Data sheet



Customer pos. no.: PU-ME 61 A/B/C Purchase order date: 2009-08-10

Your P/O no.: B09M0170

Quantity: 3,000

Number: 9971598635 - 044

Line: 000500 Date: 2009-08-26

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Version no.: 9

Etanorm RGC1 150-500.1

Volute casing pump in back pull-out design

Operating data

Requested flow rate	346.50 m³/h	Actual flow rate	346.66 m ³ /h
Requested developed head	85.20 m	Actual developed head	85.28 m
Pumped medium	Water, drinking water / tap	Efficiency	79.1 %
	water	Power absorbed	99.81 kW
	Clean water	Pump speed of rotation	1486 rpm
	Materials are not affected by	NPSH required	2.69 m
	chemical and mech. substances	Permissible operating pressure	10.00 bar.g
Fluid temperature	65.0 ℃	Discharge press.	8.30 bar.g
Fluid density	980 kg/m³		
Fluid viscosity	0.45 mm ² /s		
Suction pressure max.	0.10 bar.g	Max. power on curve	139.62 kW
Suction pressure min.	0.10 bar.g	Min. allow. flow rate	126.10 m³/h
NPSH available	8.86 m	Min. allow. mass flow rate	34.34 kg/s
Mass flow rate	94.42 kg/s	Shutoff head	90.06 m

D

8.86 m 94.42 kg/s	Shutoff head	90.06 m
EN 733 Baseplate mounted, long- coupled Horizontal	Sealing plan nounted, long- A liquid free of solids is assume Seal chamber design Calculated for inlet pressure Contact guard	P1 Gland packing, internal sealing liquid (Na) ed. Standard seal chamber 0.10 bar.g with
DN 200 PN 10 axial EN 1092-2 DN 150 PN 16 top (0 %360 °) EN 1092-2		
	Wear ring Impeller diameter Direction of rotation from drive	Casing wear ring 494.0 mm Clockwise
	Bearing bracket construction Bearing bracket size Bearing seal Bearing type	Standard (normal) WE65 Lip seal Anti-friction bearings
Gland packing KSB RT-P RT/P	Lubrication type Lubrication monitoring Colour	Oil Constant level oiler Ultramarine blue (RAL 5002) KSB-blue
	94.42 kg/s EN 733 Baseplate mounted, long-coupled Horizontal DN 200 PN 10 axial EN 1092-2 DN 150 PN 16 top (0 %360 °) EN 1092-2 Gland packing KSB RT-P	94.42 kg/s EN 733 Baseplate mounted, long- coupled Horizontal DN 200 PN 10 axial EN 1092-2 DN 150 PN 16 top (0°/360°) EN 1092-2 Gland packing KSB RT-P Sealing plan Sealing plan A liquid free of solids is assume Seal chamber design Calculated for inlet pressure Contact guard Wear ring Impeller diameter Direction of rotation from drive Bearing bracket construction Bearing bracket size Bearing type Lubrication type Lubrication monitoring Colour

Data sheet



Without customer

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Volute casing pump in back pull-out design

Driver, accessories

Manufacturer Flender Motor size 315L Coupling type Eupex NH Frequency 50 Hz Nominal size 200 Operating voltage 400 V 200.00 kW Spacer length 200.0 mm Rated power P2 340.0 A Rated current Coupling guard type Lightweight, not treadproof Starting current ratio 6.5 (ZN79) F to IEC 34-1

Insulation class Guard size B254 Motor enclosure

IP55 Guard material Galvanised steel ST TZN Cos phi at 4/4 load 0.88 Baseplate type Etanorm R baseplate PTC resistor 3 PTC resistors

Baseplate size E8 Standstill heater with Baseplate fixing Foundation bolts galvanized Motor winding 400 / 690 V

steel Number of poles 4 Operating mode Delta Driver type Electric motor

Motor cooling method Surface cooling Model (make) Siemens Motor material Grey cast iron GG/CAST

Drive supplied by Standard motor supplied by **IRON** KSB - mounted by KSB

Motor const. type R3

Materials GC1

Volute casing (102) Grey cast iron JL 1040 Joint ring (411) DPAF Sealing plate asbestos-Casing cover material (161) Grey cast iron JL 1040 free Chrome steel 1.4057+QT800 Shaft (210) Casing wear ring (502.1) Grey cast iron JL 1040

Impeller (230) Stainless steel 1.4408 Shaft sleeve (523) Chrome steel 1.4122+QT750 Shaft protecting sleeve (524) Chrome steel 1.4122+QT750

Packaging

Packaging for transport Ship Packaging for country Germany Packaging for storage Outdoor Packaging category

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

Name plates

Name plates language English Mount customer spec. Without nameplate

Certifications

Quantity meas. points Q-H

Quantity meas, points NPSH Hydrostatic pressure test with water Certificate

Inspection cert. 3.1 to EN Range Complete pump with shaft 10204

seal Test participation Test pressure 15.00 bar.g Quantity without customer

3 Certificate

Inspection cert. 3.1 to EN Quantity with customer 0 10204 Bearing temperature test No Test time 10.0 min

Material tests for Volute casing, casing cover, shaft, Hydraulic performance test

impeller (etanormr) Test participation Without customer Certificate

Test report 2.2 to EN 10204 Acceptance standard ISO 9906 class 2, annex A