Ama[®]-Porter S



Submersible motor pumps

Cutter device "S" 50 Hz

Fields of Application

Pumping of waste water containing solid matter or domestic sewage such as waste from toilets, washing machines, dishwashers, in intermittent operation, etc.

Surface water or rain water pumping in intermittent operation such as car park drainage.

Drainage of sumps liable to flooding.

Operating characteristics

Q: up to $17 \text{ m}^3/\text{h}$, (4,7 l/s).

H: up to 21 m.

Motor Power:

1.5 kW maximum for three phase motor.

1.1 kW maximum for single phase motor.

Operating temperature up to 40°C. Intermittently 70°C (3 to 5 min.).

Materials

Casing : EN.GJL-200 / JL 1030 / FGL 200 / GG 20. Impeller : EN.GJL-200 / JL 1030 / FGL 200 / GG 20. Shaft : Chrome steel 1.4021 / X20 Cr13 / Z20 C13.

Cutter system in very hard wear resistant material.

Shaft seal : (Motor side) Lip seal

: (Pump side) Mechanical seal Shaft seal

Silicon/Silicon

Nuts & bolts : Stainless steel Elastomers : Nitrile rubber

Float switch : Polypropylene

Pump type

Vertical single casing submersible motor pump.

Shaft seal

Twin shaft seal with intermediate oil chamber.

Motor side

: Single lip seal

Pump side

: Single mechanical seal independent

of direction of rotation

Designation

2001911411011	Ama®-Porter S	В	5	45	SE
Type of pump : ——		1	T		-
S = cutter:					
B = with start box	N 0			Q.	
Discharge diameter DN 50 = series 5	-	5			
Size:					
SE = Single-phase NE = Single-phase ND = Three-phase	without float switch	-			

Motor

Single phase : 230 V - 50 Hz with built in thermal

overload protection

Three phase : 400 V - 50 Hz direct on-line starting Motor protection: IP68, Class F insulation in accordance

with EN 60529 / IEC 529.

Please note:

Variable-speed operation of this pump is not

allowed.

Operating mode S1 - submerged (max. 5 m)

Operating mode S3 - not submerged

(see dimension table)

Bearings

Sealed for life radial ball bearings.

(€ - EN 12 050

The pump must not be used in countries where pumps handling sewage with faeces are subject to explosion protection regulations.





Scope of Supply

Pump complete ready for installation with either stationary or transportable mounting kits.

The SE versions are fitted with an integral float switch.

The single-phases versions are equipped with a start box with built-in capacitors.

Tight housing, IP 56, of insulating material. The box is provided with 2 cable glands and a power supply cable with plug.

Dimension:

190 mm x 140 mm x 70 mm

Fastening:

144 mm x 98 mm

Weight:

1.2 kg

Details

- Manufactured in cast iron construction
 EN.GJL-200 / JL 1030 / FGL 200 / GG 20.
- Non-flameproof motor.
- Unique resin imbedded, plug connection.
- Single phase version are supplied with a 10 m electrical cable and plug.
- Three phase version supplied with a 10 m electrical cable.
- Integral cast handle for easy hanging or lifting.
- Paint coating:

Surface treatment: SA $2^{1}/_{2}$, Sis 055900

Primer: Ferritic Oxide 35 to 40 μm

Top coat : environmentally-friendly KSB-standard coating, approx.40 μ m, RAL 5002 (ultramarine blue).

Please note: We recommend to fit a ball non-return valve with full bore on the discharge side.

CAUTION: A swing check valve must absolutely be installed in the discharge line.

Description of installation kits

Version	SB 545 SE/NE S 545 ND				
Variant					
Transportable	3 feet Discharge elbow (2")				
	Hosetail (2"/63 mm) Hose clip (Ø 60 to 80)				
	Nuts and bolts for feet and elbow				
Stationary Guide rope or rail (1 or 2) or hoop (vertical discharge connection)	Duckfoot bend 50/50 mm Claw Bracket Guiding rope or hoop 1 or 2 Rail(s) not included Anchor bolts Chain				
Stationary Guide rope or 1 rail or hoop (horizontal discharge connection)	Duckfoot bend 50/2" Claw Bracket Guiding rope or hoop Rail not included Anchor bolts Chain				

Thermal overload protection

Single phase version

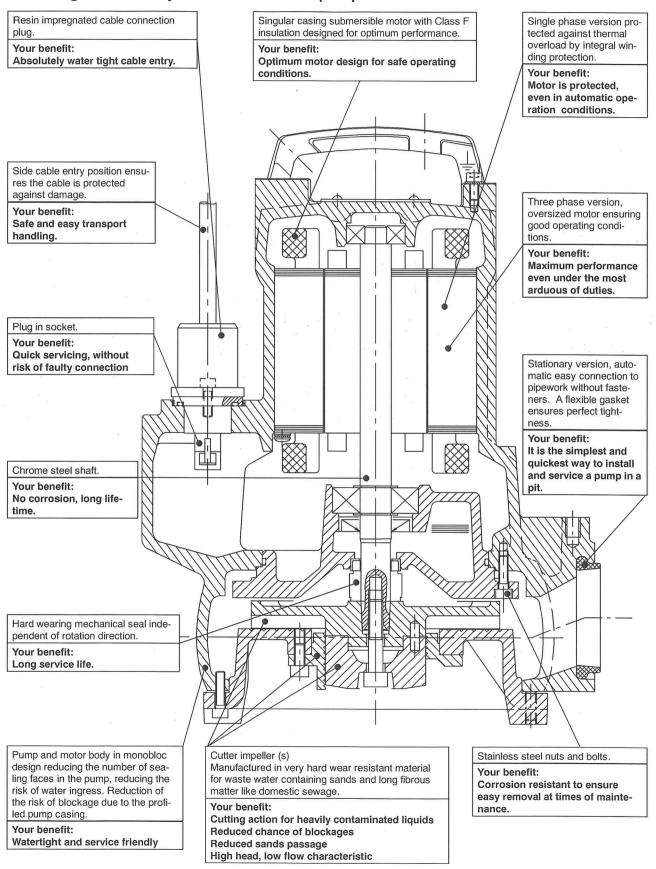
Integral thermal overload protection within motor windings.

Three phase version

No thermal protection of the windings, current supply should be protected via a thermal overload relay installed inside the control panel and set to the current value indicated on the rating plate +15%



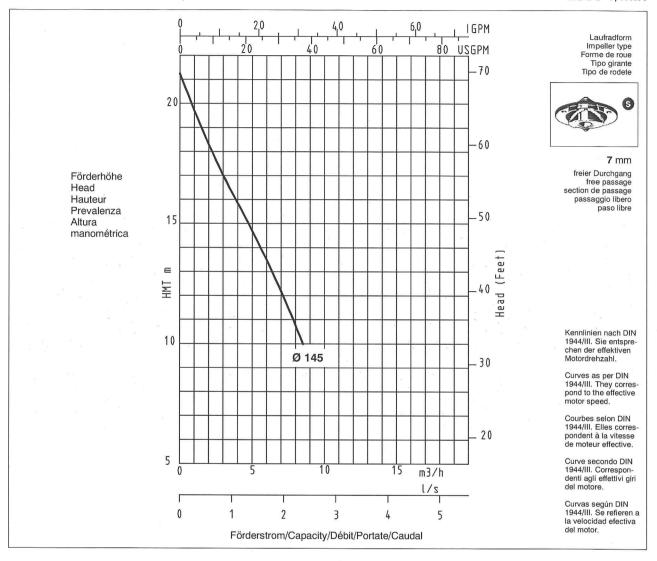
Advantages offered by the Ama®-Porter S pump.





Ama®-Porter SB 545 SE/NE

2900 1/min



50 Hz - 1~ 230 V

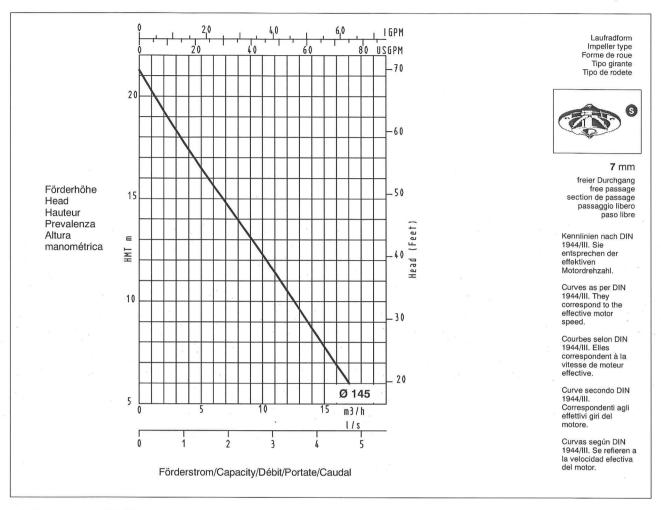
Туре	Impeller diameter	P ₁	P ₂	I _N	I _D	Temp.	Electric cable	Outer diameter	Weight	ldent. Nr
	mm	kW	kW	(A)	(A)	t°C		mm	kg	
SB 545 SE	145	1,8	1,1	8,2	18,2	40	4 x 1 mm ²	10,0	26	39 018 468
SB 545 NE	145	1,8	1,1	8,2	18,2	40	4 x 1 mm ²	10,0	26	39 018 469

The diagrams refer to the effective speed of the motor. Density=1, viscosity=1 cSt.



Ama®-Porter S 545 ND

2900 1/min



50 Hz - 3~ 400 V

Туре	Impeller diameter	P ₁	P ₂	I _N	I _D	Temp.	Electric cable	Outer diameter	Weight	ldent. Nr
	mm	kW	kW	(A)	(A)	t°C		mm	kg	
S 545 ND	145	2,05	1,5	3,5	18,3	40	4 x 1 mm ²	10	24	39 017 859

The diagrams refer to the effective speed of the motor. Density=1, viscosity=1 cSt.

Dimensions

