





**Etabloc 050-032-200 GG**  
 ETB 050-032-200-GGSBV11 WSECX2HHB

**Nozzle connections pump**

|  |                    |  |          |
|--|--------------------|--|----------|
| Nominal diameter Suction nozzle                  | DN 50              | Nominal diameter Discharge nozzle                  | DN 32    |
| Nominal pressure Suction nozzle                  | PN 16              | Nominal pressure Discharge nozzle                  | PN 16    |
| Suction nozzle position                          | Axial              | Discharge nozzle position                          | 0 deg    |
| Suction nozzle design acc.to                     | EN1092-2           | Discharge nozzle design acc.to                     | EN1092-2 |
| Suction flange bolt hole pattern as per standard | EN1092-2           | Discharge flange bolt hole pattern as per standard | EN1092-2 |
| Flange facing type Inlet                         | Raised face (B,RF) |  |          |
| Flange facing type Outlet                        | Raised face (B,RF) |  |          |

**Auxiliary connections pump**

|                                    |                              |                      |                              |
|------------------------------------|------------------------------|----------------------|------------------------------|
| 1M Pressure gauge Discharge nozzle | Without                      | 5B Venting and drain | G 1/4<br>Drilled and plugged |
| 1M Pressure gauge Suction nozzle   | Without                      |                      |                              |
| 6B Fluid Drain                     | G 1/4<br>Drilled and plugged |                      |                              |
| 6D Fluid Filling and venting       | G 1/4<br>Drilled and plugged |                      |                              |

**Shaft sealing**

|  |   |                                 |              |
|--|---|---------------------------------|--------------|
| Shaft seal type                              | Single mechanical seal; seal chamber can be vented (A-type casing cover) - AV | Shaft seal code                 | Code 11      |
|  |   | Shaft seal manufacturer inboard | KSB's choice |
| Operating mode of mechanical seal (function) | API plan 03   | Mechanical seal type inboard    | KSB's choice |
| Determined pressure Seal chamber             | 0.49 bar.r  | Material Shaft seal inboard     | BQEGG DW001  |

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**Materials**

|   |                                |  |      |
|---|--------------------------------|--|------|
| Material Volute casing (102)                      | EN-GJL-250/A48 CL 35B          | Material Bolts/Screws Volute casing (902.01) | 8.8  |
| Material Casing cover (161)                       | EN-GJL-250/A48 CL 35B          | Material Nut Impeller fastening (920.95)     | (ST) |
| Material Shaft                                    | C45+N                          |  |      |
| Material Impeller (230)                           | EN-GJL-250/A48 CL 35B          |  |      |
| Material Casing wear ring suction-side (502.01)   | JL/LAMELLAR GRAPHITE CAST IRON |  |      |
| Material Casing wear ring discharge-side (502.02) | JL/LAMELLAR GRAPHITE CAST IRON |  |      |
| Material Shaft protecting sleeve (523)            | (CRNIMO ST INT)                |  |      |
| Material Static seal Discharge cover              | DPAF DW001                     |  |      |
| Material Drive lantern                            | EN-GJL-250/A48 CL 35B          |  |      |

**Driver**

|   |                                       |   |                     |
|---|---------------------------------------|---|---------------------|
| Electric motor, asynchronous                                | Yes                                   | Rated speed Motor                                     | 2,930 1/min         |
| Drive concept   | Electric actuator                     | Number of motor poles                                 | 2                   |
| Drive standard, mechanical                                  | IEC                                   | Rated power Motor                                     | 5.5 kW              |
| Drive standard electric                                     | IEC                                   | Motor power reserve determined                        | 38.5 %              |
| Motor bearing, insulated                                    | No                                    | Rated voltage Motor                                   | 400 V               |
| Motor manufacturer  | KSB's choice                          | Motor winding   | 400 / 690 V         |
| Customer supply Drive                                       | No                                    | Rated frequency Motor                                 | 50Hz                |
| Motor construction type                                     | IM V15 (IM2011) IEC 60034-7           | Motor switching type                                  | Delta               |
| Motor size  | 132S                                  | Rated current Motor                                   | 10.5 A              |
| Efficiency class  | IE3 (Premium)                         | Starting current ratio I <sub>a</sub> /I <sub>n</sub> | 8.7                 |
| Material motor housing                                      | AL                                    | Cos phi at 4/4 load                                   | 0.82                |
| Enclosure Motor   | IP55 (TEFC)                           | Motor efficiency at 4/4 load                          | 89.2 %              |
| Thermal class   | 155 (F) according to IEC 60085        | Limit value Maximum humidity Motor                    | 30 g/m <sup>3</sup> |
| Temperature sensor motor                                    | 3 PTC thermistors                     | Marking according to directive Drive                  | CE                  |
| Terminal box position of motor (looking at the motor shaft) | 360 °                                 |   |                     |
| Motor housing feet position (looking at the motor shaft)    | 180° (below)                          |   |                     |
| Operation on a frequency inverter permitted                 | Yes (acc to motor manufact)           |   |                     |
| Earthing connection 31M Drive                               | No                                    |   |                     |
| Sound pressure level Motor                                  | 71 dBa                                |   |                     |
| Type series Motor manufacturer                              | Acc. to motor manufacturer (IEC, IE3) |   |                     |

The values indicated are regarded as guaranteed values. They are applied to motors with a sinusoidal power supply within the permissible tolerances specified by IEC 60034-1. The values given on the name plate may be different.



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**Coating**

**Aggregate**

|                        |                                   |
|------------------------|-----------------------------------|
| Surface preparation    | Free from dirt, grease, rust      |
| Properties Primer coat | Hydro dip primer, water-dilutable |
| Thickness Primer coat  | 60 µm                             |
| Properties Top coat    | Acrylate dispersion water-thinned |
| Thickness Top coat     | 40 µm                             |
| Colour Top coat        | RAL5002 Ultramarine Blue          |
| Colour Top coat Drive  | RAL5002 Ultramarine Blue          |

**Energy cost and Environmental Impact**

**Result**

Estimated Product Carbon Footprint (cradle-to-gate) (CO<sub>2</sub>eq) 511 kg

\*

\*is based on the product weight assuming typical material proportions. The conversion rate between product weight and CO<sub>2</sub> emissions is based on several life cycle analyses in acc. with ISO 14040 / 44 of sample products from the same series. The objective and scope of these LCAs was limited to the manufacturing phase (cradle-to-gate). With regard to the 'inputs', all materials, energy and auxiliary materials were taken into account; with regard to the 'outputs', emissions, scrap and waste were considered. The influence of outgoing logistics is not covered. The input variables of the analyses cover at least 95% of the total weight. The analysis focusses on the global warming potential (EF3.0 Climate Change - total).

**Packaging**

|                        |                   |
|------------------------|-------------------|
| Suitable for transport | Truck transport   |
| Suitable for storage   | Indoor storage    |
| Packaging category     | KSB's choice (A0) |

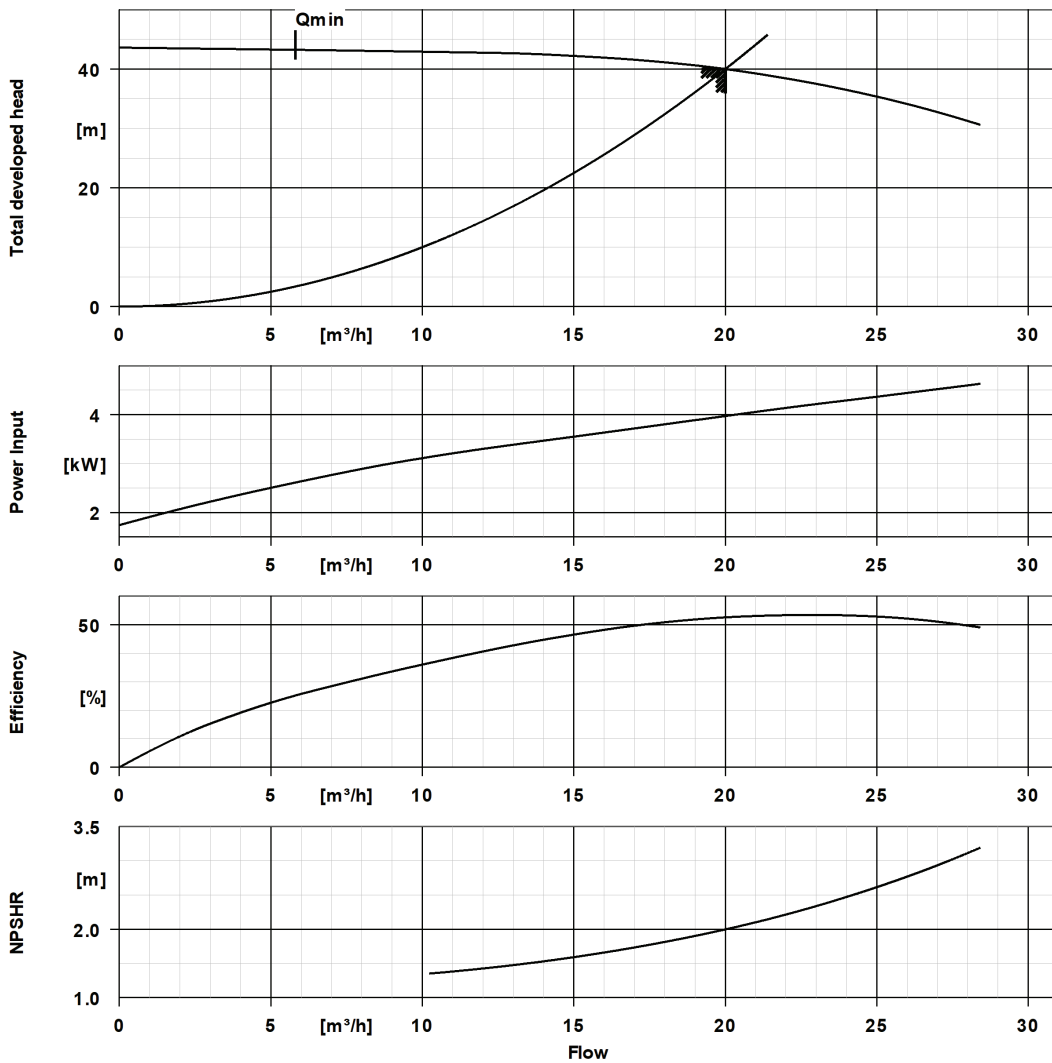
**Order related documents**

Detail drawing Mechanical seal No

# Performance Curve (Pump)



## Etabloc 050-032-200 GG ETB 050-032-200-GGSBV11 WSECX2HHB



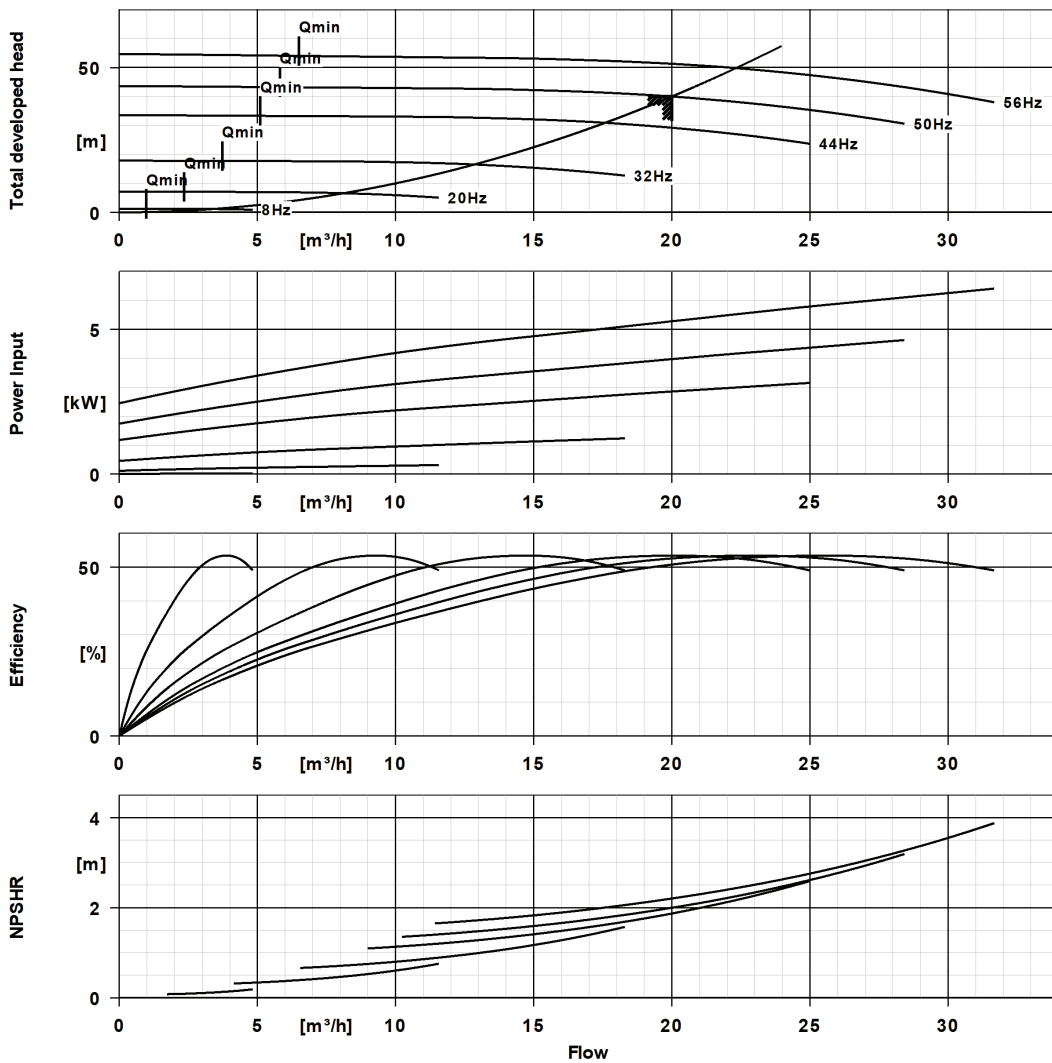
### Curve Data

|   |                            |                                   |             |
|---|----------------------------|-----------------------------------|-------------|
| Pump speed                                | 2,952 1/min                | Efficiency Pump                   | 52.6 %      |
| Density Fluid handled                     | 958 $\text{kg}/\text{m}^3$ | Minimum efficiency index MEI      | 0.7         |
| Kinematic viscosity Fluid handled         | 0.3 $\text{mm}^2/\text{s}$ | Maximum power input at duty point | 3.97 kW     |
| Flow rate                                 | 20 $\text{m}^3/\text{h}$   | NPSH required                     | 2 m         |
| Maximum permissible flow rate             | 28.4 $\text{m}^3/\text{h}$ | Hydraulic impeller diameter       | 180.1 mm    |
| Head                                      | 40 m                       | Hydraulic values according to     | EN ISO 9906 |
| Maximum pressure determined at duty point | 3.96 bar.r                 |                                   | Class 3B    |

# Speed Curve



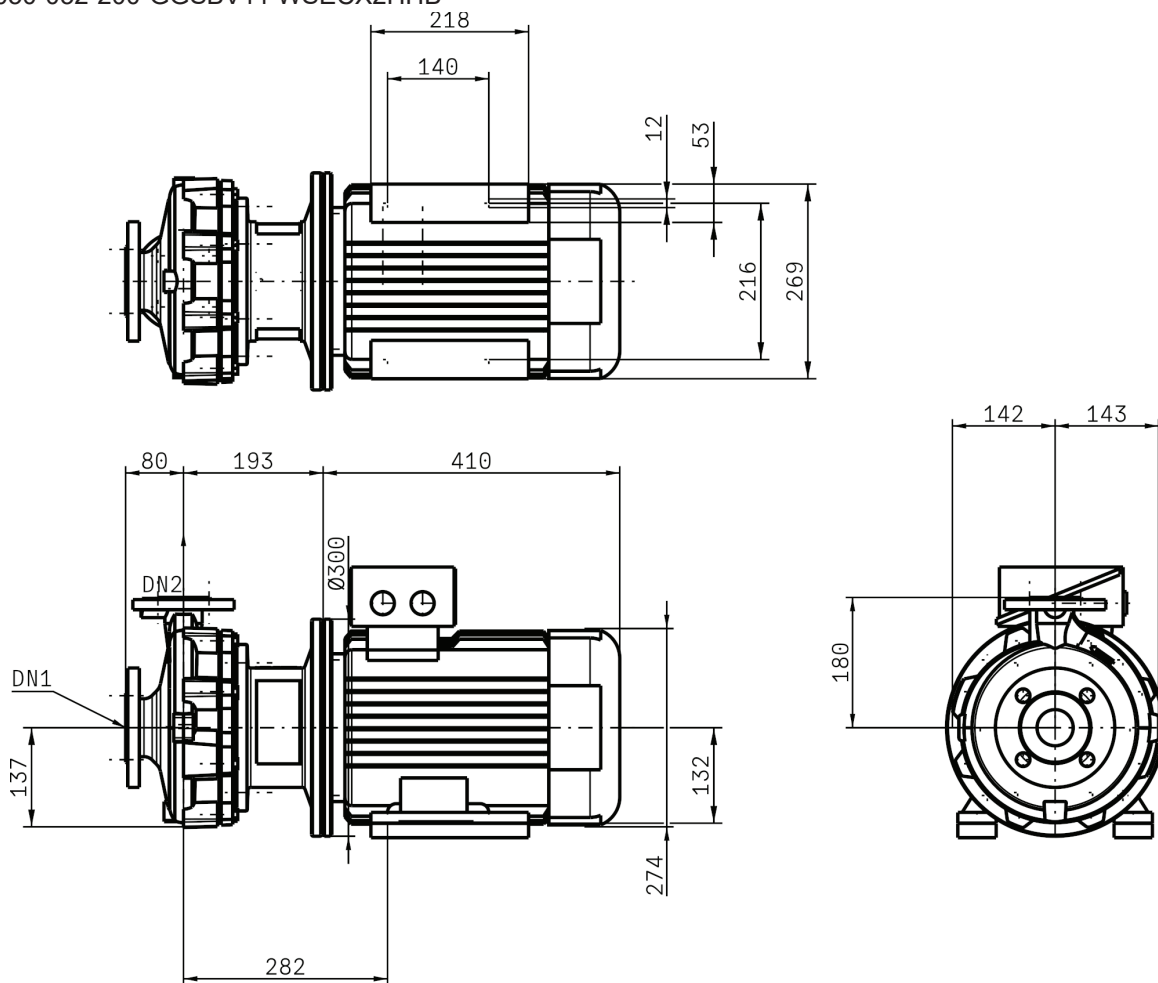
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### Curve Data

|                                   |                        |                              |          |
|-----------------------------------|------------------------|------------------------------|----------|
| Density Fluid handled             | 958 kg/m <sup>3</sup>  | Head                         | 40 m     |
| Kinematic viscosity Fluid handled | 0.3 mm <sup>2</sup> /s | Minimum efficiency index MEI | 0.7      |
| Flow rate                         | 20 m <sup>3</sup> /h   | Hydraulic impeller diameter  | 180.1 mm |

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Drawing is not to scale.

Dimensions are given in mm

**Motor**

|   |              |
|---|--------------|
| Motor manufacturer  | KSB's choice |
| Motor size  | 132S         |
| Rated power Motor   | 5.5 kW       |
| Number of motor poles                                       | 2            |
| Rated speed Motor   | 2,930 1/min  |
| Terminal box position of motor (looking at the motor shaft) | 360 °        |
| Motor housing feet position (looking at the motor shaft)    | 180° (below) |

**Connections**

|  |          |
|--|----------|
| Nominal diameter Suction nozzle                    | DN 50    |
| Suction flange bolt hole pattern as per standard   | EN1092-2 |
| Nominal diameter Discharge nozzle                  | DN 32    |
| Discharge flange bolt hole pattern as per standard | EN1092-2 |
| Nominal pressure Suction nozzle                    | PN 16    |
| Nominal pressure Discharge nozzle                  | PN 16    |



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**Net weight**

|                                      |         |
|--------------------------------------|---------|
| Total weight Pump                    | 37.8 kg |
| Total weight Drive                   | 57 kg   |
| Total weight Pump set                | 94.8 kg |
| Total weight Assembly/transport aids | 2.4 kg  |

**Connect pipelines stress-free**

Dimensional tolerances for shaft axis height: DIN 747  
Dimensions without tolerances, middle tolerances to: ISO 2768-m  
Connection dimensions for pumps: EN735  
Dimensions without tolerances - welded parts: ISO 13920-B  
Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9

**Plan for additional connections see extra drawing**