# Data sheet



Customer pos. no.: PU ME 62 A/B Purchase order date: 2009-08-10

Your P/O no.: B09M0170

Quantity: 4,000

Number: 9971598635 - 044

Line: 000200 Date: 2009-08-26

Page: 9/82

Version no.: 9

# Etanorm G 080-315 SP Standardpump acc. EN 733

Operating	data
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Requested flow rate	140.00 m³/h	Actual flow rate	140.01 m³/h
Requested developed head	31.00 m	Actual developed head	31.00 m
Pumped medium	Water, drinking water / tap	Efficiency	76.5 %
	water	Power absorbed	15.36 kW
	Clean water	Pump speed of rotation	1465 rpm
	Materials are not affected by	NPSH required	2.41 m
	chemical and mech. substances	Permissible operating pressure	16.00 bar.g
Fluid temperature	38.0 ℃	Discharge press.	3.12 bar.g
Fluid density	993 kg/m³		
Fluid viscosity	0.68 mm²/s		
Suction pressure max.	0.10 bar.g	Max. power on curve	17.26 kW
Suction pressure min.	0.10 bar.g	Min. allow. flow rate	19.60 m³/h
NPSH available	10.61 m	Min. allow. mass flow rate	5.40 kg/s
Mass flow rate	38.61 kg/s	Shutoff head	37.70 m

Design			
Pump standard	EN 733	Sealing plan	P1 Gland packing, internal
Design	Baseplate mounted, long-	A liquid from of colide is appure	sealing liquid (Na)
Orientation	coupled Horizontal	A liquid free of solids is assume Seal chamber design	ed. Standard seal chamber
Suction nominal dia.	DN 100	Contact guard	with
Suction nominal pressure	PN 16	Wear ring	Casing wear ring
Suction position	axial	Impeller diameter	318.0 mm
Suction Flange standard	EN 1092-2	Free passage size	18.0 mm
Discharge nominal dia.	DN 80	Direction of rotation from drive	Clockwise
Discharge norminal pressure	PN 16	Silicon free pump assembly	Yes
Pump discharge position Connection standard discharge	top (0 %360 °) EN 1092-2	Bearing bracket construction Bearing bracket size Bearing seal	Standard (normal) WE35 Lip seal
Shaft seal	Gland packing	Bearing type	Anti-friction bearings
Manufacturer	KSB	Lubrication type	Oil
Type	RT-P	Lubrication monitoring	Oil level sight glass
Material code	RT/P	Colour	Ultramarine blue (RAL 5002)
Shaft seal code	1		KSB-blue

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### Driver, accessories

Manufacturer	Flender
Coupling type	Eupex NH
Nominal size	125
Spacer length	140.0 mm

Coupling guard type

Guard size Guard material

Baseplate type

Baseplate size Baseplate fixing

Driver type Model (make)

Drive supplied by

Motor const. type

Н

Lightweight, not treadproof (ZN79)

B189 Galvanised steel ST TZN

U-beam / folded plate

9B

Foundation bolts galvanized

steel

Electric motor **KSB** 

Standard motor supplied by KSB - mounted by KSB

**B**3

200L Motor size Efficiency class Eff1 50 Hz Frequency Operating voltage 400 V Rated power P2 Rated current 53.0 A Starting current ratio

Insulation class Motor enclosure Cos phi at 4/4 load PTC resistor Motor winding

Number of poles

Operating mode Motor cooling method Motor material

30.00 kW F to IEC 34-1 IP55

0.87 3 PTC resistors 400 / 690 V 4

> Delta Surface cooling Aluminium

#### Materials G

#### Notes

general criteria for a water analysis: pH-value >= 7; chloride content (CI) <=250 mg/kg. chlorine (CI2) <=0.6 mg/kg. Volute casing (102) Grey cast iron JL 1040 Grey cast iron JL 1040

Discharge cover (163) Shaft (210)

Steel/Tempered steel E335/C45 Grey cast iron JL 1040

Bearing bracket (330) Joint ring (411)

Impeller (230)

Grey cast iron JL 1040 DPAF Sealing plate asbestosfree

Shaft protecting sleeve (524) Stud (902)

Casing wear ring (502.1)

Casing wear ring (502.2)

Screwed plug (903) Impeller nut (922) Lockwasher (931)

Grey cast iron GG/CAST

IRON

Grey cast iron GG/CAST

**IRON** 

Chrome steel 1.4122+QT750 Steel 8.8

Steel ST Steel 8

Stainless steel 1.4301

#### **Packaging**

Packaging for transport Packaging for storage

Ship Outdoor Packaging for country Packaging category

Germany

B1 Wooden or plywood case, cover provided with polyproylene cellular sheet, outdoor storage up to 3

months

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# Etanorm G 080-315 SP

Standardpump acc. EN 733

#### 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

Certificate

Report

Test participation

Without customer

Quantity without customer 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

# 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