

**ETLL040-040-060 BPSAV11D200252C AATB PD2E**

Inline pump

Ident number 48270137

**Operating data**

Requested flow rate		Actual flow rate	7.25 m <sup>3</sup> /h
Requested developed head		Actual developed head	6.00 m
Pumped medium	Water	Efficiency	59.1 %
	Clean water	MEI (Minimum Efficiency Index)	≥ 0.60
	Not containing chemical and mechanical substances which affect the materials	Power absorbed	0.20 kW
Max. ambient air temperature	20.0 °C	Pump speed of rotation	2652 rpm
Min. ambient air temperature	20.0 °C	NPSH required	1.10 m
Fluid temperature	20.0 °C	Permissible operating pressure	10.00 bar.g
Fluid density	998 kg/m <sup>3</sup>	Discharge press.	0.59 bar.g
Fluid viscosity	1.00 mm <sup>2</sup> /s	Min. allow. mass flow for continuous stable operation	0.02 kg/s
Suction pressure max.	0.00 bar.g	Shutoff head	6.78 m
Mass flow rate	2.01 kg/s	Max. allow. mass flow	3.65 kg/s
Max. power on curve	0.24 kW	Design	Single system 1 x 100 %
Min. allow. flow for continuous stable operation	0.07 m <sup>3</sup> /h		

**Design**

Pump standard	Without	Manufacturer	KSB
Design	Close-coupled in-line	Type	TYPE 2100
Orientation	Horizontal	Material code	BQ1EGG
Suction nominal dia.	DN 40	Shaft seal code	11
Suction nominal pressure	PN 6/10	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction position	180° (down)	Seal chamber design	Conical seal chamber (A-type cover)
Suction flange drilled according to standard	EN1092-2	Impeller diameter	80.0 mm
Discharge nominal dia.	DN 40	Direction of rotation from drive	Anticlockwise
Discharge nominal pressure	PN 6/10	Bearing bracket construction	Close-coupled
Discharge position	top (0°/360°)	Bearing type	Anti-friction bearings
Discharge flange drilled according to standard	EN1092-2	Lubrication type	Grease
Shaft seal	Single acting mechanical seal	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)
Frequency	50 Hz		Viewed from the drive
Designed for operation with frequency inverter	Yes	Motor winding	400 V
Rated voltage	400 V	Number of poles	2
Rated power P2	0.25 kW	Connection mode	Star
Available reserve	25.17 %	Motor cooling method	Surface cooling
Rated current	0.8 A	Motor material	AC-46200F-D
Starting current ratio	4.6	Frequency inverter operation allowed	VFD-suitability only in connection with KSB PumpDrive
Insulation class	F to IEC 34-1	Motor noise pressure level	61 dBa

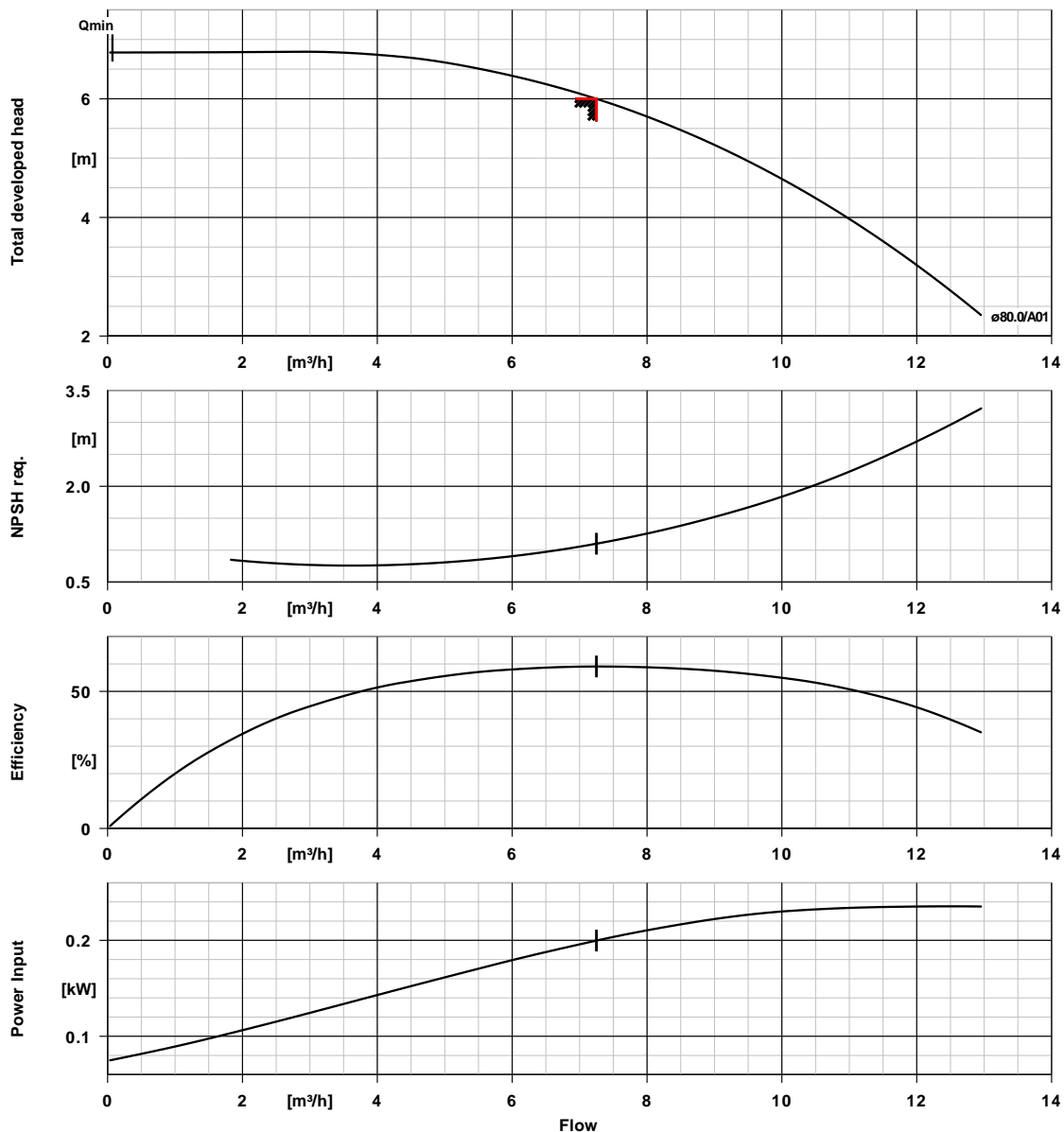
**Materials BP**

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

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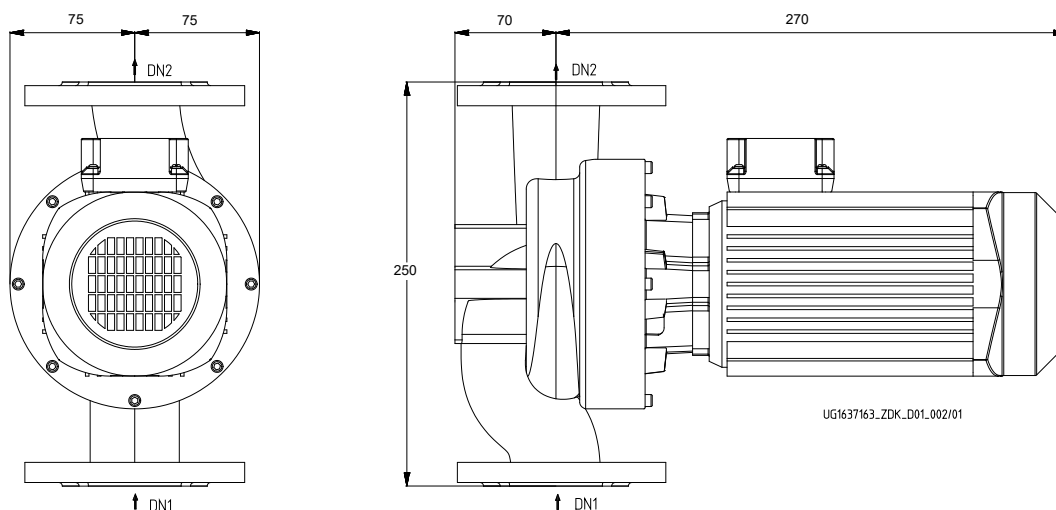


**Curve data**

Speed of rotation	2652 rpm	Efficiency	59.1 %
Fluid density	998 kg/m <sup>3</sup>	MEI (Minimum Efficiency Index)	≥ 0.60
Viscosity	1.00 mm <sup>2</sup> /s	Power absorbed	0.20 kW
Flow rate	7.25 m <sup>3</sup> /h	NPSH required	1.10 m
Requested flow rate	7.25 m <sup>3</sup> /h	Curve number	K1159.452/76
Total developed head	6.00 m	Effective impeller diameter	80.0 mm
Requested developed head	6.00 m		

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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	2888 rpm
Position of terminal box	0°/360° (top) Viewed from the drive

**Connections**

Suction nominal size DN1	DN 40 / EN1092-2
Discharge nominal size DN2	DN 40 / EN1092-2
Nominal pressure suct.	PN 6/10
Rated pressure disch.	PN 6/10

**Weight net**

Pump	19 kg
Total	19 kg

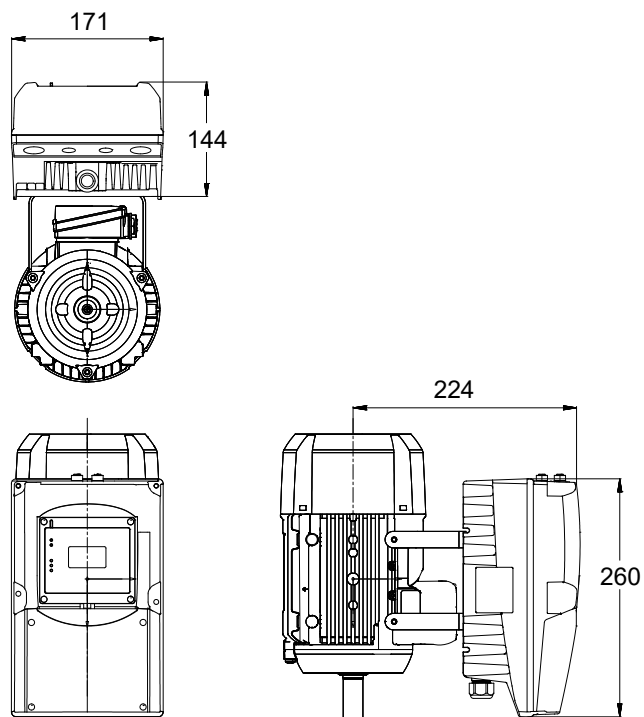
**Connect pipes without stress or strain!**

**For auxiliary connections see separate drawing.**

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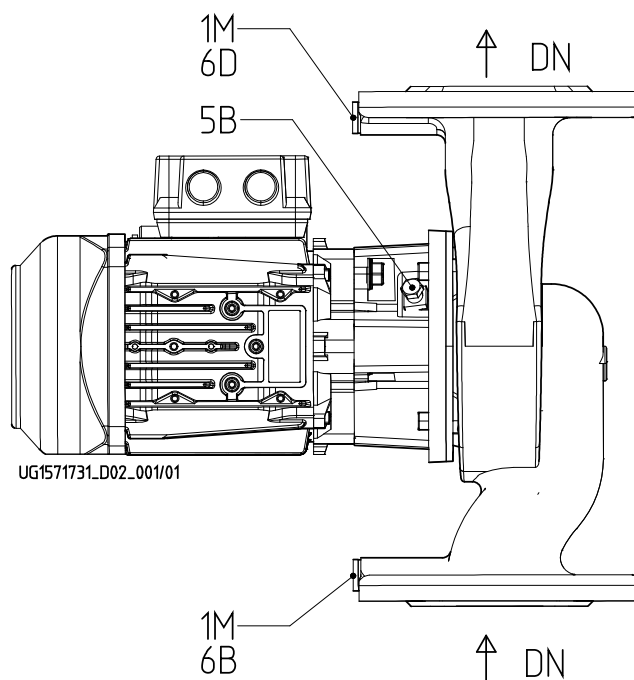


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**Connections**

1M Pressure gauge connection	G 1/4	Drilled and plugged.
6D Pumped medium - filling / venting	G 1/4	Drilled and plugged.
5B venting		Closed with venting plug
6B Pumped liquid drain	G 1/4	Drilled and plugged.