

Tender text

Project name

Project ID

Customer

Contact

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Phone

Company

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2025-01-20

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Pos.no	Description	Item no.
	Submersible dirty water motor pumps	
	Amarex Fmax 080-220/084 F 2 US G	39120175
	Amarex	
	KSB submersible motor pump for waste water applications, in grey cast iron and special materials	
	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 / 080-220
	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	: 200 mm
	Free passage	: 80 mm
	Operating data:	
	Fluid handled	: Water
	Flow rate	:
	Head	:
	Power input	: 9,85 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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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	Explosion protection	thermal class H			
	Max. fluid temperature	: Without			
	Thermal motor protection	: 40 °C			
	Leakage sensor in the motor space	: Temperature sensor			
	Efficiency class	: no			
	Duty type	: :			
	Motor rating P2	: S1 submerged / with motor section partly outside the fluid			
	Motor rating P1	: 8,4 kW			
	Motor efficiency	: 9,85 kW			
	Nominal current	: 85,3%			
	Speed	: 16,80 A			
	Cable length	: 2.871 1/min			
	Cable entry	: 10 m			
	with individually stripped, resin-embedded cores and service-friendly plug-type connection inside the motor	: Screwed cable entry / cable entry			
	Materials:				
	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			
	Shaft seal:				
	2 independent mechanical seals arranged in the oil reservoir				
	Pump end	: Bellows-type mechanical seal			



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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	Motor end				
	Carbon-Al2O3				
	Oil fill				
	: Bellows-type mechanical seal,				
	: Environmentally friendly, non-toxic oil				
	Dimensions and connections:				
	Nominal size				
	Discharge side				
	Nominal size				
	Suction side				
	Weight				
	Pump				
	: PN 16				
	: DN 80				
	: 99 kg				
	Purchase order information:				
	Make				
	Type series / size				
	Material price group				
	Weight				
	: KSB				
	: Amarex F080-220				
	: 18				
	: 99 kg				
	Item number	: 39120175			
	Motor: 842USG				
			1		

Data sheet: technical data

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Item-No.

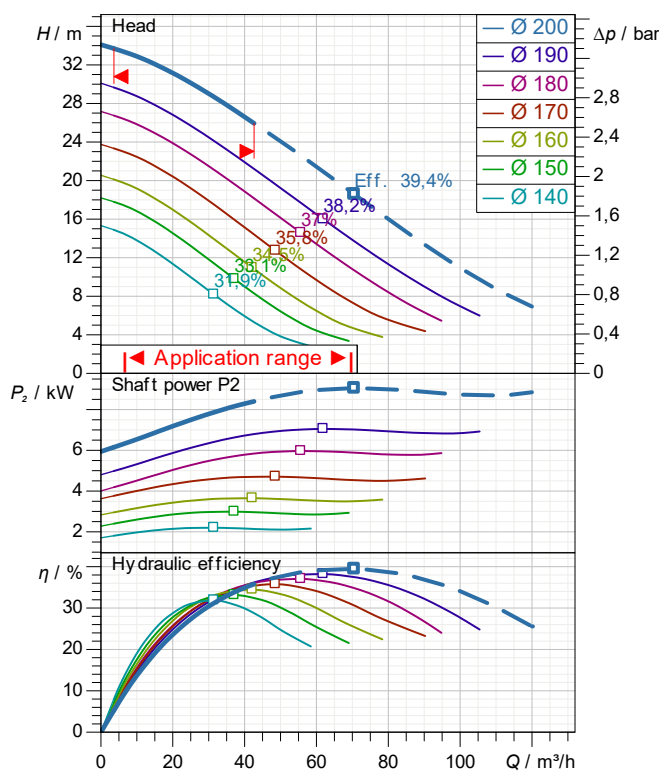
Design
Type / Coding

Submersible dirty water motor pumps
Amarex Fmax 080-220/084 F 2 US G

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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 080-220/084 F 2 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 80

Rated motor data

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

9,85 kW
8,4 kW
2.871 1/min
400 V
16,8 A

Product information

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

39120175
99 kg
8.929,55 EUR

