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#### ETL 040-040-160 GGSAV11D200074 BKSBIE3

Inline pump

### Operating data

	Pumped medium	Water	Actual flow rate	15.68 m³/h
		Clean water	Actual developed head	6.74 m
	Pumped medium details	Not containing chemical and	Efficiency	63.6 %
		mechanical substances which	MEI (Minimum Efficiency	≥ 0.70
		affect the materials	Index)	
	Max. ambient air temperature	20.0 °C	Power absorbed	0.45 kW
	Min. ambient air temperature	20.0 °C	Pump speed of rotation	1457 rpm
	Fluid temperature	20.0 °C	NPSH required	1.75 m
	Fluid density	998 kg/m³	Permissible operating	16.00 bar.g
	Fluid viscosity	1.00 mm²/s	pressure	
	Suction pressure max.	0.00 bar.g	Discharge press.	0.66 bar.g
	Mass flow rate	4.35 kg/s	Shutoff head	8.40 m
	Max. power on curve	0.54 kW	Min. allow. flow for continuous	2.39 m <sup>3</sup> /h
	Max. allow. mass flow	7.07 kg/s	stable operation	
	Design	Single system 1 x 100 %	Min. allow. mass flow for	0.66 kg/s
	9		continuous stable operation	
				Tolerances to ISO 9906 Class
				3B; below 10 kW acc. to
				paragraph 4.4.2
	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.		ition 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 40	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 40	Impeller diameter	156.0 mm
	Discharge nominal pressure	PN 16	Free passage size	5.8 mm
	Discharge position	top (0°/360°)	Direction of rotation from drive	Clockwise
	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
			Bearing type	Anti-friction bearings
		1092)	bearing type	Anti-inclion bearings
	Shaftseal	1092) Single acting mechanical	Lubrication type	Grease
				<b>.</b>
		Single acting mechanical	Lubrication type	Grease

Shaft seal manufacturerKSBShaft seal type1



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#### ETL 040-040-160 GGSAV11D200074 BKSBIE3

Inline pump

#### Driver, accessories

Driver type	Electric motor	Temperature sensor	1 PTC resistor
Drive standard mech.	IEC	Terminal box position	0° same orientation
Model (make)	KSB-Motor		Viewed from the drive
Drive supplied by	Standard motor supplied by	Motor winding	230 / 400 V
	KSB - mounted by KSB	Number of poles	4
Motor const. type	V1	Connection mode	Star
Motor size	080M	Motor cooling method	Surface cooling
Efficiency class	Efficiency class IE3 acc. to	Motor material	Aluminium
	IEC60034-30-1	Frequency inverter operation	Flallowed
Motorspeed	1457 rpm	allowed	
Frequency	50 Hz	Motor noise pressure level	56 dBa
Rated voltage	400 V	Motor data can vary from type p	late information. Motor data
Rated power P2	0.75 kW	describes KSB's choice functional specification and is used	
Available reserve	65.86 %	for pump selection.	
Rated current	1.9 A	CE-approval	Yes
Starting current ratio	7.5	EAC Approval	Yes
Insulation class	F to IEC 34-1	Condensat drain motor	Yes
Motor enclosure	IP55	Ambient temperature	40.0 °C
Cos phi at 4/4 load	0.81	Max. absolute humidity	30 %
Motor efficiency at 4/4 load	82.5 %	Temp. sensor mtr. bearing	Without
		UKCA conformity	Yes
Materials G			
		Joint ring (411)	Steel ST
Notes 1		Casing wear ring (502.1)	Grey cast iron GG/CAST IRON
	alysis: pH-value >= 6,5; chloride	Casing wear ring (502.1) Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
content (CI) <=250 mg/kg. Ch			CrNiMo steel
coment (cr) <=250 mg/kg. cm		Shaft sleeve (523)	CININD SLEEP

Stud (902)

content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg. Volute casing (102) Grey cast iron EN-GJL-

250/A48CL35B Impeller nut (922) Casing cover (161) Grey cast iron EN-GJL-Key (940) 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 A0 Packing acc. to KSB Packaging for transport Packaging category

Truck

Steel 8.8

CLASS A

Steel C45+C / A311 GR 1045

Steel 8

#### Nameplates

Nameplates language

Packaging for storage

International

choice Indoor



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#### Qmiı 10 Qmin Total developed head 8 Qmin 6 [m] ø174.0/A01 4 o174.0/156.0/156.0/A01 ø174.0/136.0/136.0/A01 2 0 5 [m³/h] 10 15 20 25 30 5 NPSH [m] 0 0 5 [m³/h] 10 15 20 25 30 50 Efficiency [%] 0 [m³/h] 10 15 20 25 30 ٥ 5 0.6 [kW] Power Input 0.4 0.2 [m³/h] 20 25 0 5 10 15 30 Flow

### ETL 040-040-160 GGSAV11D200074 BKSBIE3

Inline pump

#### Curve data

- Speed of rotation Fluid density Viscosity Flow rate Total developed head Efficiency
- 1457 rpm 998 kg/m<sup>3</sup> 1.00 mm<sup>2</sup>/s 15.68 m<sup>3</sup>/h 6.74 m 63.6 %

MEI (Minimum Efficiency Index) Power absorbed NPSHR Curve number Effective impeller diameter Acceptance standard

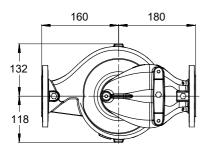
≥ 0.70

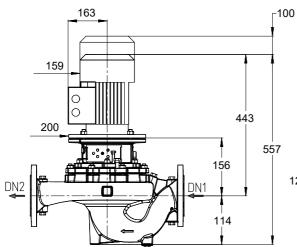
0.45 kW 1.75 m K1159.454/22 156.0 mm Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2



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## ETL 040-040-160 GGSAV11D200074 BKSBIE3 Inline pump





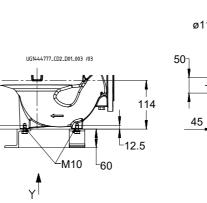
Drawing is not to scale

#### Motor

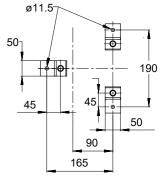
Motor manufacturer	
Motor size	0
Motor power	0
Number of poles	4
Speed of rotation	1
Position of terminal box	0
	•

KSB-Motor 080M 0.75 kW 4 1457 rpm 0° same orientation Viewed from the drive

Connect pipes without stress or strain!



Ansicht Y



#### Dimensions in mm

#### Connections

12.5

Suction nominal size DN1	DN 40 / EN1092-2
Discharge nominal size DN2	DN 40 / EN1092-2
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 16

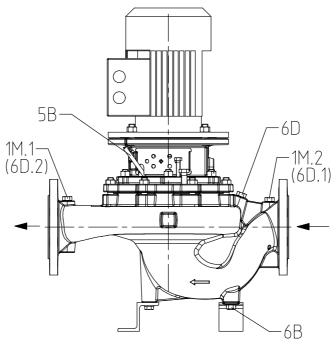
#### Weight net

Pump Motor Total 21 kg 15 kg 36 kg For auxiliary connections see separate drawing.



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# ETL 040-040-160 GGSAV11D200074 BKSBIE3 Inline pump



UG1444722\_D01\_003/ 02

#### 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