

**Tender text**

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

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**Company**  
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2025-01-20

Page 1 / 4

Pos.no	Description	Item no.
	<b>Submersible dirty water motor pumps</b>	
	Amarex Fmax 100-230/039 F 4 US G	39120269
	<b>Amarex KSB submersible motor pump for waste water applications, in grey cast iron and special materials</b>	
	<p>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.</p>	
	<b>Pump set:</b>	
	Make	: KSB
	Impeller	: Amarex F / 100-230
	type	: F-max vortex impeller
	<p>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.</p>	
	Impeller diameter	: 210 mm
	Free passage	: 100 mm
	<b>Operating data:</b>	
	Fluid handled	: Water
	Flow rate	:
	Head	:
	Power input	: 5,01 kW
	Operating temperature	: 40 °C max.
	<b>Drive:</b>	
	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	: 3,9 kW			
	Motor rating P1	: 5,01 kW			
	Motor efficiency	: 77,8%			
	Nominal current	: 9,91 A			
	Speed	: 1.353 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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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 100			
	Suction side				
	Weight	: 99 kg			
	Pump				
	<b>Purchase order information:</b>				
	Make	: KSB			
	Type series / size	: Amarex F100-230			
	Material price group	: 18			
	Weight	: 99 kg			
	<b>Item number</b>	<b>: 39120269</b>			
	Motor: 394USG				
					1

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**Data sheet: technical data**

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**Item-No.**

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

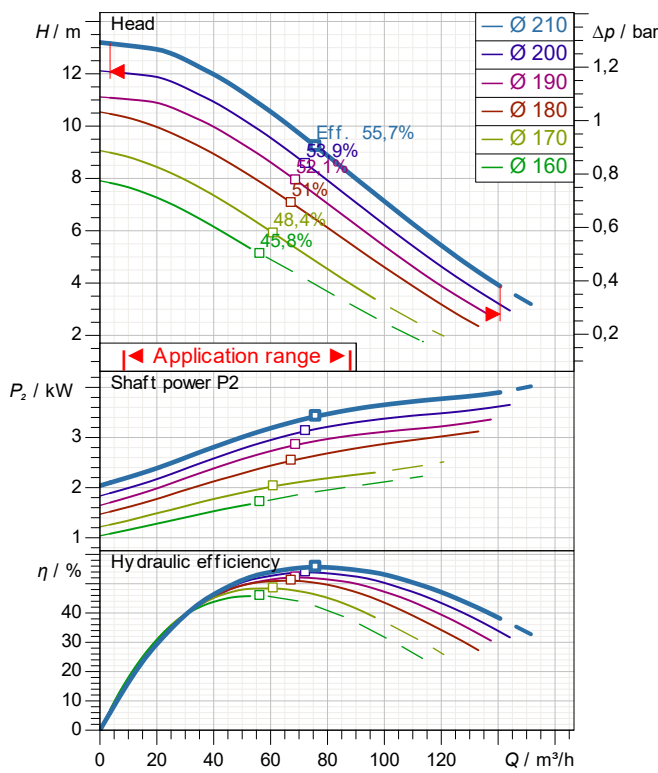
**Submersible dirty water motor pumps**  
**Amarex Fmax 100-230/039 F 4 US G**

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2025-01-20

Page 4 / 4



**demand data**

Flow  
Total head  
Geodetic head  
Media: Water  
Liquid temperature: 20 °C

**Pump data**

Make: KSB  
Type: Amarex Fmax 100-230/039 F 4 US G  
Design: Submersible dirty water motor p  
Specific design: Single head pump  
No. of pumps: 1  
Standby pump: No  
Max. fluid temperature: 40 °C

**Hydraulic data (Duty point)**

Flow  
Head

**Material / sealing element**

Casing: Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Cover: Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Suction cover material: Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Discharge cover: Grey cast iron EN-GJL-250 (A 48 Class 35B)  
Shaft: 1.4021  
Impeller: Grey cast iron EN-GJL-250 (A 48 Class 35B)  
O-Rings: Nitrile-butadiene-rubber NBR

**Dimensions**

Discharge flange standard: DN 100

**Rated motor data**

Power input (P1): 5,01 kW  
Rated power (Pn): 3,9 kW  
Speed: 1.353 1/min  
Rated voltage: 400 V  
Rated current (In): 9,91 A

**Product information**

Ident. No./ type key: 39120269  
Weight loaded: 99 kg  
Gross price: 6.823,06 EUR  
PL 2025-01-20  
Price group

