

# Technical Data

Pump Name

LPC4 40-200/0.75 QQPFF

|          |            |                                       |           |
|----------|------------|---------------------------------------|-----------|
| Customer | Date       | 2024-06-16                            | Company   |
| Contact  | Item no.   |                                       | Issued by |
| Phone    | Project    |                                       | Phone     |
| E-mail   | Project ID | Proiect redenumit 2024-06-16 15:45:44 | E-mail    |

## Requested data

|   |                           |                   |                       |        |
|---|---------------------------|-------------------|-----------------------|--------|
| 1 | Pump type                 | CENTRIFUGAL PUMPS | Fluid                 | Water  |
| 2 | Number of pumps / Reserve | 1 / 0             | Liquid temperature °C | 20     |
| 3 | Flow m³/h                 |                   | Kin. viscosity mm²/s  | 1.005  |
| 4 | Head m                    |                   | Vapour pressure bar   | 0.0234 |
| 5 | Geodetic head m           |                   | PH value              |        |
| 6 | Inlet pressure (pin) bar  | 0                 | Density kg/m³         | 998.3  |
| 7 | Available system NPSH     |                   | Solids Weight %       | 0      |
| 8 | Ambient temperature °C    | 20                |                       |        |

## Pump

|    |                           |                                |                                      |                  |
|----|---------------------------|--------------------------------|--------------------------------------|------------------|
| 9  | Pump Name                 | LPC4 40-200/0.75 QQPFF         | Frequency Hz                         | 50               |
| 10 | Design                    | CENTRIFUGAL PUMPS              | Installation type                    | STANDARD         |
| 11 | Manufacturer              | EBARA                          | Impeller Diameter                    | Max. mm 200      |
| 12 | Speed rpm                 | 1450                           |                                      | Designed mm 200  |
| 13 | No. of Stage              | 1                              |                                      | Min. mm 200      |
| 14 | Connection Suction side   |                                | Flow                                 | Operating m³/h   |
| 15 | Connection Discharge side |                                |                                      | Max- m³/h 18     |
| 16 | Max Working Pressure bar  | 10                             |                                      | Min- m³/h 3.48   |
| 17 | Shut-off head bar         | 1.32                           | Head                                 | Operating m      |
| 18 | Total weight kg           | See the table of "Dimensions". |                                      | - (Qmax.) m 6.0  |
| 19 | Shaft power kW            |                                |                                      | - (Qmin.) m 13.0 |
| 20 |                           |                                | Max. Shaft Power at max. impeller kW | 0.75             |
| 21 | Required pump NPSH m      |                                | Efficiency %                         |                  |

## Materials

|    |                     |                 |  |  |
|----|---------------------|-----------------|--|--|
| 22 | Impeller            | EN-GJL-200      |  |  |
| 23 | Intermediate casing | EN-GJL-200      |  |  |
| 24 | Bottom casing       | EN-GJL-200      |  |  |
| 25 | Shaft               | Stainless steel |  |  |
| 26 | Gasket              | AF1600          |  |  |
| 27 |                     |                 |  |  |

## Motor

|    |                      |                                       |                    |     |
|----|----------------------|---------------------------------------|--------------------|-----|
| 28 | Manufacturer         | ICME                                  | Insulation class   | F   |
| 29 | Type                 | TEFC_LPC4 40-200/0.75_230_Three Phase | Phases             | 3~  |
| 30 | Specific design      | IE3 / 50 Hz / Pole pairs 2            | Frame size         | 80  |
| 31 | Rated power kW       | 0.75                                  | Weight kg          | 10  |
| 32 | Number of poles      | 4                                     | Electric voltage V | 230 |
| 33 | Speed rpm            | 1440                                  | Electric current A | 3   |
| 34 | Degree of protection | IP 55                                 |                    |     |
| 35 |                      |                                       |                    |     |

## Remarks

# Performance Curve

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## Requested data

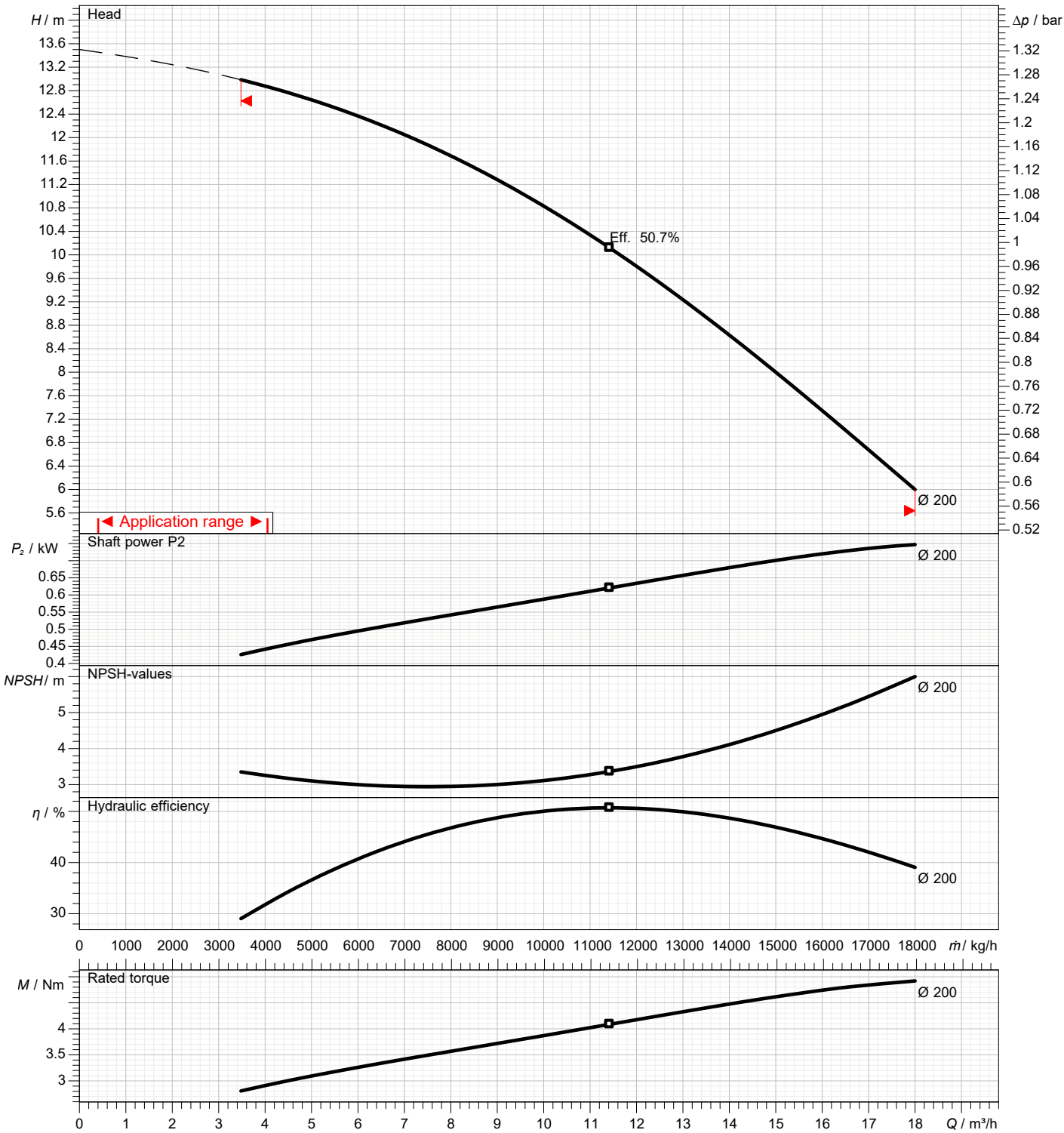
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                            |      |     |                 |     |      |
|----------------------------|------|-----|-----------------|-----|------|
| Operating flow             | m³/h |     | Frequency       | Hz  | 50   |
| Operating head             | m    |     | Number of poles |     | 4    |
| Impeller diameter designed | mm   | 200 | Speed           | rpm | 1450 |

Test standard: ISO 9906:2012 - Grade3B

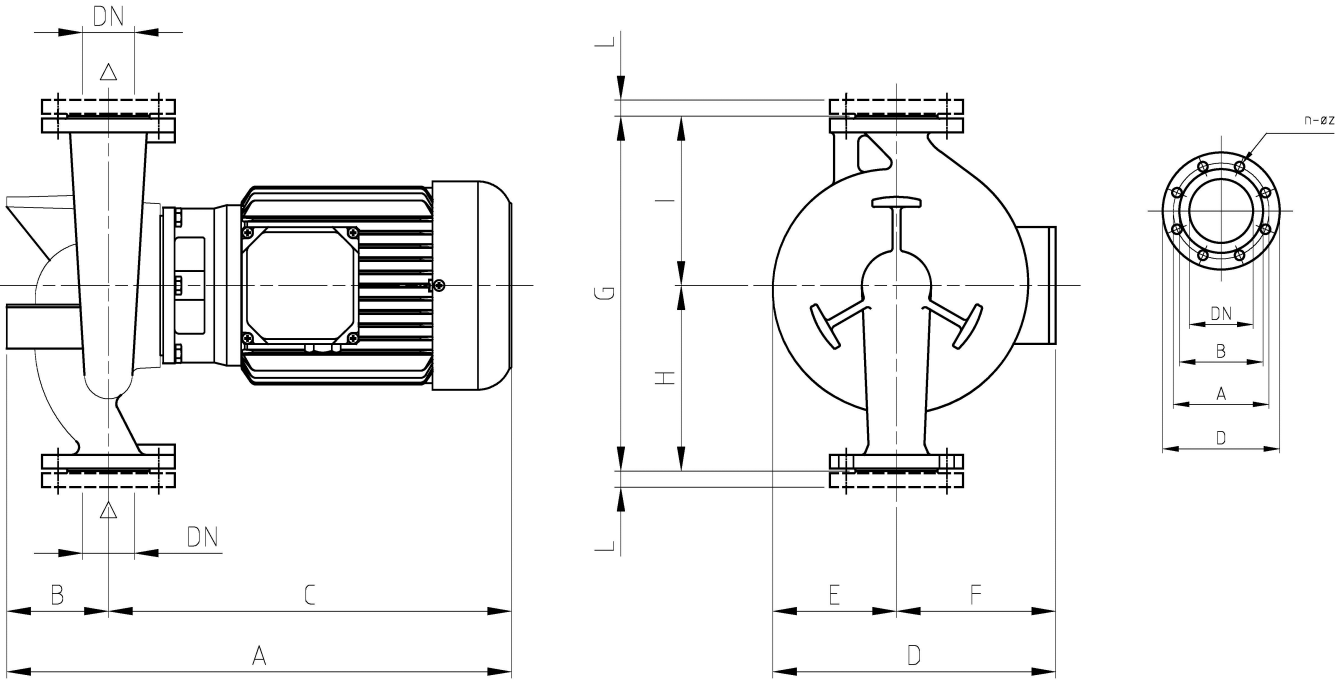
Water; 20°C; 998.3kg/m³; 1mm²/s



# Dimensions

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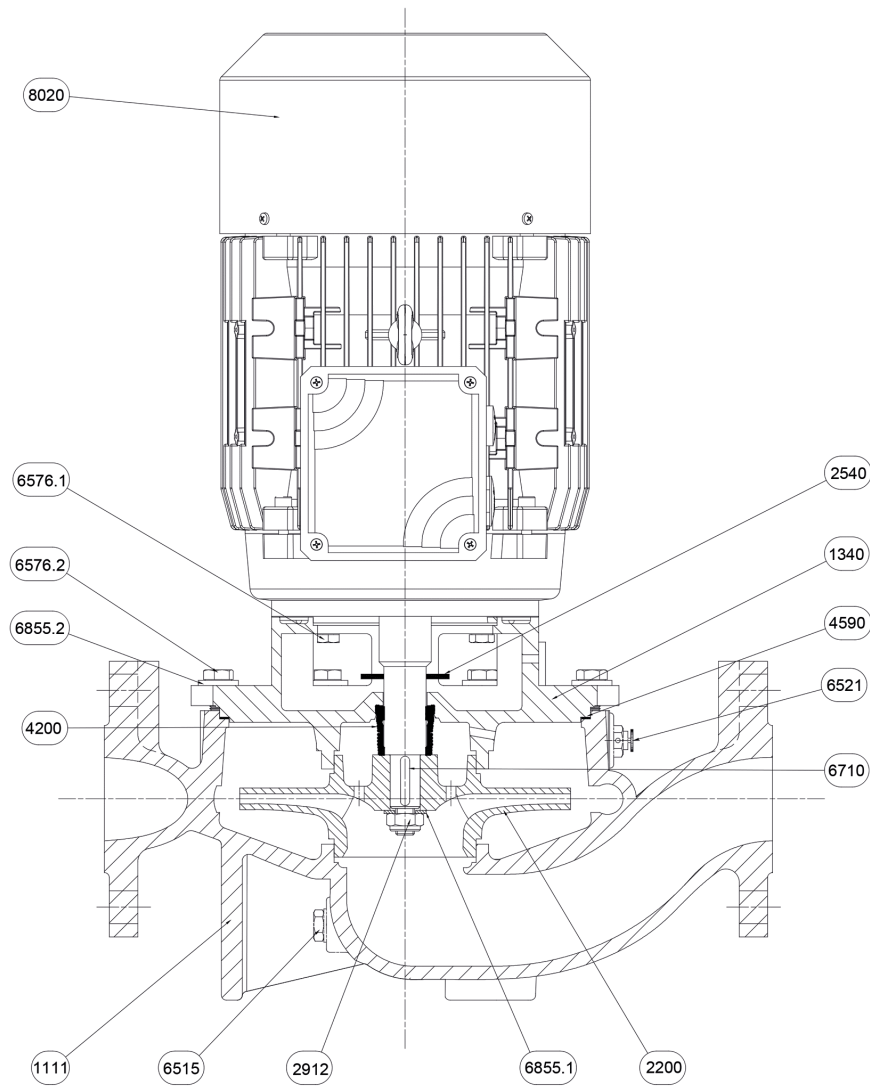


| Dimensions in            mm |        |     |                 |         |  |  |  |  |
|-----------------------------|--------|-----|-----------------|---------|--|--|--|--|
| 1                           | A      | 446 | L<br>Weight P&M | 20      |  |  |  |  |
| 2                           | B      | 100 |                 | 31,5 kg |  |  |  |  |
| 3                           | C      | 346 |                 |         |  |  |  |  |
| 4                           | D      | 266 |                 |         |  |  |  |  |
| 5                           | Dia A  | 100 |                 |         |  |  |  |  |
| 6                           | Dia B  | 80  |                 |         |  |  |  |  |
| 7                           | Dia D  | 130 |                 |         |  |  |  |  |
| 8                           | Dia DN | 40  |                 |         |  |  |  |  |
| 9                           | Dia n  | 4   |                 |         |  |  |  |  |
| 10                          | Dia Z  | 14  |                 |         |  |  |  |  |
| 11                          | E      | 127 |                 |         |  |  |  |  |
| 12                          | F      | 139 |                 |         |  |  |  |  |
| 13                          | G      | 380 |                 |         |  |  |  |  |
| 14                          | H      | 200 |                 |         |  |  |  |  |
| 15                          | I      | 180 |                 |         |  |  |  |  |

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Construction

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| N°     | PART NAME            | MATERIAL             | Q.TY |
|--------|----------------------|----------------------|------|
| 1111   | Pump casing          | EN-GJL-200           | 1    |
| 1340   | Latern-Cover         | EN-GJL-200           | 1    |
| 2200   | Impeller             | EN-GJL-200           | 1    |
| 2540   | Baffle               | NB 70                | 1    |
| 2912   | Impeller nut         | 6.8-ZN               | 1    |
| 4200   | Mechanical seal      | Sic/Sic/NBR/AISI 304 | 1    |
| 4590   | Gasket               | AF 1600              | 1    |
| 6515   | Drain plug           | EN-GJMB-350-10       | 1    |
| 6521   | Vent valve           | CW509L               | 1    |
| 6576.1 | Hexagonal head screw | 8.8-ZN               | 4    |
| 6576.2 | Hexagonal head screw | 8.8-ZN               | 8    |
| 6710   | Key                  | C50                  | 1    |
| 6855.1 | Impeller washer      | R40-ZN               | 1    |
| 6855.2 | Washer               | R40-ZN               | 8    |
| 8020   | Motor                |                      | 1    |

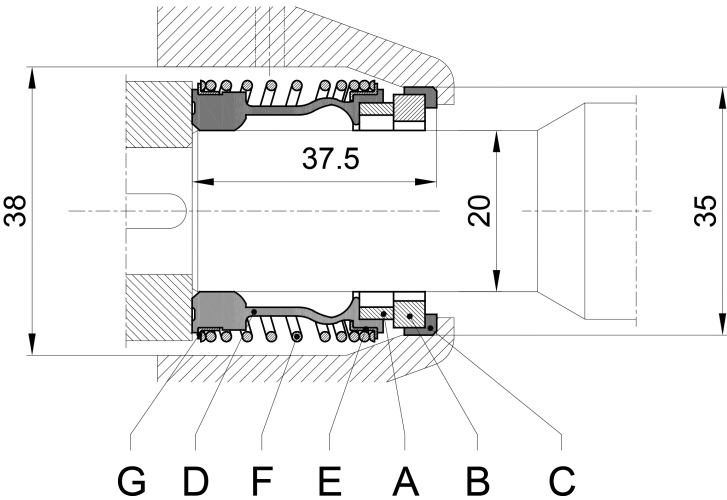
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Construction

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| Ref. | Name                 | Material        |
|------|----------------------|-----------------|
| A    | Rotary seal ring     | Carbon          |
| B    | Stationary seal ring | Silicon Carbide |
| C    | Gasket               | EPDM            |
| D    | Bellows              | EPDM            |
| E    | Spring plate         | AISI 304        |
| F    | Spring               | AISI 304        |
| G    | Spring plate         | AISI 304        |