Amarex

KSB submersible motor pump for wastewater 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	KSB	
Type:	Amarex ARX D-max		
Impeller:	Open two-vane impeller D-max		
	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:	180	mm	
Operating data: Fluid handled: Flow rate: Head: Power input: Operating temperature:	Waste water contain 100 8 1.78 max. 40	ning faeces m³/h m kW °C	
Drive: Nominal voltage: Nominal frequency: Starting method: Enclosure: Explosion protection: Max. fluid temperature: Thermal motor protection: Leakage sensor in the motor space: Efficiency class: Duty type:	400 V 50 Hz DOL / star-delta starting is also possible IP68 to EN 60529 / IEC 529, thermal class H ATEX II 2G Ex db h IIB T4 Gb / without 40 °C Temperature bimetal switch Yes / No Equivalent IE3 to IEC standard / Not specified S1 submerged / S1 with motor partially outside the fluid		
Nominal motor power P2: Nominal motor power P1: Motor efficiency: Nominal current: Speed: Cable length:	2.3 2.6 82.6 5.5 1430 10	kW kW % A rpm 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: EN-GJL-250 Handle: 1.4306

 Impeller:
 EN-GJS-600-3 / EN-GJN-555[CR14]

 Discharge cover:
 EN-GJL-250 / EN-GJN-555[CR14]

 Suction cover:
 EN-GJS-600-3 / EN-GJN-555[CR14]

Shaft: 1.4021 + QT800

Cable sheath: Chloroprene rubber / TEFZEL

Elastomers: Nitrile rubber (NBR)/ encapsulated seal (FEP/FKM) /

fluorocarbon rubber (FPM) = Viton

Coating: Two-component high-solid epoxy resin

Colour: RAL 5002

Shaft seal:

2 independent mechanical seals fitted in an oil reservoir

Pump-end: Bellows-type mechanical seal / Mechanical seal with

covered spring SiC-SiC

Motor-end: Bellows-type mechanical seal, Carbon-Al2O3

Oil fill: Environment-friendly, non-toxic oil

Dimensions and connections:

Nominal diameter, discharge side: DN 80, drilled to EN 1092-2 PN 16

Nominal diameter, suction side: DN 80, unmachined / drilled to EN 1092-2 PN 16

Net pump weight approx.: 78 kg

Installation parts:

Installation depth 4.5 / 6 m

From lower manhole edge to pump sump bottom

Stationary installation

- Duckfoot bend for guide wire arrangement

Consisting of duckfoot bend, mounting bracket, 10 m guide wire, screws/bolts and anchor bolts Spacer for installation depth > 4.5 m

- Duckfoot bend for single guide rail arrangement

Consisting of duckfoot bend, mounting bracket, screws/bolts and anchor bolts (guide rail supplied by the operator)

Additional mounting bracket, middle support for installation depth > 6 m

- Duckfoot bend for twin guide rail arrangement

Consisting of duckfoot bend, mounting bracket, screws/bolts and anchor bolts (guide rails supplied by the operator)

Additional mounting bracket, middle support for installation depth > 6 m

Transportable model

- Feet / foot plate, complete

Lifting equipment:

-Short-linked chain, tested and marked to Directive 2006/42/EC (Machinery Directive), hook, shackle

 Length:
 5/10
 m

 Max. load
 200
 kg

Materials:

Claw: EN-GJL-250 + U-profile joint NBR/Viton

Duckfoot bend (stat.): EN-GJL-250 Feet and plate (transp.): 1.4301 Chain: 1.4404

Electrical accessories:

-Thermistor protection relay Yes / No

Pump without explosion protection

-Thermistor protection relay Yes / No

Pump with explosion protection

-Leakage sensor protection relay Yes / No

Typical tender for Amarex D-max 2573.521/02-EN Subject to technical modification without prior notice 17.09.2020