

Etanorm 150-125-200 GG

ETN 150-125-200-GGSAA07 GSFDY4EBH

Operating point 1

Dimensioning operating point

Operating conditions (purchaser requirements)

Fluid	Water	Vapour pressure determined	0,02337 bar.a
Fluid variant	Clean water	Minimum inlet pressure required	-0,3 bar.r
Specified fluid temperature	20 °C	Specified ambient temperature	20 °C
Density Fluid handled	998 kg/m³	Installation altitude above sea level	1.000 m
Kinematic viscosity Fluid handled	1 mm²/s		

Operating conditions (performance)

Flow rate	251,64 m³/h	Maximum power input at duty point	10,31 kW
Minimum permissible flow rate	38,32 m³/h	Maximum power input / curve	10,97 kW
Maximum permissible flow rate Pump set	328,11 m³/h	Pump speed	1.471 1/min
Head	13,18 m	Shut-off discharge pressure	1,709 bar.r
Maximum head of characteristic curve	17,47 m		
Shut-off head	17,47 m		
Efficiency Pump	87,5 %		
NPSH required	2,5 m		

Design data pump

Scope of supply Pump supplied by KSB	Pump + coupling + coupling guard + baseplate + motor	Mains voltage	400 V
Pump standard	EN 733	Mains frequency	50 Hz
Shaft axis position	Horizontal	Minimum efficiency index MEI	0,7
Pump design	Long-coupled (baseplate-mounted)	Minimum permissible fluid temperature	0 °C
Pump system design	Single-pump system	Maximum permissible fluid temperature	60 °C
Pump direction of rotation, viewed from casing side	Counterclockwise	Quantity Stages, single-entry	1
Hydraulic impeller diameter	224 mm	Casing wear ring design suction-side	Flat
Impeller type	Radial, closed, multi-channel	Casing wear ring design discharge-side	Flat
Free passage	21,1 mm	Installation chamber Casing cover	Conical (A-type cover)
		Bearing bracket size / shaft unit	35
		Bearing bracket design	Medium
		Lubrication type	Grease lubrication
		Bearing seal Pump	V-ring
		Pump directive	CE

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Nozzle connections pump

Nominal diameter Suction nozzle	DN 150	Nominal diameter Discharge nozzle	DN 125
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	G 1/2 Drilled and plugged
8B Leakage Drain	G 1/2 Drilled		

Shaft sealing

Shaft seal type	Single mechanical seal (A-type cover) - A	Shaft seal code	Code 07
Operating mode of mechanical seal (function)	API plan 03	Shaft seal manufacturer inboard	KSB's choice
Determined pressure Seal chamber	-0,2 bar.r	Mechanical seal type inboard	KSB's choice
		Material Shaft seal inboard	QQEGG DW001

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Materials

Material Volute casing	EN-GJL-250/A48 CL 35B	Material Bolts/Screws Volute casing	8.8
Material Casing cover	EN-GJL-250/A48 CL 35B	Material Nut Impeller fastening (ST)	
Material Shaft	C45+N		
Material Impeller	EN-GJL-250/A48 CL 35B		
Material Casing wear ring suction-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Casing wear ring discharge-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Shaft protecting sleeve	(CRNIMO ST INT)		
Material Bearing bracket	EN-GJL-250/A48 CL 35B		
Material Static seal Discharge cover	DPAF DW001		

Driver

Asynchronous motors	Yes	Rated speed Motor	1.470 1/min
Drive concept	Electric actuator	Number of motor poles	4
Drive standard, mechanical	IEC	Rated power Motor	11 kW
Drive standard electric	IEC	Motor power reserve determined	6,69 %
Motor bearing, insulated	No	Rated voltage Motor	400 V
Motor manufacturer	KSB's choice	Motor winding	400 / 690 V
Customer supply Drive	No	Rated frequency Motor	50Hz
Motor construction type	IM B3 (IM1001) IEC 60034-7	Motor switching type	Delta
Motor alignment	No	Rated current Motor	22,8 A
Motor size	160M	Starting current ratio Ia/In	7,9
Efficiency class	IE3 (Premium)	Cos phi at 4/4 load	0,8
Material motor housing	AL	Motor efficiency at 4/4 load	91,4 %
Enclosure Motor	IP55 (TEFC)	Motor service factor	1,13
Thermal class	155 (F) according to IEC 60085	Limit value Maximum humidity Motor	30 g/m³
Temperature sensor motor	3 PTC thermistors	Marking according to directive Drive	CE
Terminal box position of motor (looking at the motor shaft)	360 °		
Operation on a frequency inverter permitted	Yes (acc to motor manufact)		
Sound pressure level Motor	68 dBa		
Type series Motor manufacturer	Acc. to motor manufacturer (IEC, IE3)		

Technical Datasheet



Customer Item No.:
Inquiry Date: 20/08/2025
Inquiry No.: CLICHY POUCHET - 92 bd Victor Hugo
Quantity: 1

Quotation: 4005833647
Item no.: 100
Date: 21/08/2025
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Version No.: 2

Installation parts / Accessories

Coupling

Coupling type ROFLEX N
Coupling manufacturer KTR
Nominal size Coupling 95

Coupling guard

Coupling guard type Light (ZN79)
Nominal coupling guard size A148
Material Coupling guard ST+Z

Baseplate

Baseplate type Folded plate/U-section
Material Installation part Pump (ST)
Baseplate size 7A
Drill baseplate at motor end Yes
Connection element type Foundation bolts
Foundation
Material Connecting element 3.6+A2A
Foundation
Foundation bolt set 4xM16x250
Supply Fastening element By customer (not in scope of
Installation part supply)

Coating

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

Aggregate
Free from dirt, grease, rust
Hydro dip primer, water-dilutable
60 µm
Acrylate dispersion water-thinned
40 µm
RAL5002 Ultramarine Blue
RAL5002 Ultramarine Blue

Energy cost and Environmental Impact

Result

Estimated Product Carbon Footprint (cradle-to-gate) (CO₂eq) 1.454 kg

*

This PCF indication is based on the product mass assuming the typical share of materials in use. The conversion rate between product mass and CO₂ emissions is based on several life cycle assessments acc. to ISO14040 / 14044 of sample products of the same type series. Objective and scope of these LCAs was defined as being limited to the manufacturing phase (cradle-to-gate). With regard to inputs, all materials, energy and auxiliary materials were accounted for, and with regard to outputs, emissions, scrap and waste were accounted for. The impact of outbound logistics is not covered. The assessments' input variables cover at least 95 % of the total product mass. The analysis focuses exclusively on the Global Warming Potential (EF3.0 Climate Change – total).

Packaging

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

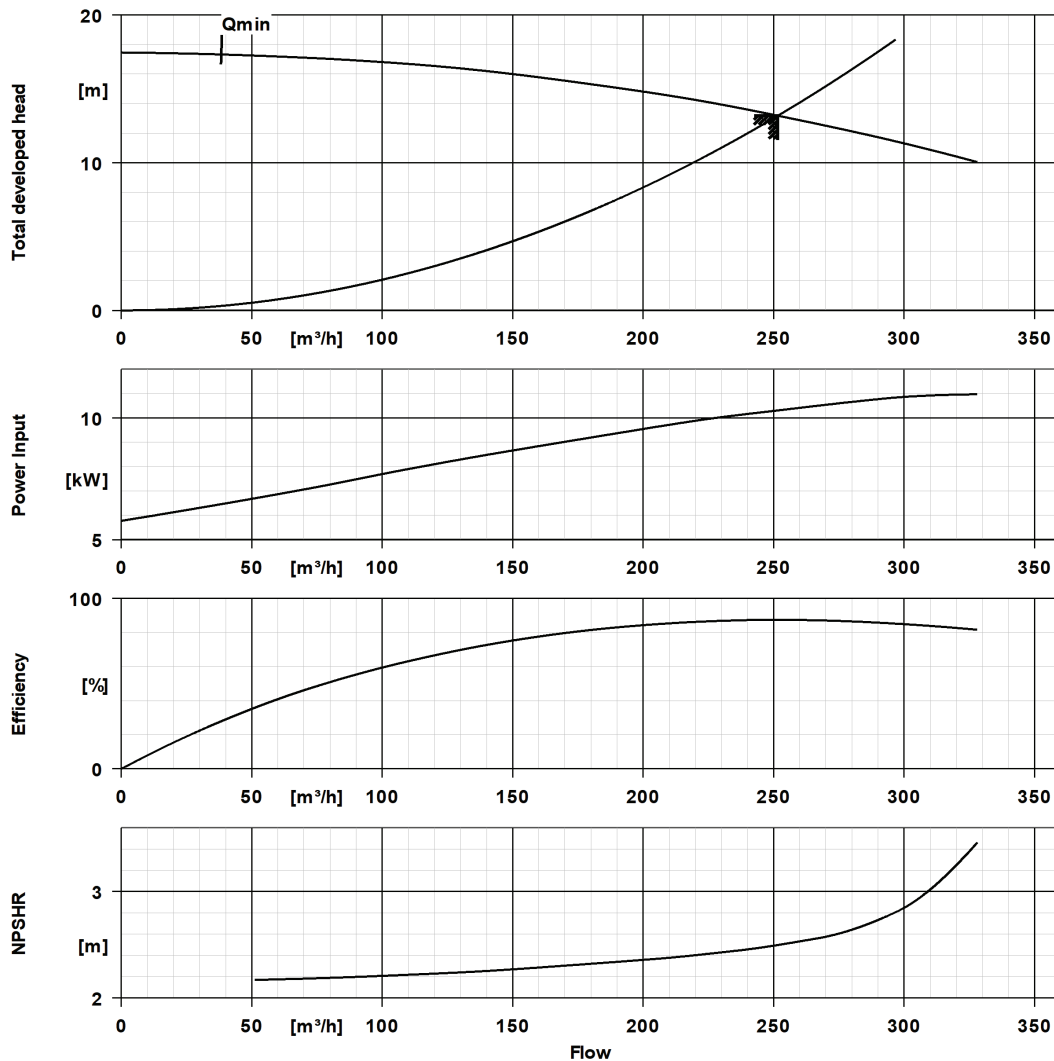
Performance Curve (Pump)



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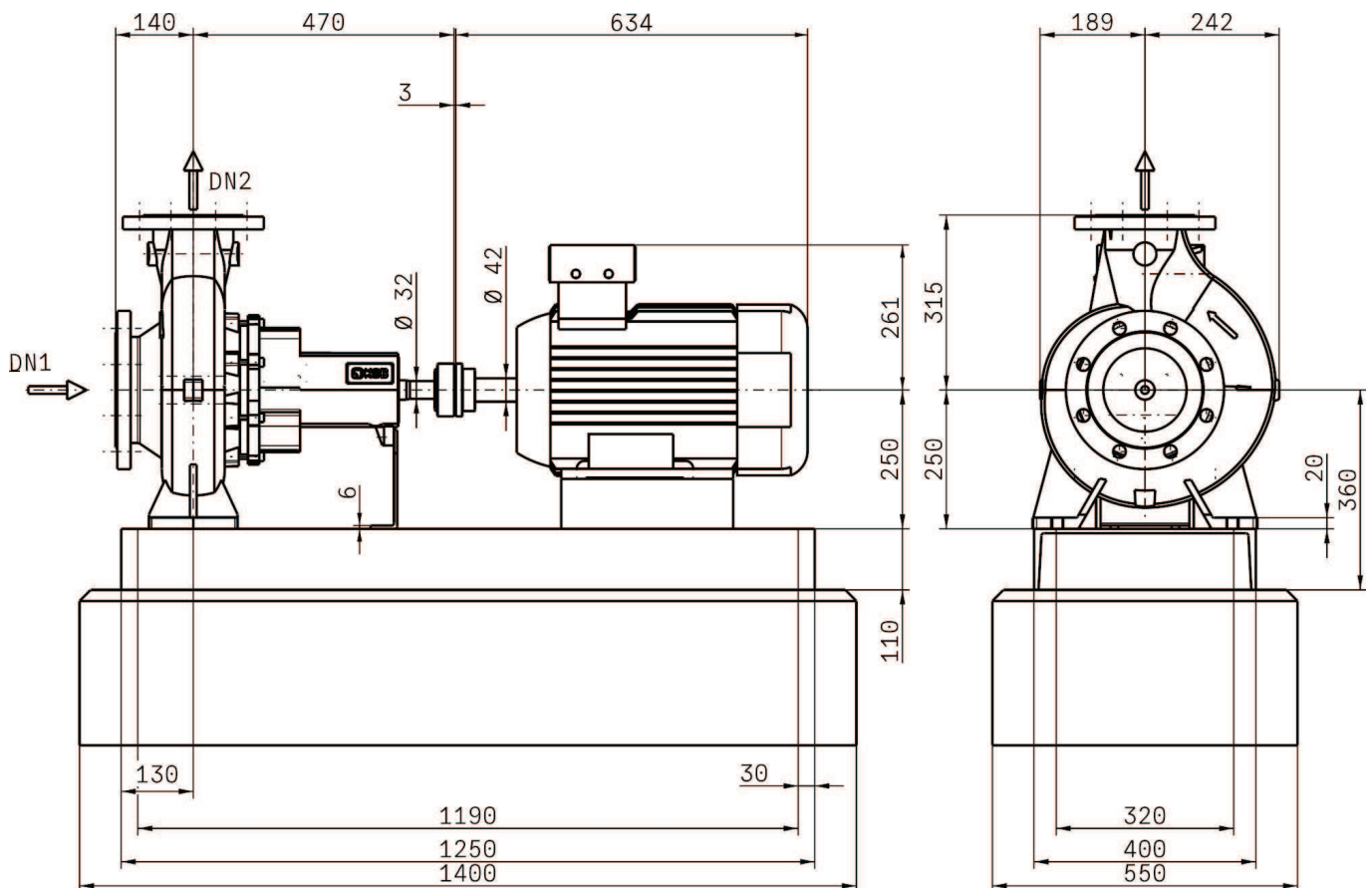


Curve Data

Pump speed	1.471 1/min	Efficiency Pump	87,5 %
Density Fluid handled	998 kg/m^3	Minimum efficiency index MEI	0,7
Kinematic viscosity Fluid handled	1 mm^2/s	Maximum power input at duty point	10,3 kW
Flow rate	252 m^3/h	NPSH required	2,5 m
Head	13,2 m	Hydraulic impeller diameter	224 mm
		Hydraulic calculation according to standard/EN ISO 9906 class	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

Motor manufacturer	KSB's choice
Motor size	160M
Rated power Motor	11 kW
Number of motor poles	4
Rated speed Motor	1.470 1/min
Terminal box position of motor (looking at the motor shaft)	360 °

Connections

Nominal diameter Suction nozzle	DN 150
Suction flange bolt hole pattern as per standard	EN1092-2
Nominal diameter Discharge nozzle	DN 125
Discharge flange bolt hole pattern as per standard	EN1092-2
Nominal pressure Suction nozzle	PN 16
Nominal pressure Discharge nozzle	PN 16

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Baseplate

Baseplate type	Folded plate/U-section
Material Installation part Pump	(ST)
Baseplate size	7A
Connection element type	Foundation bolts
Foundation	
Material Connecting element	3.6+A2A
Foundation	
Foundation bolt set	4xM16x250
Supply Fastening element	By customer (not in scope of supply)
Installation part	

Coupling

Coupling manufacturer	KTR
Coupling type	ROFLEX N
Nominal size Coupling	95

Net weight

Total weight Pump	111,5 kg
Total weight Installation parts	88,62 kg
Total weight Coupling	2,17 kg
Total weight Contact guard	0,8 kg
Total weight Drive	106 kg
Total weight Pump set	309,1 kg

Connect pipelines stress-free

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

Plan for additional connections see extra drawing

