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ETLL050-050-160 GGSAV11D400754C AATBIE3

Inline pump Ident number 48270198

Operating data

Requested flow rate Pumped medium		Actual flow rate Actual developed head Efficiency MEI (Minimum Efficiency Index) Power absorbed Pump speed of rotation	17.69 m³/h 7.41 m 63.4 % ≥ 0.40 0.56 kW 1461 rpm
Max. ambient air temperature Min. ambient air temperature Fluid temperature Fluid density	40.0 °C 20.0 °C 47.0 °C 989 kg/m³	NPSH required Permissible operating pressure	0.20 m 10.00 bar.g
Fluid viscosity Suction pressure max. Mass flow rate Max. power on curve Min. allow. flow for continuous stable operation	0.59 mm²/s 0.00 bar.g 4.86 kg/s 0.68 kW 0.23 m³/h	Discharge press. Min. allow. mass flow for continuous stable operation Shutoff head Max. allow. mass flow Design	0.72 bar.g 0.06 kg/s 8.32 m 11.75 kg/s Single system 1 x 100 %

D

Design			
Pump standard	Without	Type	TYPE 2100
Design	Close-coupled in-line	Material code	BQ1EGG
Orientation	Horizontal	Shaft seal code	11
Suction nominal dia.	DN 50	Sealing plan	Single-acting mechanical seal
Suction nominal pressure	PN 6/10	•	with vented chamber (A-type
Suction position	180° (down)		casing cover, taper bore)
Suction flange drilled	EN1092-2	Minimum requirements for hot water quality: treatment acc. to	
according to standard		VdTÜV regulation TCH 1466 an	d solids content up to max. 5
Discharge nominal dia.	DN 50	mg/l.	•
Discharge norminal pressure	PN 6/10	Seal chamber design	Conical seal chamber (A-type
Discharge position	top (0°/360°)	_	cover)
Discharge flange drilled	EN1092-2	Impeller diameter	159.0 mm
according to standard		Direction of rotation from drive	Anticlockwise
Shaft seal	Single acting mechanical seal	Bearing bracket construction	Close-coupled
Manufacturer	KSB	Bearing type	Anti-friction bearings
		Lubrication type	Grease
		Color	Vermilion (RAL 2002)



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Driver, accessories

Driver typeElectric motorMotor enclosureIP55Drive standard mech.IECCos phi at 4/4 load0.76Model (make)KSBMotor efficiency at 4/4 load82.5 %Drive supplied byStandard motor supplied byTemperature classes""

KSB - mounted by KSB aggregate

Motor const. type B14 Temperature class motor

Motor size 080M Temperature sensor Without Efficiency class IE3 acc. to Terminal box position 0°/360° (top)

Motor speed IEC60034-30-1 Viewed from the drive 230 / 400 V

Frequency 50 Hz Number of poles 4
Rated voltage 400 V Connection mode Star
Rated power P2 0.75 kW Motor cooling method Surface

Rated power P2 0.75 kW Motor cooling method Surface cooling
Available reserve 34.62 % Motor material AC-46200F-D
Rated current 1.7 A Frequency inverter operation FI allowed

Starting current ratio 7.9 allowed

Insulation class F to IEC 34-1 Motor noise pressure level 55 dBa

Materials GG

Notes 1 Impeller (230) Grey cast Iron EN-GJL-150
Notes 1 Motor stool (341) Aluminium AC-46500
Unalloyed cast iron components: pH = 9 to 10.5 and O2 O-Ring (412.50) EPDM 70 PEROXYD

content <= 0.02 mg/kg. Cap (580) Polyamid 66

Volute casing (102)

Shaft (210)

Cast iron EN-GJL-200

Stainless steel 1.4571

Order documentation

The following documents will be supplied with the order:

Manufacturer's or conformity declaration

Operating manual
Technical data sheet

Manufacturer's or conformity declaration Technical data sheet General arrangement drawing Performance curve

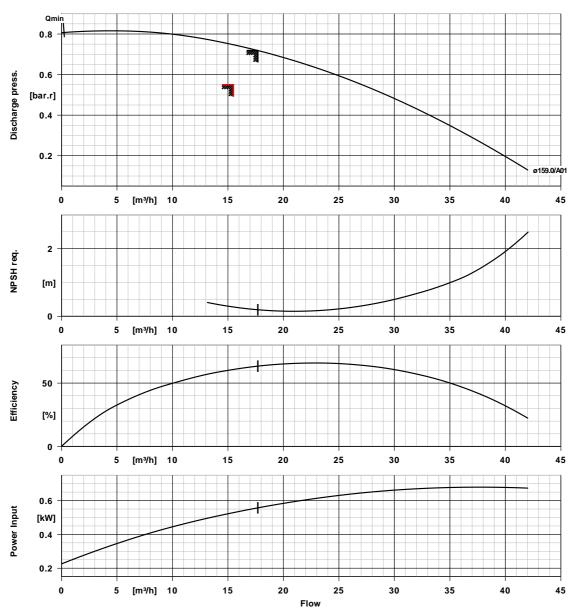
Auxiliary connection plan Languages English



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Curve data

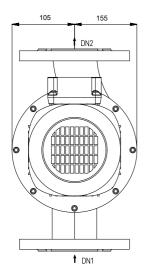
Speed of rotation	1461 rpm	Efficiency	63.4 %
Fluid density	989 kg/m³	MEI (Minimum Efficiency	≥ 0.40
Viscosity	0.59 mm²/s	Index)	
Flow rate	17.69 m³/h	Power absorbed	0.56 kW
Requested flow rate	15.48 m³/h	NPSH required	0.20 m
Total developed head	7.41 m	Curve number	K1159.454/80
Requested discharge	0.55 bar.g	Effective impeller diameter	159.0 mm
pressure	-		

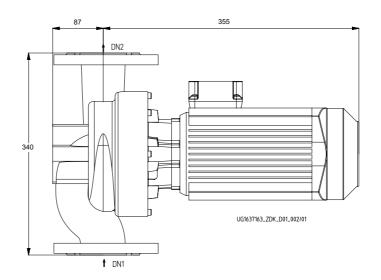


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Drawing is not to scale Dimensions in mm

Motor manufacturer KSB Motor size 080M Motor power 0.75 kW Number of poles 4 Speed of rotation 1461 rpm

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

Connections

DN 50 / EN1092-2 Suction nominal size DN1 Discharge nominal size DN2 Nominal pressure suct. DN 50 / EN1092-2 PN 6/10 Rated pressure disch. PN 6/10

Weight net

Pump 35 kg Total 35 kg

Connect pipes without stress or strain!

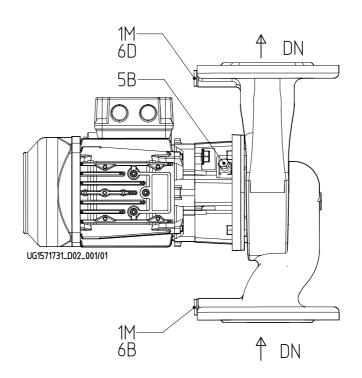
For auxiliary connections see separate drawing.



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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.