Data sheet

ETLL032-032-080 BPSAV11D200252C AATB PD2E
Inline pump
Ident number 48270109

Operating data

Requested flow rate		Actual flow rate	1.80 m³/h
Requested developed head		Actual developed head	6.00 m
Pumped medium	Water Clean water Not containing chemical and mechanical substances which affect the materials	Efficiency	27.1 %
		Power absorbed	0.11 kW
		Pump speed of rotation	2621 rpm
		NPSH required	0.73 m
		Permissible operating pressure	10.00 bar.g
Max. ambient air temperature	20.0 °C	Discharge press.	0.59 bar.g
Min. ambient air temperature	20.0 °C		
Fluid temperature	20.0 °C		
Fluid density	998 kg/m³	Min. allow. flow for continuous stable operation	0.05 m³/h
Fluid viscosity	1.00 mm²/s		
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for continuous stable operation	0.01 kg/s
Mass flow rate	0.50 kg/s		
Max. power on curve	0.20 kW	Shutoff head	6.30 m
		Max. allow. mass flow	2.81 kg/s
		Design	Single system 1 x 100 %

Design

Pump standard	Without	Manufacturer	KSB
Design	Close-coupled in-line	Type	TYPE 2100
Orientation	Horizontal	Material code	BQ1EGG
Suction nominal dia.	G 2	Shaft seal code	11
Suction nominal pressure	PN 10	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction position	180° (down)		
Suction flange drilled according to standard	EN ISO 228-1	Seal chamber design	Conical seal chamber (A-type cover)
Discharge nominal dia.	G 2		
Discharge norminal pressure	PN 10	Impeller diameter	80.0 mm
Discharge position	top (0°/360°)	Direction of rotation from drive	Anticlockwise
Discharge flange drilled according to standard	EN ISO 228-1	Bearing bracket construction	Close-coupled
		Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
		Color	Vermilion (RAL 2002)

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Driver, accessories

Driver type	Electric motor	Motor enclosure	IP55
Drive standard mech.	IEC	Cos phi at 4/4 load	0.70
Model (make)	KSB	Motor efficiency at 4/4 load	67.0 %
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature classes aggregate	""
Motor const. type	B14	Temperature class motor	""
Motor size	63M	Temperature sensor	Without
Speed control selection	Speed adjustment	Terminal box position	0°/360° (top) Viewed from the drive
Frequency	50 Hz		
Designed for operation with frequency inverter	Yes	Motor winding	400 V
		Number of poles	2
Rated voltage	400 V	Connection mode	Star
Rated power P2	0.25 kW	Motor cooling method	Surface cooling
Available reserve	130.60 %	Motor material	AC-46200F-D
Rated current	0.8 A	Frequency inverter operation allowed	VFD-suitability only in connection with KSB PumpDrive
Starting current ratio	4.6		
Insulation class	F to IEC 34-1	Motor noise pressure level	61 dBa

Materials BP

Volute casing (102)	Bronze CC491K	Motor stool (341)	Aluminium AC-46500
Shaft (210)	Stainless steel 1.4571	O-Ring (412.50)	EPDM 70 PEROXYD
Impeller (230)	Polysulphon PSU-GF30	Cap (580)	Polyamid 66

Performance curve

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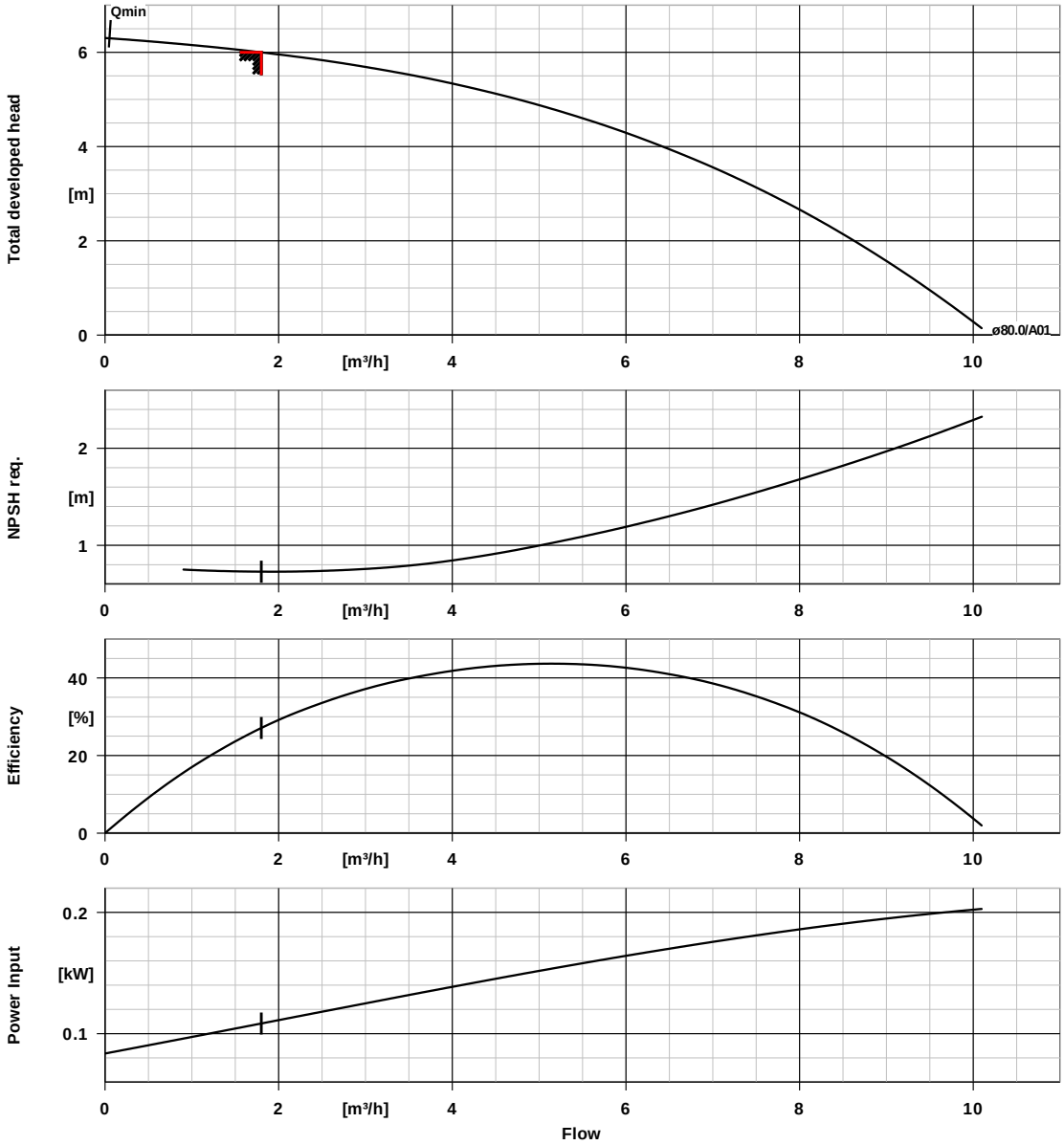

Curve data

Speed of rotation	2621 rpm	Requested developed head	6.00 m
Fluid density	998 kg/m³	Efficiency	27.1 %
Viscosity	1.00 mm²/s	Power absorbed	0.11 kW
Flow rate	1.80 m³/h	NPSH required	0.73 m
Requested flow rate	1.80 m³/h	Curve number	K1159.452/73Ø80
Total developed head	6.00 m	Effective impeller diameter	80.0 mm

Installation plan

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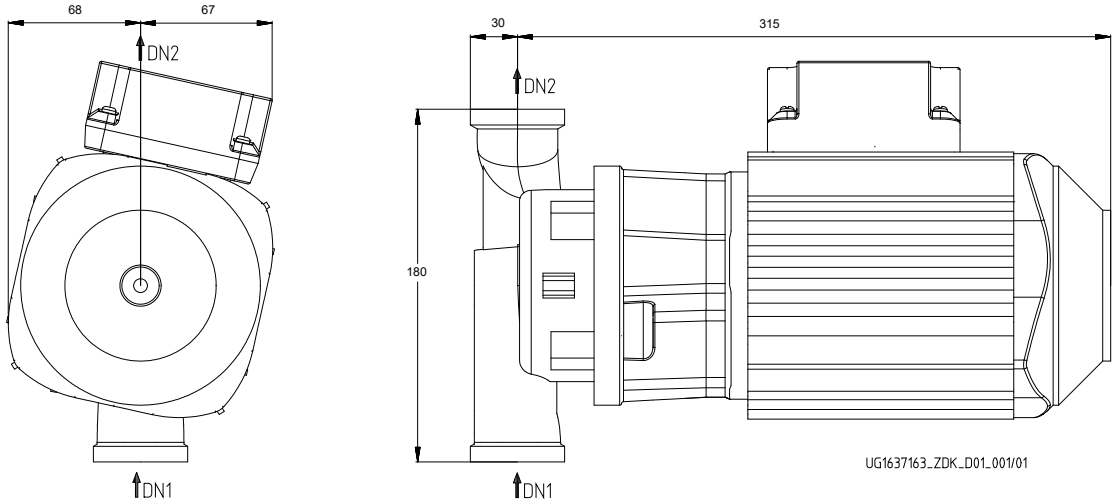

Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB
Motor size	63M
Motor power	0.25 kW
Number of poles	2
Speed of rotation	2938 rpm
Position of terminal box	0°/360° (top) Viewed from the drive

Connections

Suction nominal size DN1	G 2 / EN ISO 228-1
Discharge nominal size DN2	G 2 / EN ISO 228-1
Nominal pressure suct.	PN 10
Rated pressure disch.	PN 10

Weight net

Pump	9 kg
Total	9 kg

Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

Supplementary drawing for PumpDrive

Installation plan

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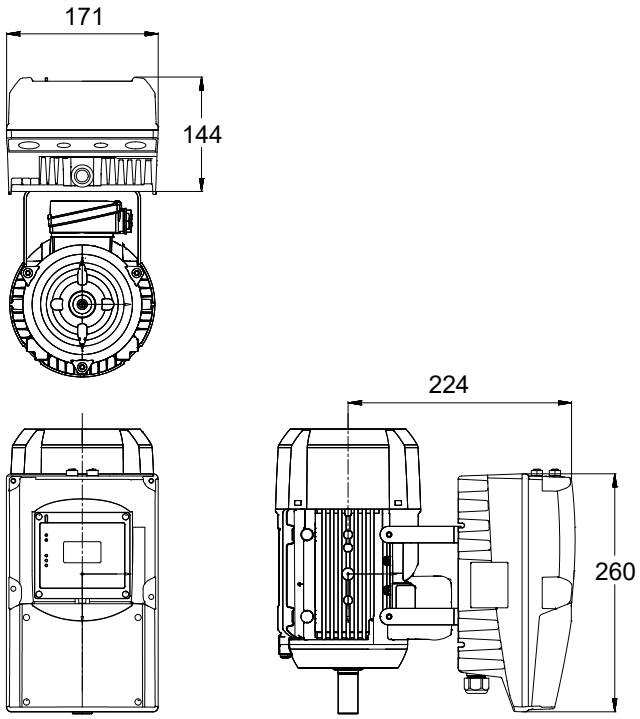

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Connection plan

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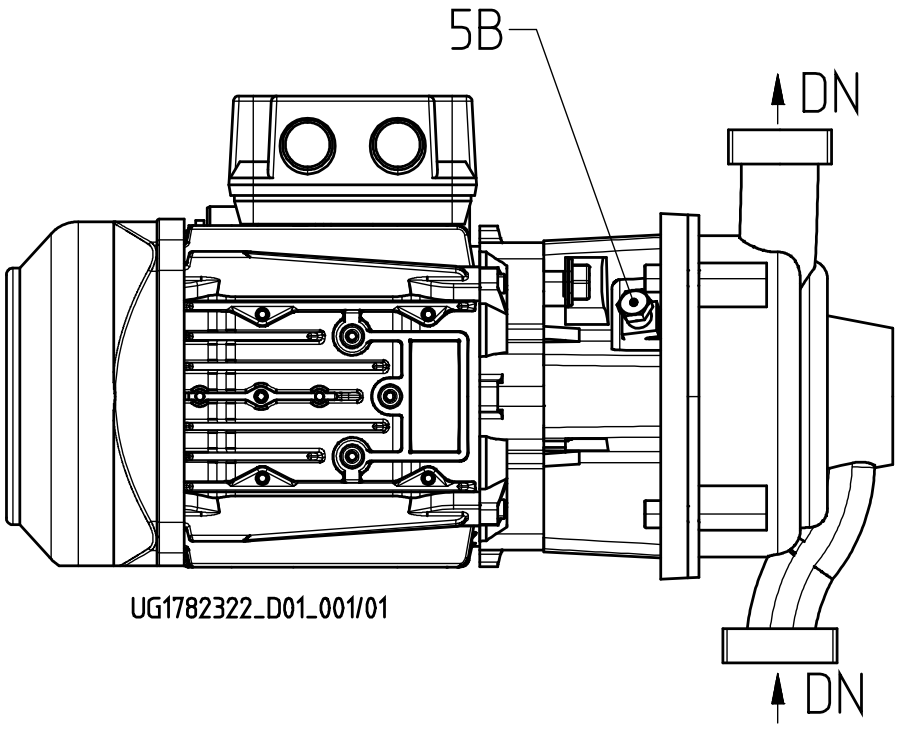

Connections

5B venting	Closed with venting plug