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Pos.no	Description	Item no.
	Submersible dirty water motor pumps	
	Amarex D-max 150-230/0454YSG	39110783
	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 D / 150-230
	type	: D-max open two-vane impeller
	D-max is an open two-vane impeller of the latest generation. The D-max impeller ensures a non-clogging flow and an excellent hydraulic efficiency.	
	The D-flector technology is specially designed to drastically reduce the risk of clogging by items such as wet wipes contained in the waste water.	
	Impeller diameter	: 204 mm
	Free passage	: 65 mm
	Operating data:	
	Fluid handled	: Water
	Flow rate	:
	Head	:
	Power input	: 400 V 3~
	Operating temperature	: 40 °C max.
	Drive:	
	Nominal voltage	: 3~400 V
	Nominal frequency	: 50 Hz
	Starting method	: DOL / star-delta starting is also

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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	possible				
	Enclosure	: IP68 to EN 60529 / IEC 529, thermal			
	class H				
	Explosion protection	: ATEX II 2G Ex db h IIB T4 Gb			
	Max. fluid temperature	: 40 °C			
	Thermal motor protection	: Temperature sensor			
	Leakage sensor in				
	the motor space	: no			
	Efficiency class	: IE3 = Premium Efficiency			
	Duty type	: S1 submerged / with motor			
		section partly outside the fluid			
	Motor rating P2	: 4,48 kW			
	Motor rating P1	: 5,03 kW			
	Motor efficiency	: 89%			
	Nominal current	: 10,70 A			
	Speed	: 1.452 1/min			
	Cable length	: 10 m			
	Cable entry	: Screwed cable entry / cable entry			
		with individually stripped,			
		resin-embedded cores and			
		service-friendly plug-type			
		connection inside the motor			
	Materials:				
	Pump casing	: Grey cast iron EN-GJL-250 (A 48			
	Class 35B)				
	Handle	: 1.4306			
	Impeller	: Grey cast iron EN-GJL-250 (A 48			
	Class 35B)				
	Discharge cover	: Stainless steel EN-1.4021+QT800 (A			
	276 Type 420)				
	Suction cover	: D-flector			
	Shaft	: Grey cast iron EN-GJL-250 (A 48			
	Class 35B)				
	Cable sheath	: Chloroprene rubber			
	Elastomer seals	: Nitrile-butadiene-rubber NBR			
	Coating	: Two-component epoxy resin			
		High Solid			
	Colour	: RAL 5002			

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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	Shaft seal:				
	2 independent mechanical seals arranged in the oil reservoir				
	Pump end	: Bellows-type mechanical seal			
	Motor end	: Bellows-type mechanical seal,			
	Carbon-Al2O3				
	Oil fill	: Environmentally friendly, non-toxic oil			
	Dimensions and connections:				
	Nominal size,	: PN 16			
	discharge side				
	Nominal size,	: DN 150			
	suction side				
	Pump weight	: 142 kg			
	Purchase order information:				
	Make	: KSB			
	Type series / size	: Amarex D150-230			
	Material price group	: 18			
	Weight	: 142 kg			
	Item number	: 39110783			
	Motor: 454YSG	IE3	1		
	MOTOR				
	The motor shall be three-phase, dry squirrel-cage induction type in design conforming to IEC / VDE / EN standards. The motor shall be adequately sized and rated for continuous operation to maximum a fluid temperature of 40 °C (104 °F).				
	The motor housing shall be both air filled and watertight. Motor protection shall be at minimum IP 68. Allowable maximum submergence shall be not less than 25 m.				
	The motor shall be rated for supply voltage of 400 V and frequency of 50 Hz and accept voltage fluctuations as per range A of DIN EN 60 034-1 (Supply voltage +10 supply frequency -5%/+3%). The motor shall be explosionproof to ATEX II 2G T4, EEX d II B.				
	The motor shall be designed for a maximum of 30 number of starts per hour. Starting of the motor shall be direct.				
	The motor stator shall be wound to have an overall motor rating of 155°C, Class H. The rotor bars and short circuit rings shall be made of cast aluminum.				
	The motor and pump set complete shall be designed and manufactured by the same company.				
	MOTOR THERMAL PROTECTION				



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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	Temperature monitors shall be embedded in the motor windings for use in conjunction with and supplemental to external motor overload protection. These temperature sensitive switches shall allow for direct integration with the motor control circuit to shut down the pump if high temperatures are detected. The switches shall be normally closed rated for 250 V AC and a current of not less than 2 A. Additional temperature sensitive switches shall be embedded in the motor winding to limit temperatures of the motor as per explosion-proof certification. The pump's control shall shut down the pump should any of the monitors detect high temperature. Automatic reset shall not be allowed. MOTOR HOUSING MOISTURE PROTECTION A moisture detector shall be mounted in the motor's stator cavity allowing a control panel mounted relay to de-energize the motor when a leakage occurs.				

Data sheet: technical data

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Design

Type / Coding

Submersible dirty water motor pumps

Amarex D-max 150-230/0454YSG

Company

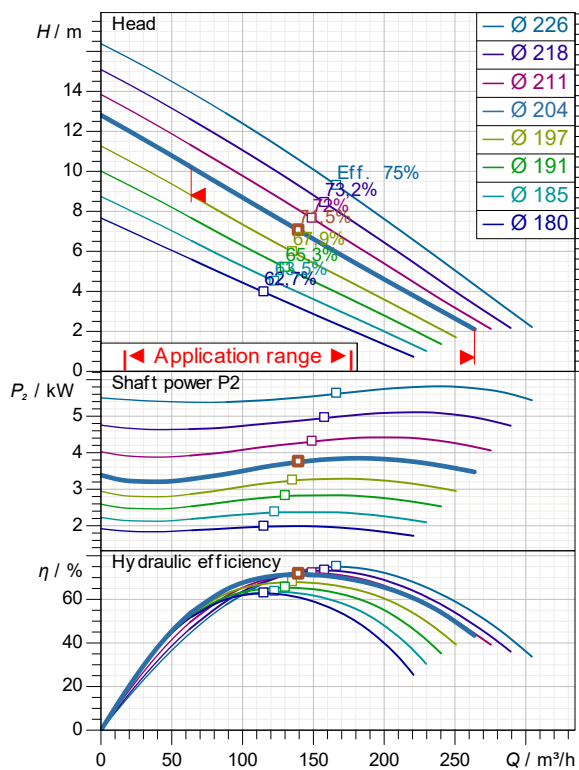
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demand data

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 D-max 150-230/0454YSG

Submersible dirty water motor p

Single head pump

1

No

Hydraulic data (Duty point)

Flow

Head

Material / sealing element

Casing

Cover

Suction cover

Suction cover material

Discharge cover

Shaft

O-Rings

Impeller

Grey cast iron EN-GJL-250 (A 48 Class 35B)

Grey cast iron EN-GJL-250 (A 48 Class 35B)

D-flector

Ductile cast iron EN-GJS-600-3

Grey cast iron EN-GJL-250 (A 48 Class 35B)

Stainless steel EN-1.4021+QT800 (A 276 Type 420)

Nitrile-butadiene-rubber NBR

Ductile cast iron EN-GJS-600-3

Dimensions

Discharge flange standard

DN 150

Rated motor data

Power input (P1)

Rated power (Pn)

Speed

Rated voltage

Rated current (In)

5,03 kW

4,48 kW

1.452 1/min

400 V

10,7 A

Product information

Ident. No./ type key

Weight loaded

Gross price

PL 2025-01-20

Price group

39110783

142 kg

19.295,96 EUR

