

3E 50-160/4

# Performance Curve

Pump Name

3E 50-160/4

|          |            |            |           |
|----------|------------|------------|-----------|
| Customer | Date       | 09.06.2024 | Company   |
| Contact  | Item no.   |            | Issued by |
| Phone    | Project    |            | Phone     |
| E-mail   | Project ID |            | E-mail    |

## Requested data

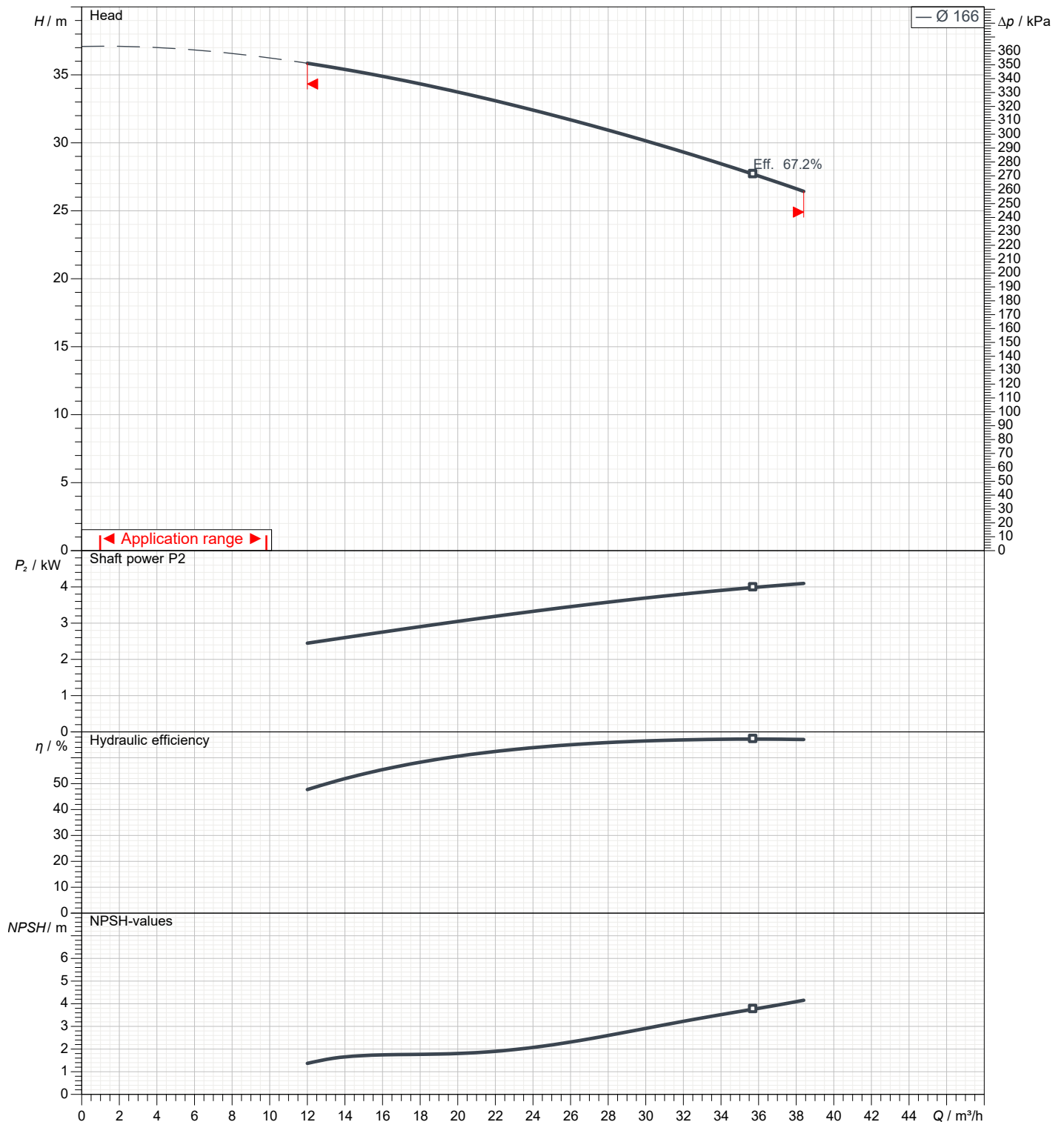
|   |               |      |  |
|---|---------------|------|--|
| 1 | Flow          | m³/h |  |
| 2 | Head          | m    |  |
| 3 | Geodetic head | m    |  |

## Pump

|                            |      |     |                 |     |      |
|----------------------------|------|-----|-----------------|-----|------|
| Operating flow             | m³/h |     | Frequency       | Hz  | 50   |
| Operating head             | m    |     | Number of poles |     | 2    |
| Impeller diameter designed | mm   | 166 | Speed           | rpm | 2900 |

Test standard: ISO 9906:2012 - Grade3B

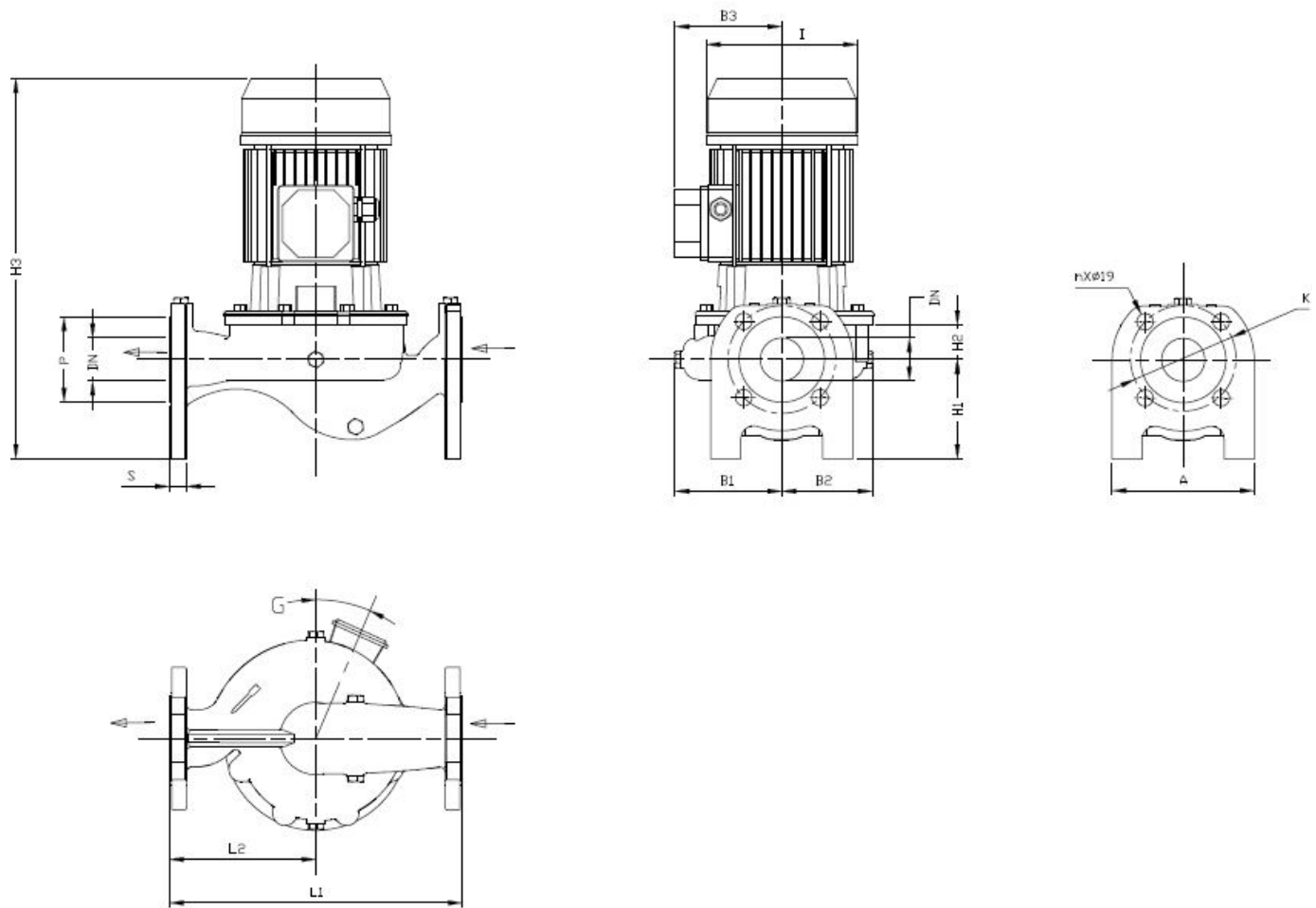
Water; 20°C; 998.3kg/m³; 1cSt



# Dimensions

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| Dimensions in mm |            |         |     |     |  |  |  |  |
|------------------|------------|---------|-----|-----|--|--|--|--|
| 1                | A          | 165     | Φ K | 125 |  |  |  |  |
| 2                | B1         | 134     | Φ P | 99  |  |  |  |  |
| 3                | B2         | 126     |     |     |  |  |  |  |
| 4                | B3         | 141     |     |     |  |  |  |  |
| 5                | G          | 18      |     |     |  |  |  |  |
| 6                | H1         | 115     |     |     |  |  |  |  |
| 7                | H2         | 50      |     |     |  |  |  |  |
| 8                | H3         | 528     |     |     |  |  |  |  |
| 9                | I          | 193     |     |     |  |  |  |  |
| 10               | L1         | 340     |     |     |  |  |  |  |
| 11               | L2         | 170     |     |     |  |  |  |  |
| 12               | n          | 4(Num)  |     |     |  |  |  |  |
| 13               | S          | 20      |     |     |  |  |  |  |
| 14               | Weight P&M | 44.8 kg |     |     |  |  |  |  |
| 15               | Φ DN       | 50      |     |     |  |  |  |  |

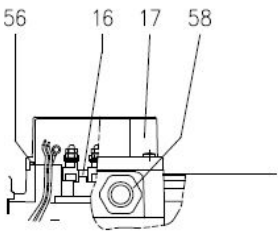
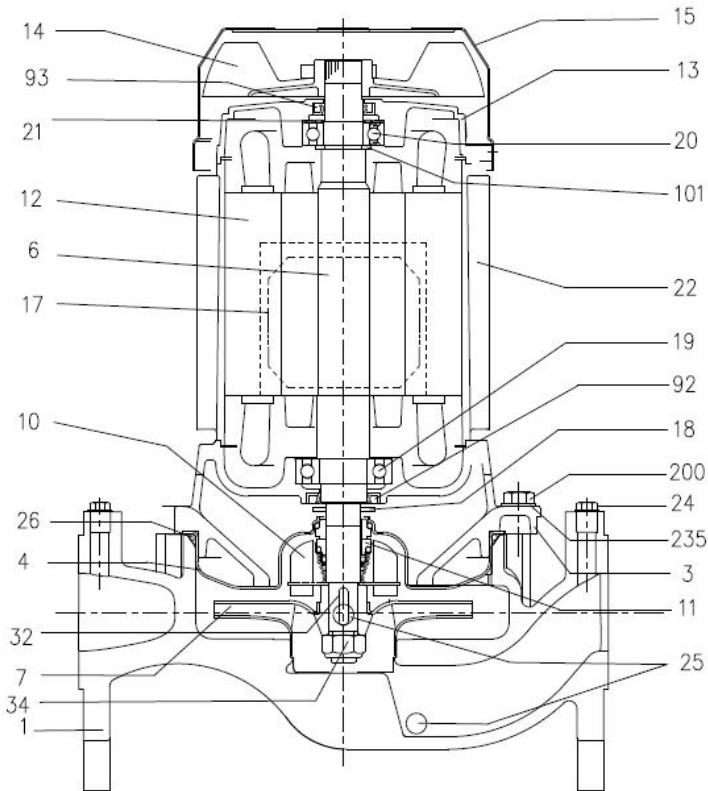
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Construction

Pump Name

3E 50-160/4

|          |                |           |
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## Construction

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| No  | PART NAME                        |                                                   | MATERIAL                               | DIMENSIONS  | STANDARD                | Q.TY |
|-----|----------------------------------|---------------------------------------------------|----------------------------------------|-------------|-------------------------|------|
| 1   | Casing                           |                                                   | Cast iron EN-GJL-250-EN 1561           |             |                         | 1    |
| 3   | Motor bracket                    | [1]                                               | -                                      |             |                         | 1    |
| 4   | Casing cover                     |                                                   | EN 1.4301(AISI 304)                    |             |                         | 1    |
| 6   | Shaft with rotor - Wet extension |                                                   | EN 1.4301(AISI 304)                    |             |                         | 1    |
| 7   | Impeller                         |                                                   | EN 1.4301(AISI 304)                    |             |                         | 1    |
| 10  | Baffle                           | [2]                                               | EN 1.4301(AISI 304)                    |             |                         | 1    |
| 11  | Mechanical seal                  | [3]                                               |                                        |             |                         | 1    |
| 12  | Motor frame with stator          |                                                   | -                                      |             |                         | 1    |
| 13  | Motor cover                      |                                                   | Aluminium                              |             |                         | 1    |
| 14  | Fan                              |                                                   | PA                                     |             |                         | 1    |
| 15  | Fan cover                        |                                                   | Fe P04 Galvanized                      |             |                         | 1    |
| 16  | Terminal                         |                                                   | -                                      |             |                         | 1    |
| 17  | Terminal box cover               |                                                   | Aluminium (three phase version)        |             |                         | 1    |
| 18  | Splash ring                      | 0.37 kW to 0.75 kW                                |                                        | 25x14.5x2.5 | EBARA DRAWING           | 1    |
|     |                                  | Up to 11kW                                        |                                        | 40x21.5x2   |                         |      |
|     |                                  | 15 kW and above                                   |                                        | 50x29.5x3   |                         |      |
| 19  | Bearing                          |                                                   | *                                      |             |                         | 1    |
| 20  | Bearing                          |                                                   | *                                      |             |                         | 1    |
| 21  | Adjusting ring                   |                                                   | Steel C70                              |             |                         | 1    |
| 22  | Tie rod                          | Up to 3 kW                                        | Fe 42 Galvanized                       | M5          | EBARA DRAWING           | 4    |
|     |                                  | For 4 to 7.5 kW                                   |                                        | M6          |                         |      |
|     |                                  | 9.2 kW to 11kW                                    |                                        | M8          |                         |      |
|     | Screw                            | 15 kW and above                                   | Gv. Steel 8.8 strength class ISO 898-1 | M10x40      | UNI 5739                |      |
| 24  | Plug                             |                                                   | Brass                                  | G 1/4       |                         | 2    |
| 25  | Drain plug                       |                                                   | Brass                                  | G 1/4       |                         | 4    |
| 26  | O-ring                           | 32-125,50-100,65-100,80-100,40-160/1.1            | EPDM[4]                                | 158.11x5.34 | OR 6625                 | 1    |
|     |                                  | 40-160, 50-160,                                   |                                        | 183.52x5.34 | OR 6720                 |      |
| 32  | Key                              | 32-125,50-100,65-100/0.55,65-100/0.75             | EN 1.4401(AISI 316)                    | A 4x4x14    | UNI 6604                | 1    |
|     |                                  | 40-160,50-125,50-160,65-100/1.1,65-100/1.5,80-100 |                                        | A 6x6x18    |                         |      |
| 34  | Impeller nut                     | 32-125,50-100,65-100/0.55,65-100/0.75             | EN 1.4301(AISI 304)                    | M10x1.25    | UNI 7474                | 1    |
|     |                                  | 40-160,50-125,50-160,65-100/1.1,65-100/1.5,80-100 |                                        | M16x1.5     |                         |      |
| 56  | Box gasket                       |                                                   | NBR                                    |             |                         | 1    |
| 58  | Cable gland                      |                                                   | -                                      |             |                         | 1    |
| 92  | Lip seal                         | 32-125,50-100,65-100                              |                                        | 15x30x5     | DIN 3760 without spring | 1    |
|     |                                  | Up to 3kW                                         |                                        | 25x40x7     |                         |      |
|     |                                  | From 4 to 7.5 kW                                  |                                        | 30x47x7     |                         |      |
| 93  | Lip seal                         | 32-125,50-100,65-100/0.55,65-100/0.75             |                                        | 15x30x5     | DIN 3760 without spring | 1    |
|     |                                  | 40-160,50-125,80-100                              |                                        | 17x32x6     |                         |      |
|     |                                  | Up to 4 kW                                        |                                        | 25x40x7     |                         |      |
| 200 | Screw                            | 32-125,50-100,65-100/0.55,65-100/0.75             | Gv. Steel 8.8 strength class ISO 898-1 | M6x25       | UNI 5739                | 8    |
|     |                                  | 65-100/1.1,65-100/1.5                             |                                        | M 6x30      |                         |      |
|     |                                  | 50-125,80-100                                     |                                        | M 8x30      |                         |      |
|     |                                  | 40-160,50-160                                     |                                        | M10x35      |                         |      |
| 235 | Washer                           | 32-125,50-100,65-100                              | Galvanized Steel                       |             | UNI 6592                | 8    |
|     |                                  | 50-125,80-100                                     |                                        | 8.4x17      |                         | 8    |
|     |                                  | 40-160,50-160                                     |                                        | 10.5x21     |                         | 10   |

[1] Cast iron EN-GJL-200-EN 1561 for models with 15,18.5, 22 kW motor  
Aluminum AL-EN-1706-AC-46000-D for all the others;

[2] EN1.4301(AISI 304) for 32-125,40-160,50-100/125/160  
CF8 for 65-100,80-100

[3] See MECHANICAL SEAL pages

[4] FPM for Q1AVGG  
EPDM for Q1AEGG,Q4Q1EGG

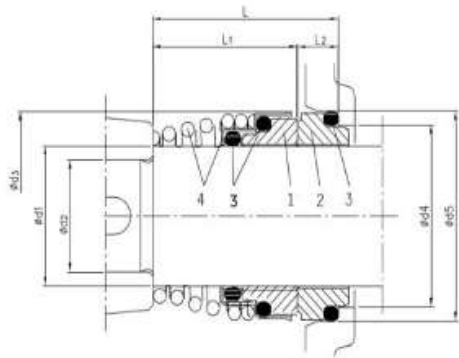
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Construction

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| Version              | Pump type                                                  | Dimensions [ mm ] |    |    |    |      |      |      |    | Material                 |                              |             |                         |
|----------------------|------------------------------------------------------------|-------------------|----|----|----|------|------|------|----|--------------------------|------------------------------|-------------|-------------------------|
|                      |                                                            | d1                | d2 | d3 | d4 | d5   | L    | L1   | L2 | 1<br>Rotary seal<br>ring | 2<br>Stationary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| Standard<br>(Q1AEGG) | 32-125/160/200<br>50-100<br>65-100/0.55-0.75<br>40-160/200 | 15                | 12 | 26 | 21 | 26.9 | 29   | 22   | 7  | Silicon<br>Carbide       | Metarialsed<br>Carbon        | EPDM        | EN 1.4401<br>(AISI 316) |
|                      | 50-125/160/200<br>65-100/1.1-1.5<br>65-125/160/200         | 22                | 19 | 36 | 31 | 37   | 37.5 | 27.5 | 10 |                          |                              |             |                         |
|                      | 80-100<br>80-160/9.2-11<br>80-160/15                       | 30                | 24 | 46 | 39 | 45   | 42.5 | 32.5 | 10 |                          |                              |             |                         |
|                      | 80-200                                                     |                   |    |    |    |      |      |      |    |                          |                              |             |                         |
|                      | 100-160                                                    |                   |    |    |    |      |      |      |    |                          |                              |             |                         |
|                      |                                                            |                   |    |    |    |      |      |      |    |                          |                              |             |                         |