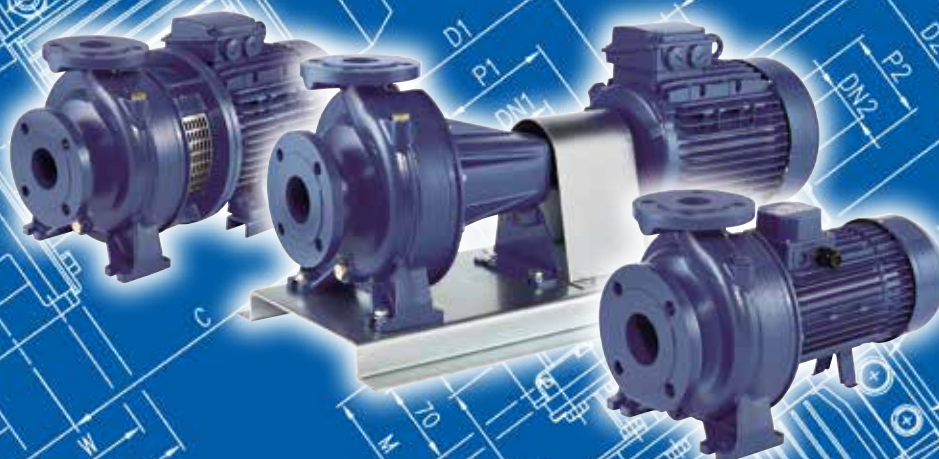




Japanese Technology since 1912

## 3D SERIES 4P

Data Book 50Hz



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**SPECIFICATION****50Hz**

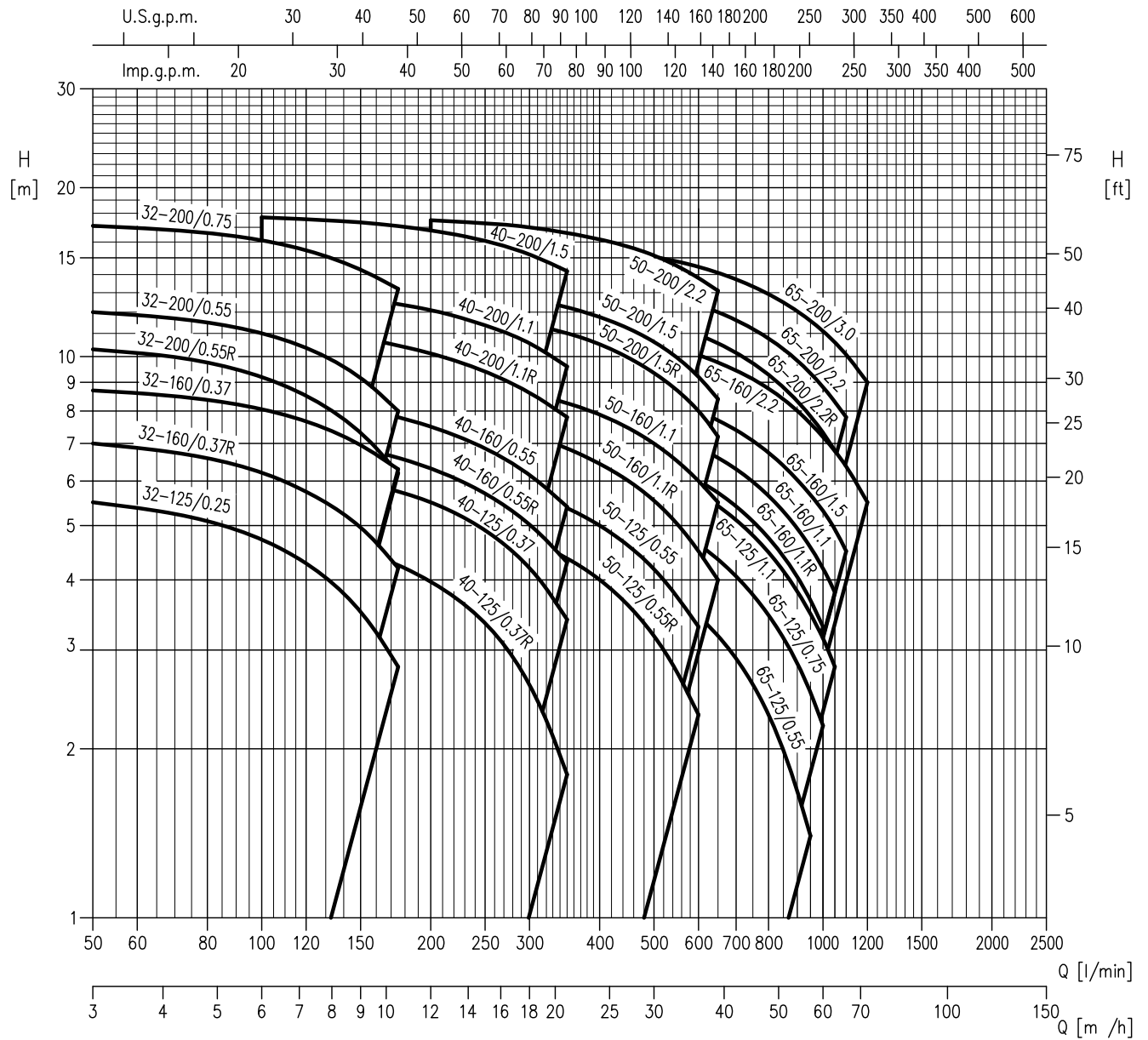
Rev. L

| <b>PUMP</b>                    |                          |                                                                                                                                                             |
|--------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Liquid Handled                 | Type of liquid           | Clean water                                                                                                                                                 |
|                                | Working temperature [°C] | min. -5<br>max. +120<br>For full details see section "FLUID TEMPERATURE RANGE" on pag. 307                                                                  |
| Maximum working pressure [MPa] |                          | 1                                                                                                                                                           |
| Construction                   | Impeller                 | Closed centrifugal type for 32, 40, 50 version<br>Reinforced laser welding for 40-200/1.5, 50-200/2.2<br>Closed centrifugal three dimensional blades for 65 |
|                                | Shaft seal type          | Mechanical seal                                                                                                                                             |
|                                | Bearing                  | Bearing with contact seal                                                                                                                                   |
| Pipe Connection                | Suction                  | Flange DN 50, 65 according to EN 1092-2<br>Flange DN 80 according to UNI 2236-67 (4 holes)                                                                  |
|                                | Discharge                | Flange DN 32, 40, 50, 65 according to EN 1092-2                                                                                                             |
| Material                       | Casing                   | Cast iron EN-GJL-250-EN 1561                                                                                                                                |
|                                | Impeller                 | EN 1.4301 (AISI 304) - 32, 40, 50 series<br>EN 1.4401 (AISI 316) made by precision casting - 65 series                                                      |
|                                | Shaft seal               | Ceramic/Carbon/NBR (see Optionals on pag. 306-307)                                                                                                          |
|                                | Shaft / Coupling         | EN 1.4301 (AISI 304) (wet extension)                                                                                                                        |
| Accessory                      | Bracket                  | Aluminium/Cast iron                                                                                                                                         |
|                                | Counterflange            | DN 32, 40, 50, 65, 80 (see pag. 311)                                                                                                                        |
| Applicable standard of test    |                          | ISO 9906:2012 – Grade 3B                                                                                                                                    |

| <b>MOTOR</b>                        |      |                                                                 |                                                             |
|-------------------------------------|------|-----------------------------------------------------------------|-------------------------------------------------------------|
|                                     |      | 3D4                                                             | 3DS4      3DP4                                              |
| Type                                |      | Electric - TEFC                                                 |                                                             |
|                                     |      | Three Phase                                                     |                                                             |
| Efficiency (Reg. 1781/2019)         |      | IE2 from 0.25 kW up to 0.55 Kw<br>IE3 from 0.75 kW up to 3.0 kW |                                                             |
| No. of Poles                        |      | 4                                                               |                                                             |
| Rotation speed [min <sup>-1</sup> ] |      | ≈1400                                                           |                                                             |
| Insulation Class                    |      | F (class B for temperature rise)                                |                                                             |
| Protection degree                   |      | IP 55                                                           |                                                             |
| Power rating                        | [kW] | 0.25 ÷ 3                                                        |                                                             |
|                                     | [HP] | 0.33 ÷ 4                                                        |                                                             |
| Frequency [Hz]                      |      | 50                                                              |                                                             |
| Voltage [V]                         |      | 230/400 ±10%                                                    | 230/400 ±10%                                                |
| Over load protection                |      | Provided by the user                                            |                                                             |
| Casing material                     |      | Aluminium                                                       |                                                             |
| Motor support                       |      | Cast Iron - Aluminium                                           |                                                             |
| Dimensions of cable entry           |      | PG11, PG13.5, PG16                                              | M10x15, M20x1.5, M25x1.5                                    |
| Flange mount (IEC motor)            |      | /                                                               | IM B5<br>(up to 1.5 kW)<br><br>IM B35<br>(2.2 kW and above) |
|                                     |      |                                                                 | IM B3                                                       |

**SELECTION CHART****50Hz**

Rev. L



**SELECTION CHART**

50Hz

Rev. L

**3D4 SERIES 32 SIZE**

| Pump type    | kW   | HP   | l/min 0 | 50   | 100  | 150  | 175  |
|--------------|------|------|---------|------|------|------|------|
|              |      |      | m³/h 0  | 3    | 6    | 9    | 10.5 |
| 32-125/0.25  | 0.25 | 0.33 | 5.7     | 5.5  | 4.7  | 3.5  | 2.8  |
| 32-160/0.37R | 0.37 | 0.5  | 7.3     | 7    | 6.2  | 5    | 4.2  |
| 32-160/0.37  | 0.37 | 0.5  | 9       | 8.7  | 8.1  | 7    | 6.3  |
| 32-200/0.55R | 0.55 | 0.75 | 10.8    | 10.3 | 9.2  | 7.3  | 6.2  |
| 32-200/0.55  | 0.55 | 0.75 | 12.5    | 12   | 11   | 9.2  | 8    |
| 32-200/0.75  | 0.75 | 1    | 17.5    | 17.1 | 16.1 | 14.3 | 13.2 |

**3D4 SERIES 40 SIZE**

| Pump type    | kW   | HP   | l/min 0 | 100  | 150  | 175  | 200  | 250  | 300  | 350  |
|--------------|------|------|---------|------|------|------|------|------|------|------|
|              |      |      | m³/h 0  | 6    | 9    | 10.5 | 12   | 15   | 18   | 21   |
| 40-125/0.37R | 0.37 | 0.5  | 5.1     | 4.8  | 4.5  | 4.3  | 4    | 3.4  | 2.6  | 1.8  |
| 40-125/0.37  | 0.37 | 0.5  | 6.5     | 6.3  | 6    | 5.8  | 5.5  | 4.9  | 4.2  | 3.4  |
| 40-160/0.55R | 0.55 | 0.75 | 7.7     | 7.3  | 6.9  | 6.6  | 6.3  | 5.7  | 5    | 4.3  |
| 40-160/0.55  | 0.55 | 0.75 | 9.1     | 8.6  | 8.1  | 7.8  | 7.5  | 6.9  | 6.2  | 5.4  |
| 40-200/1.1R  | 1.1  | 1.5  | 11.6    | 11.2 | 10.8 | 10.5 | 10.1 | 9.4  | 8.6  | 7.8  |
| 40-200/1.1   | 1.1  | 1.5  | 13.6    | 13.2 | 12.7 | 12.4 | 12.1 | 11.4 | 10.6 | 9.6  |
| 40-200/1.5   | 1.5  | 2    | 18      | 17.7 | 17.3 | 17.1 | 16.8 | 16.1 | 15.2 | 14.2 |

**3D4 SERIES 50 SIZE**

| Pump type    | kW   | HP   | l/min 0 | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 650  |
|--------------|------|------|---------|------|------|------|------|------|------|------|------|
|              |      |      | m³/h 0  | 12   | 15   | 18   | 21   | 24   | 30   | 36   | 39   |
| 50-125/0.55R | 0.55 | 0.75 | 5.4     | 5.2  | 5    | 4.7  | 4.4  | 4    | 3.2  | 2.3  | -    |
| 50-125/0.55  | 0.55 | 0.75 | 6.4     | 6.2  | 6    | 5.7  | 5.4  | 5    | 4.2  | 3.3  | -    |
| 50-160/1.1R  | 1.1  | 1.5  | 8.2     | 7.8  | 7.6  | 7.2  | 6.9  | 6.4  | 5.5  | 4.5  | 4    |
| 50-160/1.1   | 1.1  | 1.5  | 9.5     | 9.1  | 8.9  | 8.6  | 8.3  | 7.9  | 7    | 6    | 5.5  |
| 50-200/1.5R  | 1.5  | 2    | 12.7    | 12.1 | 11.8 | 11.4 | 11   | 10.5 | 9.3  | 8    | 7.2  |
| 50-200/1.5   | 1.5  | 2    | 14      | 13.3 | 13   | 12.7 | 12.2 | 11.8 | 10.6 | 9.2  | 8.4  |
| 50-200/2.2   | 2.2  | 3    | 17.8    | 17.5 | 17.3 | 17   | 16.6 | 16.2 | 15.1 | 13.8 | 13.1 |

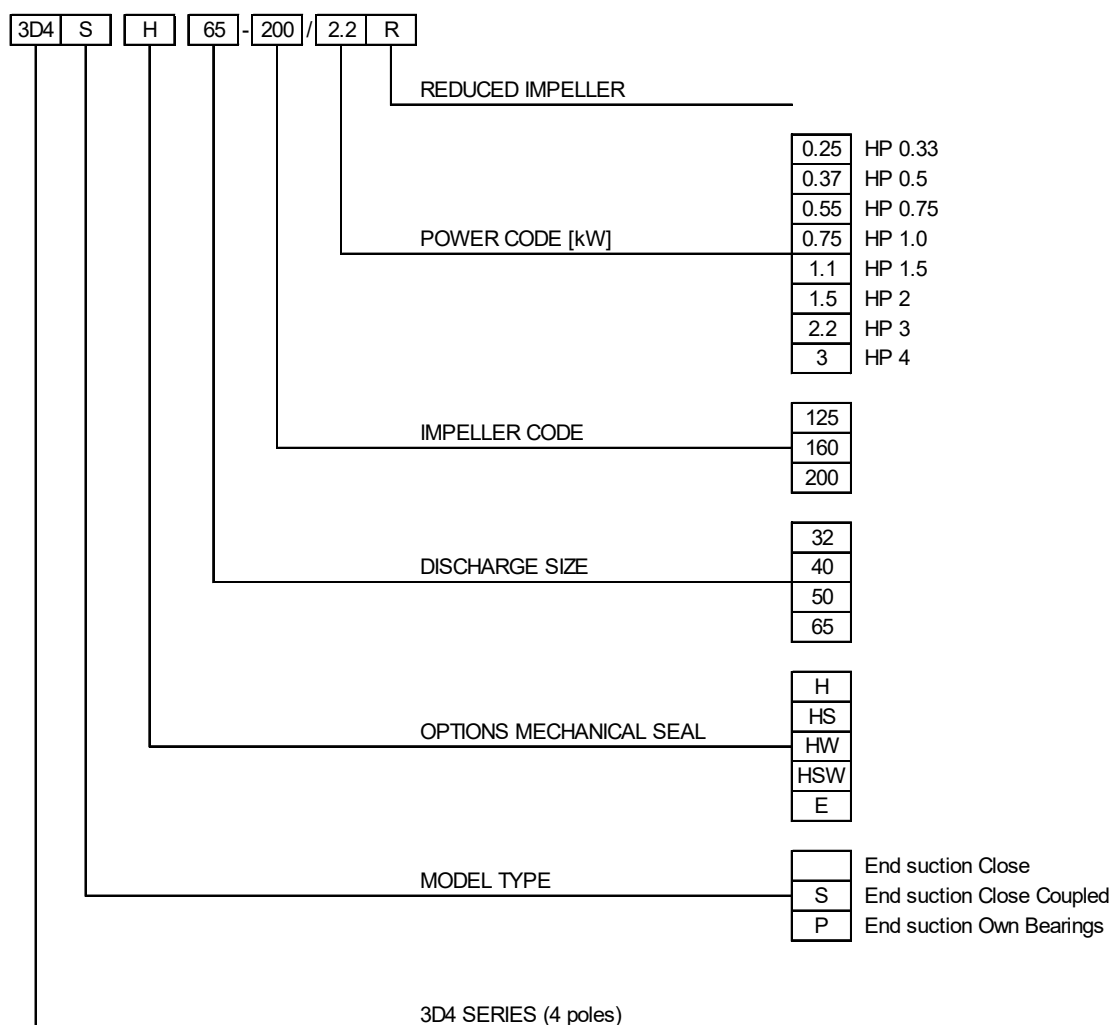
**3D4 SERIES 65 SIZE**

| Pump type   | kW   | HP   | l/min 0 | 300 | 350  | 500  | 600  | 800  | 950  | 1000 | 1050 | 1100 | 1200 |
|-------------|------|------|---------|-----|------|------|------|------|------|------|------|------|------|
|             |      |      | m³/h 0  | 18  | 21   | 30   | 36   | 48   | 57   | 60   | 63   | 66   | 72   |
| 65-125/0.55 | 0.55 | 0.75 | 5.3     | 4.8 | 4.6  | 4    | 3.5  | 2.3  | 1.4  | -    | -    | -    | -    |
| 65-125/0.75 | 0.75 | 1    | 6.4     | 6   | 5.8  | 5.2  | 4.6  | 3.5  | 2.5  | 2.2  | -    | -    | -    |
| 65-125/1.1  | 1.1  | 1.5  | 7.7     | 7.2 | 7    | 6.3  | 5.7  | 4.5  | 3.5  | 3.2  | 2.8  | -    | -    |
| 65-160/1.1  | 1.1  | 1.5  | 8.6     | -   | 8.1  | 7.4  | 6.9  | 5.7  | 4.6  | 4.2  | 3.8  | -    | -    |
| 65-160/1.5  | 1.5  | 2    | 9.7     | -   | 9.2  | 8.5  | 8    | 6.7  | 5.7  | 5.3  | 4.9  | 4.5  | -    |
| 65-160/2.2  | 2.2  | 3    | 11.8    | -   | 11.3 | 10.6 | 10.1 | 8.8  | 7.6  | 7.2  | 6.8  | 6.4  | 5.5  |
| 65-200/2.2R | 2.2  | 3    | 13      | -   | 12.4 | 11.6 | 10.9 | 9.3  | 7.8  | 7.3  | 6.8  | -    | -    |
| 65-200/2.2  | 2.2  | 3    | 14.5    | -   | 13.9 | 13   | 12.4 | 10.8 | 9.3  | 8.8  | 8.3  | 7.8  | -    |
| 65-200/3    | 3    | 4    | 16.3    | -   | 15.8 | 15.1 | 14.4 | 12.9 | 11.6 | 11.1 | 10.6 | 10.1 | 9    |

**TYPE KEY AND CURVE SPECIFICATIONS**

50Hz

Rev. L

**TYPE KEY**

**PERFORMANCE CURVE SPECIFICATIONS**

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B

The curves refer to effective speed of asynchronous motors at 50 Hz, 4 poles.

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of  $\nu = 1 \text{ mm}^2/\text{s}$  (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

Q = volume flow rate

H = total head

$P_2$  = pump power input (shaft power)

$\eta$  = pump efficiency

NPSH = net positive suction head required by the pump

MEI = minimum efficiency index

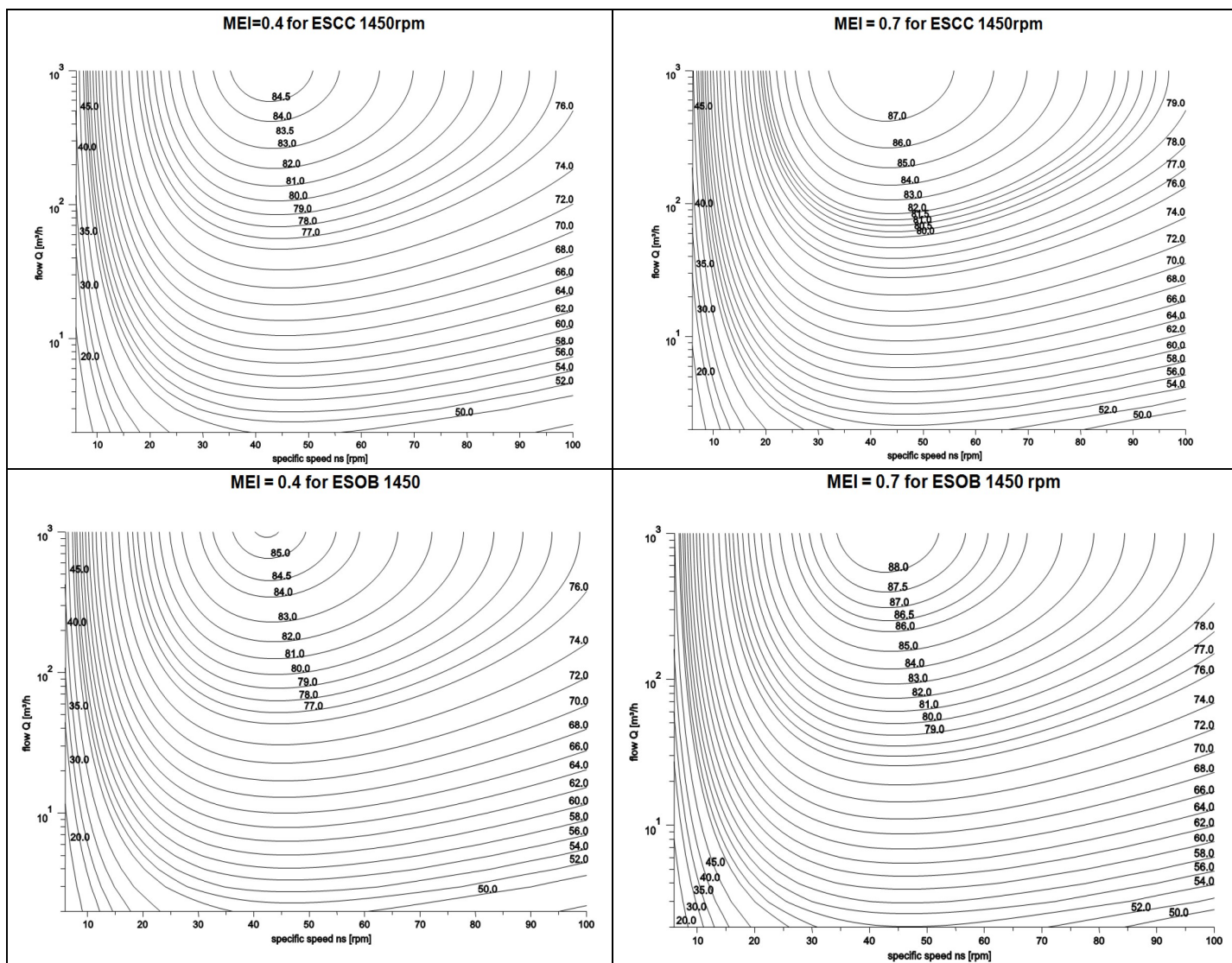


**MEI INDEX SPECIFICATION**

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

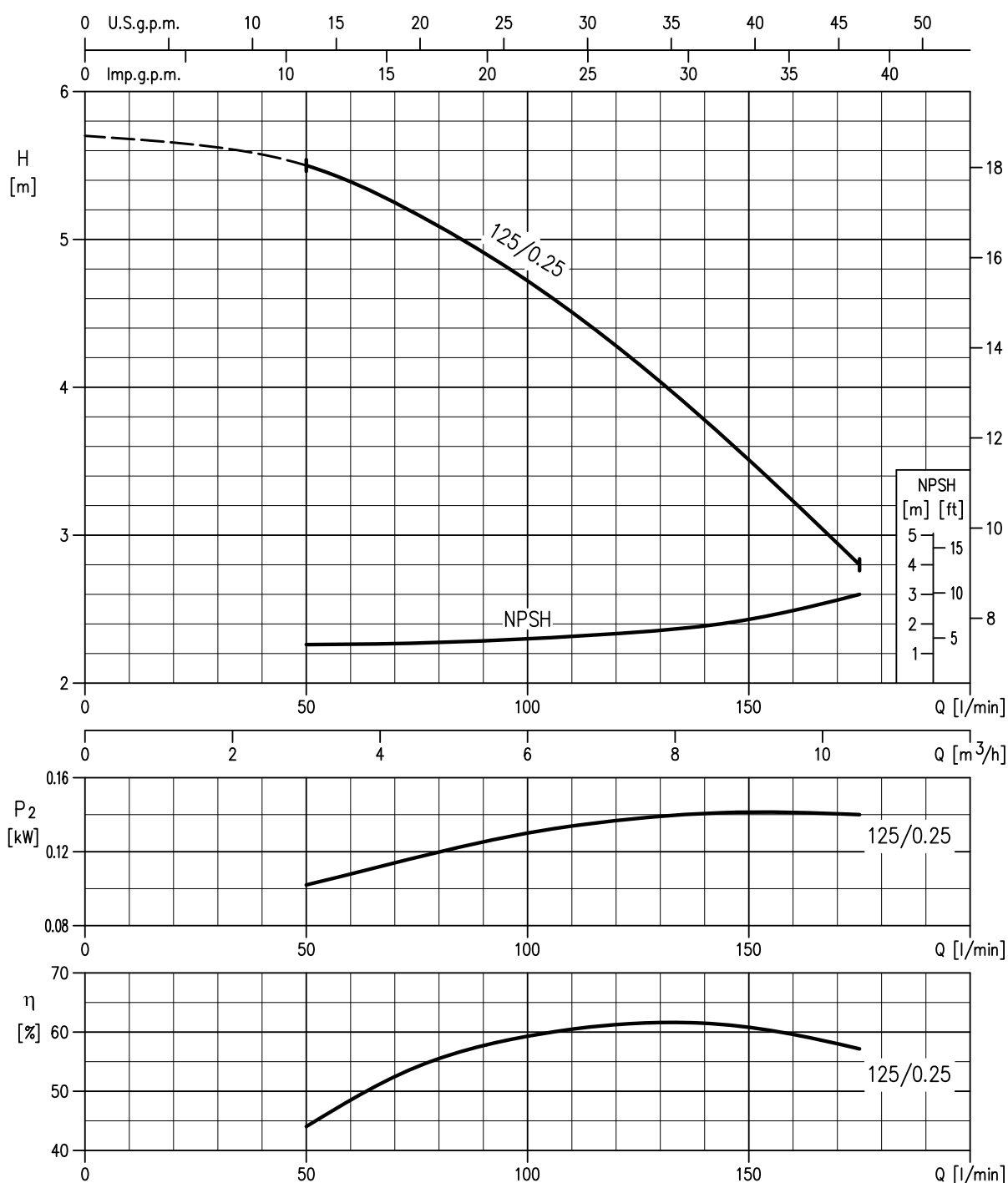
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.

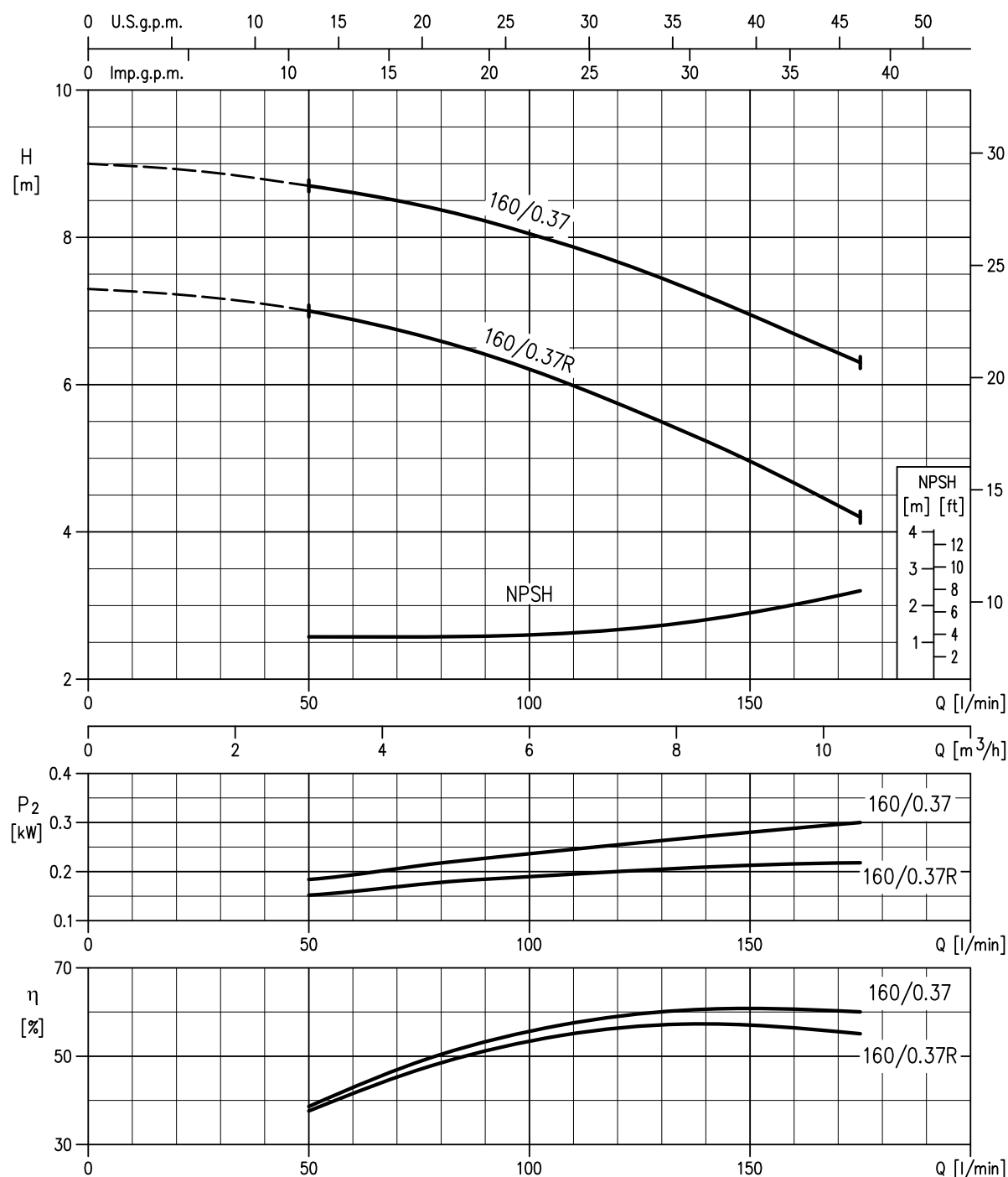


**MEI INDEX VALUE**

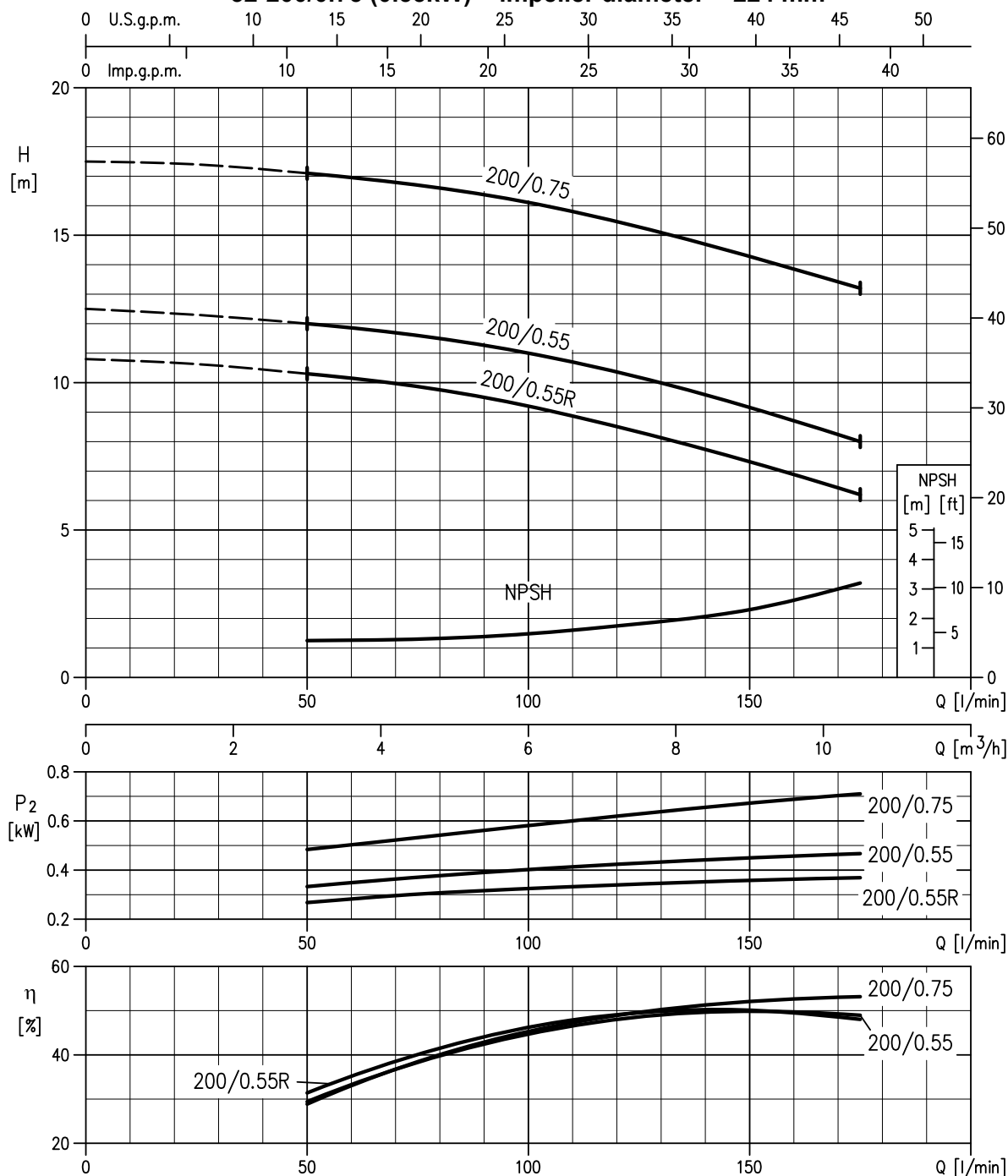
| SIZE   | MEI VALUE |       |       |
|--------|-----------|-------|-------|
|        | 3D4       | 3DS4  | 3DP4  |
| 32-125 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 32-160 | ≥ 0.6     | ≥ 0.6 | ≥ 0.5 |
| 32-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 40-125 | ≥ 0.6     | ≥ 0.6 | ≥ 0.5 |
| 40-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 40-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 50-125 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |
| 50-160 | ≥ 0.6     | ≥ 0.6 | ≥ 0.5 |
| 50-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 65-125 | ≥ 0.5     | ≥ 0.5 | ≥ 0.5 |
| 65-160 | ≥ 0.5     | ≥ 0.5 | ≥ 0.4 |
| 65-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |

**32-125/0.25 (0.25 kW) – impeller diameter = 133 mm**

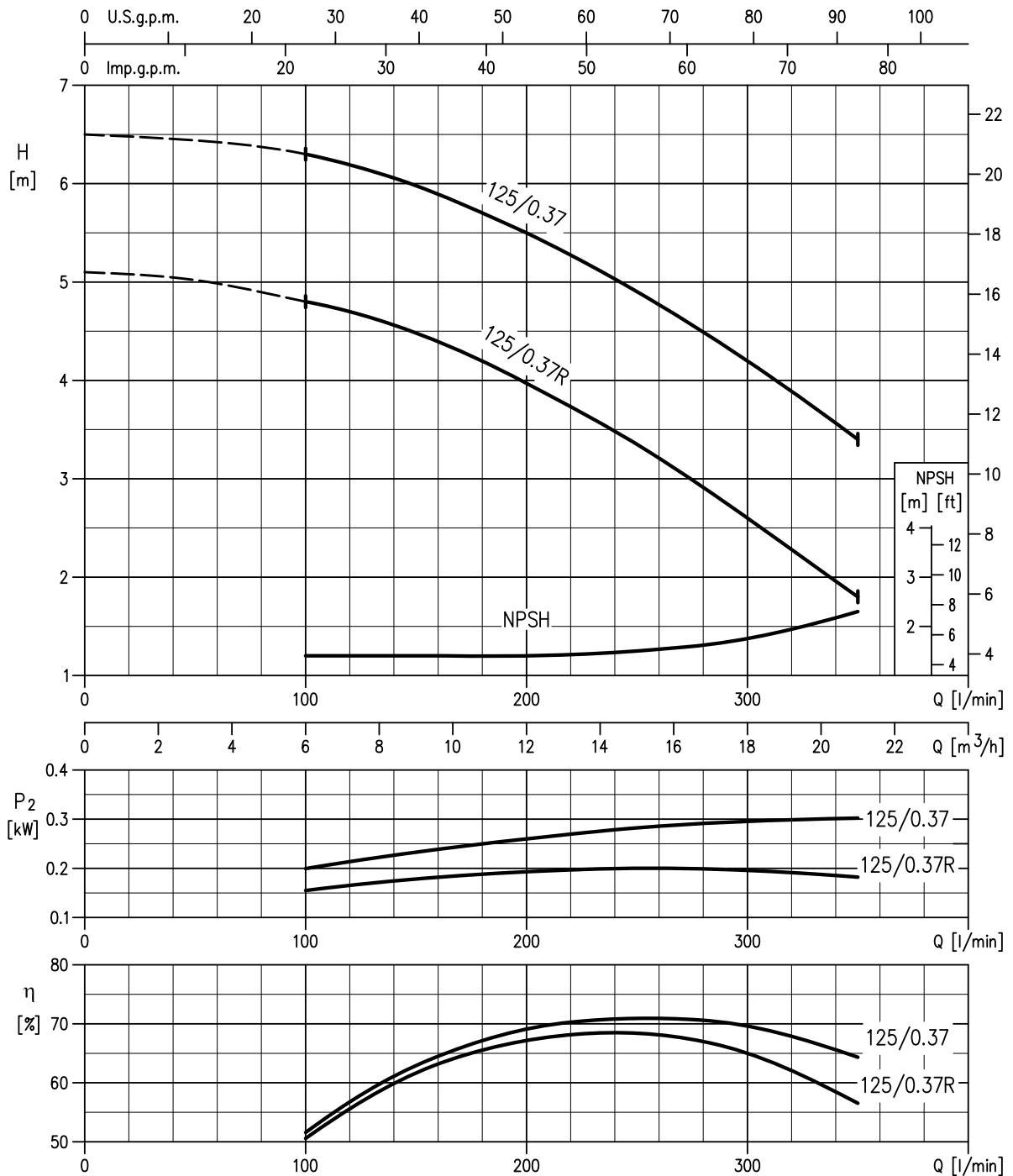
Rotation speed  $\approx 1400 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**32-160/0.37R (0.37kW) – impeller diameter = 151 mm****32-160/0.37 (0.37kW) – impeller diameter = 166 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

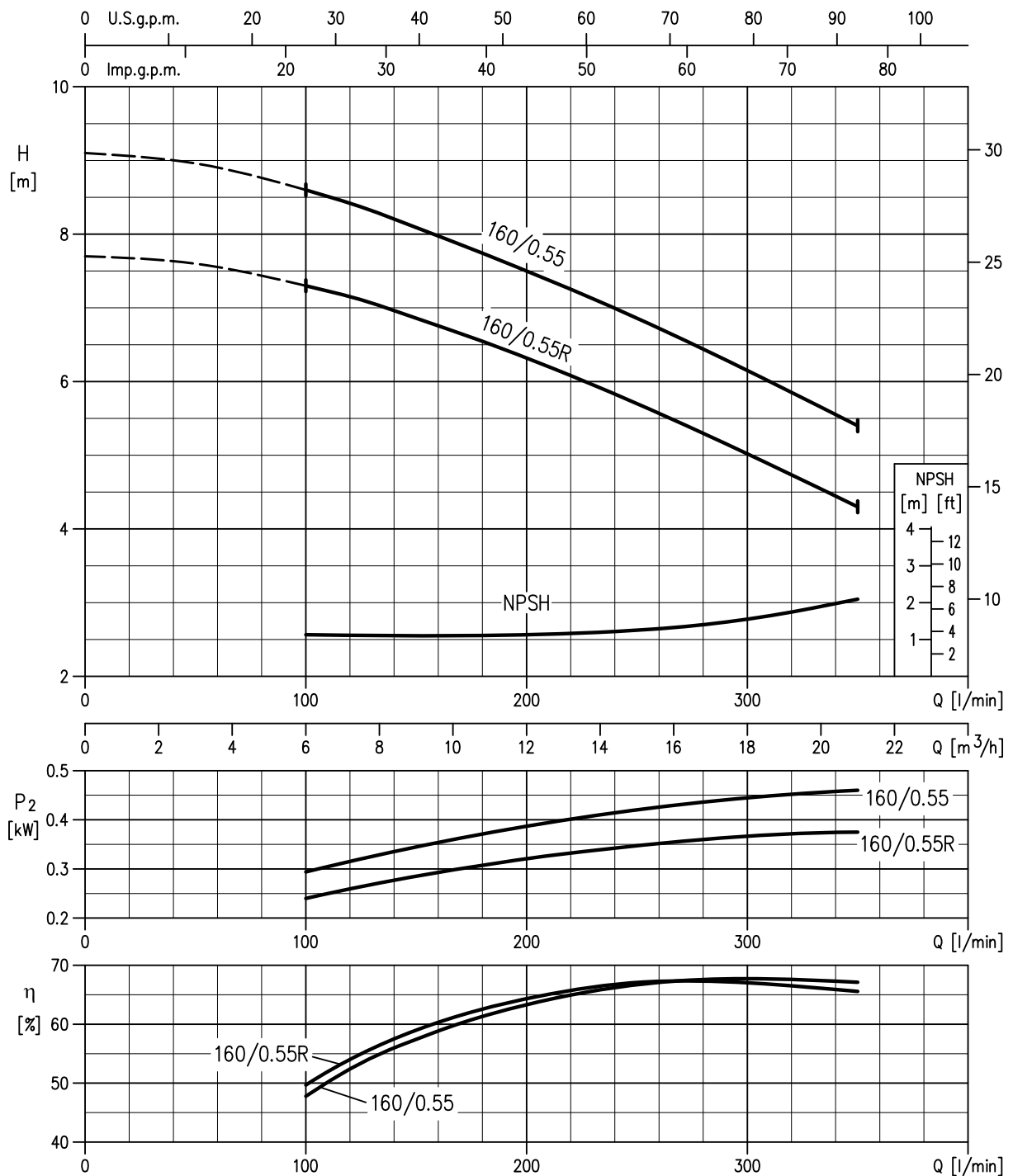
Test standard: ISO 9906:2012 - Grade 3B

**32-200/0.55R (0.55 kW) – impeller diameter = 186 mm****32-200/0.5 (0.55kW) – impeller diameter = 200 mm****32-200/0.75 (0.55kW) – impeller diameter = 224 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

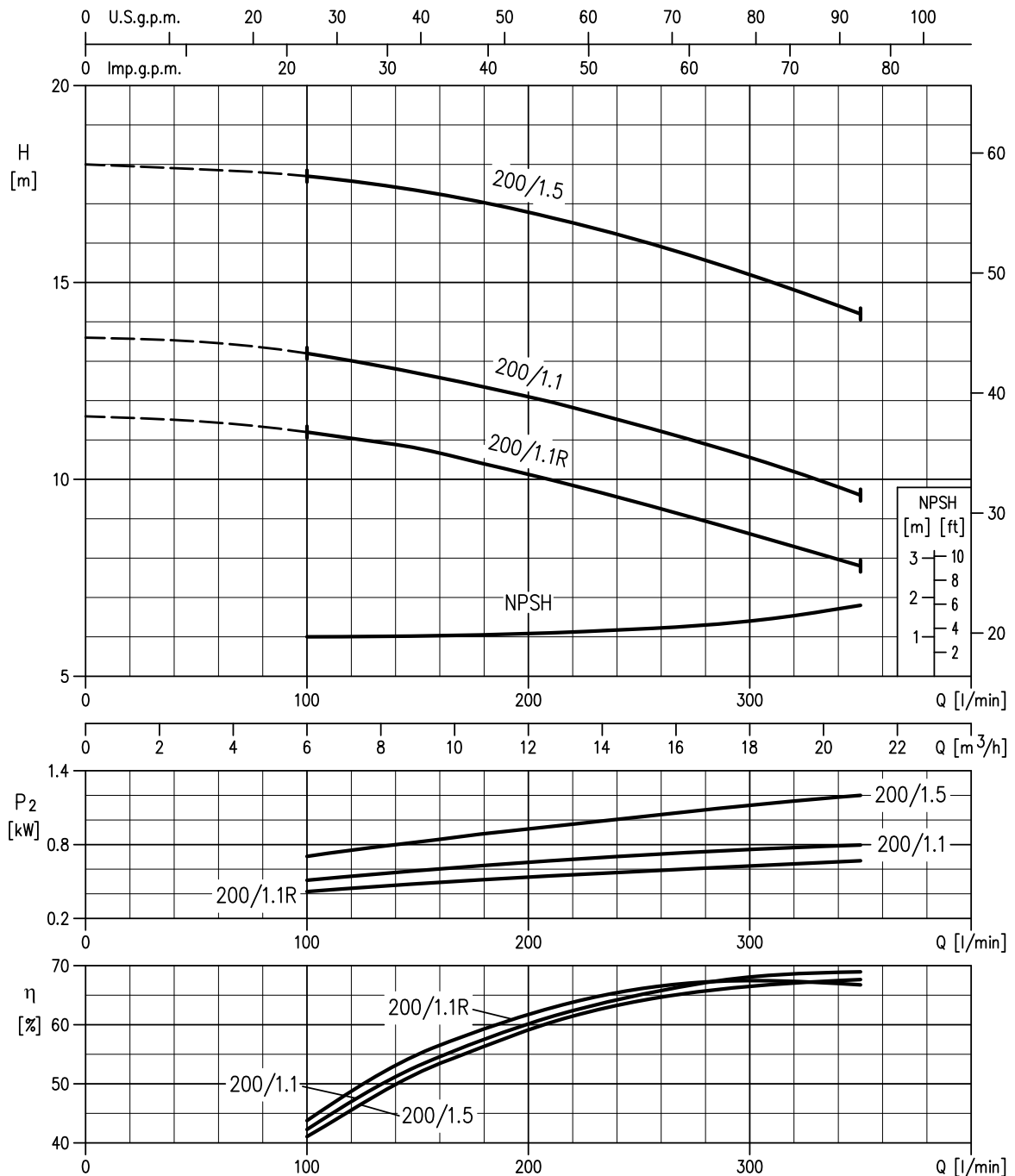
Test standard: ISO 9906:2012 - Grade 3B

**40-125/0.37R (0.37 kW) – impeller diameter = 125 mm****40-125/0.37 (0.37 kW) – impeller diameter = 140 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

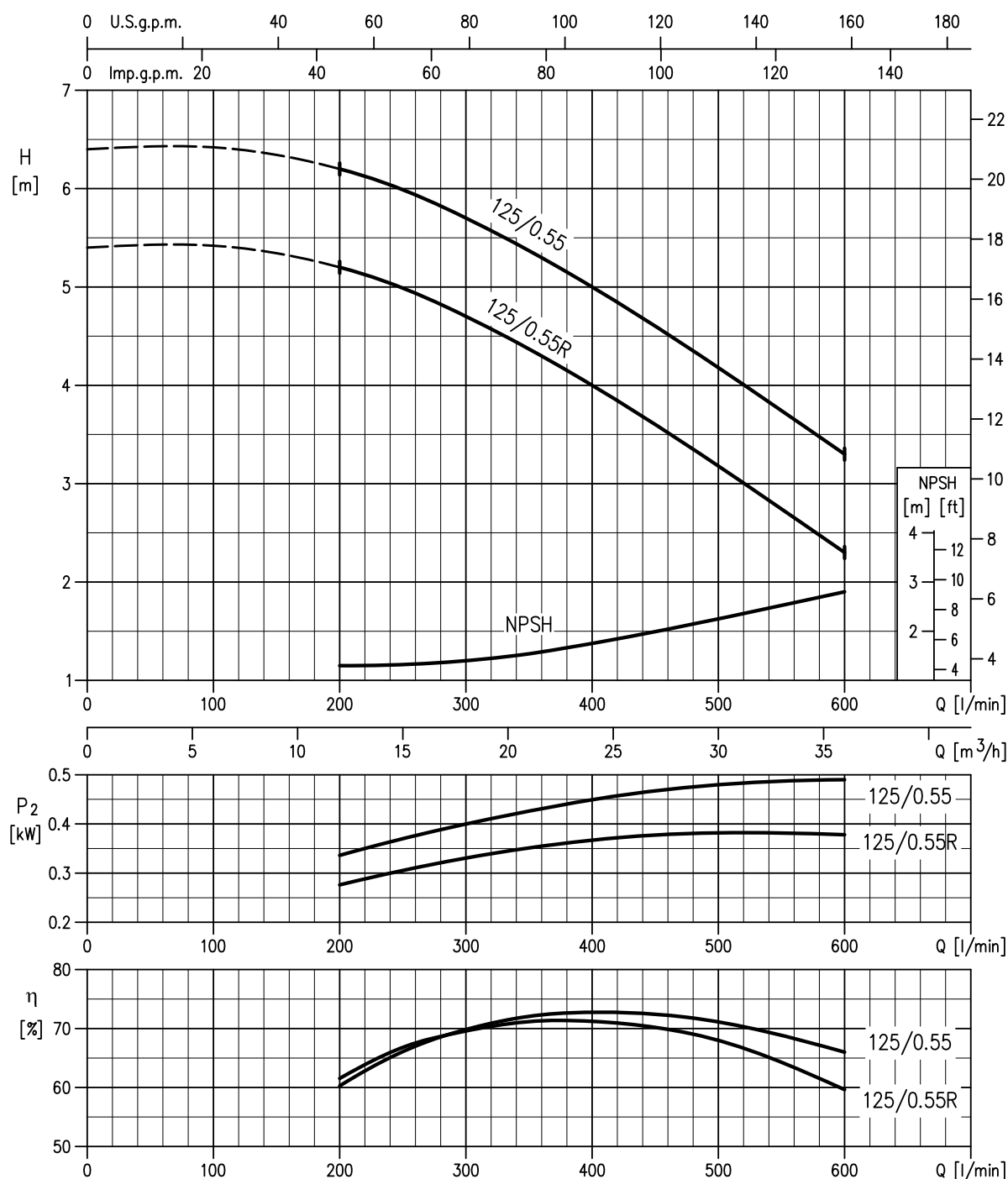
**40-160/0.55R (0.55 kW) – impeller diameter = 151 mm****40-160/0.55 (0.55 kW) – impeller diameter = 166 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

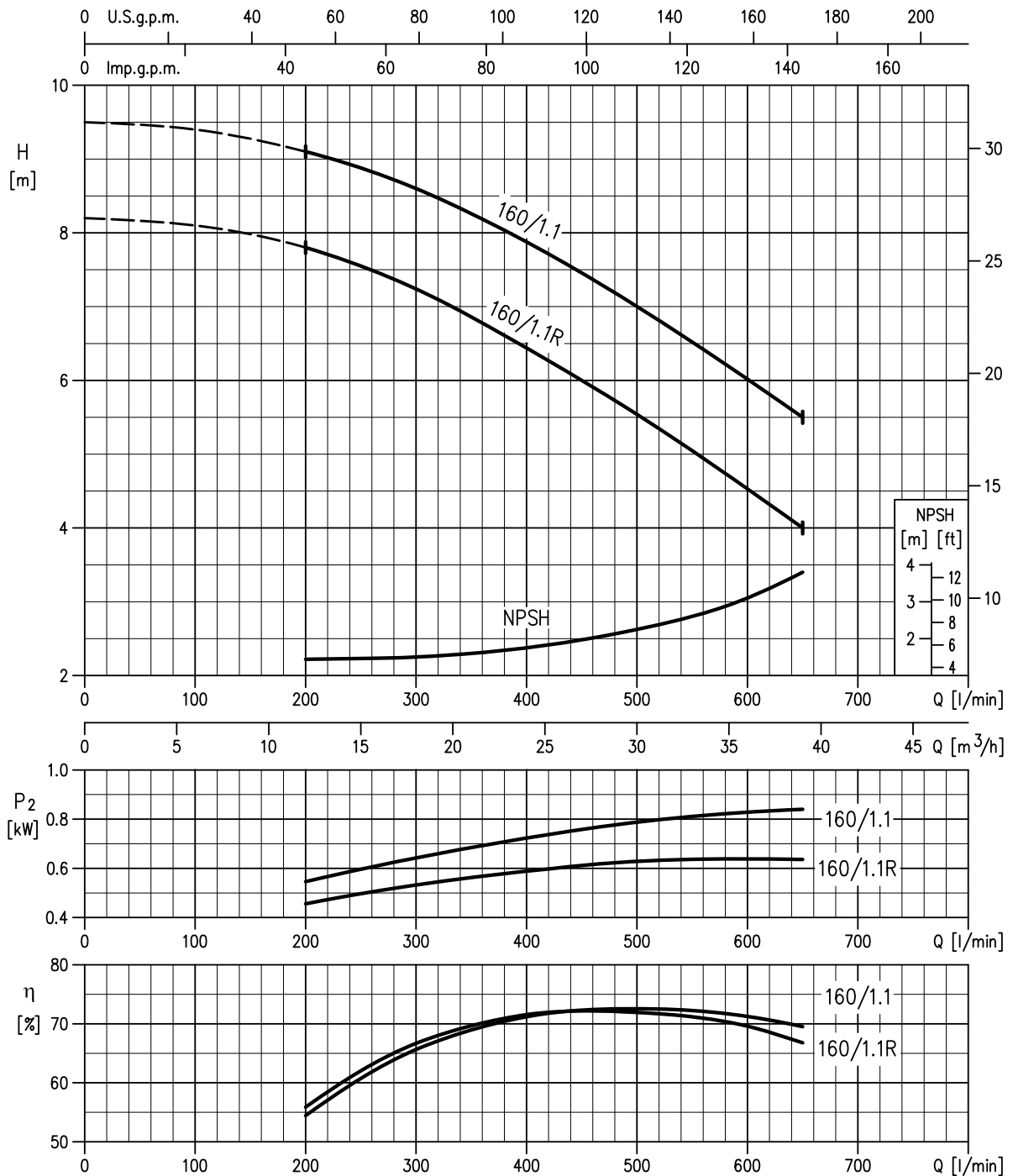
**40-200/1.1R (1.1 kW) – impeller diameter = 183 mm****40-200/1.1 (1.1 kW) – impeller diameter = 200 mm****40-200/1.5 (1.5 kW) – impeller diameter = 224 mm**

Rotation speed  $\approx 1400 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

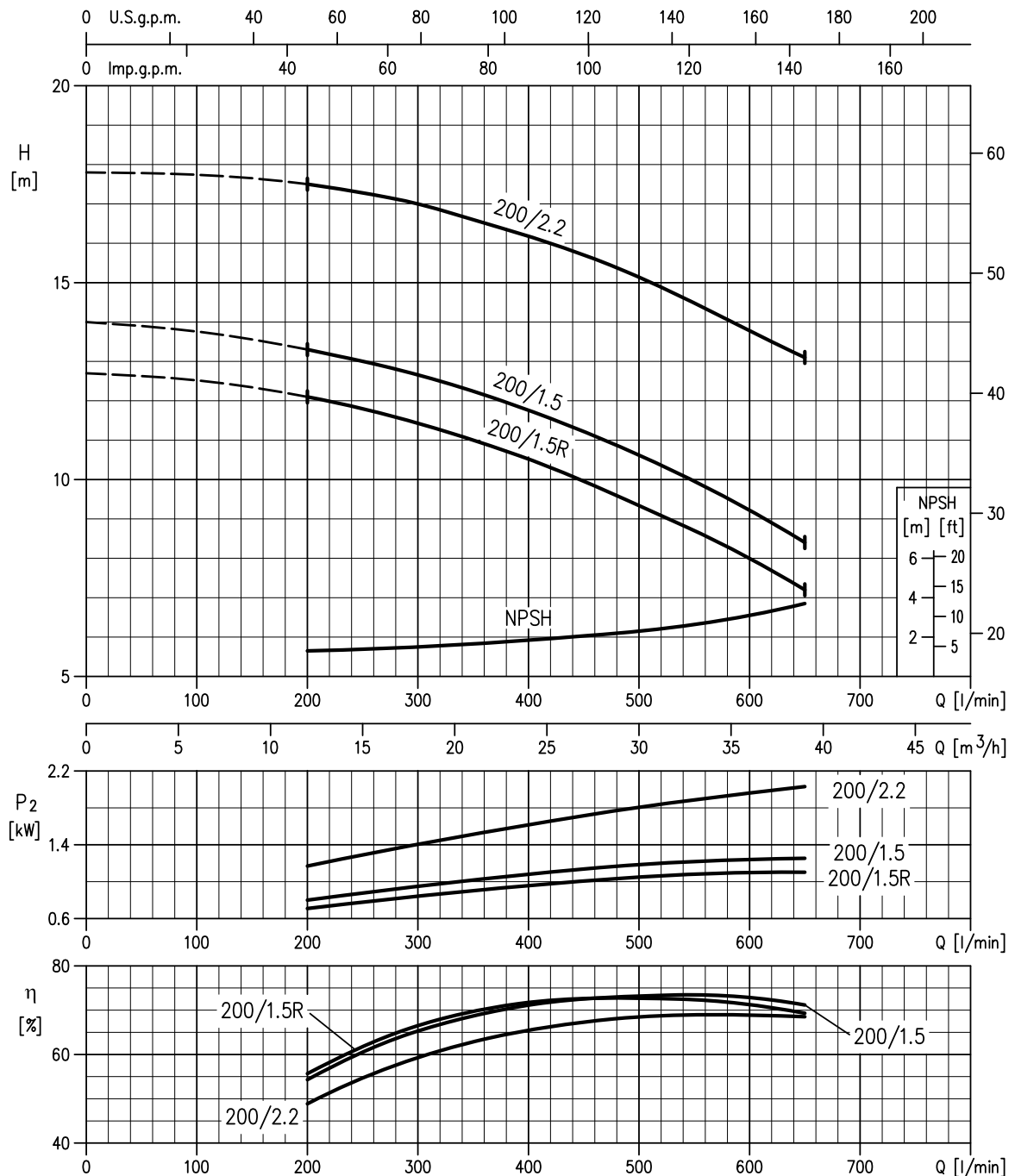


**50-125/0.55R (0.55 kW) – impeller diameter = 131 mm****50-125/0.55 (0.55 kW) – impeller diameter = 140 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

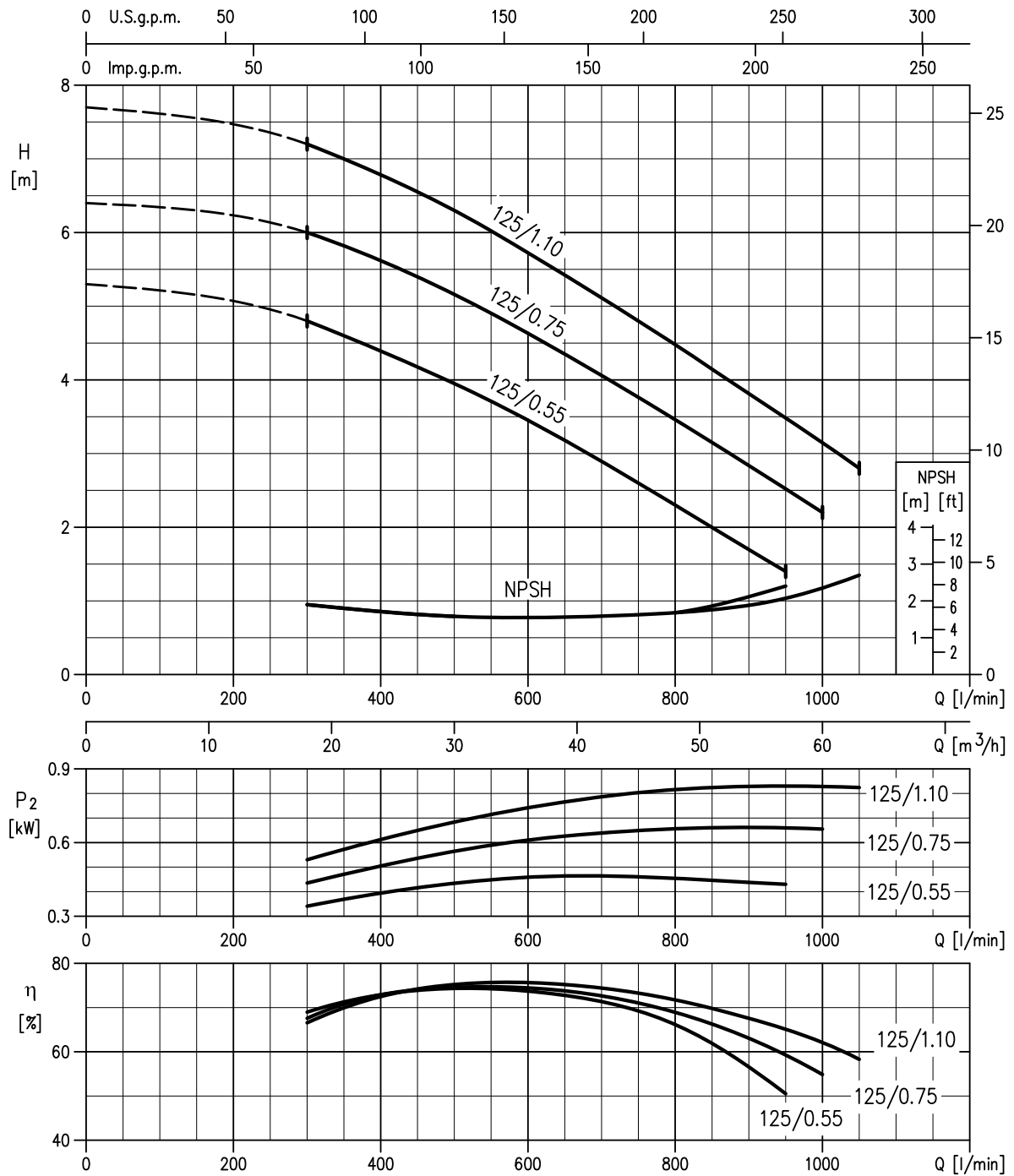
Test standard: ISO 9906:2012 - Grade 3B

**50-160/1.1R (1.1 kW) – impeller diameter = 154 mm****50-160/1.1 (1.1 kW) – impeller diameter = 166 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

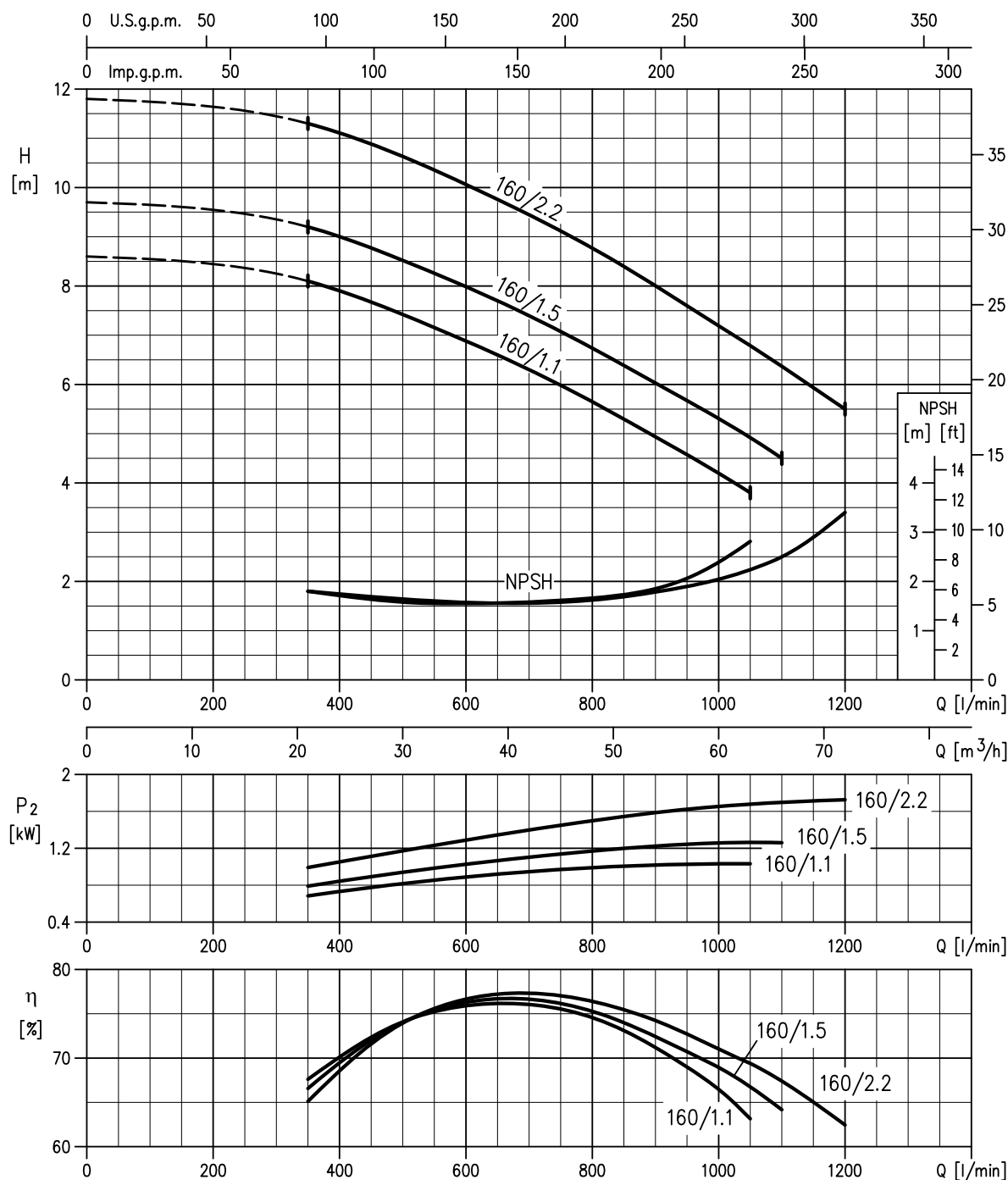
Test standard: ISO 9906:2012 - Grade 3B

**50-200/1.5R (1.5 kW) – impeller diameter = 191 mm****50-200/1.5 (1.5 kW) – impeller diameter = 200 mm****50-200/2.2 (2.2 kW) – impeller diameter = 224 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

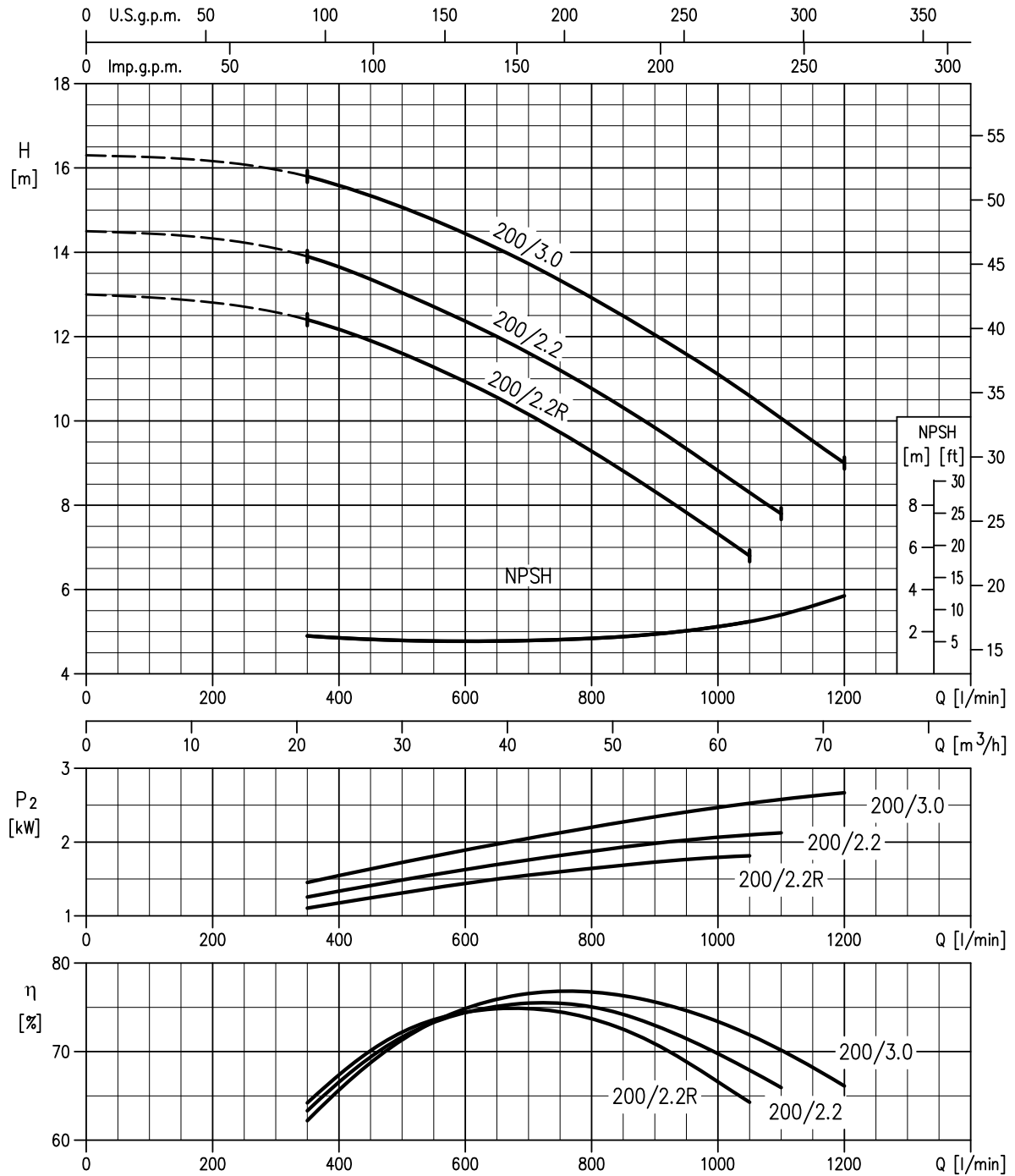
Test standard: ISO 9906:2012 - Grade 3B

**65-125/0.55 (0.55 kW) – impeller diameter = 128 mm****65-125/0.75 (0.75 kW) – impeller diameter = 138 mm****65-125/1.1 (1.1 kW) – impeller diameter = 149 mm**

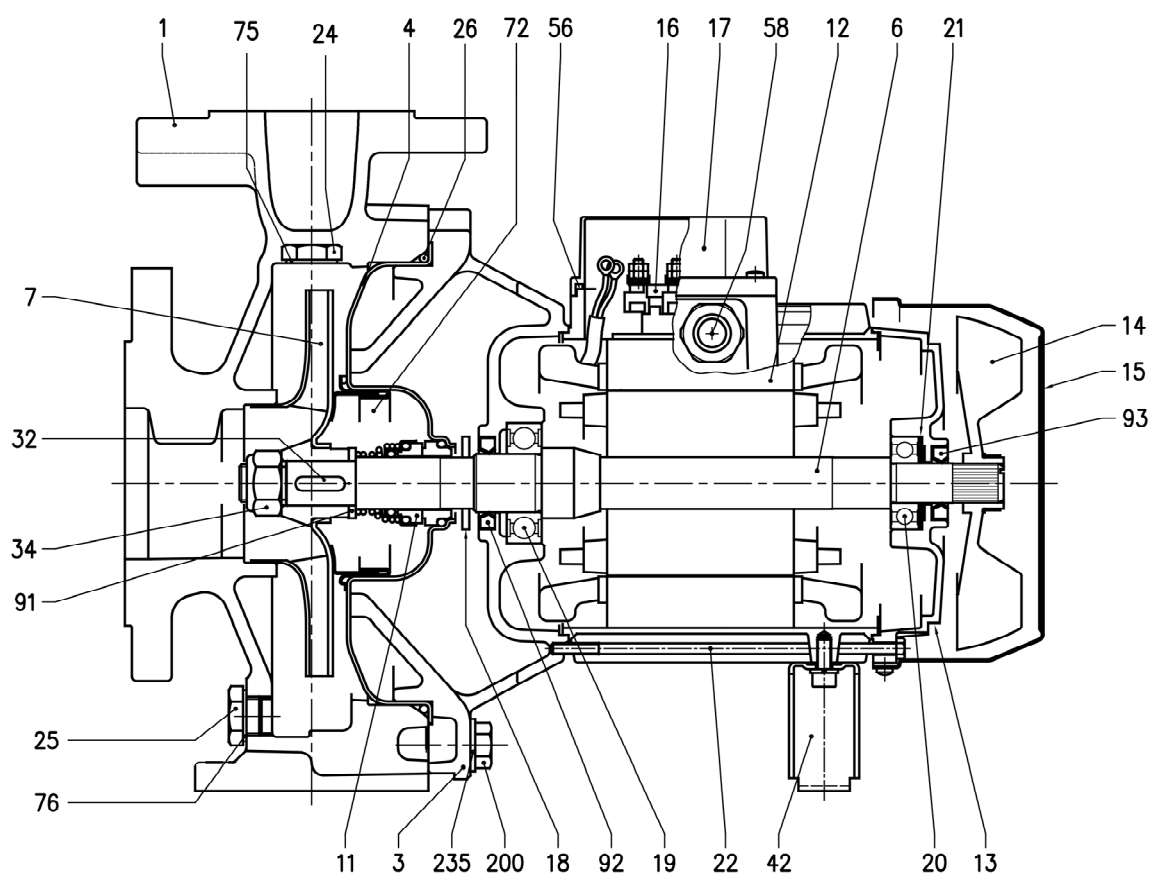
Rotation speed  $\approx 1400 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**65-160/1.1 (1.1 kW) – impeller diameter = 161 mm****65-160/1.5 (1.5 kW) – impeller diameter = 168 mm****65-160/2.2 (2.2 kW) – impeller diameter = 178 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

**65-200/2.2R (2.2 kW) – impeller diameter = 190 mm****65-200/2.2 (2.2 kW) – impeller diameter = 201 mm****65-200/3.0 (3.0 kW) – impeller diameter = 212 mm**Rotation speed  $\approx 1400 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

**3D4 SECTIONAL VIEW DRAWING**

## 3D4 SECTIONAL VIEW TABLE

| N°  | PART NAME                        |                                                | MATERIAL                               | DIMENSIONS       | STANDARD                | Q.TY |
|-----|----------------------------------|------------------------------------------------|----------------------------------------|------------------|-------------------------|------|
| 001 | Casing                           |                                                | Cast iron EN-GJL-250-EN 1561           |                  |                         | 1    |
| 003 | Motor bracket                    |                                                | [1]                                    |                  |                         | 1    |
| 004 | Casing cover                     |                                                | EN 1.4301 (AISI 304)                   |                  |                         | 1    |
| 006 | Shaft with rotor - Wet extension |                                                | EN 1.4301 (AISI 304)                   |                  |                         | 1    |
| 007 | Impeller                         |                                                | [2]                                    |                  |                         | 1    |
| 011 | Mechanical seal                  |                                                | [3]                                    | [3]              |                         | 1    |
| 012 | Motor frame with stator          |                                                | -                                      |                  |                         | 1    |
| 013 | Motor cover                      |                                                | Aluminium                              |                  |                         | 1    |
| 014 | Fan                              |                                                | PA                                     |                  |                         | 1    |
| 015 | Fan cover                        |                                                | Fe P04 Galvanized                      |                  |                         | 1    |
| 016 | Terminal                         |                                                | -                                      |                  |                         | 1    |
| 017 | Terminal box cover               |                                                | Aluminium (three phase version)        |                  |                         | 1    |
| 018 | Splash ring                      |                                                | NBR                                    | 40x21.5x2        | EBARA DRAWING           | 1    |
| 019 | Bearing                          |                                                | -                                      | See table p. 307 |                         | 1    |
| 020 | Bearing                          |                                                | -                                      | See table p. 307 |                         | 1    |
| 021 | Adjusting ring                   |                                                | Steel C70                              |                  |                         | 1    |
| 022 | Tie rod                          |                                                | Fe 42 Galvanized                       | M5               | EBARA DRAWING           | 4    |
| 24  | Priming plug                     |                                                | Brass                                  | G 3/8" L=8       |                         | 1    |
| 25  | Draining plug                    |                                                | Brass                                  | G 3/8" L=8       |                         | 1    |
| 026 | "O" ring                         | 32-125, 40-125                                 | NBR [4]                                | 158.11x5.34      | OR 6625                 | 1    |
|     |                                  | 32-160, 40-160, 50-125, 65-125                 |                                        | 183.52x5.34      | OR 6720                 |      |
|     |                                  | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 |                                        | 227.96x5.34      | OR 6895                 |      |
|     |                                  |                                                |                                        |                  |                         |      |
| 032 | Key                              |                                                | EN 1.4401 (AISI 316)                   | A 6x6x25         | UNI 6604                | 1    |
| 034 | Impeller nut                     | Other models                                   | EN 1.4301 (AISI 304)                   | M16x1.5          | UNI 7474                | 1    |
|     |                                  | 50-200/2.2                                     |                                        | M18x1.5          |                         |      |
| 042 | Foot                             |                                                | Aluminium / Galvanized steel           |                  | EBARA DRAWING           | 1    |
| 056 | Box gasket                       |                                                | NBR                                    |                  |                         | 1    |
| 058 | Cable gland                      |                                                | -                                      |                  |                         | 1    |
| 072 | Casing ring [5]                  |                                                | EN 1.4301 (AISI 304)                   |                  |                         | 1    |
| 075 | Washer                           |                                                | Aluminum                               | 22x17x1.5        | EBARA DRAWING           | 1    |
| 076 | Washer                           |                                                | Aluminum                               |                  |                         |      |
| 091 | Impeller spacer [6]              |                                                | EN 1.4401 (AISI 316)                   |                  |                         | 1    |
| 092 | Lip seal                         | Up to 1.5 kW                                   | -                                      | 25x40x7          | DIN 3760 without spring | 1    |
|     |                                  | From 2.2 to 3 kW                               |                                        | 30x47X7          |                         |      |
| 093 | Lip seal                         | For 0.25 kW                                    | -                                      | 15x30x5          | DIN 3760 without spring | 1    |
|     |                                  | For 0.37 kW and 0.55 kW                        |                                        | 17x32x7          |                         |      |
|     |                                  | From 0.75 kW to 3 kW                           |                                        | 25x40x7          |                         |      |
| 200 | Screw                            | 32-125                                         | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30           | UNI 5739                | 8    |
|     |                                  | 40-125                                         |                                        |                  |                         |      |
|     |                                  | 32-160                                         |                                        |                  |                         |      |
|     |                                  | 40-160                                         |                                        |                  |                         |      |
|     |                                  | 50-125                                         |                                        |                  |                         | 10   |
|     |                                  | 65-125                                         |                                        |                  |                         |      |
| 235 | Washer                           | 32-200, 40-200                                 | Galvanized Steel                       |                  | UNI 6592                |      |
|     |                                  | 50-160, 50-200                                 |                                        |                  |                         |      |
|     |                                  | 65-160, 65-200                                 |                                        |                  |                         |      |
|     |                                  | 32-125                                         |                                        | 8.4x17           |                         | 8    |
|     |                                  | 40-125                                         |                                        |                  |                         |      |
|     |                                  | 32-160                                         |                                        |                  |                         |      |
|     |                                  | 40-160                                         |                                        |                  |                         | 10   |
|     |                                  | 50-125                                         |                                        |                  |                         |      |
|     |                                  | 65-125                                         |                                        |                  |                         |      |
|     |                                  | 32-200, 40-200                                 |                                        | 10.5x21          |                         | 12   |
|     |                                  | 50-160, 50-200                                 |                                        |                  |                         |      |
|     |                                  | 65-160, 65-200                                 |                                        |                  |                         |      |

Counterflange kit on request see p. 311

[1] Aluminum AL-EN-1706-AC-46000-D for 3D4 50-200/2.2; 65-125/0.75 and 1.1; 65-160/2.2; 65-200/2.2 and 3 kW

Cast iron EN-GJL-200-EN 1561 for all the others;

[2] EN 1.4301 (AISI 304) for 32, 40, 50 series;

EN 1.4401 (AISI 316) for 65 series

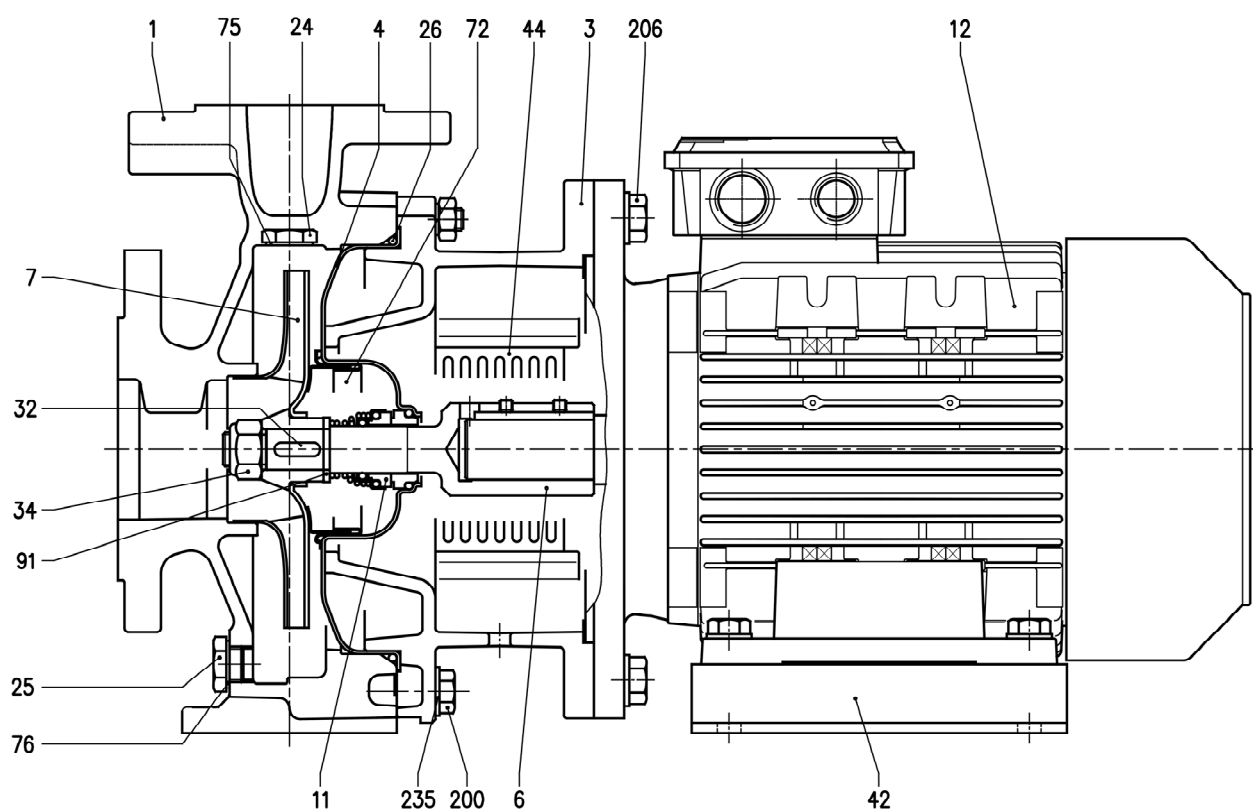
[3] For special version and dimensions see pag. 306

[4] FPM for H, HS, HW, HSW version; EPDM for E version

[5] Only for: 32-200, 40-200, 50-160, 50-200

[6] Only for 32-125/0.25



**3DS4 SECTIONAL VIEW DRAWING**

## 3DS4 SECTIONAL VIEW TABLE

| N°  | PART NAME                 |                                               | MATERIAL                                         | DIMENSIONS       | STANDARD      | Q.TY |  |
|-----|---------------------------|-----------------------------------------------|--------------------------------------------------|------------------|---------------|------|--|
| 1   | Casing                    |                                               | Cast iron EN-GJL-250-EN 1561                     |                  |               | 1    |  |
| 3   | Motor bracket             |                                               | Cast iron EN-GJL-200-EN 1561                     |                  |               | 1    |  |
| 4   | Casing cover              |                                               | EN 1.4301 (AISI 304)                             |                  |               | 1    |  |
| 6   | Coupling - Wet extensions |                                               | EN 1.4301 (AISI 304)                             | See table p. 309 |               | 1    |  |
| 7   | Impeller                  |                                               | [1]                                              |                  |               | 1    |  |
| 11  | Mechanical seal           |                                               | [2]                                              | [2]              |               | 1    |  |
| 12  | Motor                     |                                               | -                                                |                  |               | 1    |  |
| 24  | Priming plug              |                                               | Brass                                            | G 3/8" L=8       |               | 1    |  |
| 25  | Draing plug               |                                               | Brass                                            | G 3/8" L=8       |               | 1    |  |
| 26  | "O" ring                  | 32-12540-125                                  | NBR [3]                                          | 158.11x5.34      | OR 6625       | 1    |  |
|     |                           | 32-160, 40-160, 50-125, 65-125                |                                                  | 183.52x5.34      | OR 6720       |      |  |
|     |                           | 32-200, 40-200,50-160, 50-200, 65-160, 65-200 |                                                  | 227.96x5.34      | OR 6895       |      |  |
|     |                           |                                               |                                                  |                  |               |      |  |
| 32  | Key                       |                                               | EN 1.4401 (AISI 316)                             | 6x6x25           | UNI 6604      | 1    |  |
| 34  | Impeller nut              | Other models                                  | EN 1.4301 (AISI 304)                             | M16x1.5          | UNI 7474      | 1    |  |
|     |                           | 50-200/2.2                                    |                                                  | M18x1.5          |               |      |  |
| 42  | Foot                      |                                               | Galvanized Steel                                 |                  |               | 1    |  |
| 44  | Protection                |                                               | EN 1.4301 (AISI 304)                             |                  | EBARA DRAWING | 1    |  |
| 72  | Casing ring [4]           |                                               | EN 1.4301 (AISI 304)                             |                  |               | 1    |  |
| 75  | Washer                    |                                               | Aluminum                                         | 22x17x1.5        | EBARA DRAWING | 1    |  |
| 76  | Washer                    |                                               | Aluminum                                         |                  |               | 1    |  |
| 91  | Impeller spacer [5]       |                                               | EN 1.4401 (AISI 316)                             |                  |               | 1    |  |
| 200 | Screw                     | 32-125                                        | Galvanized Steel<br>8.8 strenght class ISO 898-1 | M8x30            | UNI 5739      | 8    |  |
|     |                           | 40-125                                        |                                                  | M10x35           |               |      |  |
|     |                           | 32-160                                        |                                                  |                  |               |      |  |
|     |                           | 40-160                                        |                                                  |                  |               |      |  |
|     |                           | 50-125                                        |                                                  |                  |               |      |  |
|     |                           | 65-125                                        |                                                  |                  |               |      |  |
|     |                           | 32-200, 40-200                                |                                                  |                  |               |      |  |
|     |                           | 50-160, 50-200                                |                                                  |                  |               |      |  |
|     |                           | 65-160, 65-200                                |                                                  |                  |               | 12   |  |
|     |                           |                                               |                                                  |                  |               |      |  |
|     |                           |                                               |                                                  |                  |               |      |  |
|     |                           |                                               |                                                  |                  |               |      |  |
| 206 | Screw for bracket         | up to 0.37 kW                                 | Galvanized Steel<br>8.8 strenght class ISO 898-1 | M8x20            | UNI 5739      | 4    |  |
|     |                           | from 0.55 kW to 1.5 kW                        |                                                  | M10x25           |               |      |  |
|     |                           | for 2.2 kW and 3 kW                           |                                                  | M12x30           |               |      |  |
| 235 | Washer                    | 32-125                                        | Galvanized Steel                                 | 8.4x17           | UNI 6592      | 8    |  |
|     |                           | 40-125                                        |                                                  | 10.5x21          |               |      |  |
|     |                           | 32-160                                        |                                                  |                  |               |      |  |
|     |                           | 40-160                                        |                                                  |                  |               |      |  |
|     |                           | 50-125                                        |                                                  |                  |               | 10   |  |
|     |                           | 65-125                                        |                                                  |                  |               |      |  |
|     |                           | 32-200, 40-200                                |                                                  |                  |               |      |  |
|     |                           | 50-160, 50-200                                |                                                  |                  |               |      |  |
|     |                           | 65-160, 65-200                                |                                                  |                  |               | 12   |  |
|     |                           |                                               |                                                  |                  |               |      |  |

Counterflange kit on request see p. 311

[1] EN 1.4301 (AISI 304) for 32, 40, 50 series;  
EN 1.4401 (AISI 316) for 65 series

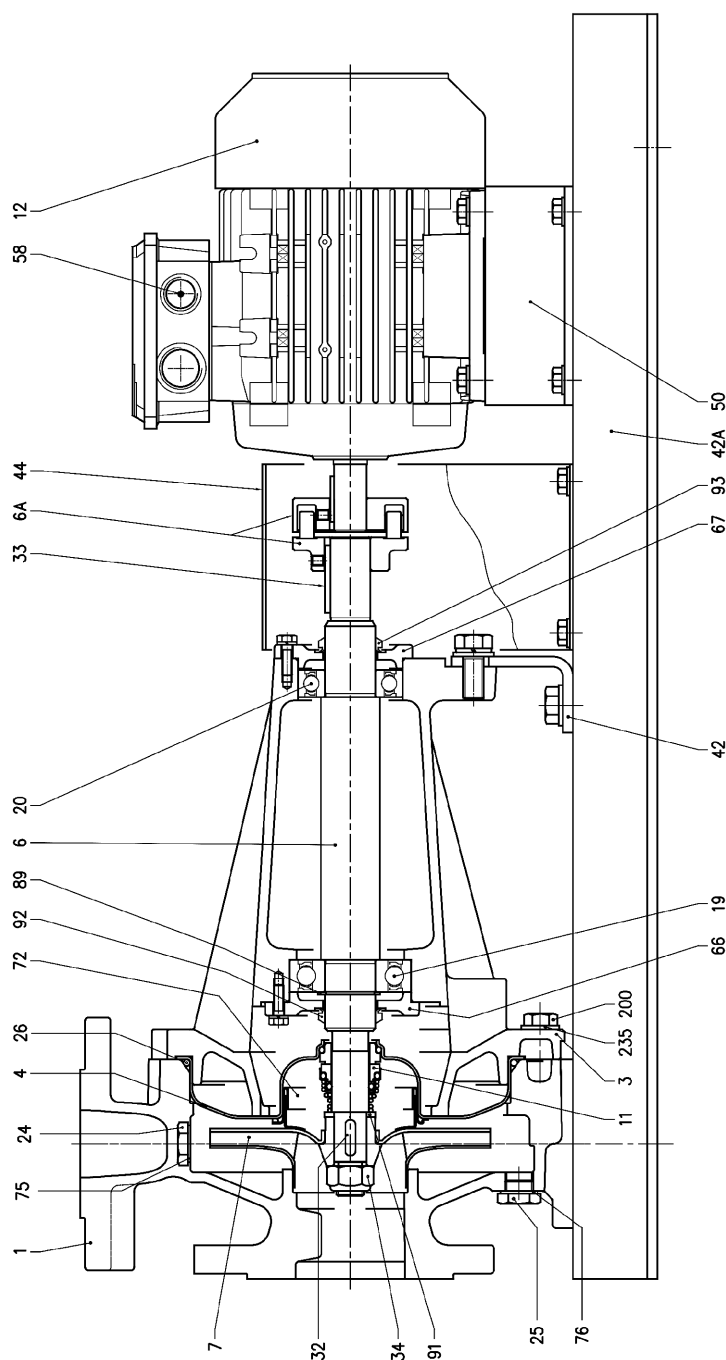
[2] See pag. 306

[3] FPM for H, HS, HW, HSW version;  
EPDM for E version

[4] Only for: 32-200, 40-200, 50-160, 50-200

[5] Only for 32-125/0.25

### 3DP4 SECTIONAL VIEW DRAWING



## 3DP4 SECTIONAL VIEW TABLE

| N°   | PART NAME                   |                                                | MATERIAL                               | DIMENSIONS       | STANDARD      | Q.TY |
|------|-----------------------------|------------------------------------------------|----------------------------------------|------------------|---------------|------|
| 1    | Casing                      |                                                | Cast iron EN-GJL-250-EN 1561           |                  |               | 1    |
| 3    | Support                     |                                                | Cast iron EN-GJL-200-EN 1561           |                  |               | 1    |
| 4    | Casing cover                |                                                | EN 1.4301 (AISI 304)                   |                  |               | 1    |
| 6    | Shaft - Wet extension       |                                                | EN 1.4301 (AISI 304)                   |                  |               | 1    |
| 006A | Flexible coupling           |                                                | Cast iron EN-GJL-250-EN 1561           | See table p. 310 |               | 1    |
| 7    | Impeller                    |                                                | [1]                                    |                  |               | 1    |
| 11   | Mechanical seal             |                                                | [2]                                    | [2]              |               | 1    |
| 12   | Motor                       |                                                | -                                      |                  |               | 1    |
| 19   | Bearing                     |                                                | -                                      | See table p. 308 |               | 1    |
| 20   | Bearing                     |                                                | -                                      | See table p. 308 |               | 1    |
| 24   | Priming plug                |                                                | Brass                                  | G 3/8" L=8       | DIN 906       | 1    |
| 25   | Draining plug               |                                                | Brass                                  | G 3/8" L=8       | DIN 906       | 1    |
| 26   | "O" ring                    | 32-125, 40-125                                 | NBR [3]                                | 158.11x5.34      | OR 6625       | 1    |
|      |                             | 32-160, 40-160, 50-125, 65-125                 |                                        | 183.52x5.34      | OR 6720       |      |
|      |                             | 32-200, 40-200, 50-160, 50-200, 65-160, 65-200 |                                        | 227.96x5.34      | OR 6895       |      |
|      |                             |                                                |                                        |                  |               |      |
| 32   | Key                         |                                                | EN 1.4401 (AISI 316)                   | 6x6x25           | UNI 6604      | 1    |
| 33   | Key                         |                                                | C 40                                   | 8x7x40           | UNI 6604      | 1    |
| 34   | Impeller nut                | Other models                                   | EN 1.4301 (AISI 304)                   | M16x1.5          | UNI 7474      | 1    |
|      |                             | 50-200/2.2                                     |                                        | M18x1.5          |               |      |
| 42   | Pump support                |                                                | Fe 37 Galvanized                       |                  | EBARA DRAWING | 1    |
| 042A | Base                        |                                                | Fe 37 Galvanized                       |                  |               | 1    |
| 44   | Protection                  |                                                | Fe 37 Galvanized                       |                  |               | 1    |
| 50   | Foot                        |                                                | Aluminium / Galvanized steel           |                  |               | 1    |
| 58   | Cable gland                 |                                                | -                                      |                  |               | 1    |
| 66   | Impeller side bearing cover |                                                | Cast iron EN-GJL-200-EN 1561           |                  |               | 1    |
| 67   | Motor side bearing cover    |                                                | Cast iron EN-GJL-200-EN 1561           |                  |               | 1    |
| 72   | Casing ring [4]             |                                                | EN 1.4301 (AISI 304)                   |                  |               | 1    |
| 75   | Washer                      |                                                | Aluminum                               | 22x17x1.5        | EBARA DRAWING | 1    |
| 76   | Washer                      |                                                | Aluminum                               | 22x17x1.5        | EBARA DRAWING | 1    |
| 89   | Snap ring                   | 32-125, 32-160                                 | Carbon tool steel TC 80                | Ø30              | UNI 7435      | 1    |
|      |                             | 40-125                                         |                                        |                  |               |      |
|      |                             | 50-125                                         |                                        |                  |               |      |
|      |                             | Other models                                   |                                        | Ø40              |               |      |
| 91   | Impeller spacer [5]         |                                                | EN 1.4401 (AISI 316)                   |                  |               | 1    |
| 92   | "V" ring                    |                                                | -                                      | VS - 0030        |               | 1    |
| 93   | "V" ring                    |                                                | -                                      | VS - 0030        |               | 1    |
| 200  | Screw                       | 32-125                                         | Gv. Steel 8.8 strenght class ISO 898-1 | M 8x30           | UNI 5739      | 8    |
|      |                             | 40-125                                         |                                        |                  |               |      |
|      |                             | 32-160                                         |                                        |                  |               |      |
|      |                             | 40-160                                         |                                        |                  |               |      |
|      |                             | 50-125                                         |                                        |                  |               |      |
|      |                             | 65-125                                         |                                        |                  |               |      |
| 235  | Washer                      | 32-200, 40-200                                 | Galvanized Steel                       | M 10x35          | UNI 5739      | 10   |
|      |                             | 50-160, 50-200                                 |                                        |                  |               |      |
|      |                             | 65-160, 65-200                                 |                                        |                  |               |      |
|      |                             |                                                |                                        |                  |               |      |
|      |                             |                                                |                                        |                  |               |      |
|      |                             |                                                |                                        |                  |               |      |
| 235  | Washer                      | 32-125                                         | Galvanized Steel                       | 8.4x17           | UNI 6592      | 8    |
|      |                             | 40-125                                         |                                        |                  |               |      |
|      |                             | 32-160                                         |                                        |                  |               |      |
|      |                             | 40-160                                         |                                        |                  |               |      |
|      |                             | 50-125                                         |                                        |                  |               |      |
|      |                             | 65-125                                         |                                        |                  |               |      |
| 235  | Washer                      | 32-200, 40-200                                 | Galvanized Steel                       | 10.5x21          | UNI 6592      | 10   |
|      |                             | 50-160, 50-200                                 |                                        |                  |               |      |
|      |                             | 65-160, 65-200                                 |                                        |                  |               |      |
|      |                             |                                                |                                        |                  |               |      |

Counterflange kit on request see p. 311

[1] EN 1.4301 (AISI 304) for 32, 40, 50 series;

EN 1.4401 (AISI 316) for 65 series

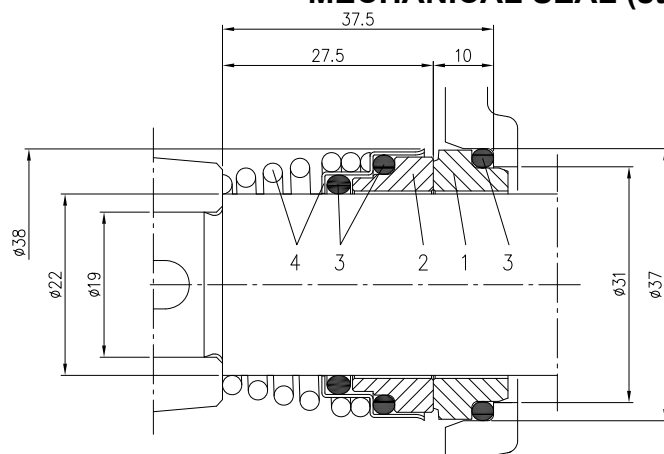
[2] See pag. 306

[3] FPM for H, HS, HW, HSW version;

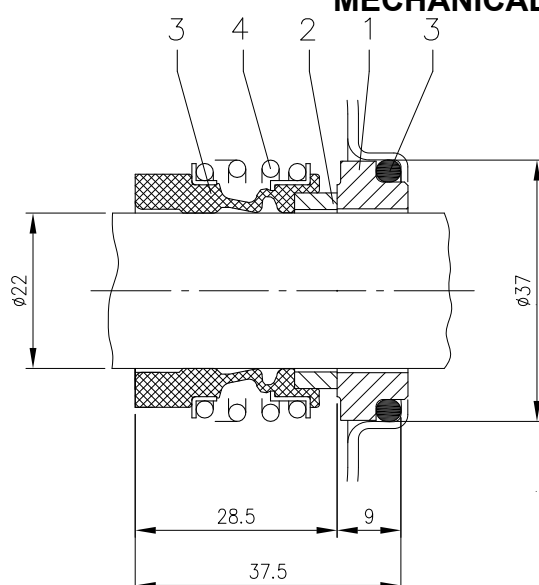
EPDM for E version

[4] Only for: 32-200, 40-200, 50-160, 50-200

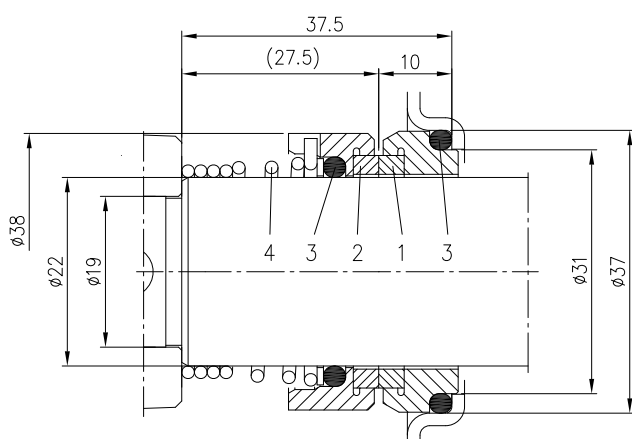
[5] Only for 32-125/0.25

**MECHANICAL SEAL (standard, H, and E version)**

| Version  | Material                     |                          |             |                         |
|----------|------------------------------|--------------------------|-------------|-------------------------|
|          | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| Standard | Carbon                       | Ceramic                  | NBR         | EN 1.4401<br>(AISI 316) |
| H        | Carbon                       | Ceramic                  | FPM         | EN 1.4401<br>(AISI 316) |
| E        | Carbon                       | Ceramic                  | EPDM        | EN 1.4401<br>(AISI 316) |

**MECHANICAL SEAL (HS version)**

| Version | Material                     |                          |             |                           |
|---------|------------------------------|--------------------------|-------------|---------------------------|
|         | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| HS      | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |

**MECHANICAL SEAL (HW and HSW version)**

| Version | Material                     |                          |             |                         |
|---------|------------------------------|--------------------------|-------------|-------------------------|
|         | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring  |
| HW      | Tungsten<br>Carbide          | Tungsten<br>Carbide      | FPM         | EN 1.4401<br>(AISI 316) |
| HSW     | Tungsten<br>Carbide          | SiC                      | FPM         | EN 1.4401<br>(AISI 316) |

**FLUID TEMPERATURE RANGE**

The maximum allowable temperature for the pumped fluid is a determining factor for the operational life of the pump. A primary role in this limitation is played by the materials of the mechanical seals (rings and elastomers), whose thermal resistance often defines the upper limit. The general construction materials of the pump (casing, impeller) and the lubricant used also contribute to defining the maximum temperature. Although the fluid properties and operating conditions have an impact, the choice of suitable seal materials for the operating temperature is crucial to prevent leaks and ensure the reliability of the pumping system.

To preserve optimal performance and prevent failures, we recommend to operate within the following limits:

| STANDARD<br>mechanical seal | TEMPERATURE |       |
|-----------------------------|-------------|-------|
|                             | MIN         | MAX   |
| STANDARD                    | -5 °C       | 90 °C |

| OPTIONAL<br>mechanical seal | TEMPERATURE |        |
|-----------------------------|-------------|--------|
|                             | MIN         | MAX    |
| H *                         | -5 °C       | 110 °C |
| HS *                        | -5 °C       | 110 °C |
| HW *                        | -5 °C       | 110 °C |
| HSW *                       | -5 °C       | 110 °C |
| E                           | -5 °C       | 120 °C |

\* in case the pumped fluid is water in combination to FPM elastomers, a maximum temperature fluid of 75°C is recommended in order to guarantee a longer life of the sealing parts

**3D4 – 3DS4 BEARINGS**

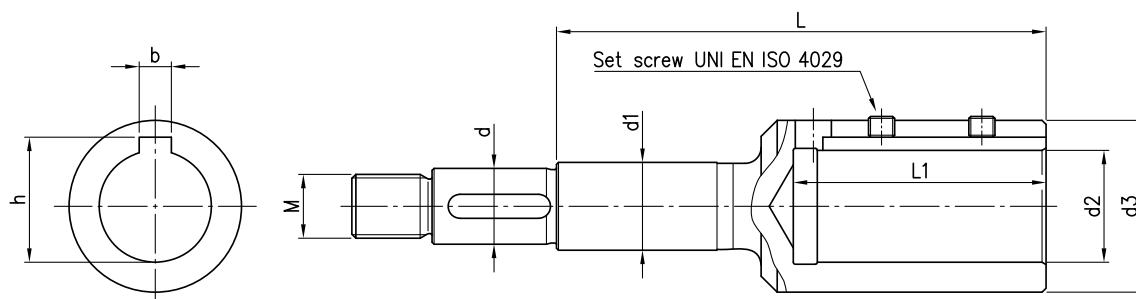
| <b>3D4</b>       |              |              |
|------------------|--------------|--------------|
| Pump type        | Ball bearing |              |
|                  | Pump side    | Fan side     |
| 3D4 32-125/0.25  | 6205-2DW C3  | 6202-2DW C3  |
| 3D4 32-160/0.37R |              | 6203-2DW C3  |
| 3D4 32-160/0.37  |              |              |
| 3D4 32-200/0.55R |              |              |
| 3D4 32-200/0.55  |              |              |
| 3D4 32-200/0.75  | 6205 - ZZ C3 | 6205 - ZZ C3 |
| 3D4 40-125/0.37R | 6205-2DW C3  | 6203-2DW C3  |
| 3D4 40-125/0.37  |              |              |
| 3D4 40-160/0.55R |              |              |
| 3D4 40-160/0.55  |              |              |
| 3D4 40-200/1.1R  | 6205 - ZZ C3 | 6205 - ZZ C3 |
| 3D4 40-200/1.1   |              |              |
| 3D4 40-200/1.5   |              |              |
| 3D4 50-125/0.55R | 6205-2DW C3  | 6203-2DW C3  |
| 3D4 50-125/0.55  | 6205 - ZZ C3 | 6205 - ZZ C3 |
| 3D4 50-160/1.1R  |              |              |
| 3D4 50-160/1.1   |              |              |
| 3D4 50-200/1.5R  |              |              |
| 3D4 50-200/1.5   | 6206 - ZZC3  | 6205 - ZZC3  |
| 3D4 50-200/2.2   |              |              |
| 3D4 65-125/0.55  | 6205-2DW C3  | 6203-2DW C3  |
| 3D4 65-125/0.75  | 6205 - ZZ C3 | 6205 - ZZ C3 |
| 3D4 65-125/1.1   |              |              |
| 3D4 65-160/1.1   |              |              |
| 3D4 65-160/1.5   |              |              |
| 3D4 65-160/2.2   | 6206 - ZZ C3 | 6205 - ZZ C3 |
| 3D4 65-200/2.2R  |              |              |
| 3D4 65-200/2.2   |              |              |
| 3D4 65-200/3.0   |              |              |

| <b>3DS4</b>       |              |            |
|-------------------|--------------|------------|
| Pump type         | Ball bearing |            |
|                   | Pump side    | Fan side   |
| 3DS4 32-125/0.25  | 6203-2Z      | 6203-2Z    |
| 3DS4 32-160/0.37R |              |            |
| 3DS4 32-160/0.37  |              |            |
| 3DS4 32-200/0.55R | 6204-2Z C3   | 6204-2Z C3 |
| 3DS4 32-200/0.55  |              |            |
| 3DS4 32-200/0.75  |              |            |
| 3DS4 40-125/0.37R | 6203-2Z      | 6203-2Z    |
| 3DS4 40-125/0.37  |              |            |
| 3DS4 40-160/0.55R | 6204-2Z C3   | 6204-2Z C3 |
| 3DS4 40-160/0.55  |              |            |
| 3DS4 40-200/1.1R  | 6205-2Z C3   | 6205-2Z C3 |
| 3DS4 40-200/1.1   |              |            |
| 3DS4 40-200/1.5   |              |            |
| 3DS4 50-125/0.55R | 6204-2Z C3   | 6204-2Z C3 |
| 3DS4 50-125/0.55  |              |            |
| 3DS4 50-160/1.1R  | 6205-2Z C3   | 6205-2Z C3 |
| 3DS4 50-160/1.1   |              |            |
| 3DS4 50-200/1.5R  |              |            |
| 3DS4 50-200/1.5   |              |            |
| 3DS4 50-200/2.2   | 6206-2Z C3   | 6206-2Z C3 |
| 3DS4 65-125/0.55  | 6204-2Z C3   | 6204-2Z C3 |
| 3DS4 65-125/0.75  |              |            |
| 3DS4 65-125/1.1   | 6205-2Z C3   | 6205-2Z C3 |
| 3DS4 65-160/1.1   |              |            |
| 3DS4 65-160/1.5   |              |            |
| 3DS4 65-160/2.2   | 6206-2Z C3   | 6206-2Z C3 |
| 3DS4 65-200/2.2R  |              |            |
| 3DS4 65-200/2.2   |              |            |
| 3DS4 65-200/3.0   |              |            |

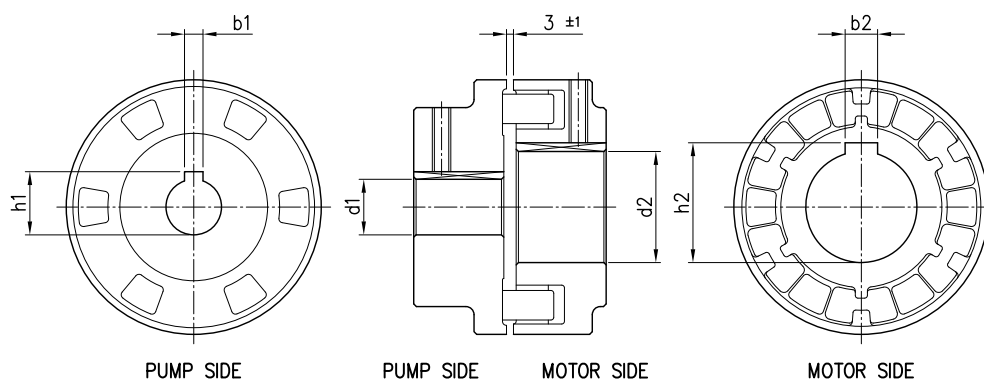
**3DP4 BEARINGS**

| 3DP4      |              |              |              |            |            |
|-----------|--------------|--------------|--------------|------------|------------|
| Pump type |              | Ball bearing |              |            |            |
|           |              | Pump         |              | Motor      |            |
|           |              | Pump side    | Motor side   | Pump side  | Fan side   |
| 3DP4      | 32-125/0.25  | 6306-2RS1 C3 | 6206-2RS1 C3 | 6203-2Z    | 6203-2Z    |
| 3DP4      | 32-160/0.37R |              |              |            |            |
| 3DP4      | 32-160/0.37  |              |              |            |            |
| 3DP4      | 32-200/0.55R | 6308-2RS1 C3 | 6306-2RS1 C3 | 6204-2Z C3 | 6204-2Z C3 |
| 3DP4      | 32-200/0.55  |              |              |            |            |
| 3DP4      | 32-200/0.75  |              |              |            |            |
| 3DP4      | 40-125/0.37R | 6306-2RS1 C3 | 6206-2RS1 C3 | 6203-2Z    | 6203-2Z    |
| 3DP4      | 40-125/0.37  |              |              | 6204-2Z C3 | 6204-2Z C3 |
| 3DP4      | 40-160/0.55R |              |              |            |            |
| 3DP4      | 40-160/0.55  |              |              |            |            |
| 3DP4      | 40-200/1.1R  | 6308-2RS1 C3 | 6306-2RS1 C3 | 6205-2Z C3 | 6205-2Z C3 |
| 3DP4      | 40-200/1.1   |              |              |            |            |
| 3DP4      | 40-200/1.5   |              |              |            |            |
| 3DP4      | 50-125/0.55R | 6306-2RS1 C3 | 6206-2RS1 C3 | 6204-2Z C3 | 6204-2Z C3 |
| 3DP4      | 50-125/0.55  |              |              |            |            |
| 3DP4      | 50-160/1.1R  | 6308-2RS1 C3 | 6306-2RS1 C3 | 6205-2Z C3 | 6205-2Z C3 |
| 3DP4      | 50-160/1.1   |              |              |            |            |
| 3DP4      | 50-200/1.5R  |              |              |            |            |
| 3DP4      | 50-200/1.5   |              |              | 6206-2Z C3 | 6206-2Z C3 |
| 3DP4      | 50-200/2.2   |              |              |            |            |
| 3DP4      | 65-125/0.55  | 6306-2RS1 C3 | 6206-2RS1 C3 | 6204-2Z C3 | 6204-2Z C3 |
| 3DP4      | 65-125/0.75  |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3DP4      | 65-125/1.1   |              |              |            |            |
| 3DP4      | 65-160/1.1   |              |              |            |            |
| 3DP4      | 65-160/1.5   |              |              |            |            |
| 3DP4      | 65-160/2.2   | 6308-2RS1 C3 | 6306-2RS1 C3 | 6206-2Z C3 | 6206-2Z C3 |
| 3DP4      | 65-200/2.2R  |              |              |            |            |
| 3DP4      | 65-200/2.2   |              |              |            |            |
| 3DP4      | 65-200/3     |              |              |            |            |

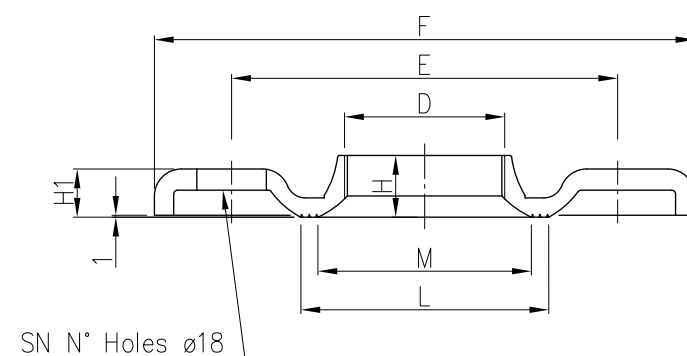


**3DS4 COUPLING**

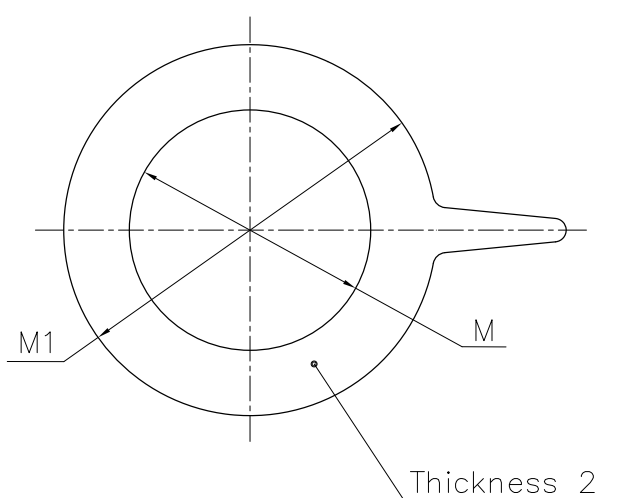
| Pump type    | [kW] | [HP] | Motor Size | Dimensions [ mm ] |    |    |    |         |     |    |   |      |           |
|--------------|------|------|------------|-------------------|----|----|----|---------|-----|----|---|------|-----------|
|              |      |      |            | d                 | d1 | d2 | d3 | M       | L   | L1 | b | h    | Set screw |
| 32-125/0.25  | 0.25 | 0.33 | 71         | 19                | 22 | 14 | 28 | M16x1.5 | 88  | 33 | 5 | 16.3 | M5x6      |
| 32-160/0.37R | 0.37 | 0.5  | 71         | 19                | 22 | 14 | 28 | M16x1.5 | 88  | 33 | 5 | 16.3 | M5x6      |
| 32-160/0.37  | 0.37 | 0.5  | 71         | 19                | 22 | 14 | 28 | M16x1.5 | 88  | 33 | 5 | 16.3 | M5x6      |
| 32-200/0.55R | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 32-200/0.55  | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 32-200/0.75  | 0.75 | 1    | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 40-125/0.37R | 0.37 | 0.5  | 71         | 19                | 22 | 14 | 28 | M16x1.5 | 88  | 33 | 5 | 16.3 | M5x6      |
| 40-125/0.37  | 0.37 | 0.5  | 71         | 19                | 22 | 14 | 28 | M16x1.5 | 88  | 33 | 5 | 16.3 | M5x6      |
| 40-160/0.55R | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 40-160/0.55  | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 40-200/1.1R  | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 40-200/1.1   | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 40-200/1.5   | 1.5  | 2    | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 50-125/0.55R | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 50-125/0.55  | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 50-160/1.1R  | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 50-160/1.1   | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 50-200/1.5R  | 1.5  | 2    | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 50-200/1.5   | 1.5  | 2    | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 50-200/2.2   | 2.2  | 3    | 100        | 22                | 22 | 28 | 43 | M18x1.5 | 153 | 63 | 8 | 31.3 | M8x8      |
| 65-125/0.55  | 0.55 | 0.75 | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 65-125/0.75  | 0.75 | 1    | 80         | 19                | 22 | 19 | 33 | M16x1.5 | 98  | 43 | 6 | 21.8 | M6x6      |
| 65-125/1.1   | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 65-160/1.1   | 1.1  | 1.5  | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 65-160/1.5   | 1.5  | 2    | 90         | 19                | 22 | 24 | 39 | M16x1.5 | 110 | 53 | 8 | 27.3 | M8x8      |
| 65-160/2.2   | 2.2  | 3    | 100        | 19                | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8      |
| 65-200/2.2R  | 2.2  | 3    | 100        | 19                | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8      |
| 65-200/2.2   | 2.2  | 3    | 100        | 19                | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8      |
| 65-200/3     | 3    | 4    | 100        | 19                | 22 | 28 | 43 | M16x1.5 | 122 | 63 | 8 | 31.3 | M8x8      |

**3DP4 FLEXIBLE COUPLING**

| Pump type    | [kW] | [HP] | Motor Size | Dimensions [ mm ] |    |      |    |    |      |
|--------------|------|------|------------|-------------------|----|------|----|----|------|
|              |      |      |            | d1                | b1 | h1   | d2 | b2 | h2   |
| 32-125/0.25  | 0.25 | 0.33 | 71         | 24                | 8  | 27.3 | 14 | 5  | 16.3 |
| 32-160/0.37R | 0.37 | 0.5  | 71         | 24                | 8  | 27.3 | 14 | 5  | 16.3 |
| 32-160/0.37  | 0.37 | 0.5  | 71         | 24                | 8  | 27.3 | 14 | 5  | 16.3 |
| 32-200/0.55R | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 32-200/0.55  | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 32-200/0.75  | 0.75 | 1    | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 40-125/0.37R | 0.37 | 0.5  | 71         | 24                | 8  | 27.3 | 14 | 5  | 16.3 |
| 40-125/0.37  | 0.37 | 0.5  | 71         | 24                | 8  | 27.3 | 14 | 5  | 16.3 |
| 40-160/0.55R | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 40-160/0.55  | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 40-200/1.1R  | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 40-200/1.1   | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 40-200/1.5   | 1.5  | 2    | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-125/0.55R | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 50-125/0.55  | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 50-160/1.1R  | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-160/1.1   | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-200/1.5R  | 1.5  | 2    | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-200/1.5   | 1.5  | 2    | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-200/2.2   | 2.2  | 3    | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 65-125/0.55  | 0.55 | 0.75 | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 65-125/0.75  | 0.75 | 1    | 80         | 24                | 8  | 27.3 | 19 | 6  | 21.8 |
| 65-125/1.1   | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 65-160/1.1   | 1.1  | 1.5  | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 65-160/1.5   | 1.5  | 2    | 90         | 24                | 8  | 27.3 | 24 | 8  | 27.3 |
| 65-160/2.2   | 2.2  | 3    | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 65-200/2.2R  | 2.2  | 3    | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 65-200/2.2   | 2.2  | 3    | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |
| 65-200/3     | 3    | 4    | 100        | 24                | 8  | 27.3 | 28 | 8  | 31.3 |

**FITTINGS****COUNTERFLANGES GALVANIZED STEEL**

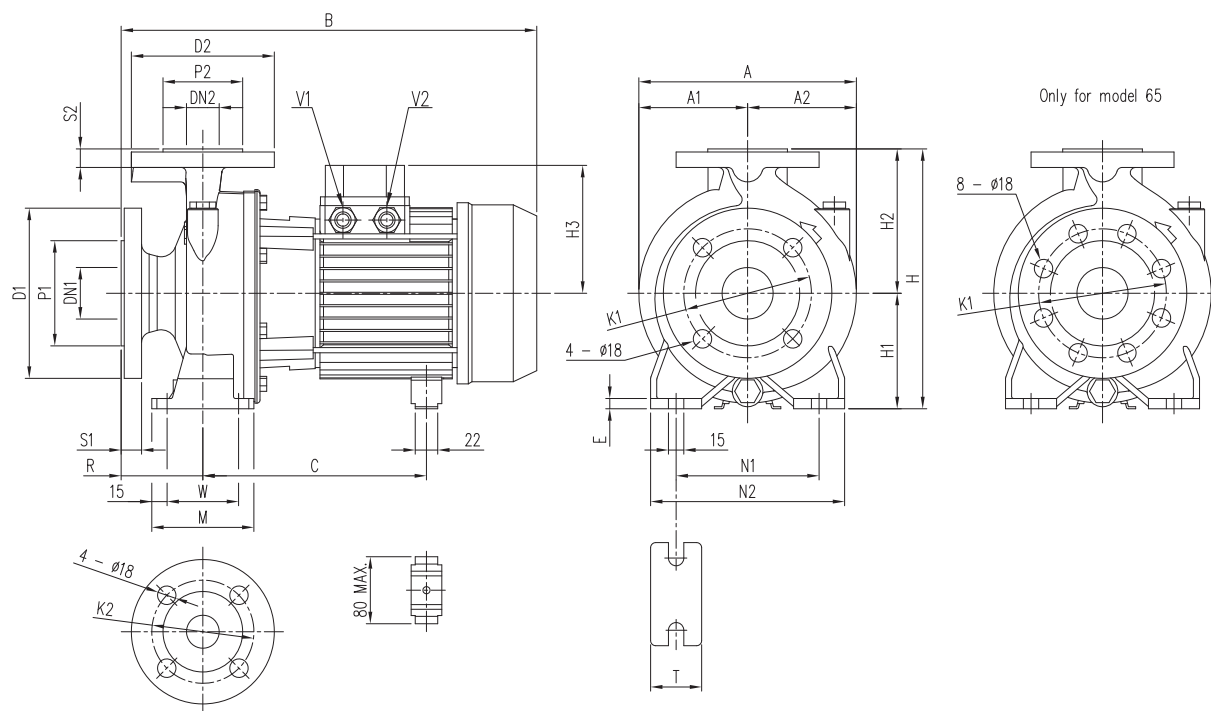
| Dimensions |       |     |     |      |      |       |     |    | Screws    |                                              |
|------------|-------|-----|-----|------|------|-------|-----|----|-----------|----------------------------------------------|
| DN         | D     | E   | F   | H    | H1   | L     | M   | SN | DIMENSION | MATERIAL                                     |
| 32         | G 1 ¼ | 100 | 140 | 15   | 11.5 | 67    | 50  | 4  | M16x55    | Gv. Steel 8.8<br>Strenght class<br>ISO 898-1 |
| 40         | G 1 ½ | 110 | 150 | 17.5 | 11.5 | 72    | 58  | 4  |           |                                              |
| 50         | G 2   | 125 | 165 | 19   | 15   | 89    | 70  | 4  |           |                                              |
| 65         | G 2 ½ | 145 | 185 | 23   | 14   | 104   | 88  | 4  |           |                                              |
| 80         | G 3   | 160 | 200 | 24   | 14.5 | 117.5 | 100 | 4  |           |                                              |

**GASKETS**

| DN | M  | M1  |
|----|----|-----|
| 32 | 38 | 82  |
| 40 | 50 | 93  |
| 50 | 60 | 107 |
| 65 | 80 | 125 |
| 80 | 90 | 140 |

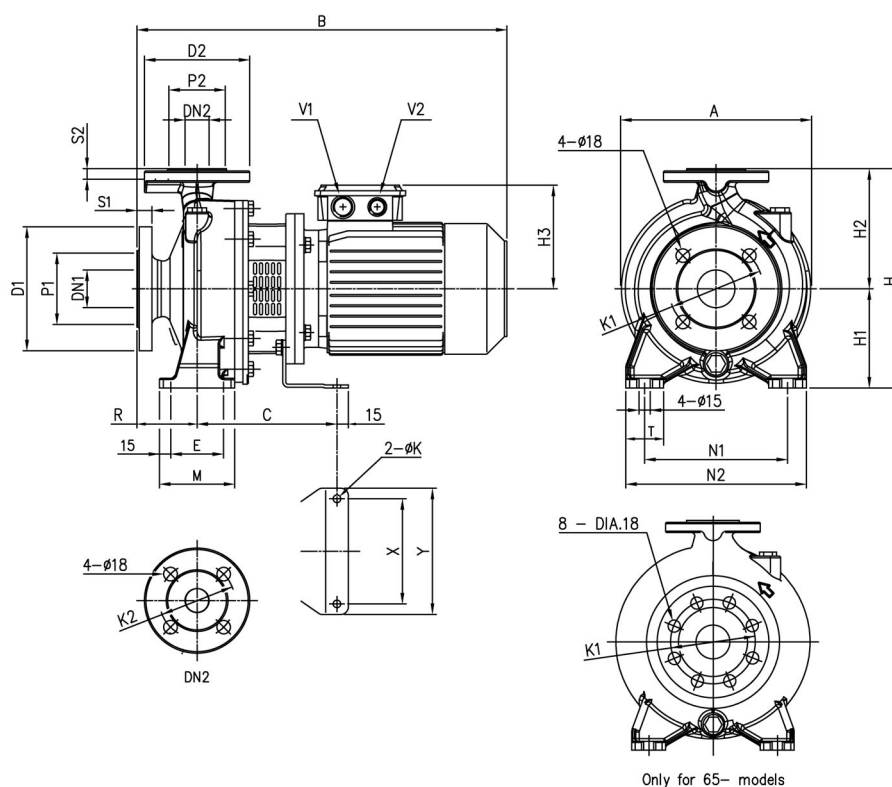
Material: EPDM for standard version  
FPM for hot water version

## PUMP 3D4



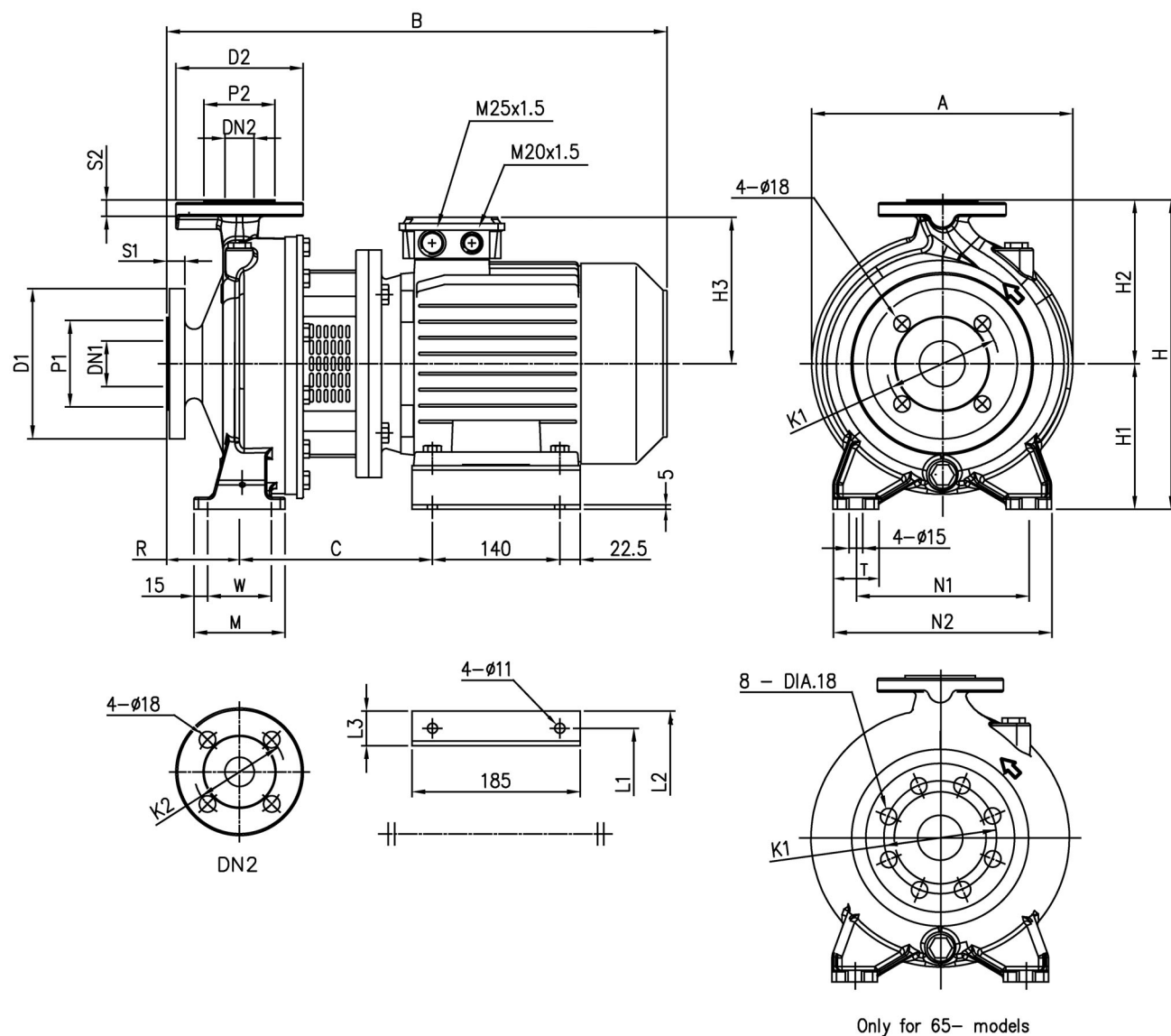
| Pump type    | Ø DN1 | Ø P1 | Ø K1 | Ø D1 | Ø S1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | Ø S2 | H   | H1  | H2  | H3  | R   | W  | M   | N1  | N2  | T  | E  | A   | A1    | A2    | B   | C       | V2      | Weight [kgf] |
|--------------|-------|------|------|------|------|-------|------|------|------|------|-----|-----|-----|-----|-----|----|-----|-----|-----|----|----|-----|-------|-------|-----|---------|---------|--------------|
| 32-125/0.25  | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 252 | 112 | 140 | 102 | 80  | 70 | 100 | 140 | 190 | 50 | 10 | 213 | 106,5 | 106,5 | 371 | 205     | PG 11   | 25,1         |
| 32-160/0.37R | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 292 | 132 | 160 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127   | 127   | 393 | 219     | PG 11   | 33,4         |
| 32-160/0.37  | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 292 | 132 | 160 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127   | 127   | 393 | 219     | PG 11   | 33,7         |
| 32-200/0.55R | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 340 | 160 | 180 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148   | 148   | 393 | 219     | PG 11   | 38,2         |
| 32-200/0.55  | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 340 | 160 | 180 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148   | 148   | 393 | 219     | PG 11   | 38,2         |
| 32-200/0.75  | 50    | 102  | 125  | 165  | 20   | 32    | 78   | 100  | 140  | 18   | 340 | 160 | 180 | 124 | 80  | 70 | 100 | 190 | 240 | 50 | 10 | 296 | 148   | 148   | 432 | 244+255 | PG 13.5 | 39,5         |
| 40-125/0.37R | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 252 | 112 | 140 | 102 | 80  | 70 | 100 | 160 | 210 | 50 | 10 | 213 | 108   | 112   | 371 | 205     | PG 11   | 27,0         |
| 40-125/0.37  | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 252 | 112 | 140 | 102 | 80  | 70 | 100 | 160 | 210 | 50 | 10 | 213 | 108   | 112   | 371 | 205     | PG 11   | 27,1         |
| 40-160/0.55R | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 292 | 132 | 160 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 12 | 254 | 127   | 127   | 393 | 219     | PG 11   | 34,5         |
| 40-160/0.55  | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 292 | 132 | 160 | 119 | 80  | 70 | 100 | 190 | 240 | 50 | 12 | 254 | 127   | 127   | 393 | 219     | PG 11   | 35,0         |
| 40-200/1.1R  | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 340 | 160 | 180 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 12 | 296 | 148   | 148   | 452 | 244+255 | PG 13.5 | 41,2         |
| 40-200/1.1   | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 340 | 160 | 180 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 12 | 296 | 148   | 148   | 452 | 244+255 | PG 13.5 | 41,3         |
| 40-200/1.5   | 65    | 122  | 145  | 185  | 20   | 40    | 88   | 110  | 150  | 18   | 340 | 160 | 180 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 12 | 296 | 148   | 148   | 491 | 244+255 | PG 13.5 | 43,0         |
| 50-125/0.55R | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 292 | 132 | 160 | 119 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127   | 127   | 413 | 219     | PG 11   | 35,0         |
| 50-125/0.55  | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 292 | 132 | 160 | 119 | 100 | 70 | 100 | 190 | 240 | 50 | 10 | 254 | 127   | 127   | 413 | 219     | PG 11   | 35,1         |
| 50-160/1.1R  | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 340 | 160 | 180 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148   | 148   | 452 | 244+255 | PG 13.5 | 42,2         |
| 50-160/1.1   | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 340 | 160 | 180 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148   | 148   | 452 | 244+255 | PG 13.5 | 42,3         |
| 50-200/1.5R  | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 360 | 160 | 200 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148   | 148   | 491 | 244+255 | PG 13.5 | 43,4         |
| 50-200/1.5   | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 360 | 160 | 200 | 124 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148   | 148   | 491 | 244+255 | PG 13.5 | 44,5         |
| 50-200/2.2   | 65    | 122  | 145  | 185  | 20   | 50    | 102  | 125  | 165  | 20   | 360 | 160 | 200 | 141 | 100 | 70 | 100 | 212 | 265 | 50 | 10 | 296 | 148   | 148   | 474 | 253     | PG 16   | 42,9         |
| 65-125/0.55  | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 340 | 160 | 180 | 119 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127   | 136   | 413 | 219     | PG 11   | 40,2         |
| 65-125/0.75  | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 340 | 160 | 180 | 124 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127   | 136   | 452 | 244+255 | PG 13.5 | 35,3         |
| 65-125/1.1   | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 340 | 160 | 180 | 124 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 263 | 127   | 136   | 452 | 244+255 | PG 13.5 | 35,3         |
| 65-160/1.1   | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 360 | 160 | 200 | 124 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148   | 148   | 452 | 244+255 | PG 13.5 | 44,6         |
| 65-160/1.5   | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 360 | 160 | 200 | 124 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148   | 148   | 491 | 244+255 | PG 13.5 | 46,1         |
| 65-160/2.2   | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 360 | 160 | 200 | 141 | 100 | 95 | 125 | 212 | 280 | 65 | 12 | 296 | 148   | 148   | 474 | 253     | PG 16   | 48,1         |
| 65-200/2.2R  | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 405 | 180 | 225 | 141 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 474 | 253     | PG 16   | 46,5         |
| 65-200/2.2   | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 405 | 180 | 225 | 141 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 474 | 253     | PG 16   | 46,5         |
| 65-200/3     | 80    | 138  | 160  | 200  | 22   | 65    | 122  | 145  | 185  | 20   | 405 | 180 | 225 | 141 | 100 | 95 | 125 | 250 | 320 | 65 | 12 | 312 | 154,5 | 157,5 | 514 | 253     | PG 16   | 54,5         |

## PUMP 3DS4 32, 40, 50, 65



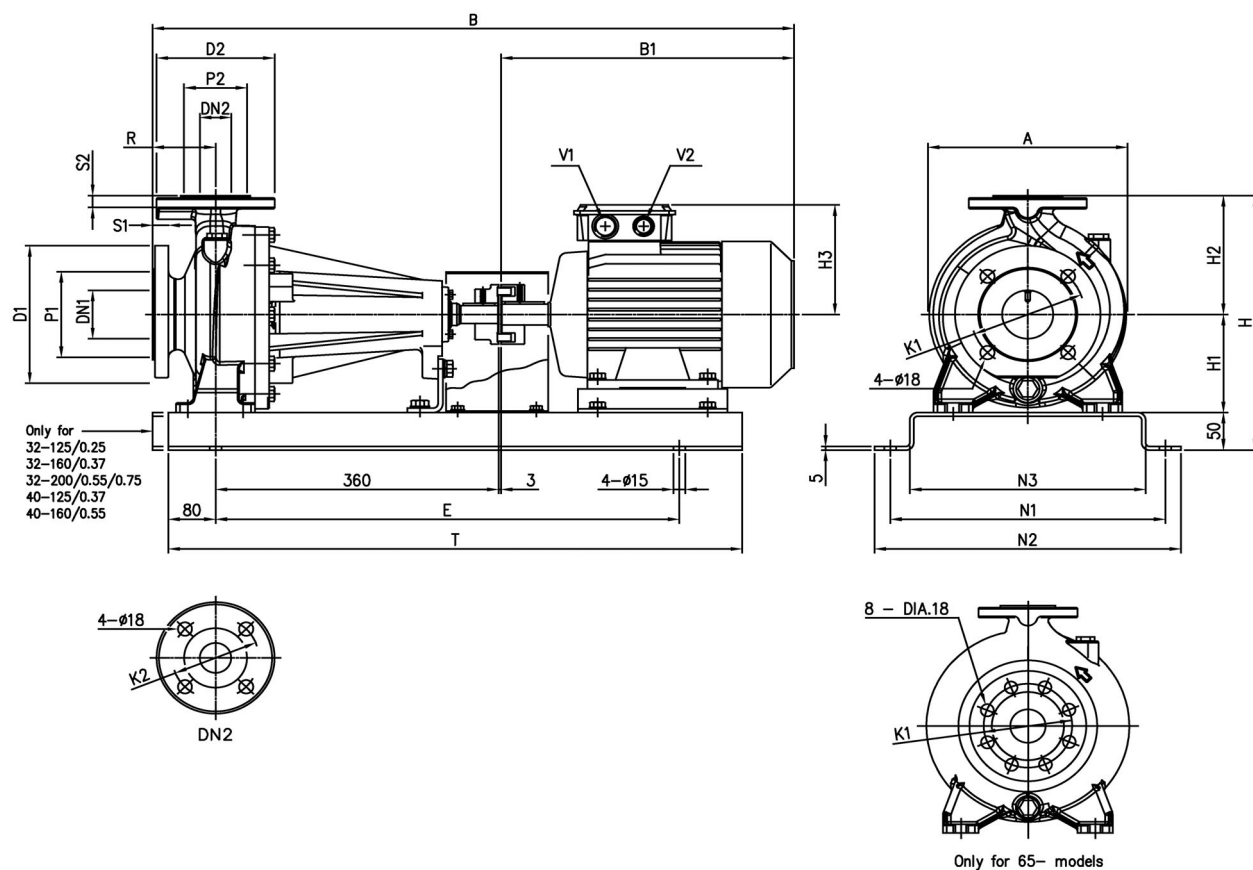
| Pump type    | Dimensions [ mm ] |         |         |         |    |          |         |         |         |    |     |     |     |     |     |    |     |     |     |    |     |     |     |     |     |    |         |         | Weight<br>[ kgf ] |      |
|--------------|-------------------|---------|---------|---------|----|----------|---------|---------|---------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|---------|---------|-------------------|------|
|              | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | H   | H1  | H2  | H3  | R   | W  | M   | N1  | N2  | T  | A   | B   | C   | X   | Y   | K  | V1      | V2      |                   | (*)  |
| 32-125/0.25  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 252 | 112 | 140 | 114 | 80  | 70 | 100 | 140 | 190 | 50 | 213 | 404 | 153 | 112 | 140 | 8  | M20x1.5 | M16x1.5 | 24.3              | -    |
| 32-160/0.37R | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 292 | 132 | 160 | 114 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 404 | 153 | 112 | 140 | 8  | M20x1.5 | M16x1.5 | 29.9              | -    |
| 32-160/0.37  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 292 | 132 | 160 | 114 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 404 | 153 | 112 | 140 | 8  | M20x1.5 | M16x1.5 | 30.1              | -    |
| 32-200/0.55R | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 340 | 160 | 180 | 139 | 80  | 70 | 100 | 190 | 240 | 50 | 296 | 430 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 39.4              | -    |
| 32-200/0.55  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 340 | 160 | 180 | 139 | 80  | 70 | 100 | 190 | 240 | 50 | 296 | 430 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 44.4              | -    |
| 32-200/0.75  | 50                | 102     | 125     | 165     | 20 | 32       | 78      | 100     | 140     | 18 | 340 | 160 | 180 | 139 | 80  | 70 | 100 | 190 | 240 | 50 | 296 | 430 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 40.9              | 40.9 |
| 40-125/0.37R | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 252 | 112 | 140 | 114 | 80  | 70 | 100 | 160 | 210 | 50 | 220 | 404 | 153 | 112 | 140 | 8  | M20x1.5 | M16x1.5 | 25.3              | -    |
| 40-125/0.37  | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 252 | 112 | 140 | 114 | 80  | 70 | 100 | 160 | 210 | 50 | 220 | 404 | 153 | 112 | 140 | 8  | M20x1.5 | M16x1.5 | 25.3              | -    |
| 40-160/0.55R | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 292 | 132 | 160 | 139 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 430 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 35.6              | -    |
| 40-160/0.55  | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 292 | 132 | 160 | 139 | 80  | 70 | 100 | 190 | 240 | 50 | 254 | 430 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 35.6              | -    |
| 40-200/1.1R  | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 340 | 160 | 180 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 47                | 49.2 |
| 40-200/1.1   | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 340 | 160 | 180 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 47                | 49.2 |
| 40-200/1.5   | 65                | 122     | 145     | 185     | 20 | 40       | 88      | 110     | 150     | 18 | 340 | 160 | 180 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 48.2              | 50.8 |
| 50-125/0.55R | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 292 | 132 | 160 | 139 | 100 | 70 | 100 | 190 | 240 | 50 | 254 | 450 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 36                | -    |
| 50-125/0.55  | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 292 | 132 | 160 | 139 | 100 | 70 | 100 | 190 | 240 | 50 | 254 | 450 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 36                | -    |
| 50-160/1.1R  | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 340 | 160 | 180 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 47.6              | 49.8 |
| 50-160/1.1   | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 340 | 160 | 180 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 47.6              | 49.8 |
| 50-200/1.5R  | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 360 | 160 | 200 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 50                | 52.6 |
| 50-200/1.5   | 65                | 122     | 145     | 185     | 20 | 50       | 102     | 125     | 165     | 20 | 360 | 160 | 200 | 148 | 100 | 70 | 100 | 212 | 265 | 50 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 50                | 52.6 |
| 65-125/0.55  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 340 | 160 | 180 | 139 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 450 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 36.8              | -    |
| 65-125/0.75  | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 340 | 160 | 180 | 139 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 450 | 174 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 45.3              | 45.3 |
| 65-125/1.1   | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 340 | 160 | 180 | 148 | 100 | 95 | 125 | 212 | 280 | 65 | 263 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 45.3              | 47.5 |
| 65-160/1.1   | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 360 | 160 | 200 | 148 | 100 | 95 | 125 | 212 | 280 | 65 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 47.1              | 49.3 |
| 65-160/1.5   | 80                | 138     | 160     | 200     | 22 | 65       | 122     | 145     | 185     | 20 | 360 | 160 | 200 | 148 | 100 | 95 | 125 | 212 | 280 | 65 | 296 | 497 | 186 | 140 | 168 | 10 | M25x1.5 | M20x1.5 | 59.1              | 61.7 |

(\*) Only for IE3 Motors

**PUMP 3DS4 50,65**

| Pump type   | Dimensions [ mm ] |         |         |         |         |          |         |         |         |         |     |     |     |     |    |     |     |     |     |     |    |     |     |    |      | Weight<br>[ kgf ] |  |
|-------------|-------------------|---------|---------|---------|---------|----------|---------|---------|---------|---------|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|----|-----|-----|----|------|-------------------|--|
|             | Ø<br>DN1          | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | Ø<br>S1 | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | Ø<br>S2 | H   | H1  | H2  | R   | W  | M   | A   | B   | L1  | L2  | L3 | N1  | N2  | T  |      | (*)               |  |
| 50-200/2.2  | 65                | 122     | 145     | 185     | 20      | 50       | 102     | 125     | 165     | 20      | 360 | 160 | 200 | 100 | 70 | 100 | 296 | 548 | 160 | 202 | 42 | 212 | 265 | 50 | 55.9 | 56.3              |  |
| 65-160/2.2  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 360 | 160 | 200 | 100 | 95 | 125 | 296 | 548 | 160 | 202 | 42 | 212 | 280 | 65 | 62.1 | 62.5              |  |
| 65-200/2.2R | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 405 | 180 | 225 | 100 | 95 | 125 | 312 | 548 | 160 | 202 | 42 | 250 | 320 | 65 | 59   | 59.4              |  |
| 65-200/2.2  | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 405 | 180 | 225 | 100 | 95 | 125 | 312 | 548 | 160 | 202 | 42 | 250 | 320 | 65 | 59.5 | 59.9              |  |
| 65-200/3    | 80                | 138     | 160     | 200     | 22      | 65       | 122     | 145     | 185     | 20      | 405 | 180 | 225 | 100 | 95 | 125 | 312 | 563 | 160 | 202 | 42 | 250 | 320 | 65 | 65   | 65                |  |

(\*) Only for IE3 Motors

**PUMP 3DP4**

## 3D SERIES 4 Poles

## 50Hz

Rev. L

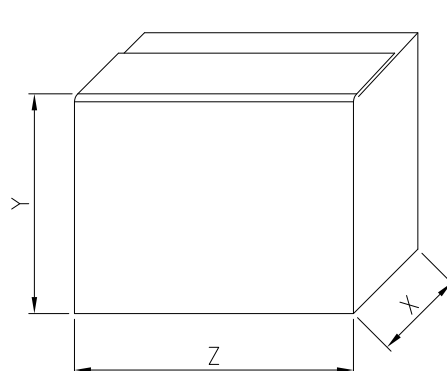
(\*) Only for IE3 Motors

\*) Only for IE3 Motors

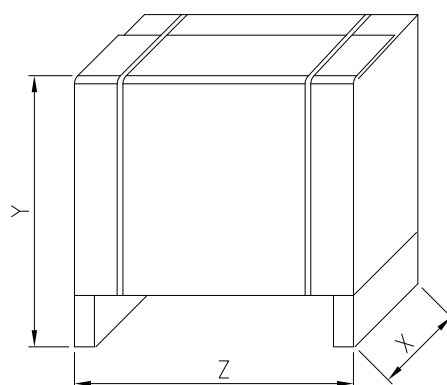


**3D4 PACKING**

| Pump type    | Packing [mm] |     |     | Weight [kgf] | Pack type |
|--------------|--------------|-----|-----|--------------|-----------|
|              | Z            | X   | Y   |              |           |
| 32-125/0.25  | 450          | 250 | 300 | 28.2         | 1         |
| 32-160/0.37R | 430          | 280 | 340 | 35.2         |           |
| 32-160/0.37  |              |     |     | 35.2         |           |
| 32-200/0.55R | 500          | 330 | 390 | 40.1         |           |
| 32-200/0.55  |              |     |     | 40.1         |           |
| 32-200/0.75  |              |     |     | 42.4         |           |
| 40-125/0.37R | 450          | 250 | 300 | 28.3         |           |
| 40-125/0.37  | 430          | 280 | 340 | 28.4         |           |
| 40-160/0.55R |              |     |     | 37.7         |           |
| 40-160/0.55  | 500          | 330 | 390 | 38.1         |           |
| 40-200/1.1R  |              |     |     | 44.4         | 2         |
| 40-200/1.1   |              |     |     | 44.5         |           |
| 40-200/1.5   | 580          | 350 | 416 | 45.7         | 2         |
| 50-125/0.55R | 430          | 280 | 340 | 37.1         | 1         |
| 50-125/0.55  |              |     |     | 37.2         |           |
| 50-160/1.1R  | 500          | 330 | 390 | 45.1         |           |
| 50-160/1.1   |              |     |     | 45.2         |           |
| 50-200/1.5R  |              |     |     | 45.6         |           |
| 50-200/1.5   | 580          | 350 | 416 | 46.7         | 2         |
| 50-200/2.2   |              |     |     | 45.4         | 2         |
| 65-125/0.55  | 500          | 330 | 390 | 41.9         | 1         |
| 65-125/0.75  |              |     |     | 37.3         |           |
| 65-125/1.1   |              |     |     | 40.3         |           |
| 65-160/1.1   |              |     |     | 47.1         |           |
| 65-160/1.5   | 580          | 350 | 416 | 50.1         | 2         |
| 65-160/2.2   | 500          | 330 | 390 | 51.1         | 1         |
| 65-200/2.2R  | 600          | 390 | 533 | 51.5         | 2         |
| 65-200/2.2   |              |     |     | 49.5         |           |
| 65-200/3     |              |     |     | 62.7         |           |



TYPE 1

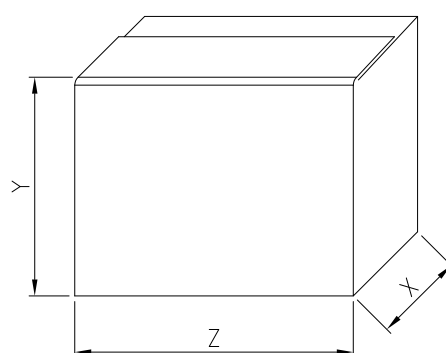


TYPE 2

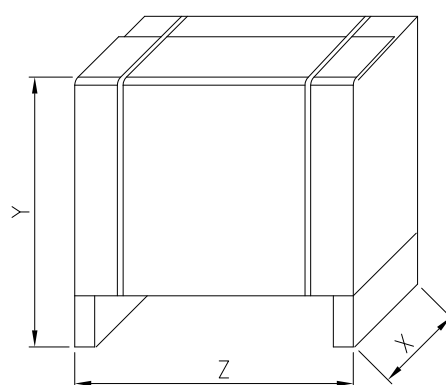
**3DS4 PACKING**

| Pump type    | Packing [mm] |     |     | Weight [kgf] |      | Pack type |
|--------------|--------------|-----|-----|--------------|------|-----------|
|              | Z            | X   | Y   |              | (*)  |           |
| 32-125/0.25  | 450          | 250 | 300 | 26.4         | -    | 1         |
| 32-160/0.37R | 490          | 280 | 340 | 32.9         | -    |           |
| 32-160/0.37  | 430          | 280 | 330 | 32.7         | -    |           |
| 32-200/0.55R | 500          | 330 | 390 | 41.5         | -    |           |
| 32-200/0.55  |              |     |     | 45.7         | -    |           |
| 32-200/0.75  |              |     |     | 43.7         | 43.7 |           |
| 40-125/0.37R | 450          | 250 | 300 | 27.6         | -    |           |
| 40-125/0.37  |              |     |     | 27.9         | -    |           |
| 40-160/0.55R | 490          | 280 | 340 | 37.7         | -    |           |
| 40-160/0.55  |              |     |     | 37.7         | -    |           |
| 40-200/1.1R  | 700          | 350 | 498 | 48.1         | 50.3 | 2         |
| 40-200/1.1   |              |     |     | 48.1         | 50.3 |           |
| 40-200/1.5   |              |     |     | 50.3         | 52.9 |           |
| 50-125/0.55R | 490          | 280 | 340 | 38.2         | -    | 1         |
| 50-125/0.55  |              |     |     | 38.2         | -    |           |
| 50-160/1.1R  | 700          | 350 | 498 | 52.5         | 54.7 | 2         |
| 50-160/1.1   |              |     |     | 48.5         | 50.7 |           |
| 50-200/1.5R  |              |     |     | 51.8         | 54.4 |           |
| 50-200/1.5   |              |     |     | 51.5         | 54.1 |           |
| 50-200/2.2   |              |     |     | 56.9         | 57.3 |           |
| 65-125/0.55  | 580          | 350 | 488 | 39.8         | -    |           |
| 65-125/0.75  |              |     |     | 48.3         | 48.3 |           |
| 65-125/1.1   |              |     |     | 49           | 51.2 |           |
| 65-160/1.1   |              |     |     | 55.1         | 57.3 |           |
| 65-160/1.5   |              |     |     | 65.2         | 67.8 |           |
| 65-160/2.2   | 600          | 390 | 533 | 66           | 66.4 |           |
| 65-200/2.2R  |              |     |     | 62           | 62.4 |           |
| 65-200/2.2   |              |     |     | 63.5         | 63.9 |           |
| 65-200/3     |              |     |     | 70           | 70   |           |

(\*) Only for IE3 Motors



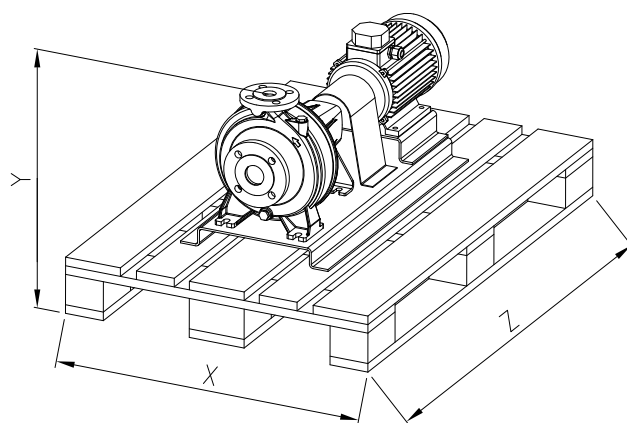
TYPE 1



TYPE 2

**3DP4 PACKING**

| Pump type    | Packing [mm] |     |     | Weight [kgf] |       |
|--------------|--------------|-----|-----|--------------|-------|
|              | Z            | X   | Y   |              | (*)   |
| 32-125/0.25  | 1200         | 800 | 394 | 59.5         | -     |
| 32-160/0.37R |              |     | 434 | 66.0         | -     |
| 32-160/0.37  |              |     |     | 66.0         | -     |
| 32-200/0.55R |              |     | 482 | 78.5         | -     |
| 32-200/0.55  |              |     |     | 78.5         | -     |
| 32-200/0.75  |              |     |     | 79.5         | 79.5  |
| 40-125/0.37R |              |     | 394 | 69.0         | -     |
| 40-125/0.37  |              |     |     | 69.0         | -     |
| 40-160/0.55R |              |     | 434 | 70.0         | -     |
| 40-160/0.55  |              |     |     | 70.0         | -     |
| 40-200/1.1R  |              |     | 482 | 87.7         | 89.9  |
| 40-200/1.1   |              |     |     | 87.7         | 89.9  |
| 40-200/1.5   |              |     |     | 90.2         | 92.8  |
| 50-125/0.55R |              |     | 434 | 70.8         | -     |
| 50-125/0.55  |              |     |     | 70.8         | -     |
| 50-160/1.1R  |              |     | 482 | 79.5         | 81.7  |
| 50-160/1.1   |              |     |     | 79.5         | 81.7  |
| 50-200/1.5R  |              |     | 502 | 90.5         | 93.1  |
| 50-200/1.5   |              |     |     | 90.5         | 93.1  |
| 50-200/2.2   |              |     |     | 96.5         | 96.9  |
| 65-125/0.55  |              |     | 482 | 77.3         | -     |
| 65-125/0.75  |              |     |     | 77.3         | 77.3  |
| 65-125/1.1   |              |     |     | 84.8         | 87.0  |
| 65-160/1.1   |              |     | 502 | 92.0         | 94.2  |
| 65-160/1.5   |              |     |     | 93.0         | 95.6  |
| 65-160/2.2   |              |     |     | 101.0        | 101.4 |
| 65-200/2.2R  |              |     | 547 | 104.0        | 104.4 |
| 65-200/2.2   |              |     |     | 104.0        | 104.4 |
| 65-200/3     |              |     |     | 107.5        | 107.5 |



(\*) Only for IE3 Motors

**3D4 MOTOR DATA**

| Pump type        | Power |      | Efficiency | Input<br>[kW] | Efficiency (% load)<br>and power-factor |            |      |      | Full load<br>current |       | Locked rotor<br>current |       |
|------------------|-------|------|------------|---------------|-----------------------------------------|------------|------|------|----------------------|-------|-------------------------|-------|
|                  | [kW]  | [HP] |            |               | $\eta$ %                                | $\cos\phi$ | [A]  |      | [A]                  |       |                         |       |
|                  |       |      |            |               |                                         |            | 50%  | 75%  | 100%                 | 230 V | 400 V                   | 230 V |
| 3D4 32-125/0.25  | 0.25  | 0.33 | IE2        | 0.50          | 69.4                                    | 73.6       | 74.2 | 0.71 | 1.8                  | 1.0   | -                       | 7.9   |
| 3D4 32-160/0.37R | 0.37  | 0.5  | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 32-160/0.37  | 0.37  | 0.5  | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 32-200/0.55R | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 32-200/0.55  | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 32-200/0.75  | 0.75  | 1    | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 40-125/0.37R | 0.37  | 0.5  | IE2        | 0.50          | 69.4                                    | 73.6       | 74.2 | 0.71 | 1.8                  | 1.0   | -                       | 7.9   |
| 3D4 40-125/0.37  | 0.37  | 0.5  | IE2        | 0.50          | 69.4                                    | 73.6       | 74.2 | 0.71 | 1.8                  | 1.0   | -                       | 7.9   |
| 3D4 40-160/0.55R | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 40-160/0.55  | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 40-200/1.1R  | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 40-200/1.1   | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 40-200/1.5   | 1.5   | 2    | IE3        | 1.76          | 81.1                                    | 84.1       | 85.3 | 0.71 | 6.2                  | 3.6   | -                       | 45.0  |
| 3D4 50-125/0.55R | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 50-125/0.55  | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 50-160/1.1R  | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 50-160/1.1   | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 50-200/1.5R  | 1.5   | 2    | IE3        | 1.76          | 81.1                                    | 84.1       | 85.3 | 0.71 | 6.2                  | 3.6   | -                       | 45.0  |
| 3D4 50-200/1.5   | 1.5   | 2    | IE3        | 1.76          | 81.1                                    | 84.1       | 85.3 | 0.71 | 6.2                  | 3.6   | -                       | 45.0  |
| 3D4 50-200/2.2   | 2.2   | 3    | IE3        | 2.54          | 86.1                                    | 87.0       | 86.7 | 0.78 | 7.8                  | 4.5   | -                       | 53.7  |
| 3D4 65-125/0.55  | 0.55  | 0.75 | IE2        | 0.71          | 71.9                                    | 75.9       | 77.7 | 0.75 | 2.4                  | 1.4   | -                       | 14.8  |
| 3D4 65-125/0.75  | 0.75  | 1    | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 65-125/1.1   | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 65-160/1.1   | 1.1   | 1.5  | IE3        | 1.31          | 81.5                                    | 83.4       | 84.1 | 0.71 | 4.6                  | 2.7   | -                       | 32.9  |
| 3D4 65-160/1.5   | 1.5   | 2    | IE3        | 1.76          | 81.1                                    | 84.1       | 85.3 | 0.71 | 6.2                  | 3.6   | -                       | 45.0  |
| 3D4 65-160/2.2   | 2.2   | 3    | IE3        | 2.54          | 86.1                                    | 87.0       | 86.7 | 0.78 | 7.8                  | 4.5   | -                       | 53.7  |
| 3D4 65-200/2.2R  | 2.2   | 3    | IE3        | 2.54          | 86.1                                    | 87.0       | 86.7 | 0.78 | 7.8                  | 4.5   | -                       | 53.7  |
| 3D4 65-200/2.2   | 2.2   | 3    | IE3        | 2.54          | 86.1                                    | 87.0       | 86.7 | 0.78 | 7.8                  | 4.5   | -                       | 53.7  |
| 3D4 65-200/3     | 3     | 4    | IE3        | 3.42          | 85.7                                    | 87.7       | 87.8 | 0.72 | 11.8                 | 6.8   | -                       | 83.1  |

**3DS4-3DP4 MOTOR DATA**

| Pump type         |                   | Motor Size | Motor Power |      | Efficiency | Input [kW] | Efficiency (% load) and power-factor |      |      |       | Full load current |     | Locked rotor current |      |
|-------------------|-------------------|------------|-------------|------|------------|------------|--------------------------------------|------|------|-------|-------------------|-----|----------------------|------|
| 3DS4              | 3DP4              |            | [kW]        | [HP] |            |            | 50%                                  | 75%  | 100% | cos-φ | [A]               |     | [A]                  |      |
| 3DS4 32-125/0.25  | 3DP4 32-125/0.25  | 71         | 0.25        | 0.33 | IE2        | 0.50       | 69.4                                 | 73.6 | 74.2 | 0.70  | 1.8               | 1.0 | 7.9                  | 4.5  |
| 3DS4 32-160/0.37R | 3DP4 32-160/0.37R |            | 0.37        | 0.5  | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 32-160/0.37  | 3DP4 32-160/0.37  |            | 0.37        | 0.5  | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 32-200/0.55R | 3DP4 32-200/0.55R | 80         | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 32-200/0.55  | 3DP4 32-200/0.55  |            | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 32-200/0.75  | 3DP4 32-200/0.75  |            | 0.75        | 1    | IE3        | 0.92       | 80.7                                 | 81.5 | 82.5 | 0.74  | 3.1               | 1.8 | 17.3                 | 10.0 |
| 3DS4 40-125/0.37R | 3DP4 40-125/0.37R | 71         | 0.37        | 0.5  | IE2        | 0.50       | 69.4                                 | 73.6 | 74.2 | 0.70  | 1.8               | 1.0 | 7.9                  | 4.5  |
| 3DS4 40-125/0.37  | 3DP4 40-125/0.37  |            | 0.37        | 0.5  | IE2        | 0.50       | 69.4                                 | 73.6 | 74.2 | 0.70  | 1.8               | 1.0 | 7.9                  | 4.5  |
| 3DS4 40-160/0.55R | 3DP4 40-160/0.55R | 80         | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 40-160/0.55  | 3DP4 40-160/0.55  |            | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 40-200/1.1R  | 3DP4 40-200/1.1R  | 90L        | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 40-200/1.1   | 3DP4 40-200/1.1   |            | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 40-200/1.5   | 3DP4 40-200/1.5   |            | 1.5         | 2    | IE3        | 1.80       | 84.1                                 | 85.2 | 85.3 | 0.72  | 6.2               | 3.6 | 41.0                 | 23.7 |
| 3DS4 50-125/0.55R | 3DP4 50-125/0.55R | 80         | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 50-125/0.55  | 3DP4 50-125/0.55  |            | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 50-160/1.1R  | 3DP4 50-160/1.1R  | 90L        | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 50-160/1.1   | 3DP4 50-160/1.1   |            | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 50-200/1.5R  | 3DP4 50-200/1.5R  |            | 1.5         | 2    | IE3        | 1.80       | 84.1                                 | 85.2 | 85.3 | 0.72  | 6.2               | 3.6 | 41.0                 | 23.7 |
| 3DS4 50-200/1.5   | 3DP4 50-200/1.5   | 100L       | 1.5         | 2    | IE3        | 1.80       | 84.1                                 | 85.2 | 85.3 | 0.72  | 6.2               | 3.6 | 41.0                 | 23.7 |
| 3DS4 50-200/2.2   | 3DP4 50-200/2.2   |            | 2.2         | 3    | IE3        | 2.58       | 83.2                                 | 86.2 | 86.7 | 0.63  | 10.2              | 5.9 | 73.6                 | 42.5 |
| 3DS4 65-125/0.55  | 3DP4 65-125/0.55  | 80         | 0.55        | 0.75 | IE2        | 0.71       | 71.9                                 | 75.9 | 77.7 | 0.75  | 2.4               | 1.4 | 14.8                 | 8.6  |
| 3DS4 65-125/0.75  | 3DP4 65-125/0.75  |            | 0.75        | 1    | IE3        | 0.92       | 80.7                                 | 81.5 | 82.5 | 0.74  | 3.1               | 1.8 | 17.3                 | 10.0 |
| 3DS4 65-125/1.1   | 3DP4 65-125/1.1   | 90L        | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 65-160/1.1   | 3DP4 65-160/1.1   |            | 1.1         | 1.5  | IE3        | 1.30       | 83.3                                 | 84.3 | 84.1 | 0.75  | 4.3               | 2.5 | 30.7                 | 17.7 |
| 3DS4 65-160/1.5   | 3DP4 65-160/1.5   |            | 1.5         | 2    | IE3        | 1.80       | 84.1                                 | 85.2 | 85.3 | 0.72  | 6.2               | 3.6 | 41.0                 | 23.7 |
| 3DS4 65-160/2.2   | 3DP4 65-160/2.2   | 100L       | 2.2         | 3    | IE3        | 2.58       | 83.2                                 | 86.2 | 86.7 | 0.63  | 10.2              | 5.9 | 73.6                 | 42.5 |
| 3DS4 65-200/2.2R  | 3DP4 65-200/2.2R  |            | 2.2         | 3    | IE3        | 2.58       | 83.2                                 | 86.2 | 86.7 | 0.63  | 10.2              | 5.9 | 73.6                 | 42.5 |
| 3DS4 65-200/2.2   | 3DP4 65-200/2.2   |            | 2.2         | 3    | IE3        | 2.58       | 83.2                                 | 86.2 | 86.7 | 0.63  | 10.2              | 5.9 | 73.6                 | 42.5 |
| 3DS4 65-200/3     | 3DP4 65-200/3     |            | 3           | 4    | IE3        | 3.44       | 85.1                                 | 87.1 | 87.7 | 0.73  | 11.8              | 6.8 | 95.4                 | 55.1 |

**3D4 NOISE DATA**

| Pump type        | Power |      | LpA - dB(A) * |
|------------------|-------|------|---------------|
|                  | [kW]  | [HP] |               |
| 3D4 32-125/0.25  | 0.25  | 0.33 | <70           |
| 3D4 32-160/0.37R | 0.37  | 0.5  |               |
| 3D4 32-160/0.37  | 0.37  | 0.5  |               |
| 3D4 32-200/0.55R | 0.55  | 0.75 |               |
| 3D4 32-200/0.55  | 0.55  | 0.75 |               |
| 3D4 32-200/0.75  | 0.75  | 1    |               |
| 3D4 40-125/0.37R | 0.37  | 0.5  |               |
| 3D4 40-125/0.37  | 0.37  | 0.5  |               |
| 3D4 40-160/0.55R | 0.55  | 0.75 |               |
| 3D4 40-160/0.55  | 0.55  | 0.75 |               |
| 3D4 40-200/1.1R  | 1.1   | 1.5  |               |
| 3D4 40-200/1.1   | 1.1   | 1.5  |               |
| 3D4 40-200/1.5   | 1.5   | 2    |               |
| 3D4 50-125/0.55R | 0.55  | 0.75 |               |
| 3D4 50-125/0.55  | 0.55  | 0.75 |               |
| 3D4 50-160/1.1R  | 1.1   | 1.5  |               |
| 3D4 50-160/1.1   | 1.1   | 1.5  |               |
| 3D4 50-200/1.5R  | 1.5   | 2    |               |
| 3D4 50-200/1.5   | 1.5   | 2    |               |
| 3D4 50-200/2.2   | 2.2   | 3    |               |
| 3D4 65-125/0.55  | 0.55  | 0.75 |               |
| 3D4 65-125/0.75  | 0.75  | 1    |               |
| 3D4 65-125/1.1   | 1.1   | 1.5  |               |
| 3D4 65-160/1.1   | 1.1   | 1.5  |               |
| 3D4 65-160/1.5   | 1.5   | 2    |               |
| 3D4 65-160/2.2   | 2.2   | 3    |               |
| 3D4 65-200/2.2R  | 2.2   | 3    |               |
| 3D4 65-200/2.2   | 2.2   | 3    |               |
| 3D4 65-200/3     | 3     | 4    |               |

\* Mean value of several measures at 1m distance  
around the pump. Tolerance  $\pm 2.5$  dB.

Sound pressure level of motor pumps with AEG

**3DS4-3DP4 NOISE DATA**

| Pump type         |                   | Power |      | LpA - dB(A) * |
|-------------------|-------------------|-------|------|---------------|
| 3DS4              | 3DP4              | [kW]  | [HP] |               |
| 3DS4 32-125/0.25  | 3DP4 32-125/0.25  | 0.25  | 0.33 | <70           |
| 3DS4 32-160/0.37R | 3DP4 32-160/0.37R | 0.37  | 0.5  |               |
| 3DS4 32-160/0.37  | 3DP4 32-160/0.37  | 0.37  | 0.5  |               |
| 3DS4 32-200/0.55R | 3DP4 32-200/0.55R | 0.55  | 0.75 |               |
| 3DS4 32-200/0.55  | 3DP4 32-200/0.55  | 0.55  | 0.75 |               |
| 3DS4 32-200/0.75  | 3DP4 32-200/0.75  | 0.75  | 1    |               |
| 3DS4 40-125/0.37R | 3DP4 40-125/0.37R | 0.37  | 0.5  |               |
| 3DS4 40-125/0.37  | 3DP4 40-125/0.37  | 0.37  | 0.5  |               |
| 3DS4 40-160/0.55R | 3DP4 40-160/0.55R | 0.55  | 0.75 |               |
| 3DS4 40-160/0.55  | 3DP4 40-160/0.55  | 0.55  | 0.75 |               |
| 3DS4 40-200/1.1R  | 3DP4 40-200/1.1R  | 1.1   | 1.5  |               |
| 3DS4 40-200/1.1   | 3DP4 40-200/1.1   | 1.1   | 1.5  |               |
| 3DS4 40-200/1.5   | 3DP4 40-200/1.5   | 1.5   | 2    |               |
| 3DS4 50-125/0.55R | 3DP4 50-125/0.55R | 0.55  | 0.75 |               |
| 3DS4 50-125/0.55  | 3DP4 50-125/0.55  | 0.55  | 0.75 |               |
| 3DS4 50-160/1.1R  | 3DP4 50-160/1.1R  | 1.1   | 1.5  |               |
| 3DS4 50-160/1.1   | 3DP4 50-160/1.1   | 1.1   | 1.5  |               |
| 3DS4 50-200/1.5R  | 3DP4 50-200/1.5R  | 1.5   | 2    |               |
| 3DS4 50-200/1.5   | 3DP4 50-200/1.5   | 1.5   | 2    |               |
| 3DS4 50-200/2.2   | 3DP4 50-200/2.2   | 2.2   | 3    |               |
| 3DS4 65-125/0.55  | 3DP4 65-125/0.55  | 0.55  | 0.75 |               |
| 3DS4 65-125/0.75  | 3DP4 65-125/0.75  | 0.75  | 1    |               |
| 3DS4 65-125/1.1   | 3DP4 65-125/1.1   | 1.1   | 1.5  |               |
| 3DS4 65-160/1.1   | 3DP4 65-160/1.1   | 1.1   | 1.5  |               |
| 3DS4 65-160/1.5   | 3DP4 65-160/1.5   | 1.5   | 2    |               |
| 3DS4 65-160/2.2   | 3DP4 65-160/2.2   | 2.2   | 3    |               |
| 3DS4 65-200/2.2R  | 3DP4 65-200/2.2R  | 2.2   | 3    |               |
| 3DS4 65-200/2.2   | 3DP4 65-200/2.2   | 2.2   | 3    |               |
| 3DS4 65-200/3     | 3DP4 65-200/3     | 3     | 4    |               |

\* Mean value of several measures at 1m distance around the pump.

Tolerance  $\pm 2.5$  dB.

Sound pressure level of motor pumps with AEG



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