

ETL 065-065-250 GG AV11D200754 BKSBI E2

Inline pump

Operating data

Requested flow rate	62.86 m³/h	Actual flow rate	62.86 m³/h
Requested developed head	24.50 m	Actual developed head	24.50 m
Pumped medium	Water	Efficiency	73.7 %
	Clean water	MEI (Minimum Efficiency Index)	≥ 0.70
	Not containing chemical and mechanical substances which affect the materials	Power absorbed	5.69 kW
Ambient air temperature	20.0 °C	Pump speed of rotation	1638 rpm
Fluid temperature	20.0 °C	NPSH required	3.40 m
Fluid density	998 kg/m³	Permissible operating pressure	16.00 bar.g
Fluid viscosity	1.00 mm²/s	Discharge press.	2.40 bar.g
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for continuous stable operation	2.73 kg/s
Mass flow rate	17.43 kg/s	Shutoff head	30.43 m
Max. power on curve	6.78 kW	Max. allow. mass flow	26.62 kg/s
Min. allow. flow for continuous stable operation	9.83 m³/h	Design	Single system 1 x 100 %

Design

Pump standard	EN 733	Shaft seal code	11
Design	Close-coupled in-line	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Orientation	Vertical	A liquid free of solids is assumed	
Suction nominal dia.	DN 65	Seal chamber design	Conical seal chamber (A-type cover)
Suction nominal pressure	PN 16	Contact guard	with
Suction position	180° (down)	Wear ring	Casing wear ring
Suction flange drilled according to standard	EN1092-2	Impeller diameter	260.0 mm
Discharge nominal dia.	DN 65	Free passage size	10.0 mm
Discharge nominal pressure	PN 16	Direction of rotation from drive	Clockwise
Discharge position	top (0°/360°)	Silicon free pump assembly	Yes
Discharge flange drilled according to standard	EN1092-2	Bearing bracket construction	Close-coupled
Shaft seal	Single acting mechanical seal	Bearing bracket size	25
Manufacturer	KSB	Bearing type	Anti-friction bearings
Type	1	Lubrication type	Grease
Material code	BQ1EGG-WA	Color	Vermilion (RAL 2002)

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Driver, accessories

Driver type	Electric motor	Insulation class	F to IEC 34-1
Drive standard mech.	IEC	Motor enclosure	IP55
Model (make)	KSB	Cos phi at 4/4 load	0.83
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Motor efficiency at 4/4 load	88.7 %
Motor const. type	V1	Temperature sensor	3 PTC resistors
Motor size	132M	Terminal box position	0° same orientation
Efficiency class	IE2 acc. to IEC 60034-30	Motor winding	Viewed from the drive
Speed control selection	Speed adjustment	Number of poles	400 / 690 V
Designed for operation with frequency inverter	Yes	Connection mode	4
Frequency	50 Hz	Motor cooling method	Delta
Rated voltage	400 V	Motor material	Surface cooling
Rated power P2	7.50 kW	Frequency inverter operation allowed	Aluminium
Available reserve	31.92 %	Motor noise pressure level	FI allowed
Rated current	14.7 A		68 dBA
Starting current ratio	6.9		

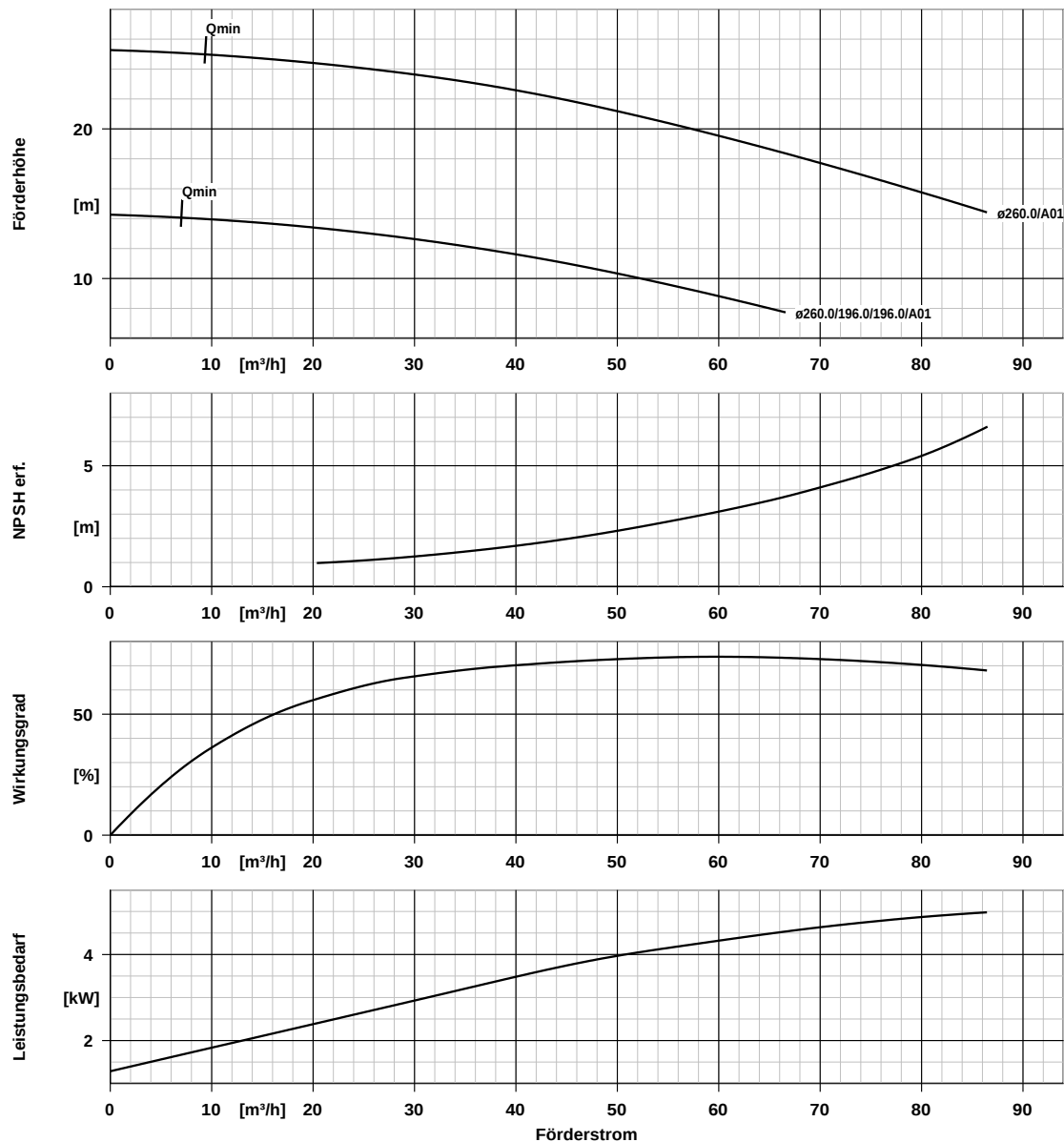
Materials G**Notes 1**

general criteria for a water analysis: pH-value ≥ 7 ; chloride content (Cl) ≤ 250 mg/kg. chlorine (Cl2) ≤ 0.6 mg/kg.

Volute casing (102)	Grey cast iron EN-GJL-250/A48CL35B	Joint ring (411)	Steel ST
Casing cover (161)	Grey cast iron EN-GJL-250/A48CL35B	Casing wear ring (502.1)	Grey cast iron GG/CAST IRON
Shaft (210)	Tempered steel C45+N	Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
Impeller (230)	Grey cast iron EN-GJL-250/A48CL35B	Shaft sleeve (523)	CrNiMo steel
Motor stool (341)	Grey cast iron EN-GJL-250/A48CL35B	Stud (902)	Steel 8.8
Flat gasket (400)	DPAF seal plate asbestos free	Screwed plug (903)	Steel ST
		Impeller nut (922)	Steel 8
		Key (940)	Steel C45+C / A311 GR 1045 CLASS A

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Kurvendaten

Drehzahl 1482 1/min
 Mediumdichte 998 kg/m³
 Viskosität 1,00 mm²/s
 Förderstrom 59,31 m³/h
 Förderhöhe 19,66 m
 Wirkungsgrad 73,7 %

MEI (Index Mindestwirkungsgrad)
 Leistungsbedarf
 NPSH erforderlich
 Kurvennummer
 Effektiver Laufraddurchmesser
 Abnahmenorm

= 0,70

4,30 kW

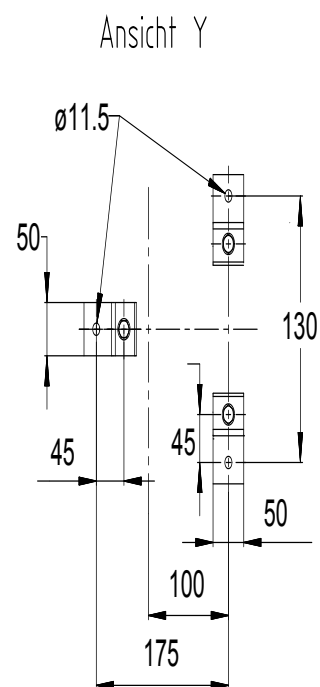
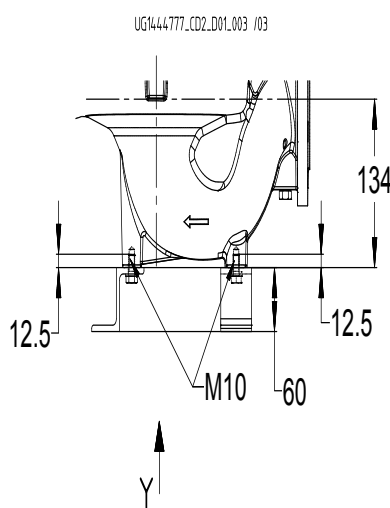
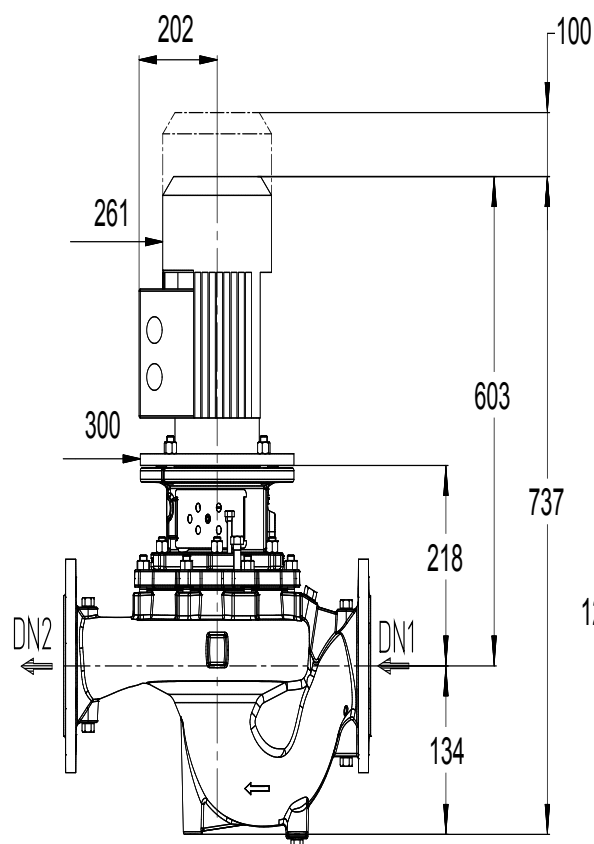
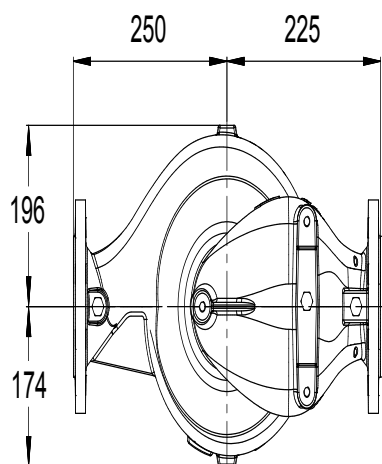
3,05 m

K1159.454/33

260,0 mm

Toleranzen gemäss ISO
 9906 Klasse 3B; kleiner 10
 kW gemäss § 4.4.2

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Drawing is not to scale

Dimensions in mm

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Motor

Motor manufacturer	KSB
Motor size	132M
Motor power	7.50 kW
Number of poles	4
Speed of rotation	1474 rpm
Position of terminal box	0° same orientation Viewed from the drive

Connections

Suction nominal size DN1	DN 65 / EN1092-2
Discharge nominal size DN2	DN 65 / EN1092-2
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 16

Weight net

Pump	43 kg
Motor	49 kg
Total	117 kg

Connect pipes without stress or strain!

**For auxiliary connections see
separate drawing.**