

KSB-blue

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ETPB040-040-140 GC DD200222 B

Standardised KSB pump

Operating data

Requested flow rate		Actual flow rate	5.18 m³/h
Requested developed head		Actual developed head	26.85 m
Pumped medium	Water	Efficiency	24.0 %
	Clean water	Power absorbed	1.58 kW
Pumped medium details	Not containing chemical and	Pump speed of rotation	2936 rpm
	mechanical substances which	NPSH required	1.21 m
	affect the materials	Permissible operating	10.00 bar.g
Max. ambient air temperature	20.0 °C	pressure	
Min. ambient air temperature	20.0 °C	Discharge press.	2.63 bar.g
Fluid temperature	20.0 °C		
Fluid density	998 kg/m³	Shutoff head	28.65 m
Fluid viscosity	1.00 mm²/s	Min. allow. flow for continuous	2.87 m³/h
Suction pressure max.	0.00 bar.g	stable operation	
Mass flow rate	1.44 kg/s	Min. allow. mass flow for	0.80 kg/s
Max. power on curve	2.33 kW	continuous stable operation	
		Max. allow. mass flow	8.48 kg/s
		Design	Single system 1 x 100 %

Design

Pump standard	Self priming pump	Material code atm. side	Q1BVGG
Design	Close-coupled	Sealing plan	DB double acting mechanical
Orientation	Horizontal		seal (back to back)
Suction nominal dia.	DN 40	Barrier liquid: use suitable water	
Suction nominal pressure	PN 16	Aliquid free of solids is assumed	
Suction position	axial	The temperature of the barrier t	fluid must not exceed 60°C.
Suction flange drilled	EN1092-2	Seal chamber design	Standard seal chamber
according to standard		Calculated temperature	10 K
Discharge nominal dia.	DN 40	increase at shaft seal	
Discharge nominal pressure	PN 16	Contact guard	With
Discharge position	top (0°/360°)	Impeller diameter	144.0 mm
Discharge flange drilled	EN1092-2	Direction of rotation from drive	Clockwise
according to standard		Silicon free pump assembly	Yes
Shaft seal	Double-acting mechanical		
	seal		
Shaft seal manufacturer	Burgmann	Bearing bracket construction	Close-coupled
Shaft seal type	M7G49	Bearing bracket size	WE25
Material code	Q1Q1K9GG/G	Bearing type	Anti-friction bearings
Manufacturer atm. side	Burgmann	Lubrication type	Grease
Type atm. side	M7N	Color	Ultramarine blue (RAL 5002)



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Driver, accessories

0.88 Driver type Electric motor Cos phi at 4/4 load Drive standard mech. **IEC** Motor efficiency at 4/4 load 96.0 % Model (make) Siemens Temperature class motor Т3 Drive supplied by Standard motor supplied by VIK version Yes

KSB - mounted by KSB Temperature sensor 3 PTC resistors

Motor const. type V1 Terminal box position 0°/360° (top)
Motor size 90L Viewed from the drive

Efficiency class IE3 acc. to Motor winding 230 / 400 V IEC60034-30-1 Number of poles 2

Motor speed2938 rpmConnection modeStarFrequency50 HzMotor cooling methodSurface coolingRated voltage400 VMotor materialAluminium

Rated voltage 400 V Motor material Aluminium
Rated power P2 2.20 kW Motor noise pressure level 67 dBa
Available reserve 39.40 % Driver colour Ultramarine blu

Available reserve 39.40 % Driver colour Ultramarine blue (RAL 5002) Rated current 4.2 A KSB-blue

Starting current ratio 8.3 ATEX interface temperature at 20.0 °C

Insulation class F to IEC 34-1 motor flange EAC Approval Yes

Motor enclosure IP55

Materials GC

Notes 1 Impeller (230) Stainless steel 1.4408
Notes 1 Motor stool (341) Grey cast iron EN-GJLGeneral criteria for a water analysis: pH-value >= 6,5; chloride 250/A48CL35B

content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg. O-Ring (412) EPDM 80

Volute casing (102) Grey cast iron EN-GJL- Shaft sleeve (523) Stainless steel 1.4571

250/A48CL35B
Casing cover (161) Grey cast iron EN-GJL-

Shaft (210) Stainless steel 1.4571

250/A48CL35B

Packaging

Packaging category A0 Packing acc. to KSB Packaging for transport Truck choice

Packaging for storage Indoor

Nameplates

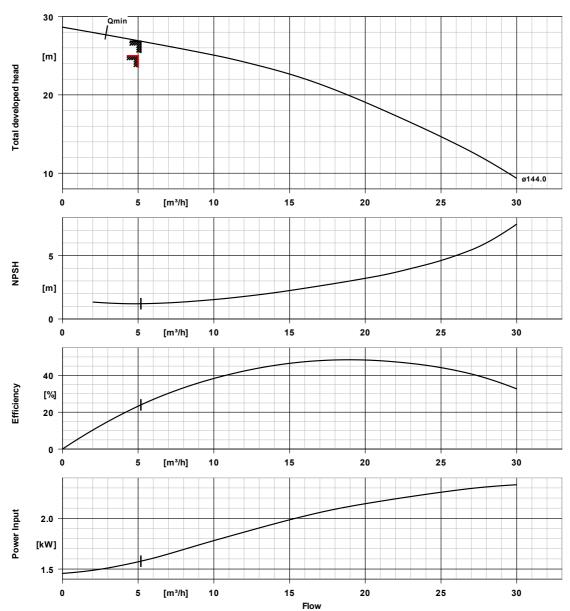
Nameplates language International



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Standardised KSB pump



Curve data

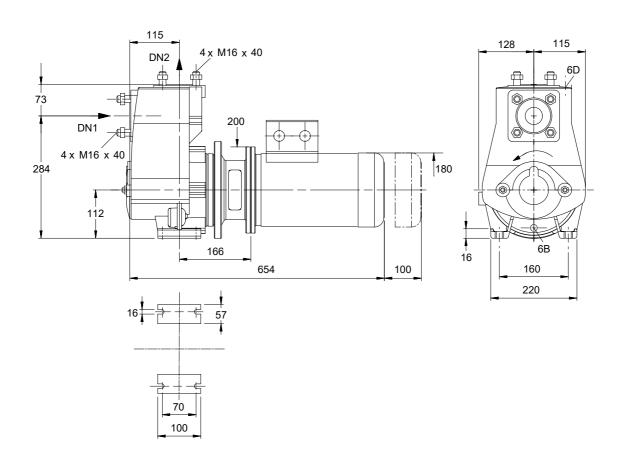
Speed of rotation	2936 rpm	Requested developed head	25.00 m
Fluid density	998 kg/m³	Efficiency	24.0 %
Viscosity	1.00 mm ² /s	Power absorbed	1.58 kW
Flow rate	5.18 m³/h	NPSHR	1.21 m
Requested flow rate	5.00 m³/h	Curve number	K2745.V124730
Total developed head	26.85 m	Effective impeller diameter	144.0 mm



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Drawing is not to scale Dimensions in mm

Motor

Motor manufacturer
Motor size
90L
Motor power
2.20 kW
Number of poles
2
Speed of rotation
Motor enclosure
Position of terminal box
Siemens
2
2.20 kW

2938 rpm
IP55
Position of terminal box
0°/360° (top)
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
 28 kg

 Motor
 19 kg

 Total
 47 kg

For auxiliary connections see separate drawing.

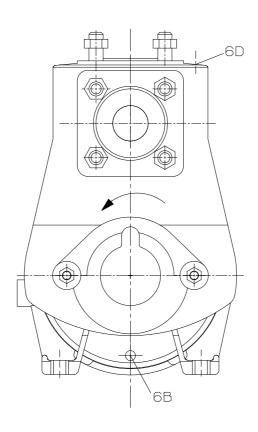
Connect pipes without stress or strain!



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Connections

6B Pumped liquid drain	G 3/8	Drilled and plugged.
6D Pumped medium - filling / venting	G 3/8	Drilled and plugged.