

Data sheet



Customer pos. no.: PU ME 44 A/B
Purchase order date: 2009-08-10
Your P/O no.: B09M0170
Quantity: 4,000

Number: 9971598635 - 044
Line: 000300
Date: 2009-08-26
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Etanorm G 125-315 SP
Standardpump acc. EN 733

Version no.: 9

Operating data

Requested flow rate	200.00 m ³ /h	Actual flow rate	199.98 m ³ /h
Requested developed head	31.00 m	Actual developed head	30.99 m
Pumped medium	Water, drinking water / tap water Clean water Materials are not affected by chemical and mech. substances	Efficiency	78.4 %
Fluid temperature	38.0 °C	Power absorbed	21.38 kW
Fluid density	993 kg/m ³	Pump speed of rotation	1480 rpm
Fluid viscosity	0.68 mm ² /s	NPSH required	2.17 m
Suction pressure max.	0.10 bar.g	Permissible operating pressure	16.00 bar.g
Suction pressure min.	0.10 bar.g	Discharge press.	3.12 bar.g
NPSH available	10.61 m	Max. power on curve	27.17 kW
Mass flow rate	55.15 kg/s	Min. allow. flow rate	39.28 m ³ /h
		Min. allow. mass flow rate	10.83 kg/s
		Shutoff head	33.76 m

Design

Pump standard	EN 733	Sealing plan	P1 Gland packing, internal sealing liquid (Na)
Design	Baseplate mounted, long-coupled	A liquid free of solids is assumed.	
Orientation	Horizontal	Seal chamber design	Standard seal chamber with
Suction nominal dia.	DN 150	Contact guard	
Suction nominal pressure	PN 16	Wear ring	Casing wear ring
Suction position	axial	Impeller diameter	305.0 mm
Suction Flange standard	EN 1092-2	Free passage size	24.0 mm
Discharge nominal dia.	DN 125	Direction of rotation from drive	Clockwise
Discharge nominal pressure	PN 16	Silicon free pump assembly	Yes
Pump discharge position	top (0°/360°)	Bearing bracket construction	Standard (normal)
Connection standard discharge	EN 1092-2	Bearing bracket size	WE55
Shaft seal	Gland packing	Bearing seal	Lip seal
Manufacturer	KSB	Bearing type	Anti-friction bearings
Type	RT-P	Lubrication type	Oil
Material code	RT/P	Lubrication monitoring	Oil level sight glass
Shaft seal code	1	Colour	Ultramarine blue (RAL 5002) KSB-blue

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Driver, accessories

Manufacturer	Flender	Motor size	225M
Coupling type	Eupex NH	Efficiency class	Eff1
Nominal size	140	Frequency	50 Hz
Spacer length	140.0 mm	Operating voltage	400 V
Coupling guard type	Lightweight, not treadproof (ZN79)	Rated power P2	45.00 kW
Guard size	B254	Rated current	81.0 A
Guard material	Galvanised steel ST TZN	Starting current ratio	6.9
Baseplate type	U-beam / folded plate	Insulation class	F to IEC 34-1
Baseplate size	10B	Motor enclosure	IP55
Baseplate fixing	Foundation bolts galvanized steel	Cos phi at 4/4 load	0.85
Driver type	Electric motor	PTC resistor	3 PTC resistors
Model (make)	Siemens	Motor winding	400 / 690 V
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Number of poles	4
Motor const. type	B3	Operating mode	Delta
		Motor cooling method	Surface cooling
		VFD-suitability only in connection with KSB PumpDrive	
		Motor material	Grey cast iron GG/CAST IRON

Materials G

Notes		Casing wear ring (502.1)	Grey cast iron GG/CAST IRON
general criteria for a water analysis: pH-value \geq 7; chloride content (Cl) \leq 250 mg/kg. chlorine (Cl2) \leq 0.6 mg/kg.		Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
Volute casing (102)	Grey cast iron JL 1040	Shaft protecting sleeve (524)	Chrome steel 1.4122+QT750
Discharge cover (163)	Grey cast iron JL 1040	Stud (902)	Steel 8.8
Shaft (210)	Steel/Tempered steel E335/C45	Screwed plug (903)	Steel ST
Impeller (230)	Grey cast iron JL 1040	Impeller nut (922)	Steel 8
Bearing bracket (330)	Grey cast iron JL 1040	Lockwasher (931)	Stainless steel 1.4301
Joint ring (411)	DPAF Sealing plate asbestos-free		

Packaging

Packaging for transport	Ship	Packaging for country	Germany
Packaging for storage	Outdoor	Packaging category	B1 Wooden or plywood case, cover provided with polypropylene cellular sheet, outdoor storage up to 3 months

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Certifications

Hydrostatic pressure test with water

Range	Complete pump with shaft seal
Test pressure	21.00 bar.g
Certificate	Inspection cert. 3.1 to EN 10204
Test time	10.0 min

Hydraulic performance test

Test participation	Without customer
Acceptance standard	ISO 9906 class 2, annex A
Quantity meas. points Q-H	5

Quantity meas. points NPSH	0
Certificate	Report
Test participation	Without customer
Quantity without customer	4
Quantity with customer	0
Bearing temperature test	No

Material tests for Volute casing, pressure cover, impeller (etanorm)

Certificate	Test report 2.2 to EN 10204
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Order documentation

The following documents will be supplied with the order:

Operating manual
General arrangement drawing
Manufacturer's or conformity declaration
Performance curve
Inspection reports/ certificates
Material certificates

Sectional drawing of pump
Detail drawing mech. seal
Spare parts list
Schematic drawing with allowable forces and moments
Auxiliary connection plan
Technical data sheet
Languages German, English