

**Tender text**

**Project name**  
**Project ID**

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2025-01-20

Page 1 / 4

Pos.no	Description	Item no.
	<b>Submersible dirty water motor pumps</b>	
	Amarex Fmax 150-230/077 F 4 US G	39120311
	<b>Amarex KSB submersible motor pump for waste water applications, in grey cast iron and special materials</b>	

Vertical submersible motor pump set for wet installation, single-stage, with three-phase motor to IEC standards. Temperature sensor for protection against overheating, optional leakage sensor in the motor space, power cable with resin-sealed, absolutely water-tight cable entry and service-friendly plug-type connection in the motor space.

**Pump set:**

Make : KSB  
 Impeller : Amarex F / 150-230  
 type : F-max vortex impeller

F-max is a vortex impeller optimised for operating reliability. With its large free passage of 100 mm max. it is especially suitable for handling waste water containing all kinds of solids and fibres.

Impeller diameter : 220 mm  
 Free passage : 100 mm

**Operating data:**

Fluid handled : Water  
 Flow rate :  
 Head :  
 Power input : 9,20 kW  
 Operating temperature : 40 °C max.

**Drive:**

Nominal voltage : 3~400 V  
 Nominal frequency : 50 Hz  
 Starting method : DOL / star-delta starting is also possible  
 Enclosure : IP68 to EN 60529 / IEC 529,

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Page 2 / 4

Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
		thermal class H			
	Explosion protection	: Without			
	Max. fluid temperature	: 40 °C			
	Thermal motor protection	: Temperature sensor			
	Leakage sensor in the motor space	: no			
	Efficiency class	:			
	Duty type	: S1 submerged / with motor section partly outside the fluid			
	Motor rating P2	: 7,7 kW			
	Motor rating P1	: 9,20 kW			
	Motor efficiency	: 83,7%			
	Nominal current	: 15,90 A			
	Speed	: 1.403 1/min			
	Cable length	: 10 m			
	Cable entry with individually stripped, friendly plug-type	: Screwed cable entry / cable entry resin-embedded cores and service-connection inside the motor			
	<b>Materials:</b>				
	Pump casing Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Handle	: 1.4306			
	Impeller Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Discharge cover Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Suction cover Class 35B)	: Grey cast iron EN-GJL-250 (A 48			
	Shaft	: 1.4021			
	Cable sheath	: Chloroprene rubber			
	Elastomer seals	: Nitrile-butadiene-rubber NBR			
	Coating	: Two-component high-solid epoxy resin			
	Colour	: RAL 5002			
	<b>Shaft seal:</b>				
	2 independent mechanical seals arranged in the oil reservoir				
	Pump end	: Bellows-type mechanical seal			



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2025-01-20

Page 3 / 4

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<b>Pos.no</b>	<b>Description</b>	<b>Item no.</b>	<b>Qty.</b>	<b>UP / EUR</b>	<b>TP / EUR</b>
	Motor end Carbon-Al2O3 Oil fill				
		: Bellows-type mechanical seal,			
		: Environmentally friendly, non-toxic oil			
	<b>Dimensions and connections:</b>				
	Nominal size	: PN 16			
	Discharge side				
	Nominal size	: DN 150			
	Suction side				
	Weight	: 132 kg			
	Pump				
	<b>Purchase order information:</b>				
	Make	: KSB			
	Type series / size	: Amarex F150-230			
	Material price group	: 18			
	Weight	: 132 kg			
	<b>Item number</b>	<b>: 39120311</b>			
	Motor: 774USG				
					1

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**Data sheet: technical data**

**Project name**  
**Project ID**

**Item-No.**

**Design**  
**Type / Coding**

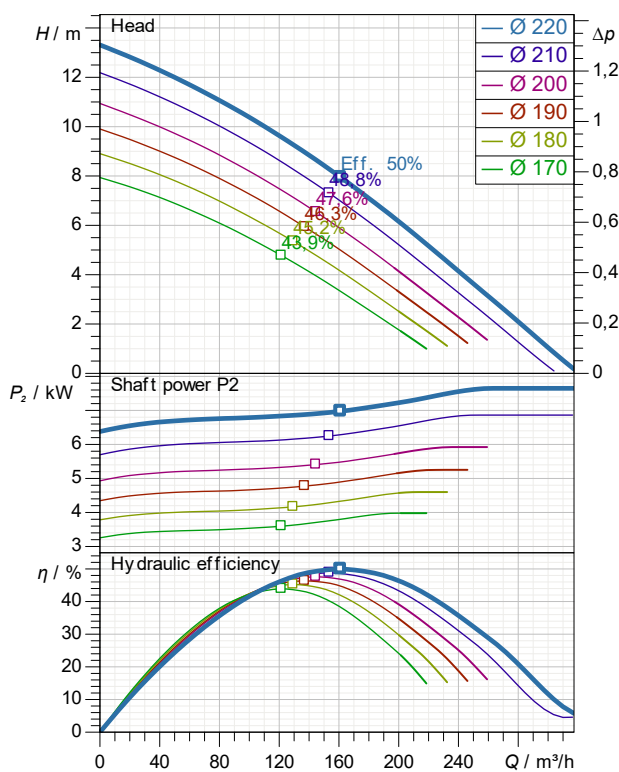
**Submersible dirty water motor pumps**  
**Amarex Fmax 150-230/077 F 4 US G**

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2025-01-20

Page 4 / 4



**demand data**

Flow  
Total head  
Geodetic head  
Media  
Liquid temperature

Water  
20 °C

**Pump data**

Make  
Type  
Design  
Specific design  
No. of pumps  
Standby pump  
Max. fluid temperature

KSB  
Amarex Fmax 150-230/077 F 4 US G  
Submersible dirty water motor p  
Single head pump  
1  
No  
40 °C

**Hydraulic data (Duty point)**

Flow  
Head

**Material / sealing element**

Casing  
Cover  
Suction cover material  
Discharge cover  
Shaft  
Impeller  
O-Rings

Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Grey cast iron EN-GJL-250 (A 48 Class 35B)  
1.4021  
Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Nitrile-butadiene-rubber NBR

**Dimensions**

Discharge flange standard DN 150

**Rated motor data**

Power input (P1)  
Rated power (Pn)  
Speed  
Rated voltage  
Rated current (In)

9,2 kW  
7,7 kW  
1.403 1/min  
400 V  
15,9 A

**Product information**

Ident. No./ type key  
Weight loaded  
Gross price  
PL 2025-01-20  
Price group

39120311  
132 kg  
11.401,47 EUR  
PL 2025-01-20  
Price group

