

3B; below 10 kW acc. to paragraph 4.4.2

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ETL 032-032-160 GGSAV11D200074 BKSBIE3

Inline pump

Operating data

Requested flow rate Requested developed head Pumped medium	6.00 m³/h 5.00 m Water	Actual flow rate Actual developed head Efficiency	6.00 m³/h 5.00 m 54.6 %
Pumped medium details	Clean water Not containing chemical and mechanical substances which	MEI (Minimum Efficiency Index) Power absorbed	≥ 0.70 0.15 kW
Max. ambient air temperature Min. ambient air temperature Fluid temperature	affect the materials 20.0 °C 20.0 °C 20.0 °C	Pump speed of rotation NPSH required Permissible operating pressure	1484 rpm 1.04 m 16.00 bar.g
Fluid density Fluid viscosity Suction pressure max. Mass flow rate	998 kg/m³ 1.00 mm²/s 0.00 bar.g 1.66 kg/s	Discharge press. Shutoff head Min. allow. flow for continuous stable operation	0.49 bar.g 5.68 m 1.24 m³/h
Max. power on curve Max. allow. mass flow	0.21 kW 3.83 kg/s	Min. allow. mass flow for continuous stable operation Design	0.34 kg/s Single system 1 x 100 % Tolerances to ISO 9906 Class

Desian

	Design			
	Pump standard	Without	Material code	BQ1EGG-WA
	Caution: The overall length from	n suction to discharge can be	Shaft seal code	11
different to the previous generation of Etaline.		Sealing plan	Single-acting mechanical	
	Design	Close-coupled in-line		seal with vented chamber (A-
	Orientation	Vertical		type casing cover, taper bore)
	Suction nominal dia.	DN 32	A liquid free of solids is assum	ed
	Suction nominal pressure	PN 16	Seal chamber design	Conical seal chamber (A-type
	Suction position	180° (down)		cover)
	Suction flange drilled	EN1092-2	Contact guard	With
	according to standard		Wear ring	Casing wear ring
	Discharge nominal dia.	DN 32	Impeller diameter	129.0 mm
	Discharge nominal pressure	PN 16	Free passage size	5.4 mm
	Discharge position	top (0°/360°)	Direction of rotation from drive	*
	Discharge flange drilled	EN1092-2	Silicon free pump assembly	Yes
	according to standard		Bearing bracket construction	Close-coupled
	Surface type	Raised face (form B to EN	Bearing bracket size	25
		1092)	Bearing type	Anti-friction bearings
	Shaft seal	Single acting mechanical	Lubrication type	Grease
		seal	Color	Ultramarine blue (RAL 5002)
	Shaft seal manufacturer	KSB		KSB-blue
	Shaft seal type	1		



1 PTC resistor

230 / 400 V

Aluminium FI allowed

56 dBa

Yes

Yes

Yes

Motor data can vary from type plate information. Motor data

describes KSB's choice functional specification and is used

Surface cooling

Star

0° same orientation

Viewed from the drive

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Inline 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 V1 080M Motor size

Efficiency class Efficiency class IE3 acc. to

IEC60034-30-1

Motor speed 1484 rpm Frequency 50 Hz Rated voltage 400 V Rated power P2 0.75 kW Available reserve 402.01 % Rated current 1.9 A

Starting current ratio 7.5 F to IEC 34-1 Insulation class Motor enclosure IP55 Cos phi at 4/4 load 0.81 82.5 %

for pump selection. CE-approval **EAC Approval** Condensat drain motor

Temperature sensor

Terminal box position

Motor cooling method

Frequency inverter operation

Motor noise pressure level

Motor winding

Motor material

allowed

Number of poles Connection mode

Ambient temperature 40.0 °C Max. absolute humidity 30 % Without Temp. sensor mtr. bearing UKCA conformity Yes

Materials G

Motor efficiency at 4/4 load

Notes 1

General criteria for a water analysis: pH-value >= 6,5; chloride content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg.

Volute casing (102) Grey cast iron EN-GJL-

250/A48CL35B

Casing cover (161) Grev cast iron EN-GJL-250/A48CL35B

Shaft (210) Tempered steel C45+N

Impeller (230) Grey cast iron EN-GJL-250/A48CL35B

Motor stool (341) Grey cast iron EN-GJL-

250/A48CL35B Flat gasket (400) DPAF DW001

Packaging

Packaging category A0 Packing acc. to KSB

choice

Packaging for storage Indoor

Nameplates

Nameplates language International Joint ring (411) Steel ST

Casing wear ring (502.1) Grey cast iron GG/CAST IRON Casing wear ring (502.2) Grey cast iron GG/CAST IRON Shaft sleeve (523) CrNiMo steel

Stud (902) Steel 8.8 Impeller nut (922) Steel 8

Packaging for transport

Steel C45+C / A311 GR 1045 Key (940)

CLASS A

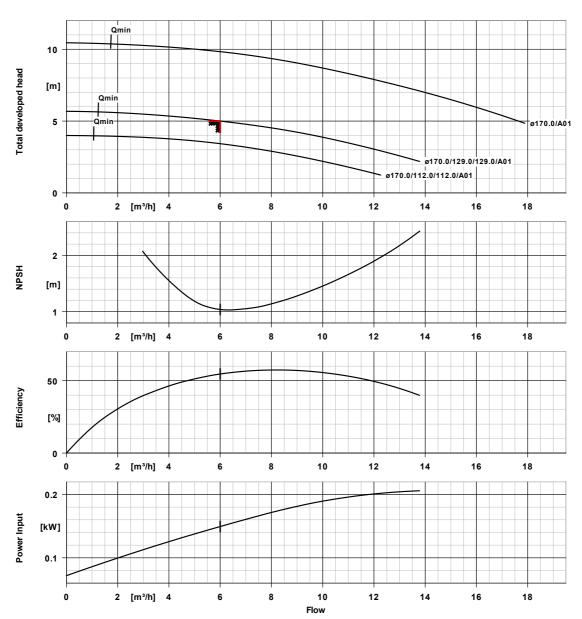
Truck



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Inline pump



Curve data

Speed of rotation	1484 rpm	Efficiency
Fluid density	998 kg/m³	MEI (Minimum
Viscosity	1.00 mm ² /s	Index)
Flow rate	6.00 m³/h	Power absorbe
Requested flow rate	6.00 m³/h	NPSHR
Total developed head	5.00 m	Curve number
Requested developed head	5.00 m	Effective impell
		Acceptance sta

Efficiency 54.6 %
MEI (Minimum Efficiency ≥ 0.70
Index)
Power absorbed 0.15 kW
NPSHR 1.04 m
Curve number K1159.454/18
Effective impeller diameter 129.0 mm

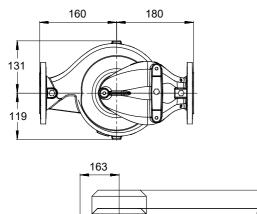
eptance standard Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

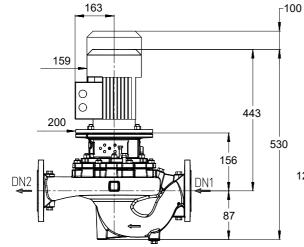


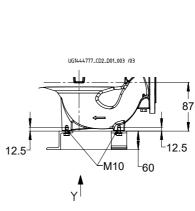
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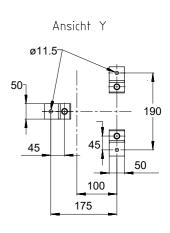
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Inline pump









Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer KSB-Motor Motor size 080M Motor power 0.75 kW Number of poles 4 Speed of rotation 1484 rpm

Position of terminal box 0° same orientation Viewed from the drive

Connections

Suction nominal size DN1 DN 32 / EN1092-2
Discharge nominal size DN2 DN 32 / EN1092-2
Nominal pressure suct. PN 16
Rated pressure disch. PN 16

Weight net

 Pump
 20 kg

 Motor
 15 kg

 Total
 35 kg

For auxiliary connections see separate drawing.

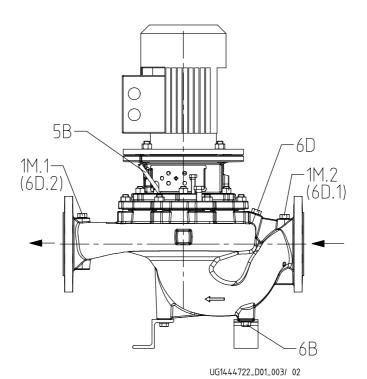
Connect pipes without stress or strain!



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Inline pump



Connections

Pump casing variant		XX46
1M.1 Pressure gauge connection	G 1/4	Drilled and plugged.
1M.2 Pressure gauge connection	G 1/4	Drilled and plugged.
6B Pumped liquid drain	G 1/4	Drilled and plugged.
6D Pumped medium - filling / venting	G 1/4	Drilled and plugged.
5B venting	G 1/4	Closed with venting plug