



## Tender text

Project name

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**Customer**

Contact

E-mail

Phone

**Company**

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| Pos.no | Description                           | Item no. |
|--------|---------------------------------------|----------|
|        | <b>Close-coupled pumps</b>            |          |
|        | Etabloc PumpDrive 065-050-200/2204 GG | 05128693 |

### 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                                         |      |          |          |
|        |                          | (min./max.)                                               | :    |          |          |
|        | 0 bis +110               |                                                           |      |          |          |
|        | pressure                 | Maximum operating                                         |      |          |          |
|        |                          | : ≤ 16 bar                                                |      |          |          |
|        | 10 to +50°C              | Ambient temperature: -                                    |      |          |          |
|        |                          | (min./max.)                                               |      |          |          |
|        | <b>Motor/electronics</b> |                                                           |      |          |          |
|        | ≥ 0,4                    | MEI value                                                 | :    |          |          |
|        | 22 kW                    | Motor rating                                              | :    |          |          |
|        |                          | Max. rated current                                        | :    |          |          |



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|--------|-----------------------------------------------------------|----------------------------------|------|----------|----------|
|        | 48,5 A                                                    |                                  |      |          |          |
|        | 580 1/min ... 3.600 1/min                                 | Speed                            | :    |          |          |
|        | 3 x 380 V AC - 15 % to 480 V AC +10 %                     | Power supply                     | :    |          |          |
|        | 180M                                                      | Motor size                       | :    |          |          |
|        |                                                           | Energy efficiency class          |      |          |          |
|        |                                                           | : IE4 = Super Premium Efficiency |      |          |          |
|        | IP55                                                      | Enclosure                        | :    |          |          |
|        | KSB-Standard                                              | Motor make                       | :    |          |          |
|        |                                                           | <b>Materials</b>                 |      |          |          |
|        | Grey cast iron JL1040                                     | Pump casing (102)                | :    |          |          |
|        | Steel/tempered steel E335/C45                             | Impeller (230)                   | :    |          |          |
|        | Grey cast iron JL1040                                     | Pump shaft (210)                 | :    |          |          |
|        | Grey cast iron JL1040                                     | Casing cover (161)               | :    |          |          |
|        |                                                           | 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 with vented chamber (A-type cover) |                                  |      |          |          |



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|--------|---------------------------------------|--------------------------|------|----------|----------|
|        |                                       |                          |      |          |          |
|        | :10 = Q1Q1X4GG                        | Shaft seal material      |      |          |          |
|        |                                       |                          |      |          |          |
|        |                                       | <b>Dimensions and</b>    |      |          |          |
|        | <b>connections</b>                    |                          |      |          |          |
|        | discharge nozzle DN2 : DN 50          | Nominal size of          |      |          |          |
|        | suction nozzle DN1 : DN 65            | Nominal diameter of      |      |          |          |
|        | suction side : 16                     | Nominal pressure,        |      |          |          |
|        | discharge side : 16                   | Nominal pressure,        |      |          |          |
|        |                                       |                          |      |          |          |
|        | <b>information</b>                    | <b>Purchase order</b>    |      |          |          |
|        | 249,2 kg                              | Approx. net weight :     |      |          |          |
|        | KSB                                   | Make :                   |      |          |          |
|        | Etabloc PumpDrive 065-050-200/2204 GG | Type :                   |      |          |          |
|        | V3                                    | Material price group :   |      |          |          |
|        |                                       |                          |      |          |          |
|        | 05128693                              | <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

**Project name**

**Project ID**

**Item-No.**

**Design**

**Type / Coding**

**Close-coupled pumps**

**Etabloc PumpDrive 065-050-200/2204 GG**

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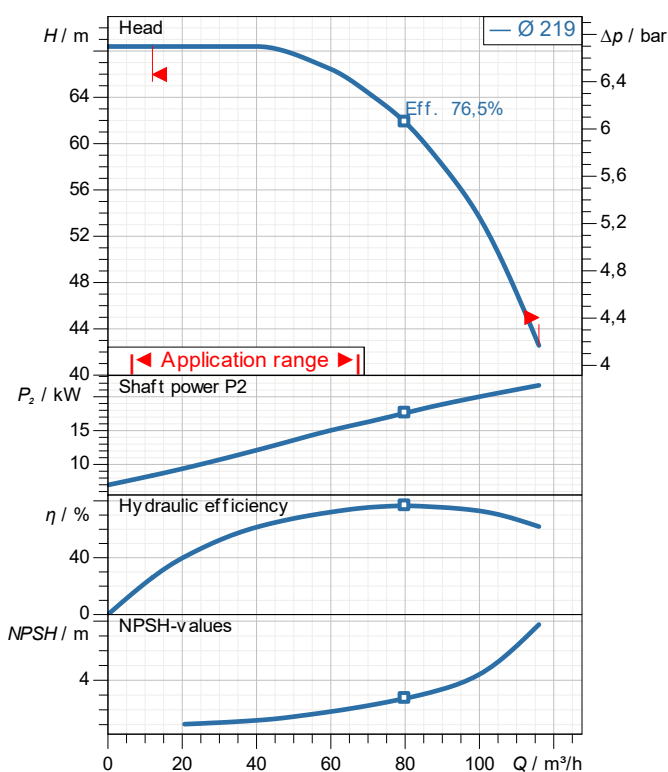
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### demand data

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 065-050-200/2204 GG

Close-coupled pumps

Single head pump

### Hydraulic data (Duty point)

Flow

Head

Efficiency

Minimum Efficiency Index  $\geq 0,4$

### Material / sealing element

Volute casing

Discharge cover

Shaft

Impeller

Bearing bracket lantern

Casing wear ring

Grey cast iron JL1040

Grey cast iron JL1040

Steel/tempered steel E335/C45

Grey cast iron JL1040

DPAF seal plate, asbestos-free

Grey cast iron GG / cast iron

### Motor data

Power uptake

Rated power

Speed

Rated voltage

Rated current

Degree of protection

23,3 kW

22 kW

1.500 1/min

400 V

48,5 A

IP55

### Product information

Ident. No./ type key

Weight loaded

Gross price

PL 2025-01-20

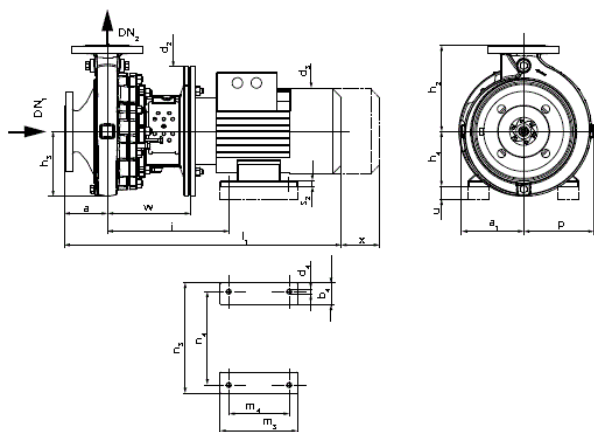
Price group

05128693

249,2 kg

26.094,56 EUR

V3



## Data sheet: performance curve

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Item-No.

Design

Type / Coding

Close-coupled pumps

Etabloc PumpDrive 065-050-200/2204 GG

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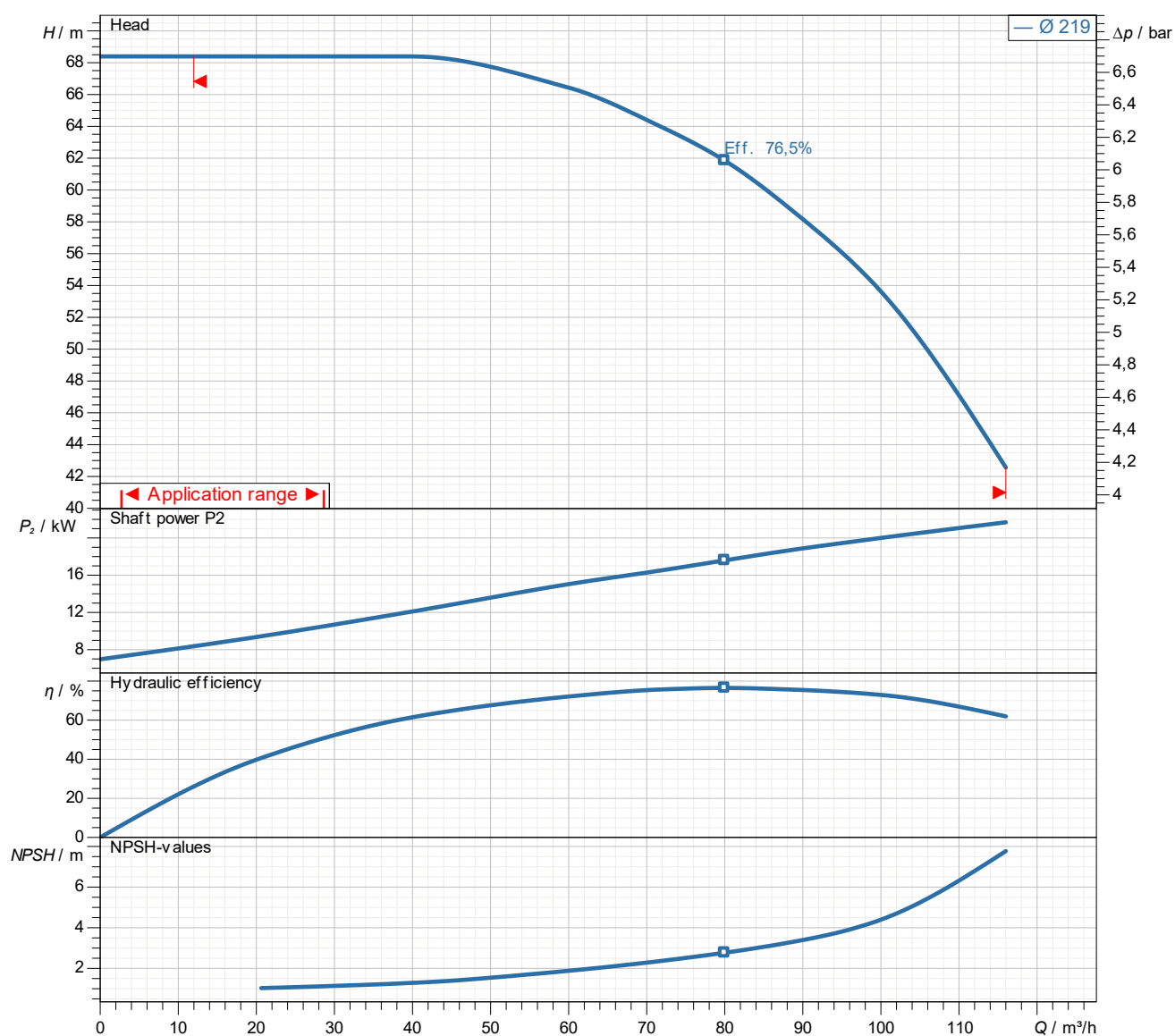
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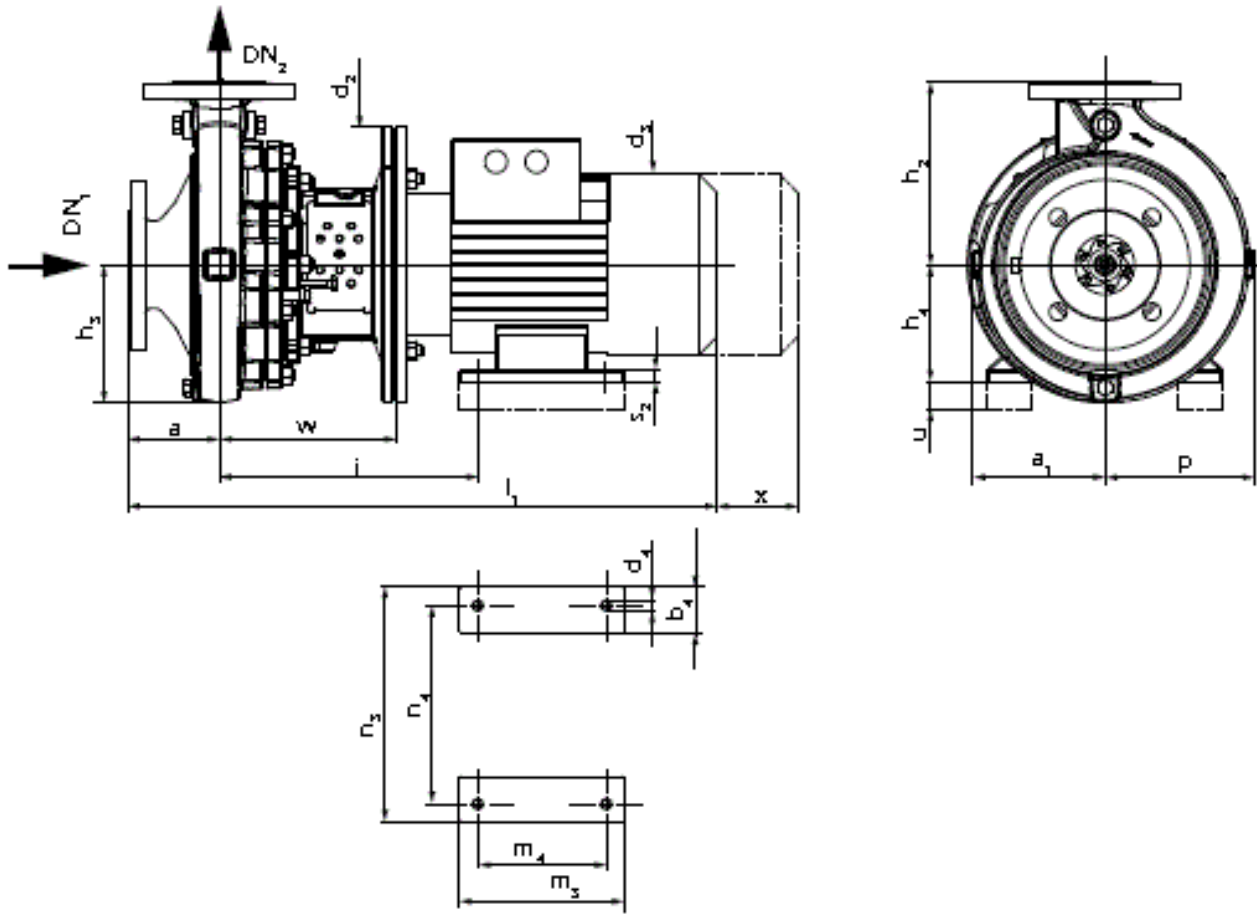
### Performance curve

#### Etabloc PumpDrive 065-050-200/2204 GG



Density 998,3 kg/m³

Viscosity 1,005 mm²/s



| Name | Wert   | Name | Wert |
|------|--------|------|------|
| a    | 100 mm |      |      |
| a1   | 144 mm |      |      |
| DN1  | 65 mm  |      |      |
| DN2  | 50 mm  |      |      |
| h1   | 160 mm |      |      |
| h2   | 200 mm |      |      |
| h3   | 150 mm |      |      |
| n1   | 225 mm |      |      |
| n2   | 130 mm |      |      |
| p    | 163 mm |      |      |
| x    | 100 mm |      |      |