

Page: 1 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump

Operating data

-			
Requested flow rate		Actual flow rate	5.000 l/s
Requested developed head		Actual developed head	8.50 m
Pumped medium	Water	Efficiency	63.9 %
	Clean water	MEI (Minimum Efficiency	= 0.40
	Not containing chemical and	Index)	
	mechanical substances which	Power absorbed	0.65 kW
	affect the materials	Pump speed of rotation	2710 rpm
Ambient air temperature	20.0 °C	NPSH required	1.74 m
Fluid temperature	20.0 °C	Permissible operating	10.00 bar.g
Fluid density	998 kg/m³	pressure	
Fluid viscosity	1.00 mm²/s	Discharge press.	0.83 bar.g
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for	0.05 kg/s
Mass flow rate	4.99 kg/s	continuous stable operation	
Max. power on curve	0.73 kW	Shutoff head	10.52 m
Min. allow. flow for continuous	0.046 l/s	Max. allow. mass flow	8.40 kg/s
stable operation		Design	Single system 1 x 100 %

Design

Design			
Pump standard	Without	Manufacturer	KSB
Design	Close-coupled in-line	Type	TYPE 2100
Orientation	Horizontal	Material code	BQ1EGG
Suction nominal dia.	DN 50	Shaft seal code	11
Suction nominal pressure	PN 6/10	Sealing plan	Single-acting mechanical seal
Suction position	180° (down)		with vented chamber (A-type
Suction flange drilled	EN1092-2		casing cover, taper bore)
according to standard		Seal chamber design	Conical seal chamber (A-type
Discharge nominal dia.	DN 50		cover)
Discharge norminal pressure	PN 6/10	Impeller diameter	98.0 mm
Discharge position	top (0°/360°)	Direction of rotation from drive	Anticlockwise
Discharge flange drilled	EN1092-2	Bearing bracket construction	Close-coupled
according to standard		Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
		Color	Vermilion (RAL 2002)



Page: 2 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump

Driver, accessories

Driver type Electric motor Drive standard mech.

Model (make) KSB
Drive supplied by Standard motor supplied by

KSB - mounted by KSB

Motor const. type B14
Motor size 071M

Efficiency class IE2 acc. to

IEC60034-30-1

Speed control selection Speed adjustment

Frequency 50 Hz
Rated voltage 400 V
Rated power P2 0.75 kW
Available reserve 15.33 %
Rated current 1.6 A
Starting current ratio 7.7

Insulation class F to IEC 34-1

Motor enclosure IP55

Cos phi at 4/4 load 0.84 Motor efficiency at 4/4 load 77.4 % Temperature classes ""

aggregate

Temperature class motor
Temperature sensor
Terminal box position

Viewed from the drive
Motor winding 400 V
Number of poles 2
Connection mode Star

Motor cooling method
Motor material

Motor noise pressure level Designed for operation with

frequency inverter Frequency inverter operation

VFD-suitability only in connection with KSB

PumpDrive

""

Without

0°/360° (top)

Surface cooling

AC-46200F-D

64 dBa

Yes

Materials GG

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)

Shaft (210)

Cast iron EN-GJL-200

Stainless steel 1.4571

Impeller (230) Motor stool (341) O-Ring (412.50) Cap (580)

allowed

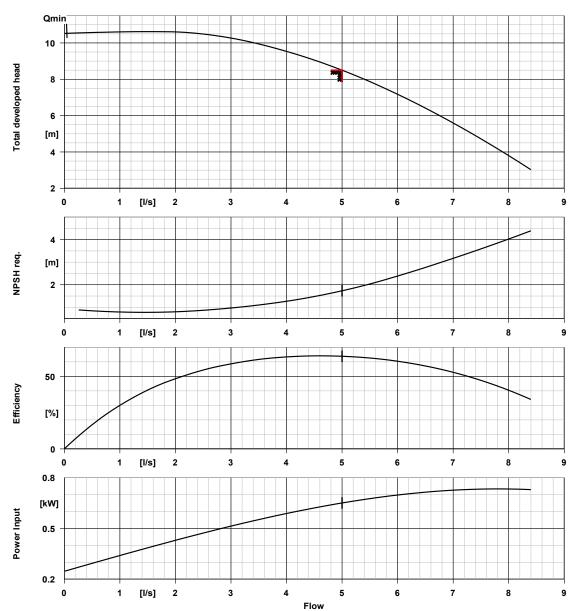
Grey cast Iron EN-GJL-150 Aluminium AC-46500 EPDM 70 PEROXYD Polyamid 66



Page: 3 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump



Curve data

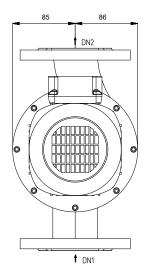
Speed of rotation	2710 rpm	Efficiency	63.9 %
Fluid density	998 kg/m³	MEI (Minimum Efficiency	= 0.40
Viscosity	1.00 mm ² /s	Index)	
Flow rate	5.000 l/s	Power absorbed	0.65 kW
Requested flow rate	5.000 l/s	NPSH required	1.74 m
Total developed head	8.50 m	Curve number	K1159.452/78Ø98
Requested developed head	8.50 m	Effective impeller diameter	98.0 mm

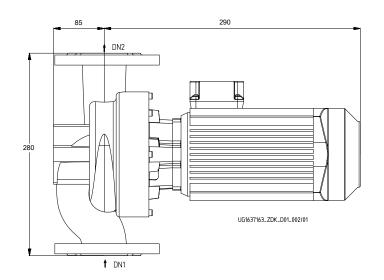


Page: 4 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump





Drawing is not to scale

Connections

Motor

Motor manufacturer KSB
Motor size 071M
Motor power 0.75 kW
Number of poles 2
Speed of rotation 2876 rpm

Position of terminal box

2876 rpm 0°/360° (top) Viewed from the drive Suction nominal size DN1 DN 50 / EN1092-2
Discharge nominal size DN2 DN 50 / EN1092-2
No. 2012

Nominal pressure suct. PN 6/10 Rated pressure disch. PN 6/10

Connect pipes without stress or strain!

Weight net

Pump 24 kg Total 24 kg

For auxiliary connections see separate drawing.

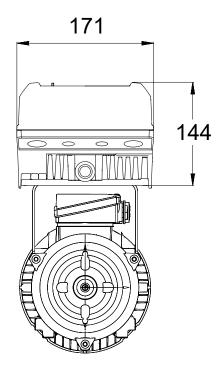
Dimensions in mm

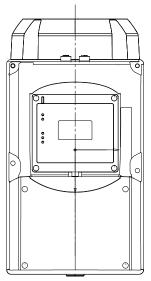


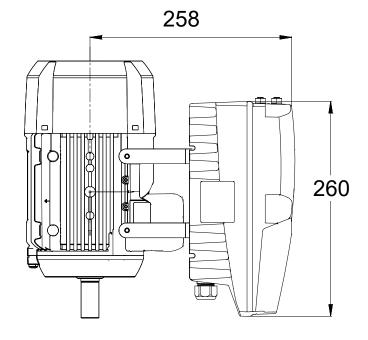
Page: 5 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump





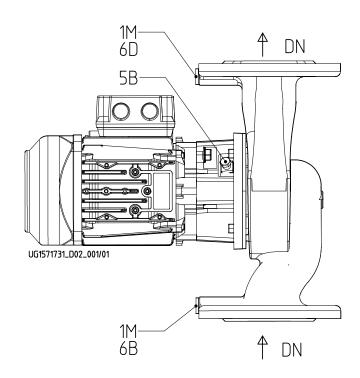




Page: 6 / 6

ETLL050-050-100 GGSAV11D200752C AATBIE2

Inline pump



Connections

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