

**Tender text**

**Project name**  
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2025-01-20

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Pos.no	Description	Item no.																								
	<b>Volute casing pump</b>																									
	Centrifugal pump: Etanorm PumpDrive 125-100-200/1104 GG	05123709																								
	<b>Etanorm PumpDrive</b>																									
	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.																									
	<p>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.</p>																									
	<p>Design:</p> <table border="0"> <tr> <td>Mains voltage</td> <td>: 3~ 380 V AC -10 % to 480 V AC +10 %</td> </tr> <tr> <td>Mains frequency</td> <td>: 50 - 60 Hz ± 2 %</td> </tr> <tr> <td>Internal power supply unit</td> <td>: 24 V ± 10 %, max. 600 mA DC</td> </tr> <tr> <td>Enclosure</td> <td>: IP55 (to EN 60529)</td> </tr> <tr> <td>Ambient temperature</td> <td>: -10 °C to +50 °C</td> </tr> <tr> <td>Relative humidity in operation</td> <td>: 5 % to 85 %, non-condensing</td> </tr> <tr> <td>Service interface</td> <td>: optical</td> </tr> <tr> <td>Analog input</td> <td>: 2 x 0/2 - 10 V or 0/4 - 20 mA</td> </tr> <tr> <td>Analog output</td> <td>: 1 x 0 - 10 V or 4 - 20 mA</td> </tr> <tr> <td>Digital input</td> <td>: 1 x hardware enable input, 5 x parameterisable</td> </tr> <tr> <td>Relay output</td> <td>: 2 changeover contacts, parameterisable</td> </tr> <tr> <td>Bus systems (optional)</td> <td>: Modbus RTU, Profibus DP, LON, BACnet MS/TP, Profinet</td> </tr> </table>		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
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Bus systems (optional)	: Modbus RTU, Profibus DP, LON, BACnet MS/TP, Profinet																									
	<p>PumpMeter            Integrated, intelligent pressure transmitter with on-site display of</p>																									

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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	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.				
	<b>Operating data</b>				
	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				
	<b>Motor/electronics</b>				
	MEI value : ≥ 0,4				
	Motor rating : 11 kW				
	Max. rated current : 24,2 A				
	Speed : 500 1/min ... 1.800 1/min				
	Power supply : 3 x 380 V AC - 15 % to 480 V AC +10 %				
	Motor size : 160M				
	Energy efficiency class : IE5				
	Enclosure : IP55				
	Motor make : KSB-Standard				
	<b>Materials</b>				
	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				
	<b>Installation</b>				
	Installation type : Baseplate for the entire pump set (pump				



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Pos.no	Description	Item no.	Qty.	UP / EUR	TP / EUR
	+ drive)				
	<b>Dimensions and connections</b>				
	Nominal size of discharge nozzle DN2	: DN 100			
	Nominal diameter of suction nozzle DN1	: DN 125			
	Nominal pressure, suction side	: 16			
	Nominal pressure, discharge side	: 16			
	<b>Purchase order information</b>				
	Approx. net weight	: 271,6 kg			
	Make	: KSB			
	Type	: Etanorm PumpDrive 125-100-200/1104			
	GG				
	Material price group	: 55			
	<b>Material number</b>	: 05123709			
	Frequency controller: PumpDrive2		1		

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**Data sheet: technical data**

**Project name**  
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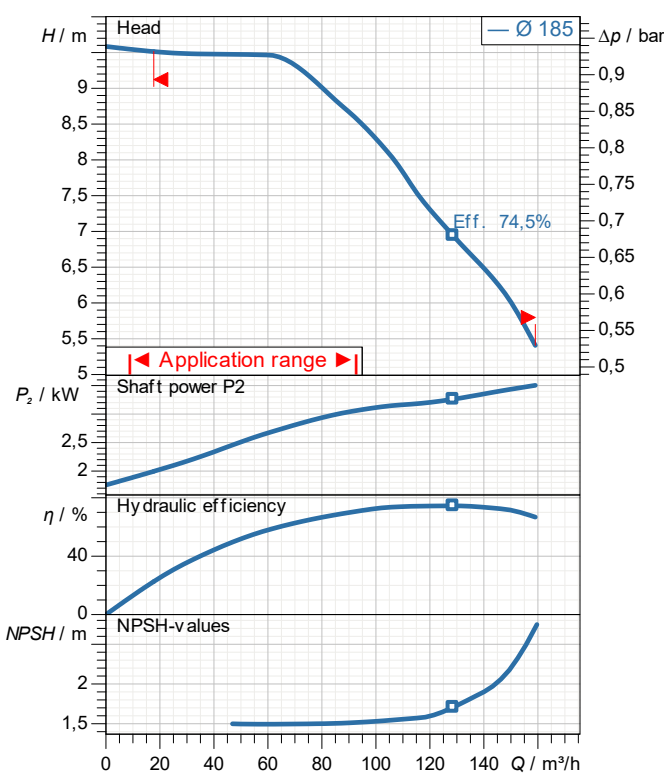
**Item-No.**  
**Design**                    **Volute casing pump**  
**Type / Coding**           **Etanorm PumpDrive 125-100-200/1104 GG**

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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 125-100-200/1104 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                 11,8 kW  
Rated power                  11 kW  
Speed                            1.500 1/min  
Rated voltage                 400 V  
Rated current                 24,2 A  
Degree of protection        IP55

**Product information**

Ident. No./ type key         05123709  
Weight loaded                271,6 kg  
Gross price                    19.672,05 EUR  
PL 2025-01-20  
Price group                    55



**Data sheet: performance curve**

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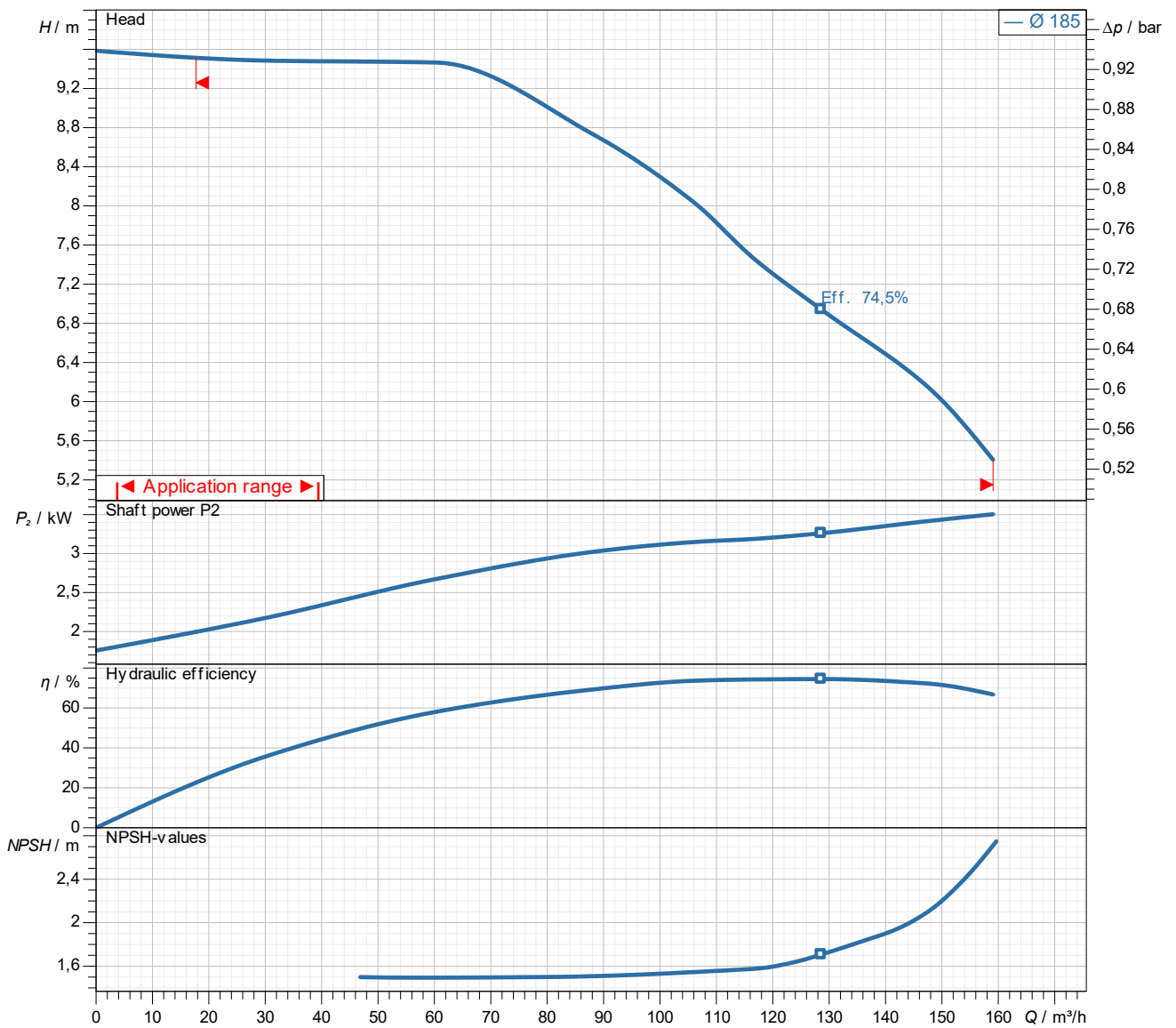
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**Performance curve**

**Etanorm PumpDrive 125-100-200/1104 GG**



Density        998,3 kg/m<sup>3</sup>  
Viscosity     1,005 mm<sup>2</sup>/s

# Dimensions



Name	Wert	Name	Wert
a	125 mm	l2	1.190 mm
b1	550 mm	l3	1.250 mm
b2	320 mm	p1	444 mm
b3	400 mm	x	140 mm
DN1	125 mm	z	280 mm
DN2	100 mm		
f	470 mm		
h1	310 mm		
h2	280 mm		
i	130 mm		
l1	1.400 mm		