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ETLZ080-080-250 GGSAV11D300304 BKSBIE3

Inline pump

Operating data

Requested flow rate		Actual flow rate	57.46 m³/h
Requested developed head		Actual developed head	10.00 m
Pumped medium	Water	Efficiency	57.8 %
	Clean water	MEI (Minimum Efficiency	≥ 0.70
	Not containing chemical and	Index)	
	mechanical substances which	Power absorbed	2.71 kW
	affect the materials	Pump speed of rotation	1446 rpm
Ambient air temperature	20.0 °C	NPSH required	1.85 m
Fluid temperature	20.0 °C	Permissible operating	16.00 bar.g
Fluid density	998 kg/m³	pressure	•
Fluid viscosity	1.00 mm²/s	Discharge press.	0.98 bar.g
Suction pressure max.	0.00 bar.q	Min. allow, mass flow for	2.03 kg/s
Mass flow rate	15.93 kg/s	continuous stable operation	2.00 kg/0
Max. power on curve	3.09 kW	Max. allow. mass flow	22.25 kg/s
Min. allow. flow for continuous		Design	Twin system one full duty +
stable operation	7.01 111 /11	2 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	one standby pump
Shutoff head	14.74 m		Tolerances to ISO 9906
Gridton riodd	11.7 1 111		Class 3B; below 10 kW acc.
			to paragraph 4.4.2
			1 5 1

Design

Pump standard	Without	Shaft seal code	11
Design	Close coupled twin inline	Sealing plan	Single-acting mechanical seal
Orientation	Vertical		with vented chamber (A-type
Suction nominal dia.	DN 80		casing cover, taper bore)
Suction nominal pressure	PN 16	A liquid free of solids is assume	ed
Suction position	180° (down)	Seal chamber design	Conical seal chamber (A-type
Suction flange drilled	EN1092-2		cover)
according to standard		Contact guard	With
Discharge nominal dia.	DN 80	Wear ring	Casing wear ring
Discharge norminal pressure	PN 16	Impeller diameter	204.0 mm
Discharge position	top (0°/360°)	Free passage size	14.3 mm
Discharge flange drilled	EN1092-2	Direction of rotation from	Clockwise
according to standard		drive	
Shaft seal	Single acting mechanical seal	Bearing bracket construction	Close-coupled
Manufacturer	KSB	Bearing bracket size	35
Type	1	Bearing type	Anti-friction bearings
Material code	BQ1EGG-WA	Lubrication type	Grease
		Color	Vermilion (RAL 2002)



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400 / 690 V

63 dBa

IRON

Grey cast iron GG/CAST

ETLZ080-080-250 GGSAV11D300304 BKSBIE3

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Driver, accessories

Driver type Electric motor Motor enclosure IP55 Drive standard mech. **IEC** Cos phi at 4/4 load 0.82 KSB-Motor 87.7 % Model (make) Motor efficiency at 4/4 load Drive supplied by Standard motor supplied by

3 PTC resistors Temperature sensor KSB - mounted by KSB Terminal box position 0° same orientation Viewed from the drive

Motor const. type V1 100L Motor size Motor winding

Efficiency class Efficiency class IE3 acc. to Number of poles 4

IEC60034-30-1 Connection mode Delta Motor speed 1450 rpm Surface cooling Motor cooling method Frequency 50 Hz Motor material Aluminium FI allowed

Rated voltage 400 V Frequency inverter operation Rated power P2 3.00 kW allowed Motor noise pressure level Available reserve 10.88 %

Motor data can vary from type plate information. Motor data Rated current 6.2 A Starting current ratio describes KSB's choice functional specification and is used for 8.2

Casing wear ring (502.1)

Insulation class F to IEC 34-1 pump selection.

Materials G

Notes 1

General criteria for a water analysis: pH-value >= 7; chloride Casing wear ring (502.2) Grey cast iron GG/CAST content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg. **IRON**

Volute casing (102) Grey cast iron EN-GJL-Disc (550) Steel ST 250/A48CL35B Stud (902) Steel 8.8

Casing cover (161) Grey cast iron EN-GJL-8+A2A/ 8+B633 SC1 TP3 Nut (920)

250/A48CL35B Impeller nut (922) Steel 8

Shaft (210) Tempered steel C45+N Key (940) Steel C45+C / A311 GR 1045 Impeller (230) Grey cast iron EN-GJL-CLASS A

250/A48CL35B Pipe line (700) Steel ST Motor stool (341) Grey cast iron EN-GJL-

250/A48CL35B DPAF seal plate asbestos Flat gasket (400)

free

Joint ring (411) Steel ST

FOOT 85X 50X 60

3 pump feet with bolts for vertical installation Material no 47077960 Pump foot for vertical installation

Pump foot, not for Etaline SY Weight : 2,0 kg

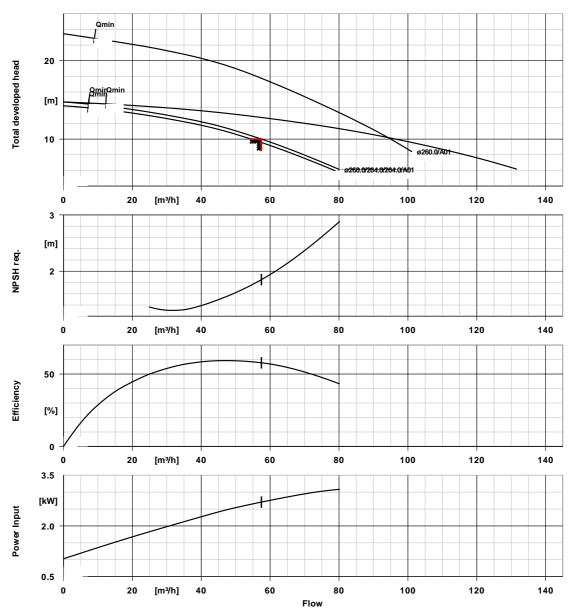
Etaline(Z) 32-160/ up to 100-160/



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Inline pump



Curve data

Speed of rotation	1446 rpm
Fluid density	998 kg/m³
Viscosity	1.00 mm ² /s
Flow rate	57.46 m³/h
Requested flow rate	57.45 m³/h
Total developed head	10.00 m
Requested developed head	10.00 m

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

57.8 %
≥ 0.70

2.71 kW
1.85 m
K1161.454/38
204.0 mm

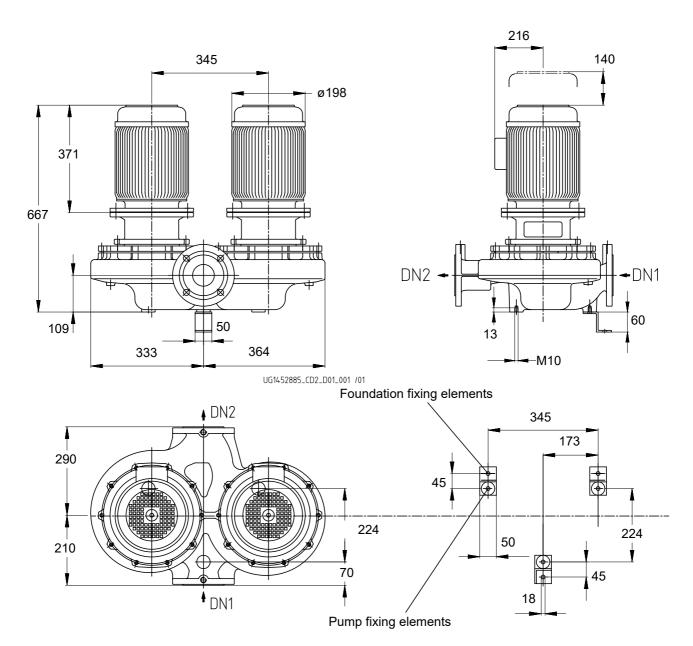
Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2



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Inline pump



Drawing is not to scale Dimensions in mm



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Inline pump

Motor

KSB-Motor Motor manufacturer 100L Motor size Motor power 3.00 kW

Number of poles

Speed of rotation 1450 rpm Position of terminal box

0° same orientation

Viewed from the drive

Connections

Suction nominal size DN1 DN 80 / EN1092-2 DN 80 / EN1092-2 Discharge nominal size DN2

Nominal pressure suct. PN 16 Rated pressure disch. PN 16

Weight net Pump

141 kg Motor 68 kg 2 kg 210 kg Other accessories Total

For auxiliary connections see

separate drawing.

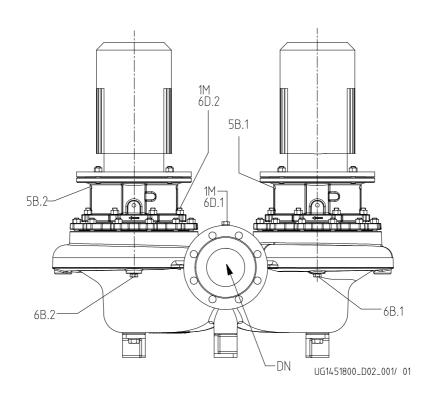
Connect pipes without stress or strain!



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Inline pump



Connections

Pump casing variant		XX46
1M.1 Pressure gauge connection	G 3/8	Not executed
1M.2 Pressure gauge connection	G 3/8	Not executed
6B.1 Pumped liquid drain	G 3/8	Drilled and plugged.
6B.2 Pumped liquid drain	G 3/8	Drilled and plugged.
6D.1 Pumped medium - filling/venting	G 3/8	Drilled and plugged.
6D.2 Pumped medium - filling / venting	G 3/8	Drilled and plugged.
5B.1 venting	G 1/4	Closed with venting plug
5B.2 venting	G 1/4	Closed with venting plug