

## Tender text

Project name

Project ID

Customer

Contact

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Company

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2025-01-20

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| Pos.no | Description                          | Item no. |
|--------|--------------------------------------|----------|
|        | <b>Close-coupled pumps</b>           |          |
|        | Etabloc PumpDrive 100-080-160/224 CC | 05132890 |

### Etabloc PumpDrive

Horizontal single-stage volute casing pump in close-coupled design, with ratings to EN 733. Axial suction nozzle, discharge nozzle pointing radially upwards. Shaft fitted with a replaceable shaft sleeve in the shaft seal area. Volute casing and casing cover with replaceable casing wear rings. Volute casing with integrally cast pump feet for variants B, C and S. Impeller matched to the operating point for saving energy.

### 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 %<br>to 480 V AC +10 % |
| Mains frequency                | : 50 - 60 Hz ± 2 %                       |
| Internal power supply unit     | : 24 V ± 10 %, max.<br>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              |



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|--------|--------------------------|-----------------------------------------------------------|------|----------|----------|
|        | Digital input            | : 1 x hardware enable input,<br>5 x parameterisable       |      |          |          |
|        | Relay output             | : 2 changeover contacts,<br>parameterisable               |      |          |          |
|        | Bus systems (optional)   | : Modbus RTU, Profibus DP,<br>LON, BACnet MS/TP, Profinet |      |          |          |
|        | <b>Operating data</b>    |                                                           |      |          |          |
|        | Water                    | Fluid handled                                             | :    |          |          |
|        |                          | Flow rate                                                 | :    |          |          |
|        |                          | Head                                                      | :    |          |          |
|        | 20,00 °C                 | Fluid temperature                                         | :    |          |          |
|        | temperature              | Permissible fluid                                         |      |          |          |
|        | 0 bis +110               | (min./max.)                                               | :    |          |          |
|        | pressure                 | Maximum operating                                         |      |          |          |
|        | : ≤ 16 bar               | Ambient temperature: -                                    |      |          |          |
|        | 10 to +50°C              | (min./max.)                                               |      |          |          |
|        | <b>Motor/electronics</b> |                                                           |      |          |          |
|        | ≥ 0,4                    | MEI value                                                 | :    |          |          |
|        | 2,2 kW                   | Motor rating                                              | :    |          |          |
|        |                          | Max. rated current                                        | :    |          |          |



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|--------|-----------------------------------------------------------|-------------------------|------|----------|----------|
|        | 5,7 A                                                     |                         |      |          |          |
|        | 500 1/min ... 1.800 1/min                                 | Speed                   | :    |          |          |
|        | 3 x 380 V AC - 15 % to 480 V AC +10 %                     | Power supply            | :    |          |          |
|        | 100L                                                      | Motor size              | :    |          |          |
|        | : IE5                                                     | Energy efficiency class |      |          |          |
|        | IP55                                                      | Enclosure               | :    |          |          |
|        | KSB-Standard                                              | Motor make              | :    |          |          |
|        |                                                           | <b>Materials</b>        |      |          |          |
|        | CrNiMo steel 1.4408                                       | Pump casing (102)       | :    |          |          |
|        | CrNiMo steel 1.4408                                       | Impeller (230)          | :    |          |          |
|        | A4/ AISI 316                                              | Pump shaft (210)        | :    |          |          |
|        | CrNiMo steel 1.4571                                       | Casing cover (161)      | :    |          |          |
|        | suction side (502.01): A4/ AISI 316                       | Casing wear ring,       |      |          |          |
|        | discharge side (502.02): A4-70/ A193 Gr. B8M CL2          | Casing wear ring,       |      |          |          |
|        | Single mechanical seal with vented chamber (A-type cover) | Shaft seal type         | :    |          |          |

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|--------|--------------------------------------|--------------------------|------|----------|----------|
|        | :10 = Q1Q1X4GG                       | Shaft seal material      |      |          |          |
|        | <b>connections</b>                   | <b>Dimensions and</b>    |      |          |          |
|        | discharge nozzle DN2 : DN 80         | Nominal size of          |      |          |          |
|        | suction nozzle DN1 : DN 100          | Nominal diameter of      |      |          |          |
|        | suction side : 16                    | Nominal pressure,        |      |          |          |
|        | discharge side : 16                  | Nominal pressure,        |      |          |          |
|        | <b>information</b>                   | <b>Purchase order</b>    |      |          |          |
|        | 79,1 kg                              | Approx. net weight :     |      |          |          |
|        | KSB                                  | Make :                   |      |          |          |
|        | Etabloc PumpDrive 100-080-160/224 CC | Type :                   |      |          |          |
|        | V3                                   | Material price group :   |      |          |          |
|        | 05132890                             | <b>Material number</b> : |      |          |          |



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| Pos.no | Description                      | Item no. | Qty. | UP / EUR | TP / EUR |
|--------|----------------------------------|----------|------|----------|----------|
|        | Frequency controller: PumpDrive2 |          | 1    |          |          |

## Data sheet: technical data

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Item-No.

Design

Type / Coding

Close-coupled pumps

Etabloc PumpDrive 100-080-160/224 CC

Company

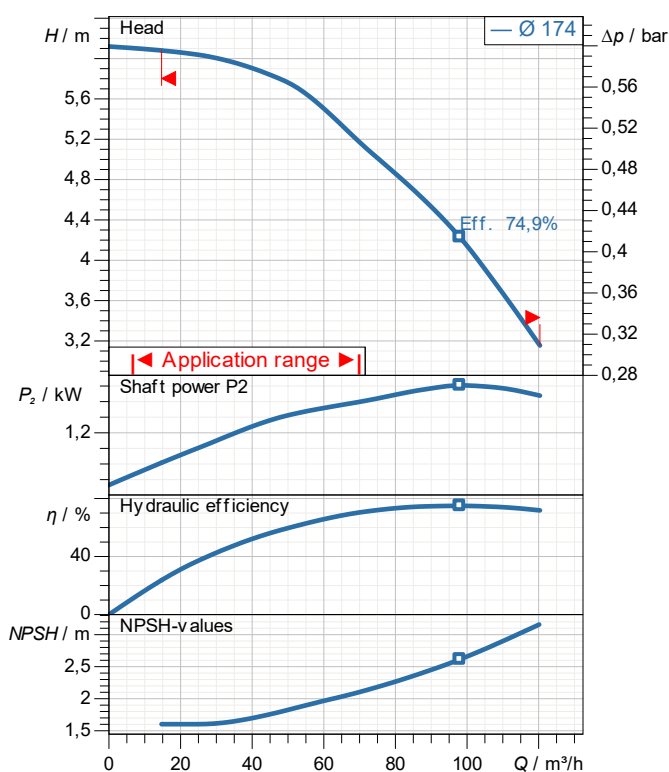
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### demand data

Flow

Head

Geodetic head

Media

Liquid temperature

Concentration

Water

20 °C

100 %

### Pump data

Make

Type

Design

Specific design

Max. fluid temperature

KSB

Etabloc PumpDrive 100-080-160/224 CC

Close-coupled pumps

Single head pump

### Hydraulic data (Duty point)

Flow

Head

Efficiency

Minimum Efficiency Index  $\geq 0,4$

### Material / sealing element

Volute casing

Shaft

Impeller

Impeller nut

Screw plug

Stud

CrNiMo steel 1.4408

CrNiMo steel 1.4571

CrNiMo steel 1.4408

A4/ AISI 316

A4/ AISI 316

A4-70/ A193 Gr. B8M CL2

### Motor data

Power uptake

Rated power

Speed

Rated voltage

Rated current

Degree of protection

2,46 kW

2,2 kW

1.500 1/min

400 V

5,7 A

IP55

### Product information

Ident. No./ type key

Weight loaded

Gross price

PL 2025-01-20

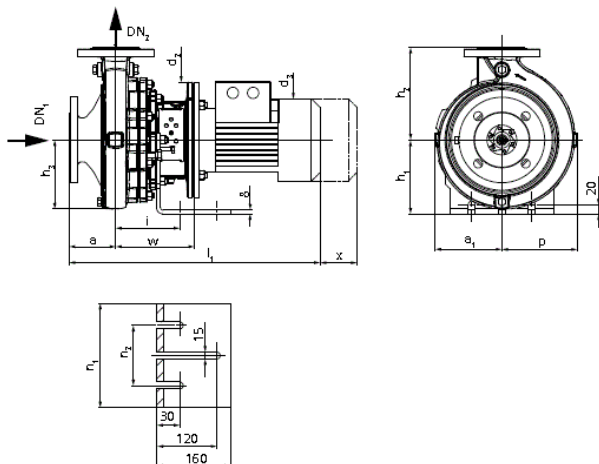
Price group

05132890

79,1 kg

23.391,22 EUR

V3



## Data sheet: performance curve

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Close-coupled pumps

Etabloc PumpDrive 100-080-160/224 CC

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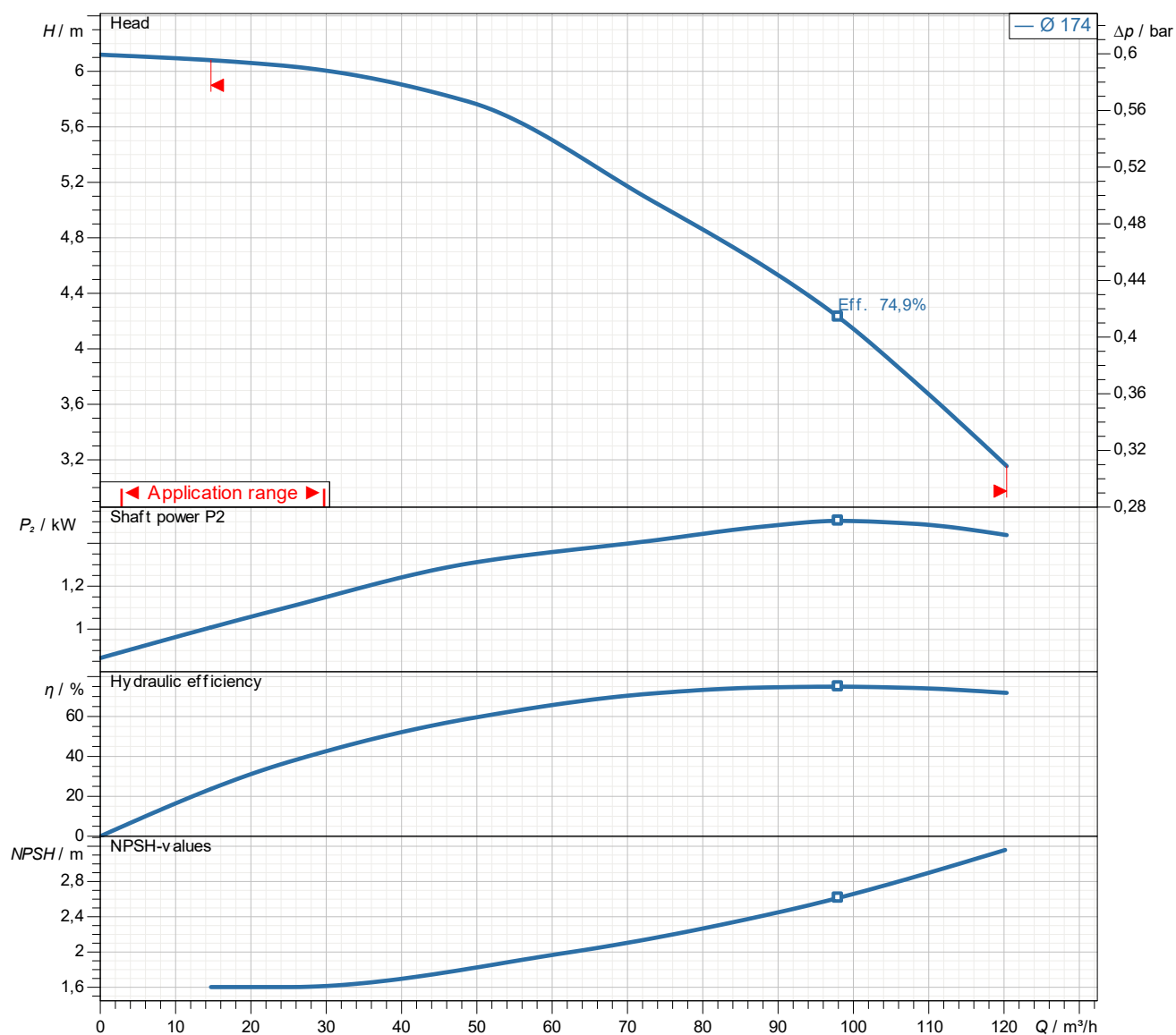
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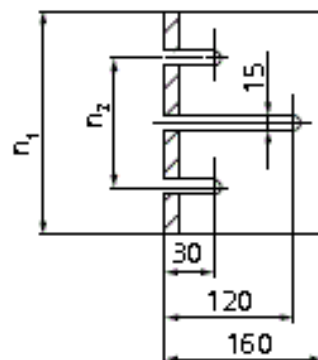
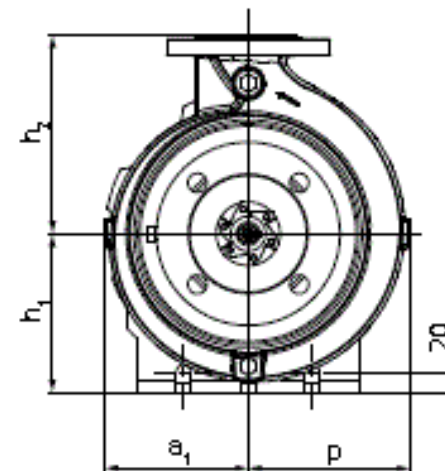
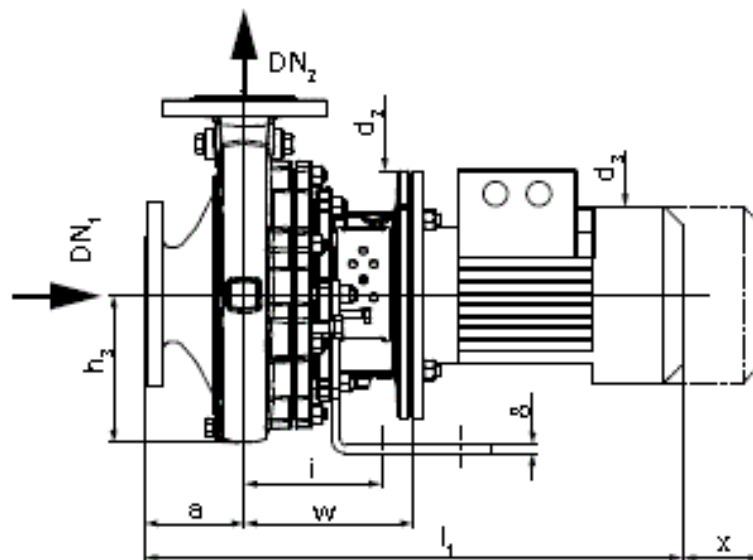
### Performance curve

#### Etabloc PumpDrive 100-080-160/224 CC



Density 998,3 kg/m<sup>3</sup>

Viscosity 1,005 mm<sup>2</sup>/s



| Name | Wert   | Name | Wert   |
|------|--------|------|--------|
| a    | 125 mm | p    | 174 mm |
| a1   | 138 mm | x    | 140 mm |
| DN1  | 100 mm |      |        |
| DN2  | 80 mm  |      |        |
| h1   | 160 mm |      |        |
| h2   | 225 mm |      |        |
| h3   | 153 mm |      |        |
| m1   | 125 mm |      |        |
| m2   | 95 mm  |      |        |
| n1   | 225 mm |      |        |
| n2   | 130 mm |      |        |