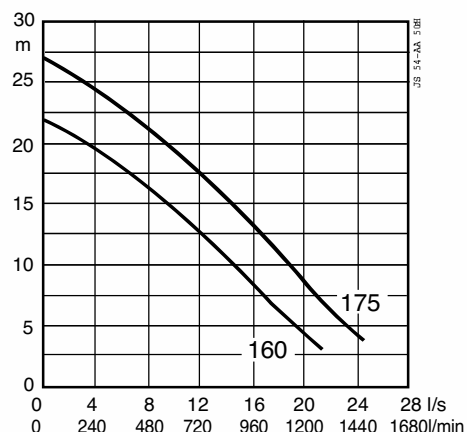
Built-in thermal switches in the stator windings (140°C, ±5), connected to built-in contactor.

## 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

3", 4" (standard) hose connections.  
 3", 4" B.S.P. threaded connections.

## Weight (without cable)

54 kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Electronic motor supervision • Starter and control units  
 Automatic level control unit • Floation system • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM AlSi10mg
Handle and fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTM A 536-80: 60-40-18
O-rings	Nitrile rubber		

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 Max medium density 1100 kg/m<sup>3</sup>. • pH of the pumped medium 5-8.  
 Strainer with free passage 55x45 mm. • Max no. of starts 30/hour.  
 Max impeller diameter requires half motor or more submersed for continuous duty. (Pump can operate lying down.)

### JS 84 D/DKS\*-175\*\* 3-phase.

### JS 84 D/DKS\*-196 3-phase.

\*option: built in float switch, excl. 500V

\*\*Impeller diameter for duty with low water level or intermittent dry running.

## Electric Motor

3-phase squirrel-cage induction motor, 50 Hz.  
 Service factor 1.1. Class F insulation.  
 Motor rating P<sub>2</sub>: 8.0 kW. Speed: 2850 rpm

Voltage, V	230	400	500
Nominal current, A	27.8	16	12.2

## Starting Method

D.O.L. start with built-in contactor.  
 D.O.L. start with built-in SoftDrive (400-460V).  
 When used with VFD, pump must be equipped with terminal block instead of contactor.

## Power Cable

20 m type HO7RN-F (standard cable):  
 4 x 4 sq.mm. (230-400 V)  
 4 x 2.5 sq.mm. (500 V)

20m NSSHÖU.../3E (heavy duty cable):  
 3x2.5+3x2.5/3E (230-500V)

## Motor Protection

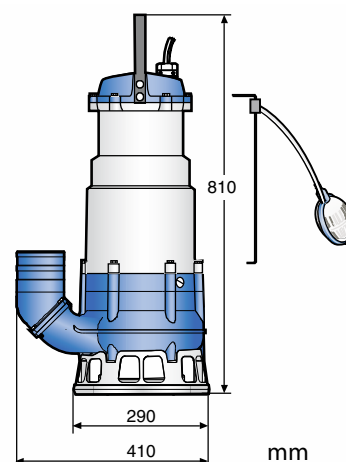
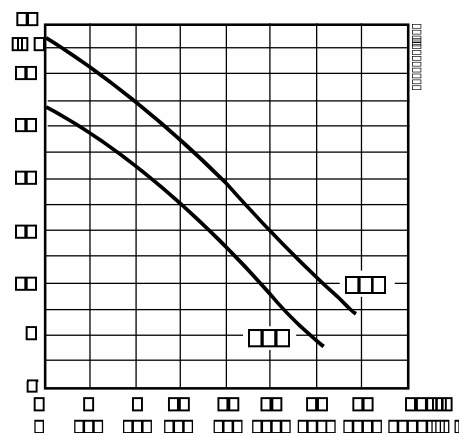
Built-in thermal switches in the stator windings (140°C, ±5), connected to built-in contactor.

## 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

3", 4" (standard) hose connections.  
 3", 4" B.S.P. threaded connections.

## Weight (without cable)

67 kg

## Options and Accessories

Zinc anodes • Surface protection coating  
 Electronic motor supervision • Starter and control units  
 Automatic level control unit • Floatation system • Repair kit  
 Discharge connection accessories and hose

Materials		EN	ASTM
Motor housing	Aluminium	EN 1706: AC-43100	ASTM AISi10mg
Handle and fasteners	Stainless steel	10088:X5CrNi18-10 (1.4301)	AISI 304
Rotor shaft	Stainless steel	10088:X20Cr13 (1.4021)	AISI 420
Volute and impeller	Nodular cast iron	1563:ENGJS-HB150	ASTM A 536-80: 60-40-18
O-rings	Nitrile rubber		

