



ETLZ040-040-250 GGS AV66D200224 BKS BIE3

Inline pump

Operating data

Requested flow rate		Actual flow rate	6.00 m ³ /h
Pumped medium		Actual developed head	23.84 m
		Efficiency	27.9 %
		MEI (Minimum Efficiency Index)	≥ 0.70
		Power absorbed	1.43 kW
		Pump speed of rotation	1461 rpm
		NPSH required	2.13 m
		Permissible operating pressure	16.00 bar.g
Max. ambient air temperature	20.0 °C		
Min. ambient air temperature	20.0 °C		
Fluid temperature	60.0 °C		
Fluid density	1018 kg/m ³		
Fluid viscosity	0.89 mm ² /s	Discharge press.	2.38 bar.g
Suction pressure max.	0.00 bar.g	Min. allow. mass flow for continuous stable operation	0.81 kg/s
Mass flow rate	1.70 kg/s	Max. allow. mass flow	8.89 kg/s
Max. power on curve	2.64 kW	Design	Twin system one full duty + one standby pump
Min. allow. flow for continuous stable operation	2.85 m ³ /h		Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Shutoff head	24.27 m		

Design

Pump standard	Without	Material code	Q7Q7EGG
Design	Close coupled twin inline	Shaft seal code	66
Orientation	Vertical	Sealing plan	Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore)
Suction nominal dia.	DN 40	Seal chamber design	Conical seal chamber (A-type cover)
Suction nominal pressure	PN 16	Contact guard	With
Suction position	180° (down)	Wear ring	Casing wear ring
Suction flange drilled according to standard	EN1092-2	Impeller diameter	261.0 mm
Discharge nominal dia.	DN 40	Free passage size	7.1 mm
Discharge nominal pressure	PN 16	Direction of rotation from drive	Clockwise
Discharge position	top (0°/360°)	Bearing bracket construction	Close-coupled
Discharge flange drilled according to standard	EN1092-2	Bearing bracket size	25
Surface type	Flat face	Bearing type	Anti-friction bearings
Shaft seal	Single acting mechanical seal	Lubrication type	Grease
Manufacturer	Burgmann	Color	Vermilion (RAL 2002)
Type	MG13G6		

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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
Model (make)	KSB-Motor	Motor efficiency at 4/4 load	86.7 %
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature sensor	3 PTC resistors
Motor const. type	V1	Terminal box position	0° same orientation
Motor size	100L		Viewed from the drive
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Motor winding	230 / 400 V
Motor speed	1462 rpm	Number of poles	4
Frequency	50 Hz	Connection mode	Star
Rated voltage	400 V	Motor cooling method	Surface cooling
Rated power P2	2.20 kW	Motor material	Aluminium
Available reserve	53.78 %	Frequency inverter operation	FI allowed
Rated current	4.8 A		allowed
Starting current ratio	8	Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for pump selection.	
Insulation class	F to IEC 34-1	CE-approval	Yes
		Condensat drain motor	Yes

Materials G

Volute casing (102)	Grey cast iron EN-GJL-250/A48CL35B	Casing wear ring (502.2)	Grey cast iron GG/CAST IRON
Casing cover (161)	Grey cast iron EN-GJL-250/A48CL35B	Disc (550)	Steel ST
Shaft (210)	Tempered steel C45+N	Stud (902)	Steel 8.8
Impeller (230)	Grey cast iron EN-GJL-250/A48CL35B	Nut (920)	8+A2A/ 8+B633 SC1 TP3
Motor stool (341)	Grey cast iron EN-GJL-250/A48CL35B	Impeller nut (922)	Steel 8
Flat gasket (400)	DPAF seal plate asbestos free	Key (940)	Steel C45+C / A311 GR 1045
Joint ring (411)	Steel ST	Pipe line (700)	CLASS A
Casing wear ring (502.1)	Grey cast iron GG/CAST IRON		Steel ST

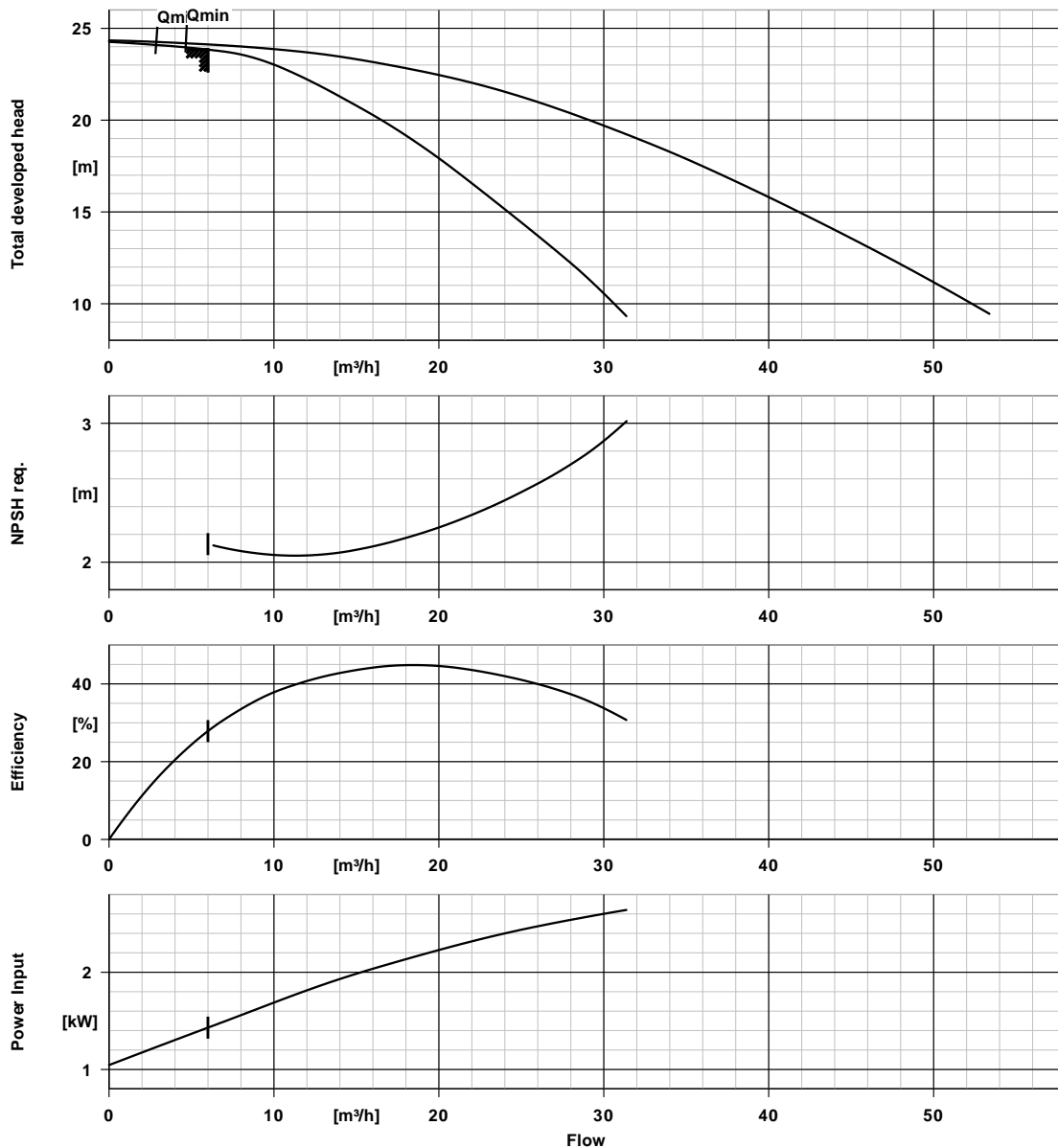
FOOT 85X 50X 60

3 pump feet with bolts for vertical installation
 Pump foot for vertical installation
 Etaline(Z) 32-160/ up to 100-160/

Material no 47077960

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

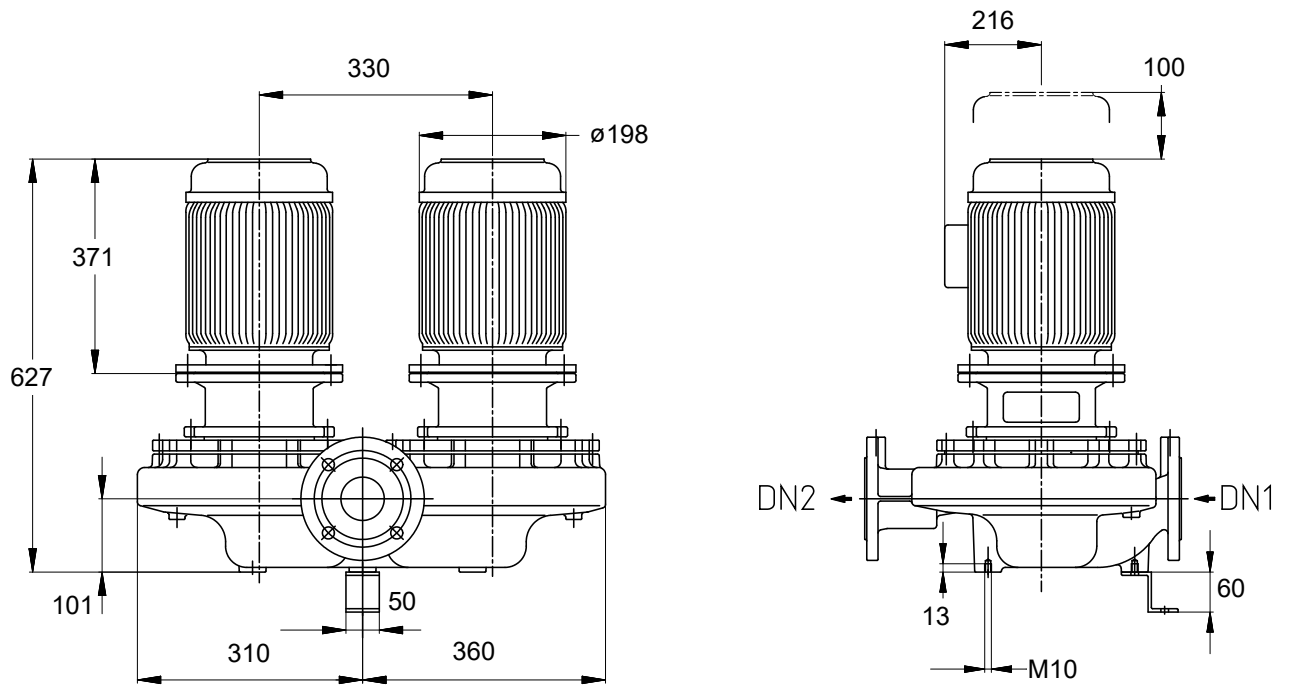
ETLZ040-040-250 GGS AV66D200224 BKSBI E3
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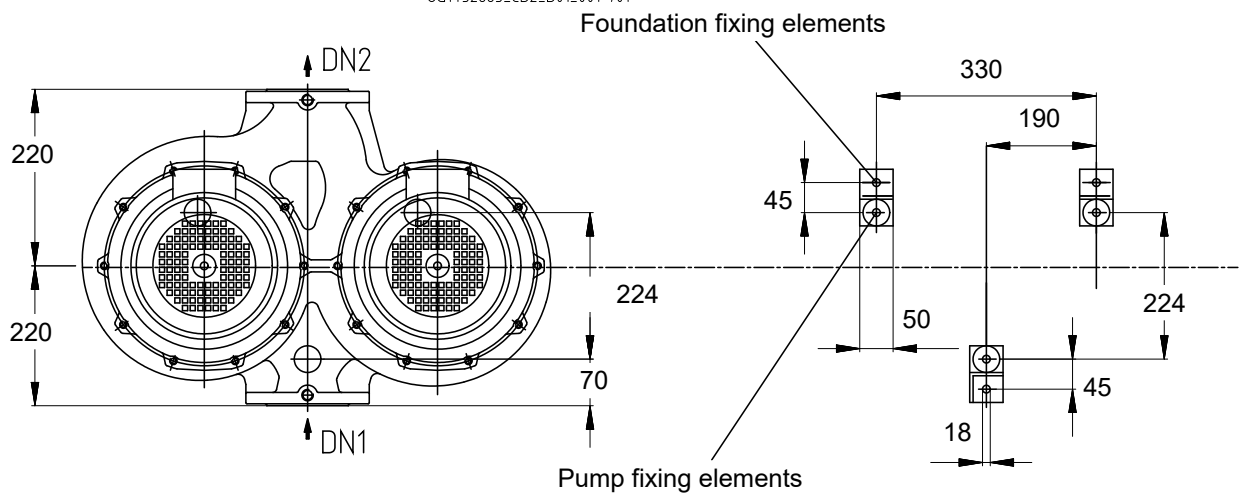
Curve data

Speed of rotation	1461 rpm	MEI (Minimum Efficiency Index)	≥ 0.70
Fluid density	1018 kg/m^3	Power absorbed	1.43 kW
Viscosity	0.89 mm^2/s	NPSH required	2.13 m
Flow rate	6.00 m^3/h	Curve number	K1161.454/24
Requested flow rate	6.00 m^3/h	Effective impeller diameter	261.0 mm
Total developed head	23.84 m	Acceptance standard	Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Efficiency	27.9 %		

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UG14-52885_CD2_D01_001 /01



Drawing is not to scale

Dimensions in mm

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Motor

Motor manufacturer	KSB-Motor
Motor size	100L
Motor power	2.20 kW
Number of poles	4
Speed of rotation	1462 rpm
Position of terminal box	0° same orientation Viewed from the drive

Connections

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

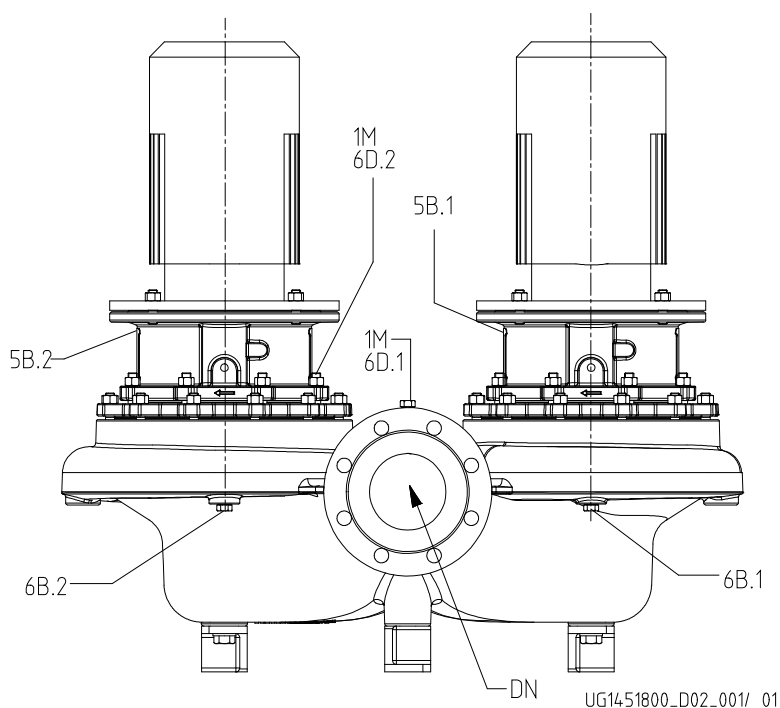
Pump	99 kg
Motor	68 kg
Other accessories	2 kg
Total	168 kg

Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

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UG1451800_D02_001/ 01

Connections

Pump casing variant

1M.1 Pressure gauge connection	G 1/4
1M.2 Pressure gauge connection	G 1/4
6B.1 Pumped liquid drain	G 1/4
6B.2 Pumped liquid drain	G 1/4
6D.1 Pumped medium - filling/venting	G 1/4
6D.2 Pumped medium - filling / venting	G 1/4
5B.1 venting	G 1/4
5B.2 venting	G 1/4

XX46

Not executed
Not executed
Drilled and plugged.
Drilled and plugged.
Drilled and plugged.
Drilled and plugged.
Closed with venting plug
Closed with venting plug