## Data sheet



Customer pos. no.: PU XM 85 A/B Purchase order date: 2009-08-12

Your P/O no.: B09M0172

Quantity: 2,000

Number: 9971599122 - 044

Line: 000400 Date: 2009-08-27 Page: 31 / 78

Version no.: 10

# Etanorm G 040-315 SP Standardpump acc. EN 733

a

Requested flow rate Requested developed head Pumped medium	10.00 m³/h 25.00 m Water, cooling water closed cooling circuit Materials are not affected by chemical and mech. substances	Actual flow rate Actual developed head Efficiency Power absorbed Pump speed of rotation NPSH required Permissible operating	10.00 m <sup>3</sup> /h 25.00 m 30.0 % 2.22 kW 1435 rpm 1.02 m 16.00 bar.g
Fluid temperature Fluid density Fluid viscosity	63.0 ℃ 981 kg/m³ 0.46 mm²/s	pressure Discharge press.	2.91 bar.g
Suction pressure max. Suction pressure min. NPSH available Mass flow rate	0.50 bar.g 0.50 bar.g 13.23 m 2.73 kg/s	Max. power on curve Min. allow. flow rate Min. allow. mass flow rate Shutoff head	2.61 kW 3.23 m³/h 0.88 kg/s 25.56 m

## Ε

Suction pressure min.	0.50 bar.g	Min. allow. flow rate	3.23 m <sup>3</sup> /n
NPSH available	13.23 m	Min. allow. mass flow rate	0.88 kg/s
Mass flow rate	2.73 kg/s	Shutoff head	25.56 m
Execution			
Pump standard Design	EN 733 Baseplate mounted, long-	Sealing plan	P1 Gland packing, internal sealing liquid (Na)
200ig.,	coupled	A liquid free of solids is assume	0 1 1
Orientation	Horizontal	Seal chamber design	Standard seal chamber
Suction nominal dia. Suction nominal pressure Suction position Suction Flange standard Discharge nominal dia.	DN 65 PN 16 axial EN 1092-2 DN 40	Contact guard  Wear ring Impeller diameter Direction rotation from drive Silicon free pump assembly	with Casing wear ring 276.0 mm Clockwise Yes
Discharge norminal pressure Pump discharge position Flange standard	PN 16 top (0 %360 °) EN 1092-2	Bearing bracket construction Bearing bracket size Bearing seal	Standard (normal) WE35 Lip seal
Shaft seal Manufacturer Type Material code Shaft seal code	Gland packing KSB RT-P RT/P	Bearing type Lubrication type Lubrication monitoring Colour	Anti-friction bearings Oil Constant level oiler Ultramarine blue (RAL 5002) KSB-blue

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## Driver, accessories

Manufacturer Coupling type Nominal size Spacer length

Coupling guard type

Guard size Guard material

Baseplate type Baseplate size

Mounting type

Driver type Model (make) Drive supplied by

brive supplied by

Motor const. type

Flender Eupex NH 95

100.0 mm

Lightweight, not treadproof

(ZN79) A148

Galvanised steel ST TZN U-beam / folded plate

3A

Foundation bolts galvanized

steel

Electric motor KSB

Standard motor supplied by KSB - mounted by KSB

B3

Motor size 100L
Efficiency class Eff1
Frequency 50 Hz
Operating voltage 400 V
Rated power P2 3.00 kW
Rated current 6.1 A
Starting current ratio 7

Insulation class Motor enclosure Cosphi at 4/4 load

PTC resistor Motor winding Number of poles Operating mode

Motor cooling method Motor material Eff1
50 Hz
400 V
3.00 kW
6.1 A
7
F to IEC 34-1
IP55
0.81
3 PTC resistors
400 / 690 V
4
Delta

Surface cooling Aluminium

#### Materials G

Volute casing (102) Discharge cover (163) Shaft (210) Impeller (230) Bearing bracket (330) Joint ring (411) Grey cast iron JL 1040 Grey cast iron JL 1040 Chrome steel 1.4057+QT800 Stainless steel 1.4408 Grey cast iron JL 1040 DPAF Sealing plate asbestosfree

Grey cast iron GG/CAST IRON

Casing wear ring (502.2) Shaft protecting sleeve (524) Stud (902) Screwed plug (903)

Screwed plug (903) Impeller nut (922) Lockwasher (931) Stainless steel 1.4408 Chrome steel 1.4122+QT750

Steel 8.8 Steel ST CrNiMo steel A4 Stainless steel 1.4301

### **Packaging**

Packaging for transport Packaging for storage

Casing wear ring (502.1)

Ship Outdoor Packaging for country Packaging category

lrar

B2 With desiccants in PEplastic sheeting, heat-sealed water-proof, in

wooden/plywood case, outdoor storage up to 12

months

# Certifications

Hydrostatic pressure test with water

Range

Test pressure

Certificate
Test time

Complete pump with shaft

seal 21.00 bar.g

Inspection cert. 3.1 to EN 10204

10.0 min

Hydraulic performance test

Test participation
Acceptance standard
Quantity meas. points Q-H

Without customer ISO 9906 class 2, annex A

5

Quantity meas. points NPSH

Certificate
Test participation

Quantity without customer Quantity with customer Bearing temperature test 0 Report

No

Without customer 2 0

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

Certificate

Test report 2.2 to EN 10204

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Etanorm G 040-315 SP Standardpump acc. EN 733

### Order documentation

The following documents will be supplied with the order: General arrangement drawing Spare parts list Operating manual Performance curve Material certificates Sectional drawing of pump

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Detail drawing mech. seal Inspection reports/ certificates
Technical data sheet Schematic drawing with allowable forces and moments Manufacturer's or conformity declaration Languages German, English