Data sheet



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VAB 050-040-260 1502KB T82MECCS OA

Vitacast Bloc - Hygienic centrifugal pump

Operating data

Requested flow rateÁ Actual flow rate 25.00 m³/h Actual developed head Requested developed headÁ 80.01 m Pumped medium Water Efficiency 42.7 % Clean water Power absorbed 12.72 kW Not containing chemical and Pump speed of rotation 2954 rpm mechanical substances which NPSH required 1.86 m affect the materials Permissible operating 10.00 bar.g Ambient air temperature 20.0 °C pressure 20.0 °C Fluid temperature Discharge press. 7.83 bar.g Fluid density 998 kg/m³ Fluid viscosity 1.00 mm²/s Min. allow. mass flow for 0.82 kg/s Suction pressure max. 0.00 bar.g continuous stable operation Shutoff head Mass flow rate 6.93 kg/s 92.02 m Max. allow. mass flow Max. power on curve 13.98 kW 9.09 kg/s Design Single system 1 x 100 % Min. allow. flow for continuous 2.97 m³/h stable operation

Design



The pump conforms to the regulations of EGV 1935/2004. Design Close-coupled Orientation Horizontal Suction nominal dia. DN 50 Suction nominal pressure PN 10 Suction position axial Connection standard DIN 11851 (Milk thread) Discharge nominal dia. **DN 40** Discharge norminal pressure PN 10 Discharge position top (0°/360°) Discharge flange drilled DIN 11851 (Milk thread) according to standard Counter Flange

Single acting mechanical seal Shaft seal Manufacturer Roten

Type Uniten 5 Mechanical Seal Form Unbalanced Direction of rotation Spring Shrouding Material code Shaft seal code Sealing plan Seal chamber design Impeller diameter Free passage size Direction of rotation from drive Clockwise Silicon free pump assembly Bearing bracket construction Bearing type Lubrication type Color

Support or motor foot Motor shroud Surface finish wetted parts open **BQ1EGG** T82 B Dead-end Standard seal chamber 244.0 mm 5.0 mm Yes Close-coupled Anti-friction bearings Grease

White aluminium (similar RAL 9006) 4 point ball feet

With 3.2 µm

Clockwise

Data sheet





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Vitacast Bloc - Hygienic centrifugal pump

Driver, accessories

Driver type Electric motor
Drive standard mech. IEC
Model (make) KSB-Motor
Drive supplied by Standard motor supplied by

KSB - mounted by KSB

Motor const. type V15 Motor size 160M

Efficiency class IE3 acc. to

IEC60034-30-1

Frequency 50 Hz
Rated voltage 400 V
Rated power P2 15.00 kW
Available reserve 17.90 %
Rated current 29.4 A
Starting current ratio 9.2

Insulation class F to IEC 34-1

Motor enclosure IP55 Cos phi at 4/4 load 0.78 Motor efficiency at 4/4 load 91.9 %

Temperature sensor 3 PTC resistors Terminal box position 0°/360° (top)

Viewed from the drive

Motor winding 400 / 690 V

Number of poles 2 Connection mode Delta

Motor cooling method Surface cooling Motor material Aluminium Frequency inverter operation FI allowed

allowed

Motor noise pressure level 74 dBa

Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for

pump selection.

Materials C

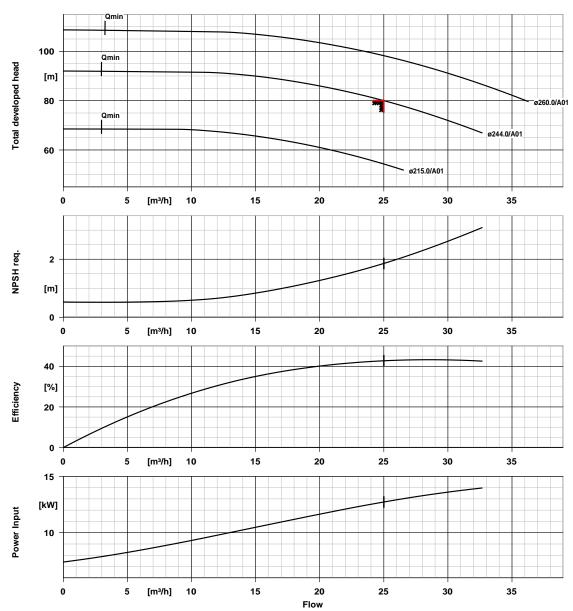
Circular casing (103) Stainless steel 1.4409 Taper locking ring (515) Stainless steel 1.4301 Discharge cover (163) Stainless steel 1.4409 Cover plate (68-3) Stainless steel 1.4301 Shaft (210) CrNiMo steel 1.4404 Motor shroud (683) Stainless steel 1.4301 Stainless steel 1.4409 CrNiMo steel 1.4404 Impeller (230) Impeller nut (922) O-Ring (412) EPDM 70 FDA



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Vitacast Bloc - Hygienic centrifugal pump



Curve data

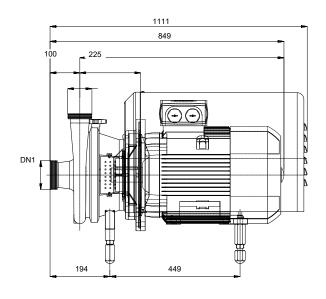
Speed of rotation	2954 rpm	Requested developed head	80.00 m
Fluid density	998 kg/m³	Efficiency	42.7 %
Viscosity	1.00 mm ² /s	Power absorbed	12.72 kW
Flow rate	25.00 m³/h	NPSH required	1.86 m
Requested flow rate	25.00 m³/h	Curve number	VA-40260-2900
Total developed head	80.01 m	Effective impeller diameter	244.0 mm

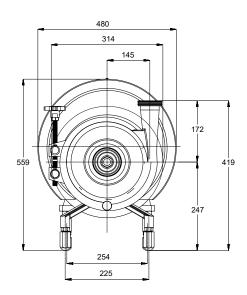


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Vitacast Bloc - Hygienic centrifugal pump





Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer
Motor size
160M
Motor power
15.00 kW
Number of poles
2
Speed of rotation
Position of terminal box
Viewed from the drive

Connections

Suction nominal size DN1 DN 50 / DIN 11851 (Milk thread)
Discharge nominal size DN2 DN 40 / DIN 11851 (Milk thread)
Nominal pressure suct. PN 10
Rated pressure disch. PN 10

Weight net

 Pump
 68 kg

 Motor
 88 kg

 Total
 156 kg

For auxiliary connections see separate drawing.

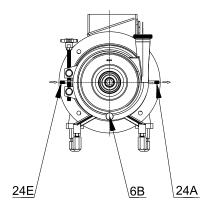
Connect pipes without stress or strain!

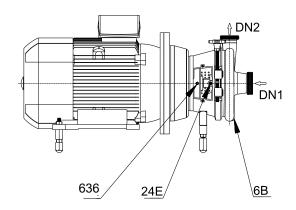


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Vitacast Bloc - Hygienic centrifugal pump





Connections

6B Pumped liquid drain	G 3/8	Not executed
24E/24A Quench liquid in/out	G 1/4	Not executed
10E/10A Sealing liquid in/out	G 1/4	Not executed
636 Lubrication for bearing		Grease nipple