

Etanorm 125-100-315 GB
 ETNF125-100-315-GBAF11A GSIAJ2AHB

Operating point 1 Dimensioning operating point

Operating conditions (purchaser requirements)

Target flow rate	250 m ³ /h	Vapour pressure determined	0.0234 bar.a
Target head	87 m	Minimum inlet pressure required	0 bar
Fluid	Water, fire-fighting water	Specified ambient temperature	20 °C
Fluid variant	without further specification 50204	Installation altitude above sea level	1,000 m
Specified fluid temperature	20 °C		
Density Fluid handled	998 kg/m ³		
Kinematic viscosity Fluid handled	1 mm ² /s		

Operating conditions (performance)

Flow rate	250.02 m ³ /h	Maximum power input at duty point	76.66 kW
Minimum permissible flow rate	45.97 m ³ /h	Maximum power input / curve	103.07 kW
Head	87.02 m	Pump speed	2,263 1/min
Shut-off head	98.23 m	Discharge pressure-max.	9.61 bar
Efficiency Pump	77.1 %		
NPSH required	3.44 m		

Design data pump

Scope of supply Pump supplied by KSB	Bare-shaft pump	Minimum permissible fluid temperature	4 °C
Pump standard	EN 733	Maximum permissible fluid temperature	40 °C
Design according to regulation	Sprinkler acc to APSAD R1	Quantity Stages, single-entry	1
Shaft axis position	Horizontal	Casing wear ring design suction-side	Flat
Pump design	Long-coupled (basepl-mounted)	Casing wear ring design discharge-side	Flat
Pump system design	Single-pump system	Installation chamber Casing cover	Cylindrical (C-type cover)
Specification of wetted parts	Manufactured without paint wetting impairment substances	Bearing bracket size / shaft unit	60
Pump direction of rotation, viewed from casing side	Counterclockwise	Bearing bracket type	Bearing bracket
Impeller diameter D2	334 mm	Bearing bracket design	Heavy
Impeller type	Radial, closed, multi-channel	Pump bearing type, non-drive end	Anti-friction bearing
Free passage	19.9 mm	Pump bearing type, drive end	Anti-friction bearing
Nut lock for Impeller	Yes	Lubrication type	Grease lubrication
Swirl break	No	Bearing seal Pump	Smooth clearance gap
		Pump directive	CE

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Nozzle connections pump

Nominal diameter Suction nozzle	DN 125	Nominal diameter Discharge nozzle	DN 100
Nominal pressure Suction nozzle	PN 16	Nominal pressure Discharge nozzle	PN 16
Suction nozzle position	Axial	Discharge nozzle position	0 deg
Suction nozzle design acc.to	EN1092-2	Discharge nozzle design acc.to	EN1092-2
Suction flange bolt hole pattern as per standard	EN1092-2	Discharge flange bolt hole pattern as per standard	EN1092-2
Flange facing type Inlet	Raised face (B,RF)		
Flange facing type Outlet	Raised face (B,RF)		

Auxiliary connections pump

6B Fluid Drain	G 1/2 Drilled and plugged	1M Pressure gauge Discharge nozzle	G 1/2 Drilled and plugged
6D Fluid Filling and venting	G 1/2 Drilled and plugged	1M Pressure gauge Suction nozzle	Without Without

Shaft sealing

Shaft seal type	Packing int barrier fluid (Na)	Shaft seal code	Code 1A
Determined pressure Seal chamber	0.56 bar	Material Shaft seal inboard	RT-P

Materials

Material Volute casing (102)	EN-GJL-250/A48 CL 35B	Material Bolts/Screws Hydraulic casing (902.01)	8.8
Material Casing cover (161)	EN-GJL-250/A48 CL 35B	Material Screw plug Hydraulic casing	ST
Material Shaft	1.4057+QT800	Material Static seal Screw plug Volute casing	A4/AISI 316
Material Impeller (230)	CC480K DW	Material Nut Impeller fastening (920.95)	(CRNIMO ST INT)
Material Casing wear ring suction-side (502.01)	JL/LAMELLAR GRAPHITE CAST IRON	Material Key	1.4571+C/A276 TP 316 COND B
Material Casing wear ring discharge-side (502.02)	JL/LAMELLAR GRAPHITE CAST IRON		
Material Shaft protecting sleeve	1.4122+QT750		
Material Bearing bracket (330)	EN-GJS-400-18-LT		
Material Static seal Discharge cover	DPAF DW001		

Driver

Electric motor	No
Drive concept	Combustion engine



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Coating

Aggregate

Surface preparation
Properties Primer coat
Thickness Primer coat
Properties Top coat
Thickness Top coat
Colour Top coat

Free from dirt, grease, rust
Hydro dip primer, water-dilutable
60 µm
Acrylate dispersion water-thin
40 µm
RAL3000 Flame Red

Packaging


Suitable for transport	Truck transport
Suitable for storage	Indoor storage
Packaging category	KSB's choice (A0)

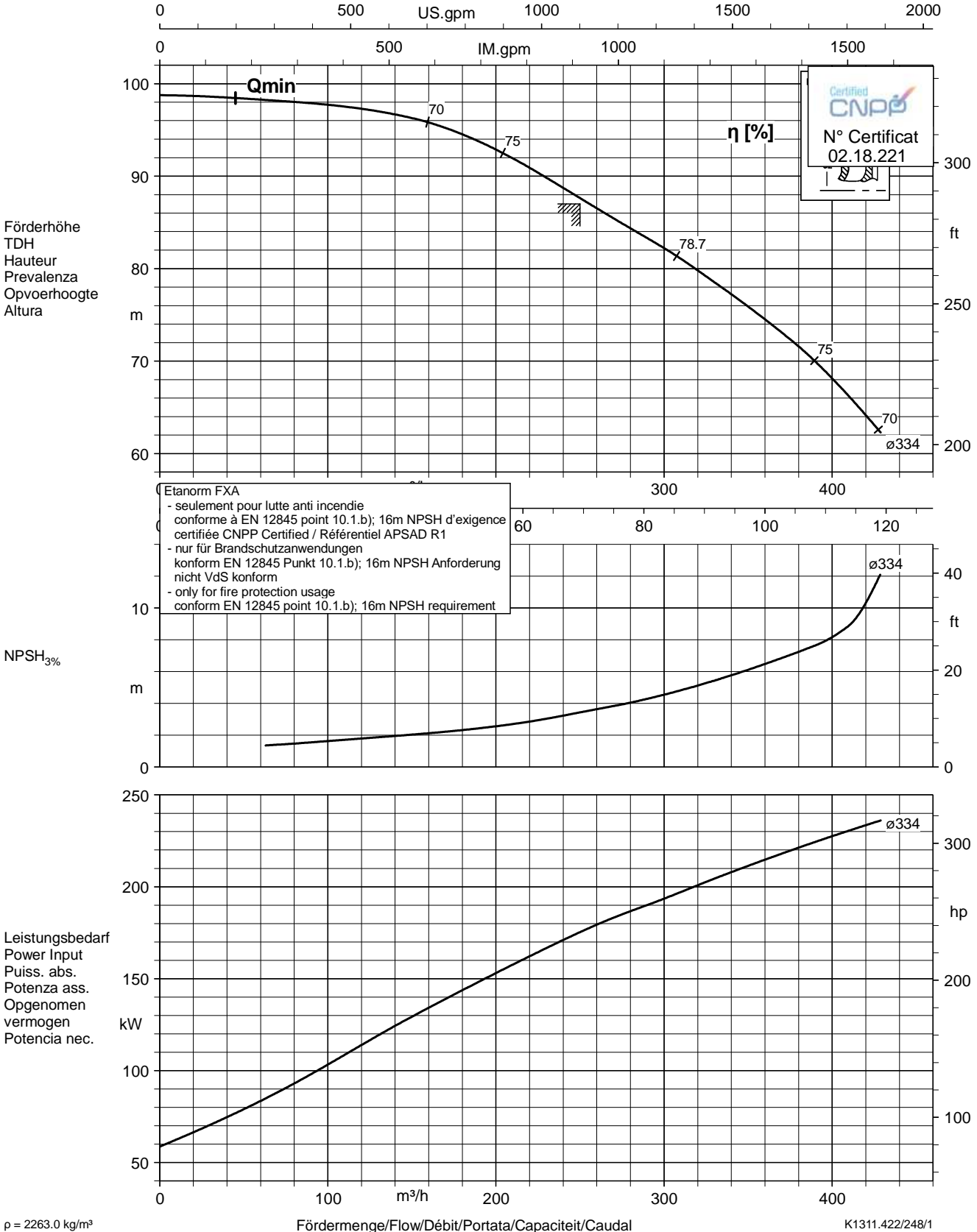
Nameplates

Duplicate name plate	No
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<p>Design data pump</p> <p>Pump standard EN 733</p> <p>Pump design Long-coupled (basepl-mounted)</p> <p>Nominal diameter Suction nozzle DN 125</p> <p>Suction flange bolt hole pattern as per standard EN1092-2</p> <p>Nominal diameter Discharge nozzle DN 100</p> <p>Nominal pressure Discharge nozzle PN 16</p> <p>Discharge flange bolt hole pattern as per standard EN1092-2</p> <p>Material Shaft seal inboard RT-P</p> <p>Shaft seal code Code 1A</p> <p>Impeller diameter D2 334 mm</p> <p>Free passage 19.9 mm</p> <p>Specification of wetted parts Manufactured without paint wetting impairment substances</p>		<p>Materials</p> <p>Material Volute casing EN-GJL-250/A48 CL 35B</p> <p>Material Casing cover EN-GJL-250/A48 CL 35B</p> <p>Material Shaft 1.4057+QT800</p> <p>Material Impeller CC480K DW</p> <p>Dimensioning operating point</p> <p>Fluid Water, fire-fighting water</p> <p>Fluid variant without further specification</p> <p>50204</p> <p>Specified ambient temperature 20 °C</p> <p>Specified fluid temperature 20 °C</p> <p>Flow rate 250.02 m³/h</p> <p>Head 87.02 m</p> <p>Efficiency Pump 77.1 %</p> <p>Maximum power input at duty point 76.66 kW</p> <p>Pump speed 2,263 1/min</p> <p>Pump system design Single-pump system</p> <p>NPSH required 3.44 m</p> <p>Driver</p> <p>Drive concept Combustion engine</p> <p>Drive standard, mechanical IEC</p> <p>Rated power Motor 0.37 kW</p>	
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Baureihe-Größe Type-Size Modèle	Tipo Serie Tipo	Nennndrehzahl Nom. speed Vitesse nom.	Velocità di rotazione nom. Nominaal toerental Revoluciones nom.	Lauftrad-Ø Impeller Dia. Diamètre de roue	Ø Girante Ø Waaier Ø Rodete	 KSB SE & Co. KGaA Johann-Klein-Straße 9 67227 Frankenthal
Etanorm FXA 125-100-315		2263 1/min		334 mm		
Projekt Project Projet	Progetto Projekt Proyecto	Angebots-Nr. Project No. No. de l'offre	Offerta-No. Offertenr. Offerta-No.	Pos.-Nr. Item No. No. de pos.	Pos.Nr. Positiën. Pos.-Nr.	



Performance Curve (Pump)



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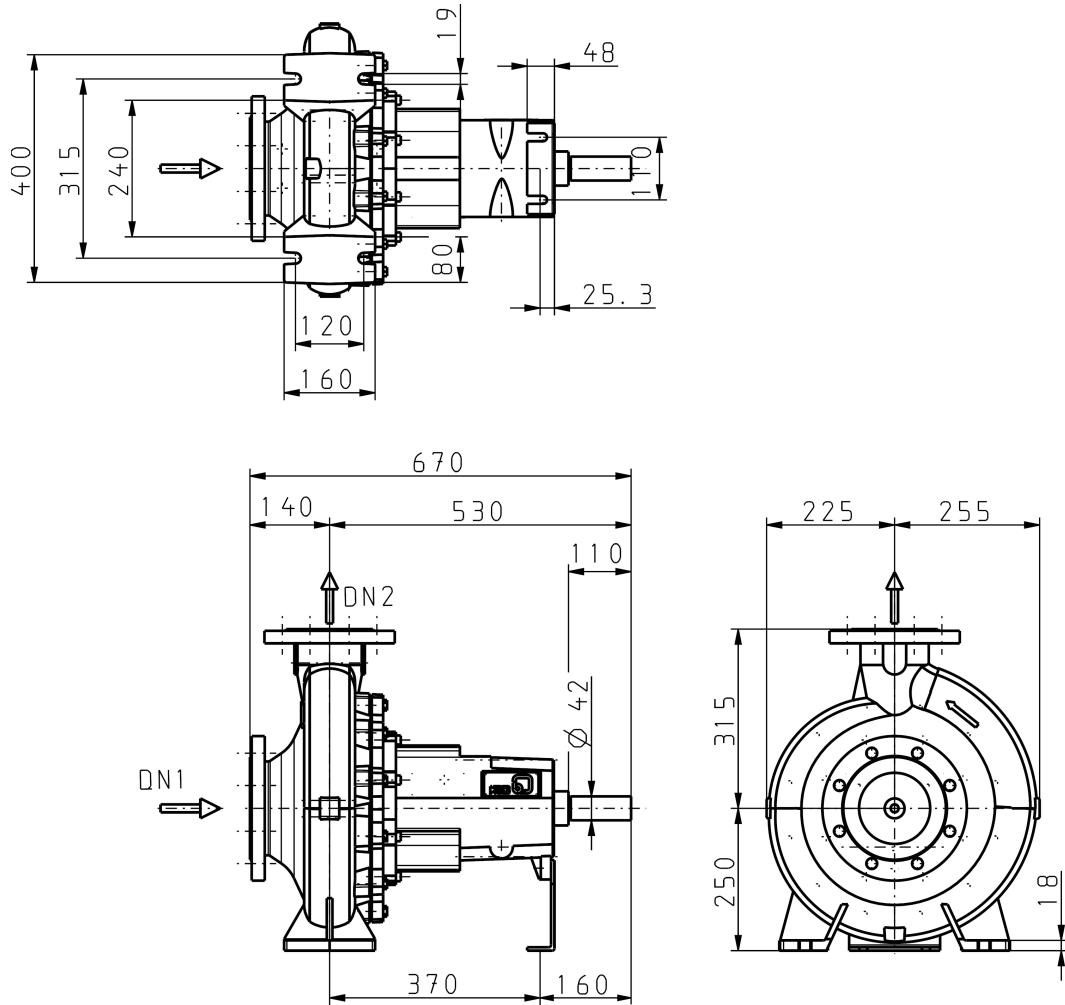
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Curve Data

Pump speed	2,263 1/min	Efficiency Pump	77.1 %
Density Fluid handled	998 kg/m ³	Maximum power input at duty point	76.66 kW
Kinematic viscosity Fluid handled	1 mm ² /s	NPSH required	3.44 m
Flow rate	250.02 m ³ /h	Hydraulic impeller diameter	333.1 mm
Head	87.02 m	Hydraulic calculation according to standard/class	EN ISO 9906 Class 3B

According to EN ISO 9906, §4.4.2 (pump input power below 10 kW)

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Drawing is not to scale.

Dimensions are given in mm

Motor

Rated power Motor 0.37 kW

Connections

Nominal diameter Suction nozzle	DN 125
Suction flange bolt hole pattern as per standard	EN1092-2
Nominal diameter Discharge nozzle	DN 100
Discharge flange bolt hole pattern as per standard	EN1092-2
Nominal pressure Suction nozzle	PN 16
Nominal pressure Discharge nozzle	PN 16

Net weight

Total weight Pump 133.5 kg



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Connect pipelines stress-free

Plan for additional connections see extra drawing

Dimensional tolerances for shaft axis height: DIN 747

Dimensions without tolerances, middle tolerances to: ISO 2768-m

Connection dimensions for pumps: EN735

Dimensions without tolerances - welded parts: ISO 13920-B

Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9