

Tender text

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Pos.no	Description	Item no.
	Volute casing pump	
	Centrifugal pump: Etanorm PumpDrive 200-150-200/1504 GG	05123742
	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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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.				
	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	: 15 kW			
	Max. rated current	: 33 A			
	Speed	: 500 1/min ... 2.030 1/min			
	Power supply	: 3 x 380 V AC - 15 % to 480 V AC +10 %			
	Motor size	: 160L			
	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 150			
	Nominal diameter of suction nozzle DN1	: DN 200			
	Nominal pressure, suction side	: 16			
	Nominal pressure, discharge side	: 16			
	Purchase order information				
	Approx. net weight	: 445,2 kg			
	Make	: KSB			
	Type	: Etanorm PumpDrive 200-150-200/1504			
	GG				
	Material price group	: 55			
	Material number	: 05123742			
	Frequency controller: PumpDrive2		1		

Data sheet: performance curve

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Design

Type / Coding

Volute casing pump

Etanorm PumpDrive 200-150-200/1504 GG

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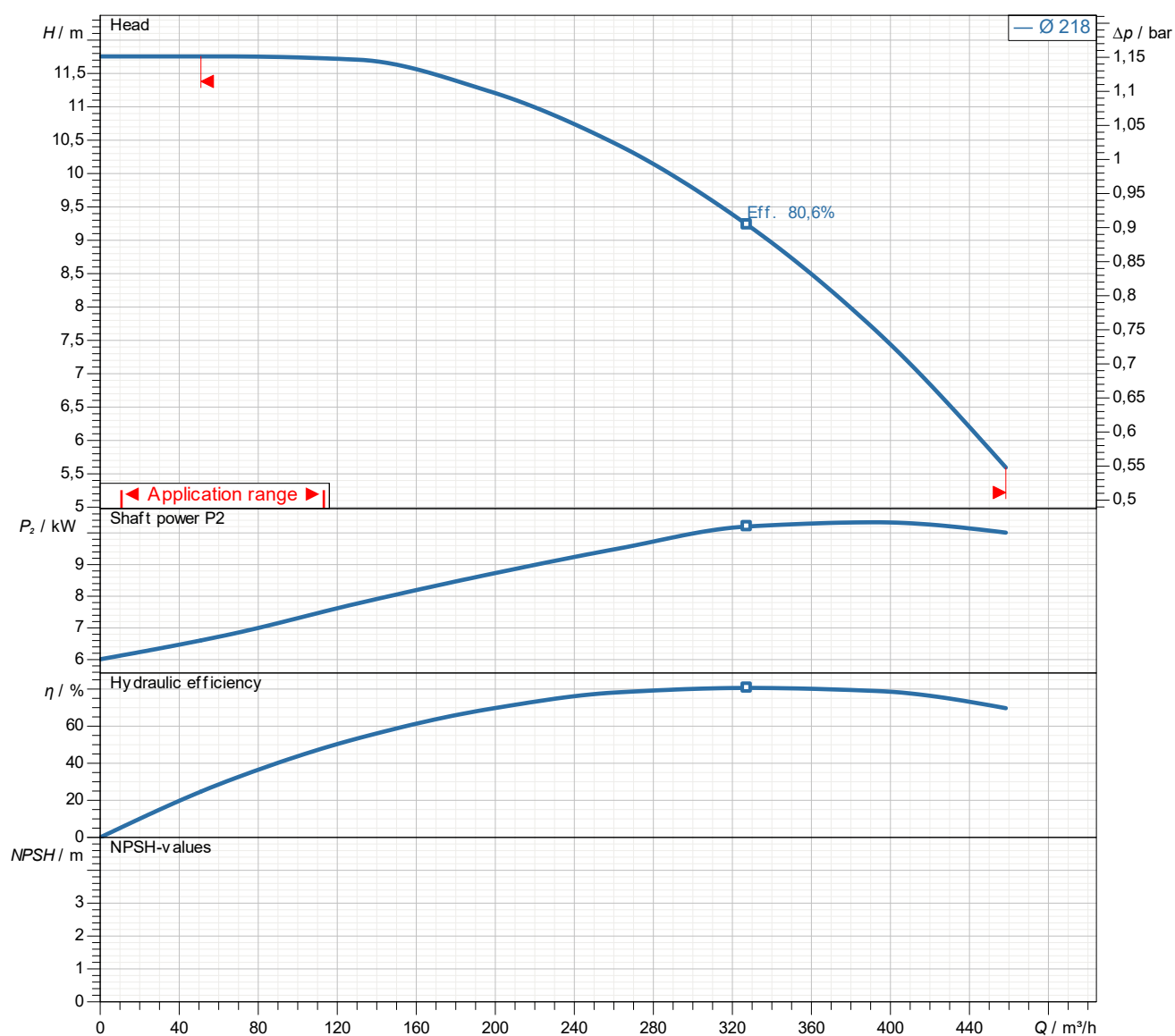
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Performance curve

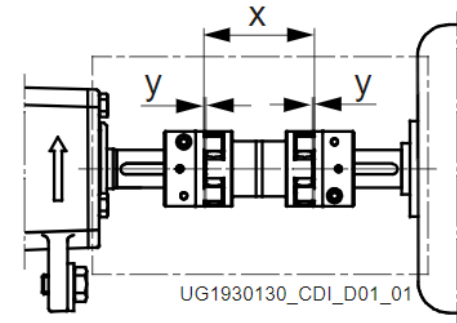
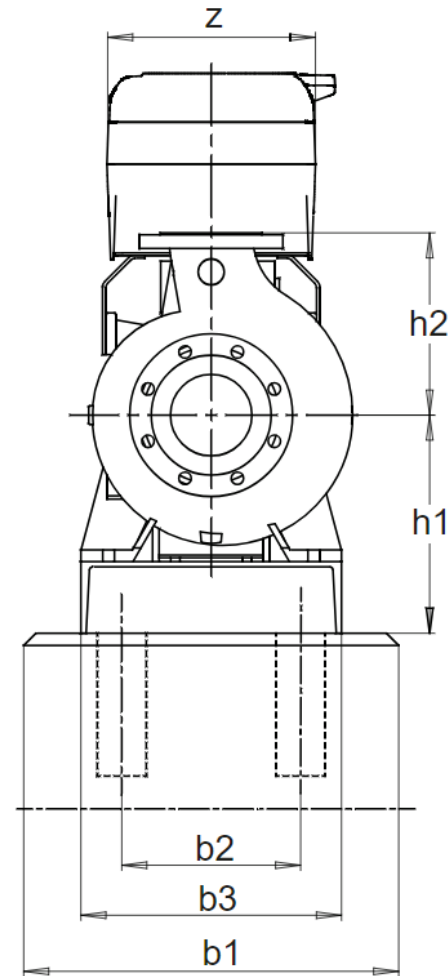
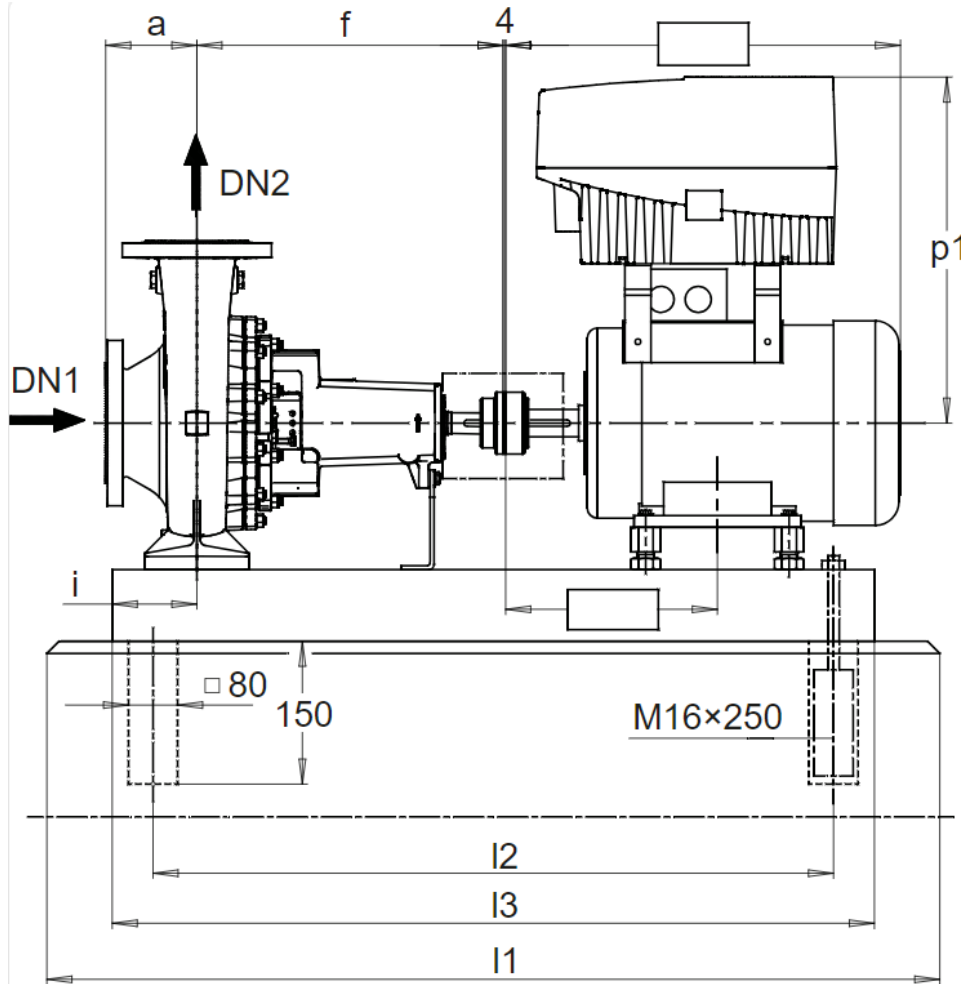
Etanorm PumpDrive 200-150-200/1504 GG



Density 998,3 kg/m³

Viscosity 1,005 mm²/s

Dimensions



Name	Wert	Name	Wert
a	160 mm	l2	1.060 mm
b1	880 mm	l3	1.600 mm
b2	670 mm	p1	525 mm
b3	720 mm	x	140 mm
DN1	200 mm	z	350 mm
DN2	150 mm		
f	470 mm		
h1	420 mm		
h2	400 mm		
i	112 mm		
l1	1.750 mm		