Data sheet



Customer pos. no.: PU-ME42 A/B/C/D Purchase order date: 2009-08-10

Your P/O no.: B09M0170

Quantity: 4,000

Number: 9971598635 - 044

Line: 001300 Date: 2009-08-26

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Version no.: 9

Etanorm RGC1 250-500

Volute casing pump in back pull-out design

Operating data

Requested flow rate	757.30 m³/h	Actual flow rate	757.30 m³/h
Requested developed head	74.00 m	Actual developed head	74.00 m
Pumped medium	Water, drinking water / tap	Efficiency	83.2 %
	water	Power absorbed	182.21 kW
	Clean water	Pump speed of rotation	1486 rpm
	Materials are not affected by	NPSH required	4.27 m
	chemical and mech. substances	Permissible operating pressure	10.00 bar.g
Fluid temperature	38.0 ℃	Discharge press.	7.30 bar.g
Fluid density	993 kg/m³		_
Fluid viscosity	0.68 mm²/s		
Suction pressure max.	0.10 bar.g	Max. power on curve	216.29 kW
Suction pressure min.	0.10 bar.g	Min. allow. flow rate	276.55 m ³ /h
NPSH available	10.61 m	Min. allow. mass flow rate	76.26 kg/s
Mass flow rate	208.84 kg/s	Shutoff head	81.72 m

NPSH available Mass flow rate	10.61 m 208.84 kg/s	Min. allow. mass flow rate Shutoff head	76.26 kg/s 81.72 m
Design			
Pump standard Design Orientation	EN 733 Baseplate mounted, long-coupled Horizontal	Sealing plan A liquid free of solids is assume Seal chamber design Calculated for inlet pressure	P1 Gland packing, internal sealing liquid (Na) ed. Standard seal chamber 0.10 bar.g
Suction nominal dia. Suction nominal pressure Suction position Suction Flange standard Discharge nominal dia.	DN 300 PN 10 axial EN 1092-2 DN 250	Contact guard Wear ring Impeller diameter Direction of rotation from drive	with Casing wear ring 482.0 mm Clockwise
Discharge norminal pressure Pump discharge position Connection standard discharge	PN 10 top (0%360°) EN 1092-2	Bearing bracket construction Bearing bracket size Bearing seal Bearing type	Standard (normal) WE65 Lip seal Anti-friction bearings
Shaft seal Manufacturer Type Material code	Gland packing KSB RT-P RT/P	Lubrication type Lubrication monitoring Colour	Oil Constant level oiler Ultramarine blue (RAL 5002) KSB-blue

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Driver, accessories

Motor const. type В3 Manufacturer Flender without assignment Motor size Coupling type Arpex NAN Nominal size 212 Frequency 50 Hz 6600 V Operating voltage Spacer length 200.0 mm Rated power P2 336.00 kW Coupling guard type Tread-proof (ZN3230) Rated current 340.0 A Guard size АЗ Starting current ratio 6.5 Guard material Steel F to IEC 34-1 Insulation class Welded steel Motor enclosure IP55 Baseplate type Cos phi at 4/4 load 0.88 Baseplate size 14 Baseplate drain Drip trav PTC resistor 6 PTC resistors Foundation bolts galvanized Baseplate fixing Standstill heater with 400 V steel Motor winding

Number of poles Electric motor Driver type Operating mode Delta Siemens Model (make)

Motor cooling method Surface cooling Drive supplied by Spec. motor supplied by KSB

Motor material - mounted by KSB

Grey cast iron GG/CAST

IRON

Materials GC1

Impeller (230) Stainless steel 1.4408 Joint ring (411) DPAF Sealing plate asbestosgeneral criteria for a water analysis: pH-value >= 7; chloride content (CI) <=250 mg/kg. chlorine (CI2) <=0.6 mg/kg. free Casing wear ring (502.1) Grey cast iron JL 1040 Volute casing (102) Grey cast iron JL 1040 Shaft sleeve (523) Chrome steel 1.4122+QT750 Casing cover material (161) Grey cast iron JL 1040 Chrome steel 1.4122+QT750 Shaft (210) Chrome steel 1.4057+QT800 Shaft protecting sleeve (524)

Packaging

Packaging for country Germany Packaging for transport Ship B1 Wooden or plywood Packaging category Packaging for storage Outdoor case, cover provided with polyproylene cellular sheet,

outdoor storage up to 3 months

Name plates

Without Name plates language English Mount customer spec. nameplate

Certifications

Quantity meas. points NPSH

Hydrostatic pressure test with water Certificate Inspection cert. 3.1 to EN Complete pump with shaft 10204 Range

Test participation Without customer seal Test pressure 15.00 bar.g Quantity without customer 4

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

Material tests for Volute casing, casing cover, shaft, Hydraulic performance test impeller (etanormr) Without customer Test participation Test report 2.2 to EN 10204 Certificate

Acceptance standard ISO 9906 class 2, annex A Quantity meas. points Q-H 5