Tender text

Project name
Project ID

Customer
Contact
E-mail
Phone

Company
Contact
E-mail
Phone

Pos.no	Description	Item no.
	Volute casing pump	
	Centrifugal pump: Etanorm PumpDrive 065-040-315/404 GG	05123636

Etanorm PumpDrive
Horizontal single-stage volute casing pump, ratings to EN 733, radially split volute casing with integrally cast pump feet, long-coupled design. The pump is designed with replaceable casing wear rings, closed radial impeller with multiply curved vanes, single mechanical seal or double mechanical seals to EN 12756, shaft equipped with replaceable shaft protecting sleeve in the shaft seal area. The back pull-out design allows the coupling, bearing brackets and impeller to be dismantled without the need to disconnect the pump casing from the piping.

PumpDrive 2 frequency inverter
Self-cooling frequency inverter is mounted directly on the motor. Controlled by integrated PI controller. Controlled variables are pressure, differential pressure, flow rate, temperature. Display and setting of all operating parameters via a control unit with graphical display. Setpoint adjustment or control via external standard signal or via the control unit. Protective function for drive and pump. Pump and drive parameters pre-set at the factory.

Design:

Mains voltage	: 3~ 380 V AC -10 % to 480 V AC +10 %
Mains frequency	: 50 - 60 Hz ± 2 %
Internal power supply unit	: 24 V ±10 %, max. 600 mA DC
Enclosure	: IP55 (to EN 60529)
Ambient temperature	: -10 °C to +50 °C
Relative humidity in operation	: 5 % to 85 %, non-condensing
Service interface	: optical
Analog input	: 2 x 0/2 - 10 V or 0/4 - 20 mA
Analog output	: 1 x 0 - 10 V or 4 - 20 mA
Digital input	: 1 x hardware enable input, 5 x parameterisable
Relay output	: 2 changeover contacts, parameterisable
Bus systems (optional)	: Modbus RTU, Profibus DP, LON, BACnet MS/TP, Profinet

PumpMeter
Integrated, intelligent pressure transmitter with on-site display of

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operating data such as suction pressure and discharge pressure, calculates the differential pressure and establishes the pump's operating point. The measured and calculated values are shown in alternation on a user-friendly display. PumpMeter is supplied completely assembled and parameterised individually for the pump it is used with.

Operating data
Fluid handled : Water
Flow rate :
Head :
Fluid temperature : 20,00 °C
Permissible fluid temperature (min./max.) : 0 bis +110
Maximum operating pressure : ≤ 16 bar
Ambient temperature (min./max.) : -10 to +50°C

Motor/electronics
MEI value : ≥ 0,4
Motor rating : 4 kW
Max. rated current : 9,6 A
Speed : 500 1/min … 1.800 1/min
Power supply : 3 x 380 V AC - 15 % to 480 V AC +10 %
Motor size : 112M
Energy efficiency class : IE5
Enclosure : IP55
Motor make : KSB-Standard

Materials
Pump casing (102) : Grey cast iron JL1040
Impeller (230) : Steel/tempered steel E335/C45
Pump shaft (210) : Grey cast iron JL1040
Casing cover (161) : Grey cast iron JL1040
Casing wear ring, suction side (502.01): DPAF seal plate, asbestos-free
Casing wear ring, discharge side (502.02): Grey cast iron GG / cast iron
Shaft seal type : Single mechanical seal, conical casing cover
Shaft seal material :10 = Q1Q1X4GG

Installation
Installation type : Baseplate for the entire pump set (pump

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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	+ drive)				
	Dimensions and connections Nominal size of discharge nozzle DN2 : DN 40 Nominal diameter of suction nozzle DN1 : DN 65 Nominal pressure, suction side : 16 Nominal pressure, discharge side : 16				
	Purchase order information Approx. net weight : 200,6 kg Make : KSB Type : Etanorm PumpDrive 065-040-315/404 GG Material price group : 55				
	Material number : 05123636 Frequency controller: PumpDrive2		1		

Data sheet: technical data

Project name
Project ID

Item-No.
Design **Volute casing pump**
Type / Coding **Etanorm PumpDrive 065-040-315/404 GG**

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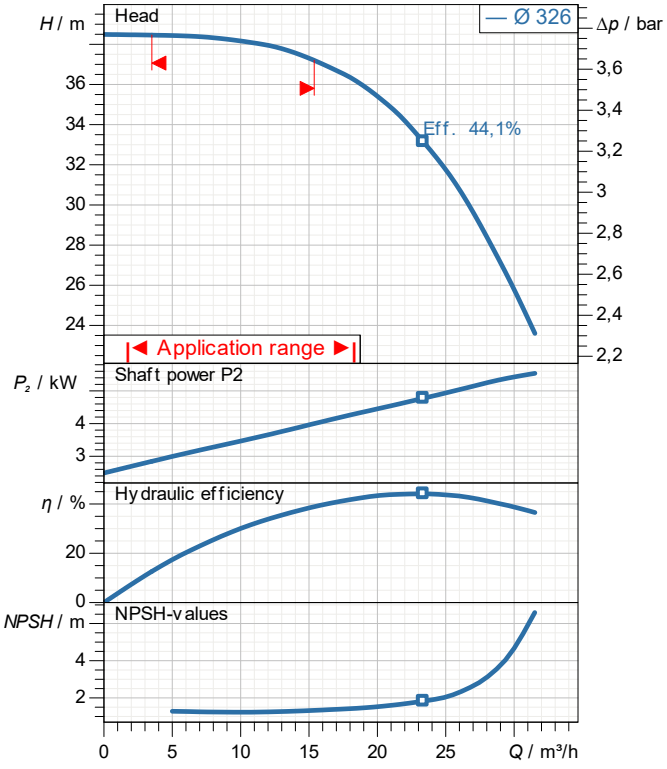


demand data

Flow	
Head	
Geodetic head	
Media	Water
Liquid temperature	20 °C
Concentration	100 %

Pump data

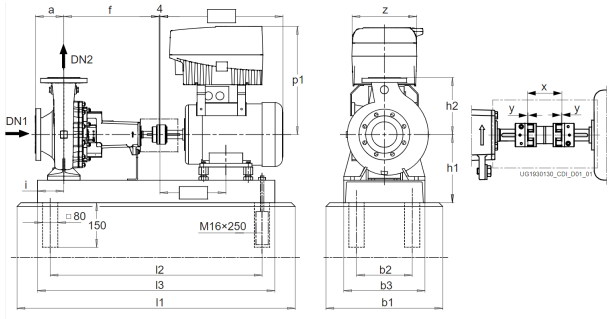
Make	KSB
Type	Etanorm PumpDrive 065-040-315/404 GG
Design	Volute casing pump
Specific design	Single head pump
Max. fluid temperature	140 °C

Hydraulic data (Duty point)

Flow	
Head	
Efficiency	
Minimum Efficiency Index	≥ 0,4

Material / sealing element

Volute casing	Grey cast iron JL1040
Discharge cover	Grey cast iron JL1040
Shaft	Steel/tempered steel E335/C45
Impeller	Grey cast iron JL1040
Bearing bracket lantern	DPAF seal plate, asbestos-free
Casing wear ring	Grey cast iron GG / cast iron



Motor data

Power uptake	4,39 kW
Rated power	4 kW
Speed	1.500 1/min
Rated voltage	400 V
Rated current	9,6 A
Degree of protection	IP55

Product information

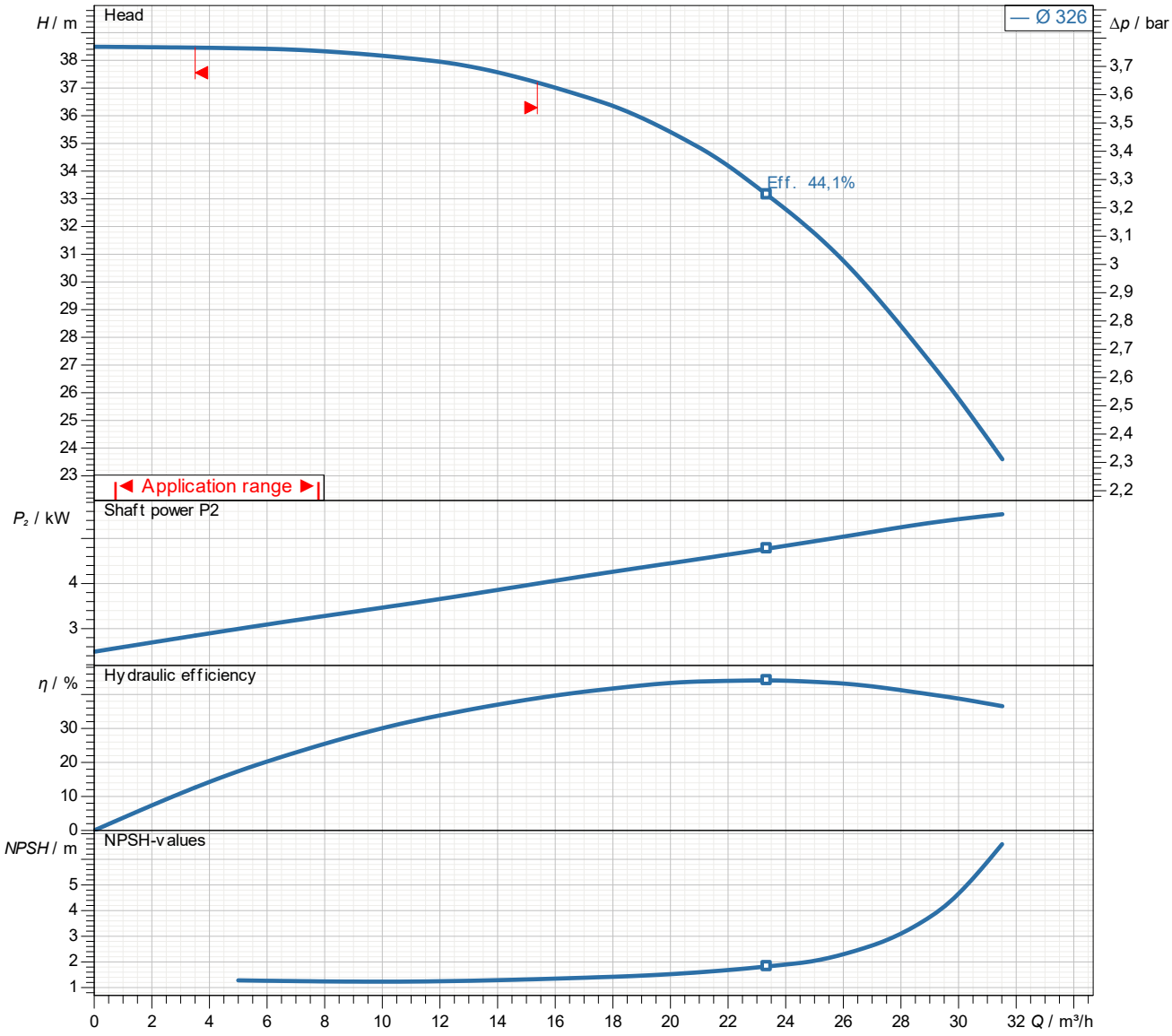
Ident. No./ type key	05123636
Weight loaded	200,6 kg
Gross price	15.087,41 EUR
PL 2025-01-20	
Price group	55

Data sheet: performance curve

Project name		**Item-No.**	
Project ID		**Design**	**Volute casing pump**
		Type / Coding	**Etanorm PumpDrive 065-040-315/404 GG**
Customer		**Company**	
Contact		Contact	
E-mail		E-mail	
Phone		Phone	

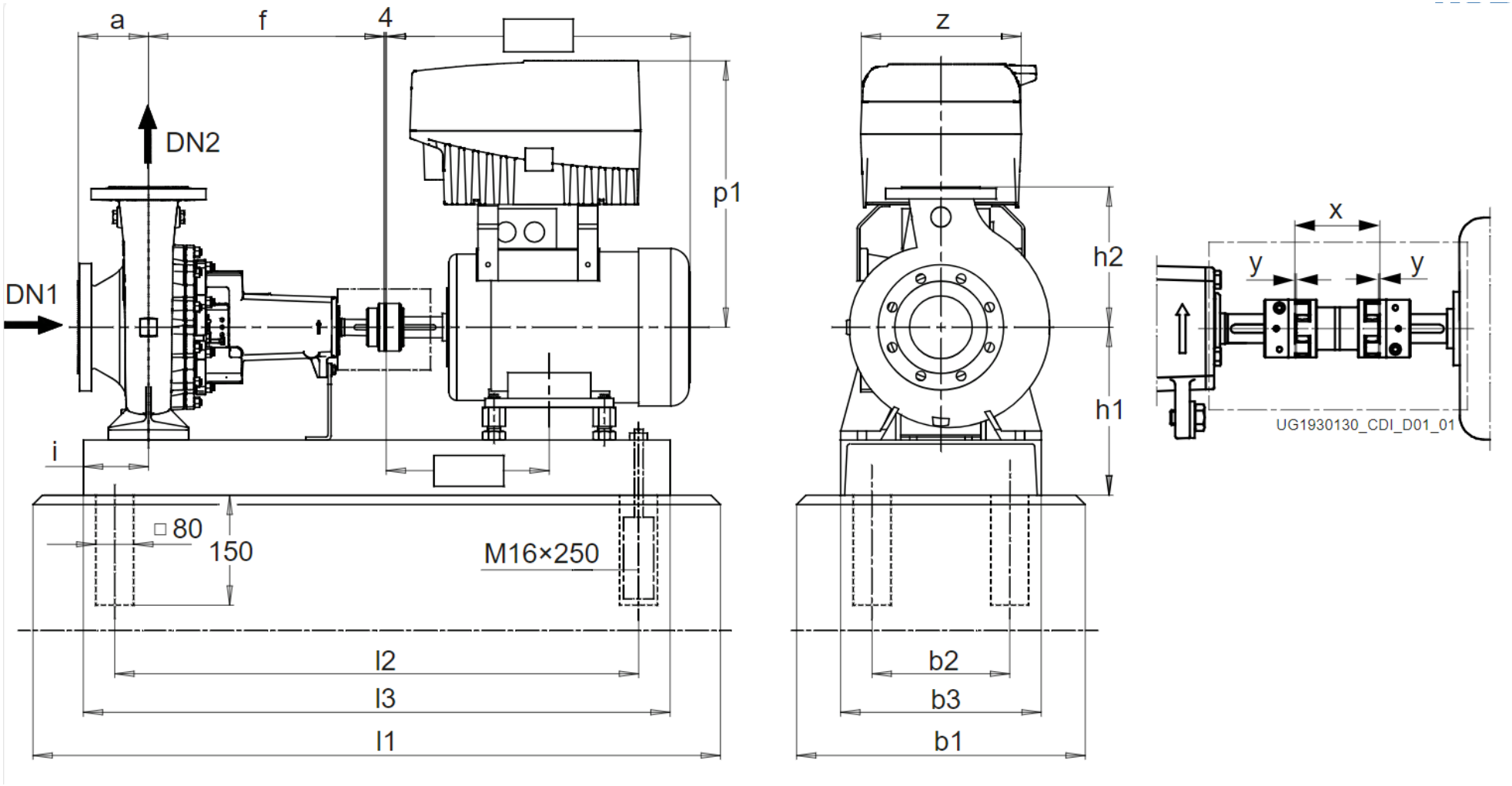
Performance curve

Etanorm PumpDrive 065-040-315/404 GG



Density	998,3 kg/m³
Viscosity	1,005 mm²/s

Dimensions



Name	Wert	Name	Wert
a	125 mm	l2	940 mm
b1	500 mm	l3	1.000 mm
b2	280 mm	x	100 mm
b3	350 mm		
DN1	65 mm		
DN2	40 mm		
f	470 mm		
h1	325 mm		
h2	250 mm		
i	112 mm		
l1	1.150 mm		