



Japanese Technology since 1912

## 3 SERIES

Data Book 50Hz



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## SPECIFICATION

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| Version    |        | 3M | 3S | 3P | 3LM | 3LMZ | 3LS | 3LSZ | 3LP |
|------------|--------|----|----|----|-----|------|-----|------|-----|
| Pump sizes | 32-125 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 32-160 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 32-200 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 40-125 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 40-160 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 40-200 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 50-125 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 50-160 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 50-200 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 65-125 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 65-160 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 65-200 | ■  | ■  | ■  | ●   | ◇    | ●   | ◇    | ●   |
|            | 65-250 | -  | -  | -  | -   | -    | ●   | -    | ●   |
|            | 80-160 | -  | -  | -  | ●   | -    | ●   | -    | ●   |
|            | 80-200 | -  | -  | -  | -   | -    | ●   | -    | ●   |
|            | 80-250 | -  | -  | -  | -   | -    | ▲   | -    | ▲   |

■ Available also with H, HS, HW, HSW, E, Q1Q1EGG, Q1U3EGG, Q1AEGG, U3CEGG, U3U3CEGG version.  
U3U3EGG not available for model 65-160/15 and 65-200

● Available also with H, HW, HSW, E, Q1Q1EGG, Q1U3EGG, Q1AEGG, U3CEGG, U3U3EGG version.  
U3U3EGG available for model 32, 40, 50, 65-125 and 65-160/7.5/9.2/11

▲ Available also with H, HW, HSW, ES, Q1Q1EGG, Q1U3EGG, Q1AEGG, U3CEGG version.

— Not available.

◇ Available only standard version.

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| PUMP                           |                    |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|--------------------------------|--------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----|------------------------------------|---------------------------------------------------------------|-----|---------|------------------------------------------------------|--|---------|-----------------------------------------------------------|--|--|--|
| Version                        |                    |                                         | 3M                                                                                                                                                                       | 3S                                       | 3P | 3LM(Z)                             | 3LS(Z)                                                        | 3LP |         |                                                      |  |         |                                                           |  |  |  |
| Liquid Handled                 | Type of liquid     |                                         | Clean water and moderately aggressive fluids                                                                                                                             |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | Temperature [°C]   |                                         | min. -10<br>max. +120<br>For full details see section "FLUID TEMPERATURE RANGE" on pag.333                                                                               |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Maximum working pressure [MPa] |                    |                                         | 1                                                                                                                                                                        |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Construction                   | Impeller           |                                         | Closed centrifugal type for 32, 40, 50 version<br>Reinforced laser welding for 40-200/11, 50-200/15<br>Closed centrifugal three dimensional blades for 65 and 80 version |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | Shaft seal type    |                                         | Mechanical seal                                                                                                                                                          |                                          |    |                                    | Mechanical seal with stationary ring secured against rotation |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | Bearing            |                                         | Sealed ball bearing                                                                                                                                                      |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Pipe Connection                | Suction            | 32-125/160/200                          |                                                                                                                                                                          | Flange DN50 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 40-125/160/200                          |                                                                                                                                                                          | Flange DN65 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 50-125/160/200                          |                                                                                                                                                                          | Flange DN80 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-125/160/200/250                      |                                                                                                                                                                          | Flange DN100 according EN1092-1 Standard |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | Discharge          | 32-125/160/200                          |                                                                                                                                                                          | Flange DN32 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 40-125/160/200                          |                                                                                                                                                                          | Flange DN40 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 50-125/160/200                          |                                                                                                                                                                          | Flange DN50 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-125/160/200/250                      |                                                                                                                                                                          | Flange DN65 according EN1092-1 Standard  |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| 80-160/200/250                 |                    | Flange DN80 according EN1092-1 Standard |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Material                       | Casing             | 32-125/160/200                          |                                                                                                                                                                          | EN 1.4301 (AISI 304)                     |    |                                    | EN 1.4404 (AISI 316L)                                         |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 40-125/160/200                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 50-125/160/200                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-125/160/200                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-250                                  |                                                                                                                                                                          | /                                        |    |                                    | CF8M - EN 1.4408 (AISI 316)                                   |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 80-160/200/250                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | Impeller                                | 32-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         | EN 1.4301 (AISI 304)                                 |  |         | EN 1.4404 (AISI 316L)                                     |  |  |  |
|                                |                    |                                         | 40-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 50-125/160/200     |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-125/160/200     |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-250                                  |                                                                                                                                                                          | CF8M - EN 1.4408 (AISI 316)              |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 80-160/200/250                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | Casing cover                            | 32-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         | EN 1.4301 (AISI 304)                                 |  |         | EN 1.4404 (AISI 316L)                                     |  |  |  |
|                                |                    |                                         | 40-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 50-125/160/200     |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-125/160/200     |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 65-250                                  |                                                                                                                                                                          | /                                        |    |                                    | CF8M - EN 1.4408 (AISI 316)                                   |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | 80-160/200/250                          |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                |                    | Mechanical seal                         | 32-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         | Ceramic/Carbon/NBR<br>(For version see page 327+333) |  |         | SiC/SiC/FPM (L version)<br>(For version see page 327+333) |  |  |  |
|                                |                    |                                         | 40-125/160/200                                                                                                                                                           |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| 50-125/160/200                 |                    |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| 65-125/160/200                 |                    |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-250             |                                         | /                                                                                                                                                                        |                                          |    | SiC/Carbon/EPDM (ES version) [2]   |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 80-160/200         |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 80-250             |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | O-ring             |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     | NBR [1] |                                                      |  | FPM [3] |                                                           |  |  |  |
| Shaft                          | 32, 40, 50, 65-125 |                                         | d=19                                                                                                                                                                     | EN 1.4301 (AISI 304)                     |    |                                    | EN 1.4404 (AISI 316L)                                         |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-160/11          |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 50-200/15          |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-160/15          |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-200             |                                         | d=24                                                                                                                                                                     | /                                        |    |                                    | EN 1.4462 (Duplex stainless steel)                            |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 65-250             |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 80-160             |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 80-200/22          |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
|                                | 80-200/30-37       |                                         | d=24                                                                                                                                                                     | EN 1.4404 (AISI 316L)                    |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| 80-250                         |                    |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| 80-250                         |                    | d=29                                    |                                                                                                                                                                          |                                          |    | EN 1.4462 (Duplex stainless steel) |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Bracket                        |                    |                                         |                                                                                                                                                                          |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |
| Applicable standard of test    |                    |                                         | Cast iron - Aluminium<br>ISO 9906:2012 – Grade 3B                                                                                                                        |                                          |    |                                    |                                                               |     |         |                                                      |  |         |                                                           |  |  |  |

[1] FPM for H-HS-HW-HSW version / EPDM for Q1AEGG, U3U3EGG, Q1Q1EGG, Q1U3EGG, U3EGG

[2] ES option only for 80-250 2 poles Ø35

[3] EPDM for E-ES version and for Q1AEGG, U3U3EGG, Q1Q1EGG, Q1U3EGG, U3CEGG

## SPECIFICATION

50Hz

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for all the EPDM E version models (sizes 32-40-50):

Approvals for drinking water application

DM174/2004 (ICIM) approved product



ONLY for 3ME (EPDM version) (E version models), sizes 32-40-50-65:

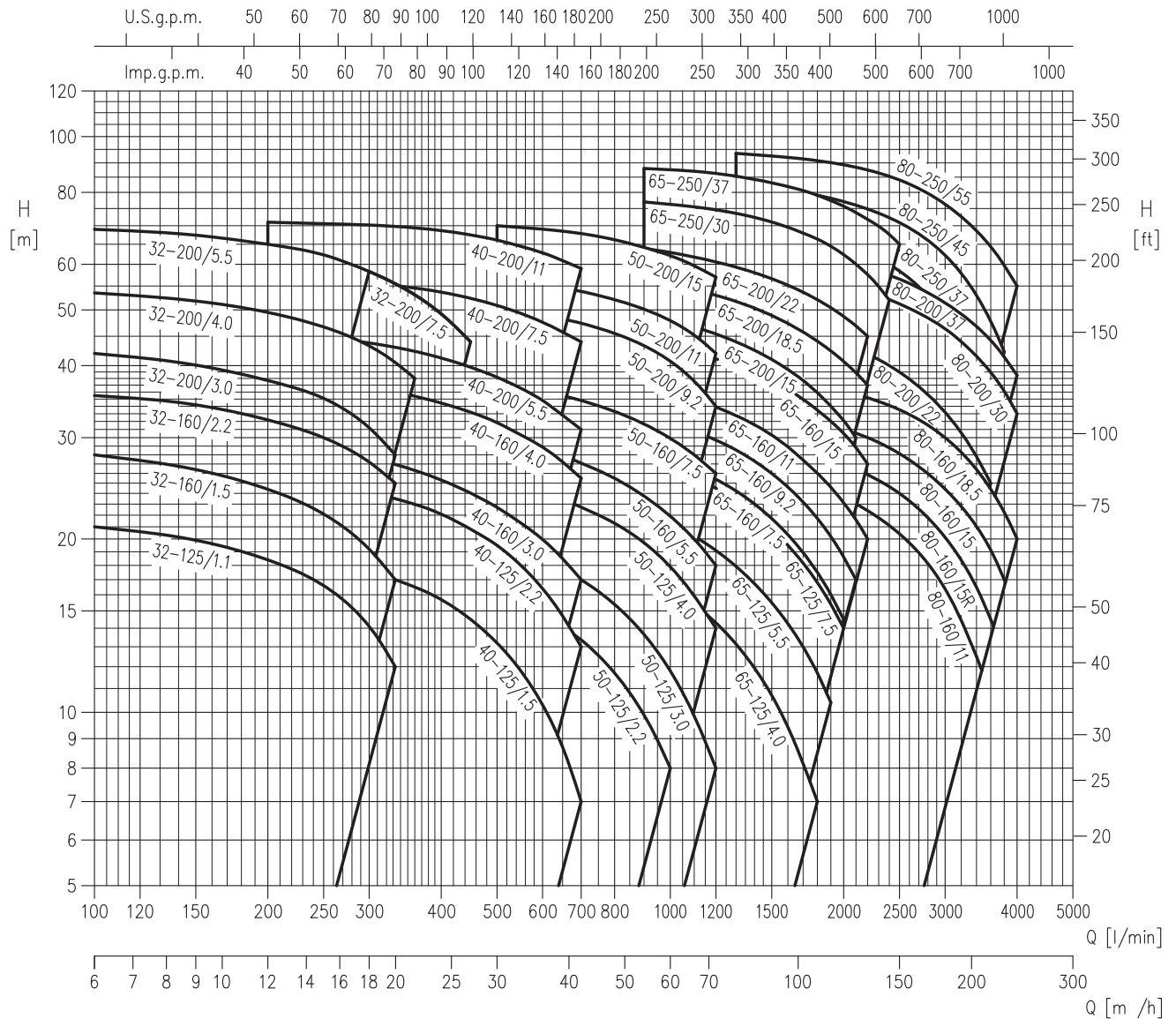
Approvals for drinking water application

WRAS approved product



| MOTOR                               |                        |                                                                |                                                                    |  |       |
|-------------------------------------|------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|--|-------|
| Type                                | 3(.)M(Z)               |                                                                | 3(.)S(Z)                                                           |  | 3(.)P |
|                                     | Electric - TEFC        |                                                                |                                                                    |  |       |
|                                     | Single Phase           | Three Phase                                                    |                                                                    |  |       |
| Efficiency level (Reg. 1781/2019)   | IE2                    |                                                                | IE3                                                                |  |       |
| No. of Poles                        | 2                      |                                                                |                                                                    |  |       |
| Rotation speed [min <sup>-1</sup> ] | ≈ 2900                 |                                                                |                                                                    |  |       |
| Insulation Class                    | F                      |                                                                | F (temperature rise class B)                                       |  |       |
| Protection degree (CEI EN 60034-5)  | IP 55                  |                                                                |                                                                    |  |       |
| Power rating [kW]                   | 1.1 ÷ 2.2              | 1.1 ÷ 22                                                       | 1.1 ÷ 55                                                           |  |       |
| [HP]                                | 1.5 ÷ 3.0              | 1.5 ÷ 30                                                       | 1.5 ÷ 7.5                                                          |  |       |
| Frequency [Hz]                      | 50                     |                                                                |                                                                    |  |       |
| Voltage [V]                         | 230 ±10%               | 230/400 ±10% (up to 4.0 kW)<br>400/690 ±10% (5.5 kW and above) |                                                                    |  |       |
| Over load protection                | Provided by the user   |                                                                |                                                                    |  |       |
| Casing material                     | Aluminium              |                                                                |                                                                    |  |       |
| Motor support                       | Cast iron - Alluminium |                                                                |                                                                    |  |       |
| Dimensions of cable entry           | M20x1.5                | PG13.5                                                         | M32x1.5                                                            |  |       |
|                                     |                        | PG16                                                           | M40x1.5                                                            |  |       |
|                                     |                        | PG21                                                           | M50x1.5                                                            |  |       |
|                                     |                        | M20x1.5, M25x1.5                                               |                                                                    |  |       |
| Flange mount (IEC motor)            | /                      |                                                                | 3(.)S IMB5 (up to 2.2 kW)<br>IMB35 (3 kW and above)<br>3LSZ IM B35 |  | IM B3 |



**PERFORMANCE RANGE**



## SELECTION CHART

50Hz

Rev.AL

## SELECTION CHART

## 3 SERIES: 32, 40, 50 Version

| Pump type       | l/min<br>m³/h | 0    | 100<br>6 | 150<br>9 | 200<br>12 | 300<br>18 | 333<br>20 | 360<br>22 | 400<br>24 | 450<br>27 | 500<br>30 | 600<br>36 | 700<br>42 | 800<br>48 | 1000<br>60 | 1200<br>72 |
|-----------------|---------------|------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 32-125/1.1(M) * | 22.5          | 21   | 19.9     | 18.4     | 14.1      | 12        | -         | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-160/1.5(M) * | 29.5          | 28   | 26.5     | 24.5     | 19.2      | 17        | -         | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-160/2.2(M) * | 37            | 35.5 | 34       | 32       | 27        | 25        | -         | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-200/3.0      | 44            | 42   | 40       | 37.5     | 31        | 28        | -         | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-200/4.0      | 55            | 53.5 | 52       | 49.5     | 43.5      | 40.5      | 38        | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-200/5.5      | 70.5          | 69   | 67.5     | 65       | 58.5      | -         | -         | -         | -         | -         | -         | -         | -         | -         | -          | -          |
| 32-200/7.5      | 70.5          | 69   | 67.5     | 65       | 58.5      | 55.5      | 53        | 49        | 44        | -         | -         | -         | -         | -         | -          | -          |
| 40-125/1.5(M) * | 20            | -    | -        | 19       | 17.6      | 17        | 16.5      | 15.7      | 14.5      | 13.2      | 10.3      | 7         | -         | -         | -          | -          |
| 40-125/2.2(M) * | 26.5          | -    | -        | 25.5     | 24        | 23.5      | 23        | 22        | 21        | 19.5      | 16.4      | 13        | -         | -         | -          | -          |
| 40-160/3.0      | 31            | -    | -        | 29.5     | 27.5      | 27        | 26.5      | 25.5      | 24        | 22.5      | 20        | 17        | -         | -         | -          | -          |
| 40-160/4.0      | 40            | -    | -        | 38.5     | 37        | 36        | 35.5      | 34.5      | 33        | 32        | 29        | 25.5      | -         | -         | -          | -          |
| 40-200/5.5      | 47            | -    | -        | 45.5     | 44        | 43        | 42.5      | 41        | 39.5      | 38        | 35        | 31        | -         | -         | -          | -          |
| 40-200/7.5      | 58            | -    | -        | 57       | 55.5      | 55        | 54.5      | 53.5      | 52.5      | 51        | 47.5      | 44        | -         | -         | -          | -          |
| 40-200/11       | 72            | -    | -        | 71       | 70        | 70        | 69.5      | 68.5      | 67.5      | 66        | 63        | 59        | -         | -         | -          | -          |
| 50-125/2.2(M) * | 19            | -    | -        | -        | -         | -         | -         | 17.5      | 17        | 16.3      | 14.9      | 13.4      | 11.7      | 8         | -          | -          |
| 50-125/3.0      | 22.7          | -    | -        | -        | -         | -         | -         | 21.7      | 21.4      | 21        | 19.9      | 18.5      | 16.9      | 13.3      | 9.5        | -          |
| 50-125/4.0      | 26.5          | -    | -        | -        | -         | -         | -         | 26        | 25.5      | 25        | 24        | 22.5      | 21.5      | 17.9      | 14         | -          |
| 50-160/5.5      | 33            | -    | -        | -        | -         | -         | -         | 31        | 30.5      | 30        | 28.5      | 27        | 25.5      | 22        | 18         | -          |
| 50-160/7.5      | 40            | -    | -        | -        | -         | -         | -         | 38.5      | 38        | 37.5      | 36        | 35        | 33.5      | 30        | 26         | -          |
| 50-200/9.2      | 53            | -    | -        | -        | -         | -         | -         | -         | -         | 50        | 49        | 47.5      | 45.5      | 40.5      | 34         | -          |
| 50-200/11       | 59            | -    | -        | -        | -         | -         | -         | -         | -         | 56        | 55        | 54        | 52        | 48        | 42         | -          |
| 50-200/15       | 72            | -    | -        | -        | -         | -         | -         | -         | -         | 70        | 69        | 68        | 66        | 62        | 57         | -          |

\* Single phase version only for 3M type

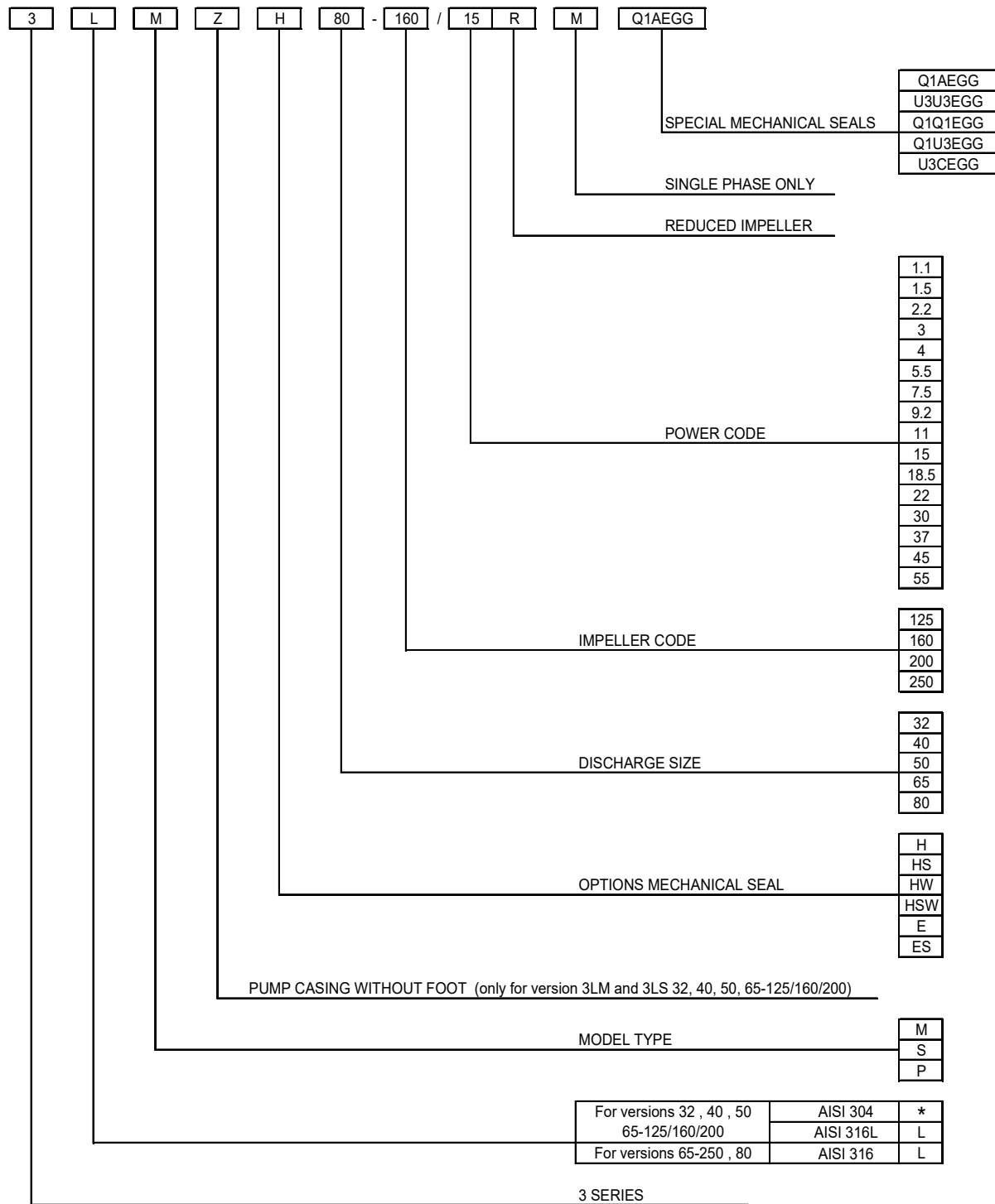
## 3 SERIES: 65, 80 Version

| Pump type   | l/min<br>m³/h | 0    | 600<br>36 | 700<br>42 | 900<br>54 | 1300<br>78 | 1500<br>90 | 1700<br>102 | 1900<br>114 | 2100<br>126 | 2200<br>132 | 2300<br>138 | 2400<br>144 | 2500<br>150 | 3000<br>180 | 3400<br>204 | 3600<br>216 | 3800<br>228 | 4000<br>240 |
|-------------|---------------|------|-----------|-----------|-----------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 65-125/4.0  | 22.2          | 19.8 | 19        | 17.3      | 13.3      | 11         | 8.6        | 6.3         | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-125/5.5  | 27            | -    | 24        | 22.2      | 18        | 15.7       | 13.3       | 10.8        | 8           | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-125/7.5  | 32            | -    | 29.5      | 27.8      | 23.5      | 21.1       | 18.7       | 16.1        | 13.4        | 12          | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-160/7.5  | 32            | -    | 30        | 28.6      | 24.8      | 22.5       | 19.9       | 17.1        | 14.2        | -           | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-160/9.2  | 36.5          | -    | 34.5      | 32.8      | 28.8      | 26.5       | 23.9       | 21.1        | 18.3        | 16.8        | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-160/11   | 40.5          | -    | 38.5      | 37.1      | 33.1      | 30.9       | 28.4       | 25.8        | 23          | 21.5        | 20          | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-160/15   | 48            | -    | 45.5      | 44        | 40        | 37.8       | 35.3       | 32.6        | 29.6        | 28          | 26.5        | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-200/15   | 53.5          | -    | 51        | 49        | 44        | 41.5       | 38.4       | 35.3        | 31.8        | 30          | -           | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-200/18.5 | 60.5          | -    | 58.5      | 56.5      | 51.5      | 49         | 46         | 43          | 39.7        | 38          | 36.3        | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-200/22   | 67            | -    | 65.5      | 64        | 59.5      | 57         | 54         | 51          | 48          | 46.5        | 45          | -           | -           | -           | -           | -           | -           | -           | -           |
| 65-250/30   | 78            | -    | -         | 77        | 73.5      | 71         | 68         | 64.5        | 60          | 57.5        | 55          | 52          | -           | -           | -           | -           | -           | -           | -           |
| 65-250/37   | 89            | -    | -         | 88        | 85.5      | 83         | 80.5       | 77.5        | 74          | 72          | 70          | 67.5        | 65          | -           | -           | -           | -           | -           | -           |
| 80-160/11   | 29            | -    | -         | -         | 27.3      | 26.4       | 25.4       | 24.2        | 23          | 22.4        | 21.8        | 21.1        | 20.4        | 16.4        | 12.5        | -           | -           | -           | -           |
| 80-160/15R  | 32            | -    | -         | -         | 30.5      | 29.7       | 28.8       | 27.7        | 26.5        | 25.9        | 25.3        | 24.6        | 24          | 20.1        | 16.5        | 14.5        | -           | -           | -           |
| 80-160/15   | 35            | -    | -         | -         | 34        | 33.3       | 32.5       | 31.5        | 30.5        | 30          | 29.4        | 28.8        | 28.1        | 24.4        | 21          | 19.1        | 17          | -           | -           |
| 80-160/18.5 | 40            | -    | -         | -         | 39        | 38.4       | 37.6       | 36.7        | 35.7        | 35.2        | 34.7        | 34.1        | 33.5        | 30          | 26.4        | 24.4        | 22.3        | 20          | -           |
| 80-200/22   | 50            | -    | -         | -         | 48        | 47         | 45.5       | 44.5        | 43          | 42          | 41          | 40          | 39          | 33.2        | 27.8        | 25          | -           | -           | -           |
| 80-200/30   | 60            | -    | -         | -         | 58.5      | 58         | 57         | 56          | 54.5        | 54          | 53          | 52          | 51          | 46.5        | 41.5        | 39          | 36.1        | 33          | -           |
| 80-200/37   | 66            | -    | -         | -         | 64        | 63         | 62         | 61          | 59.5        | 59          | 58          | 57.5        | 56.5        | 51.5        | 47          | 44.5        | 41.5        | 38.5        | -           |
| 80-250/37   | 73            | -    | -         | -         | 71.5      | 70.5       | 68.5       | 66.5        | 64          | 63          | 61.5        | 60          | 58.5        | 48.5        | 38          | -           | -           | -           | -           |
| 80-250/45   | 84            | -    | -         | -         | 82.5      | 81.5       | 80         | 78          | 76          | 75          | 73.5        | 72.5        | 71          | 62          | 53          | 48          | 42.5        | -           | -           |
| 80-250/55   | 95            | -    | -         | -         | 93.5      | 92.5       | 91.5       | 90          | 88.5        | 87.5        | 86.5        | 85.5        | 84          | 76.5        | 68.5        | 64.5        | 60          | 55          | -           |

**TYPE KEY AND CURVE SPECIFICATIONS**

50Hz

Rev.AL

**TYPE KEY**

\*-) No indication

**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, 2 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<sub>2</sub> = pump power input (shaft power)
- $\eta$  = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

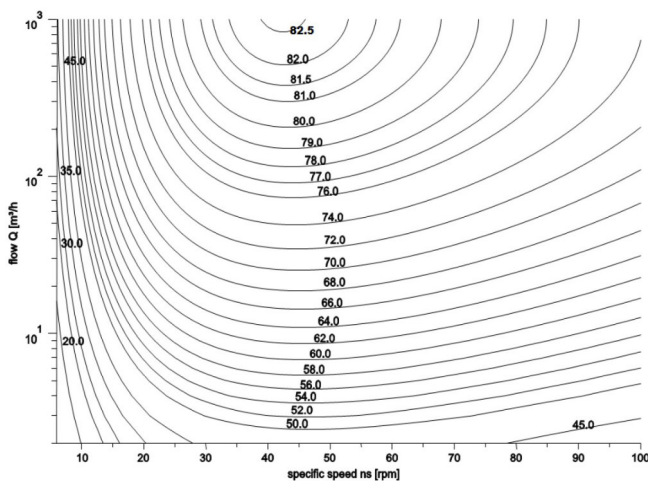
## MEI INDEX SPECIFICATION

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.

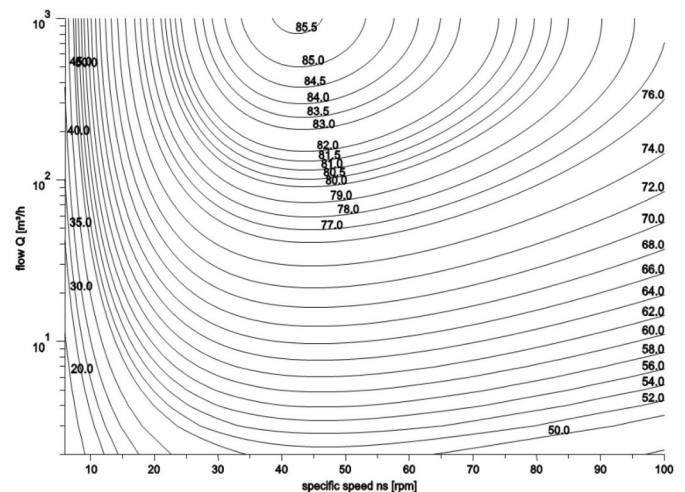
The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

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.

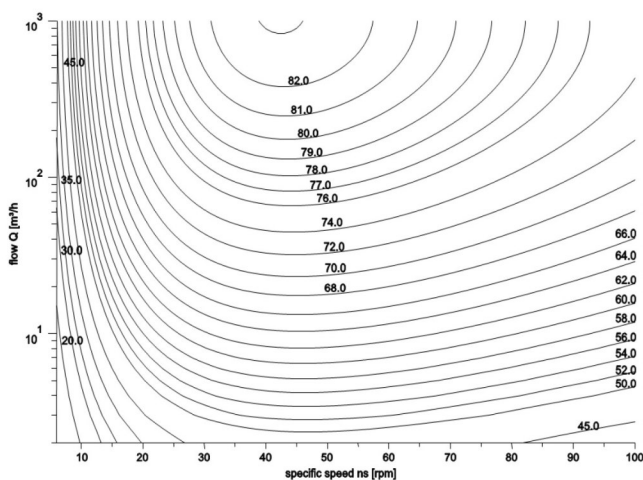
MEI = 0.4 for ESCC 2900 rpm



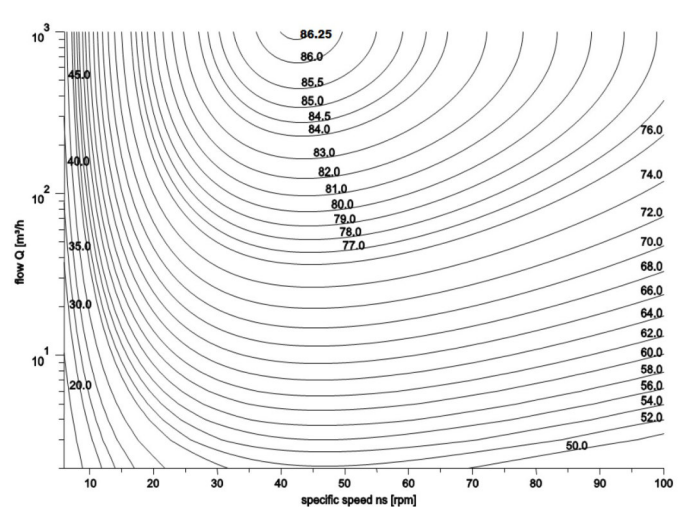
MEI = 0.7 for ESCC 2900rpm



MEI = 0.4 for ESOB 2900 rpm

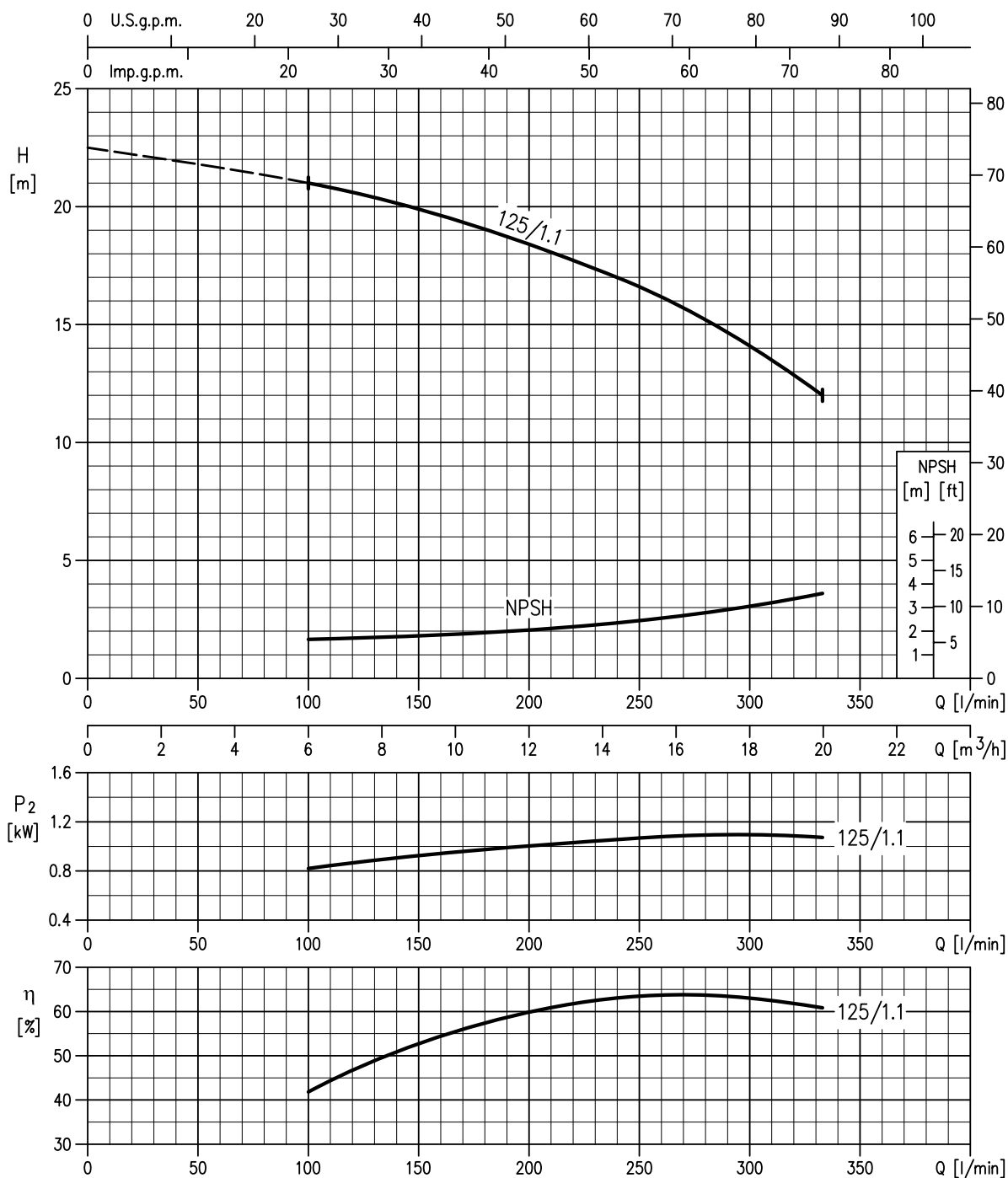


MEI = 0.7 for ESOB 2900rpm

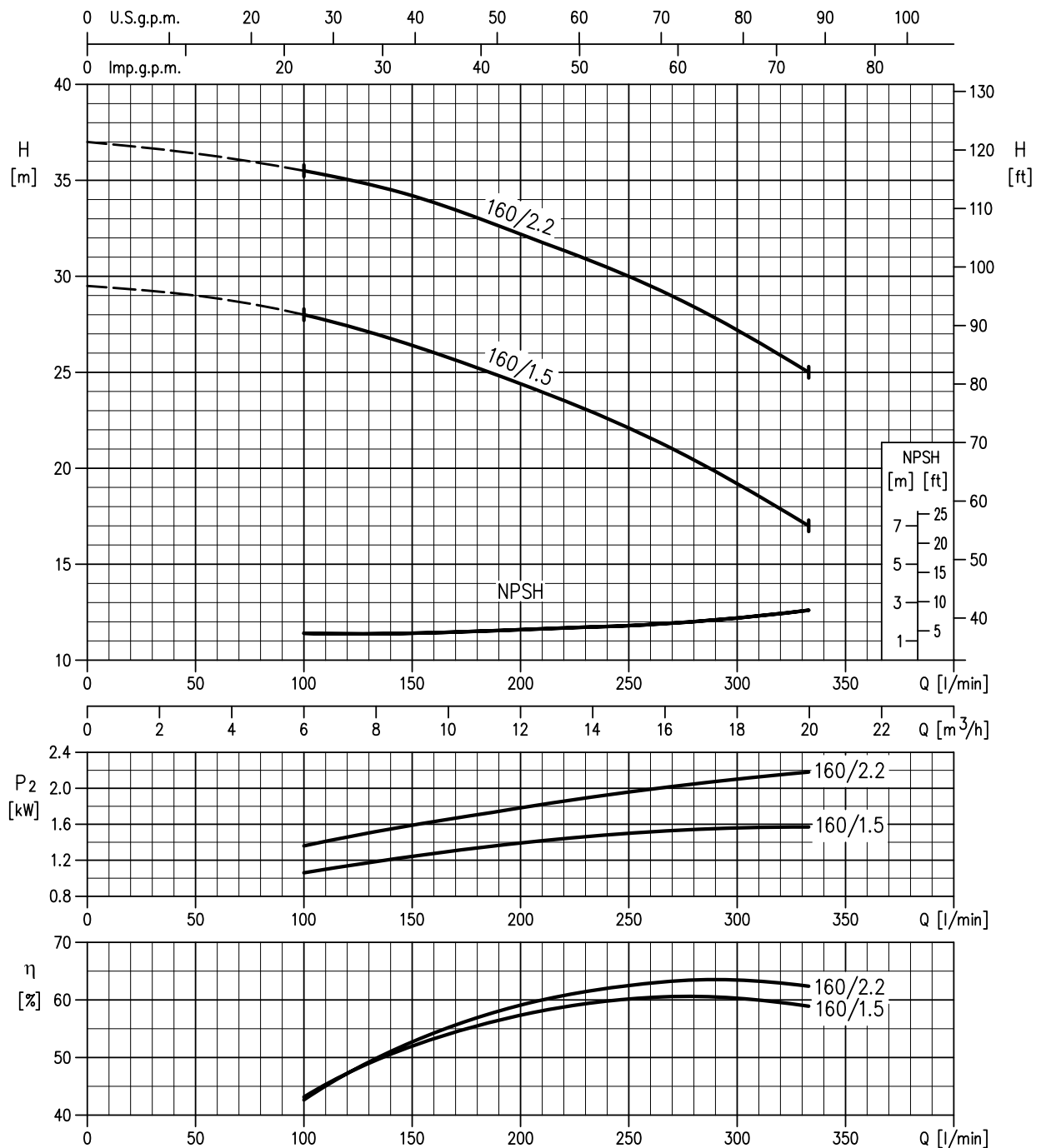


**MEI INDEX VALUE**

| SIZE   | MEI VALUE |       |       |
|--------|-----------|-------|-------|
|        | 3M        | 3S    | 3P    |
| 32-125 | ≥ 0.4     | ≥ 0.4 | ≥ 0.4 |
| 32-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 32-200 | ≥ 0.6     | ≥ 0.6 | ≥ 0.5 |
| 40-125 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |
| 40-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 40-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 50-125 | ≥ 0.4     | ≥ 0.4 | ≥ 0.4 |
| 50-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |
| 50-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 65-125 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 65-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |
| 65-200 | ≥ 0.7     | ≥ 0.7 | ≥ 0.6 |
| 65-250 | ≥ 0.5     | ≥ 0.5 | ≥ 0.4 |
| 80-160 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |
| 80-200 | ≥ 0.5     | ≥ 0.5 | ≥ 0.4 |
| 80-250 | ≥ 0.7     | ≥ 0.7 | ≥ 0.7 |

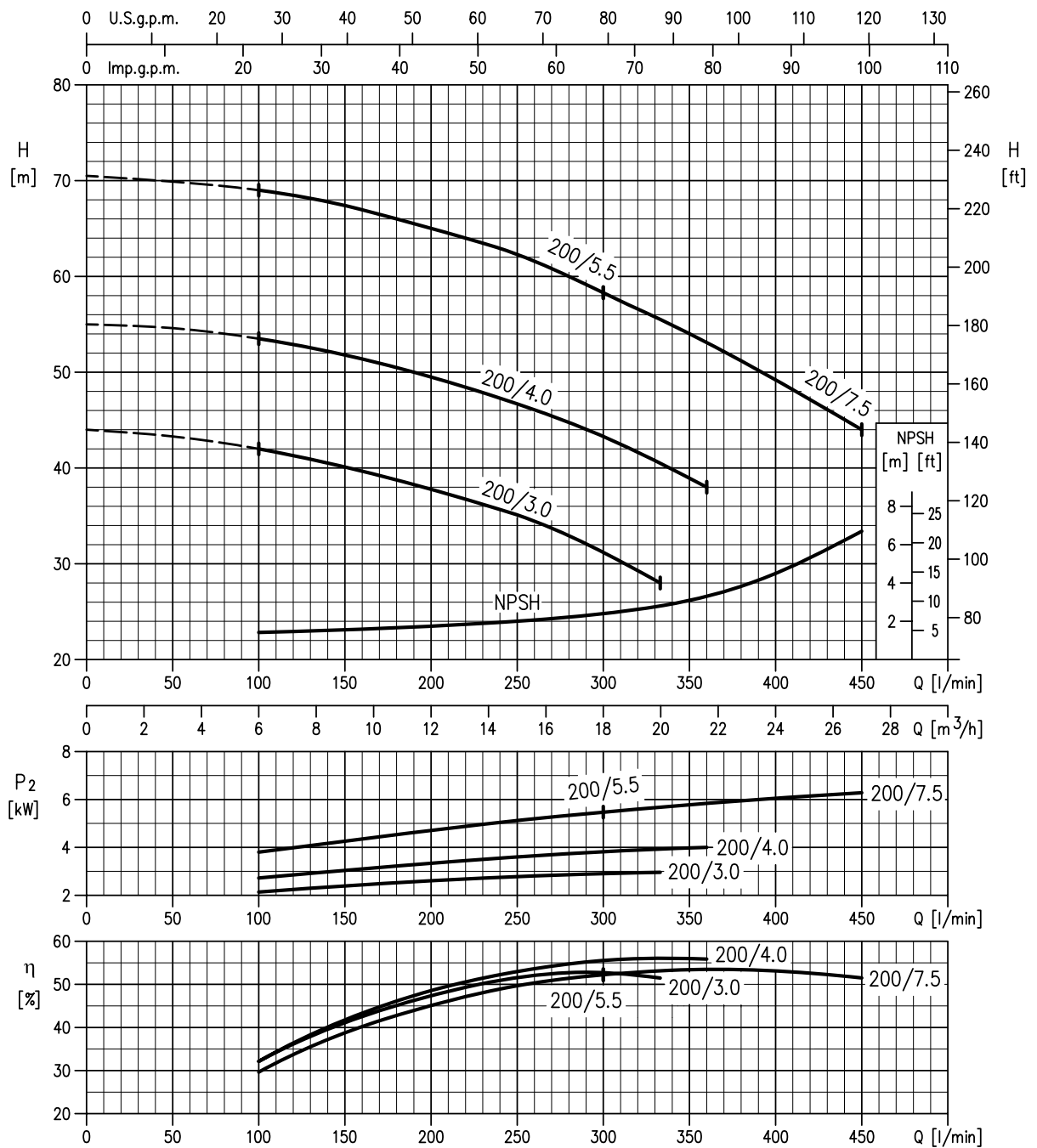
**32-125/1.1 – impeller diameter = 133 mm**

Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

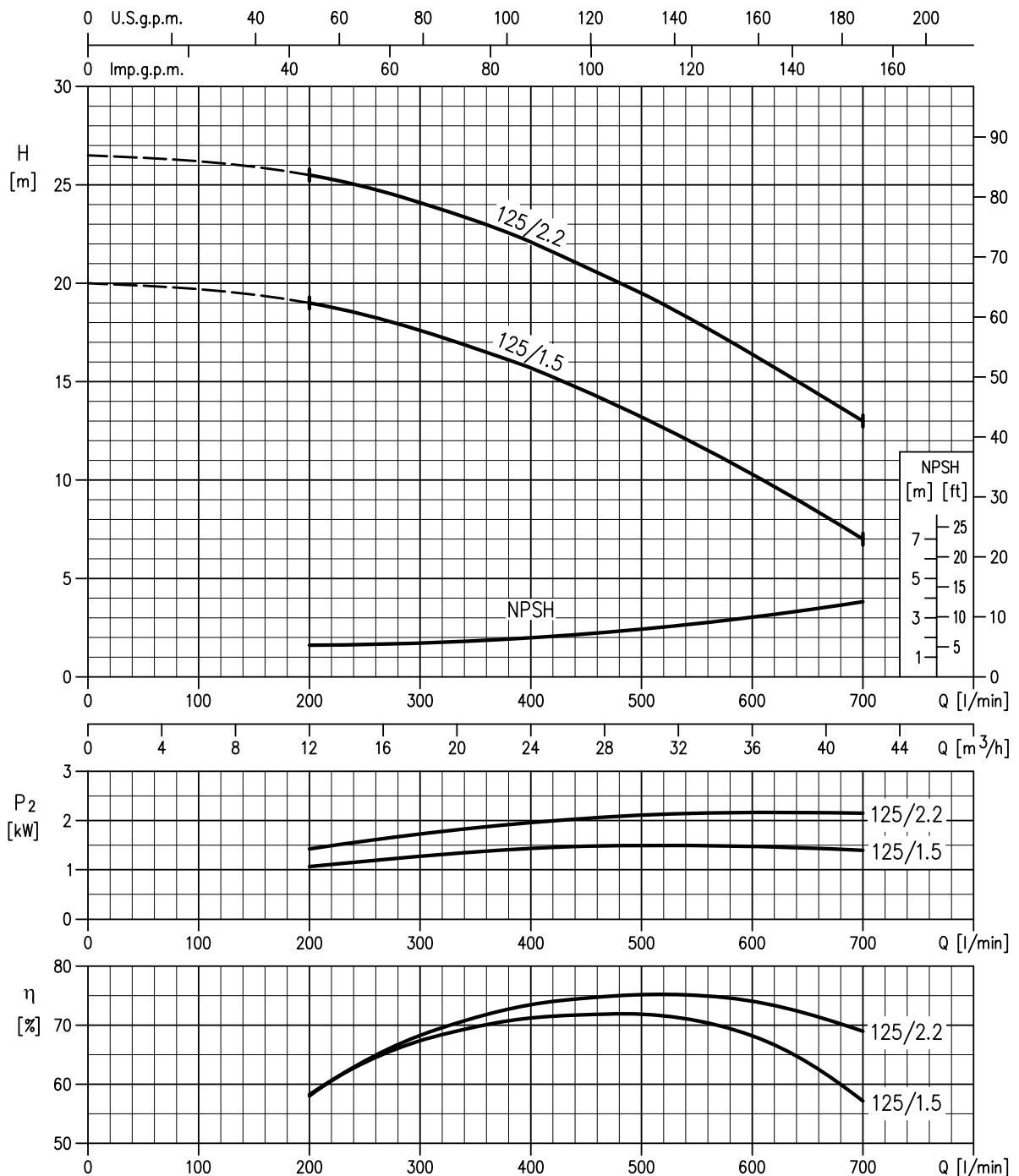
**32-160/1.5 - impeller diameter = 151 mm****32-160/2.2 - impeller diameter = 166 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

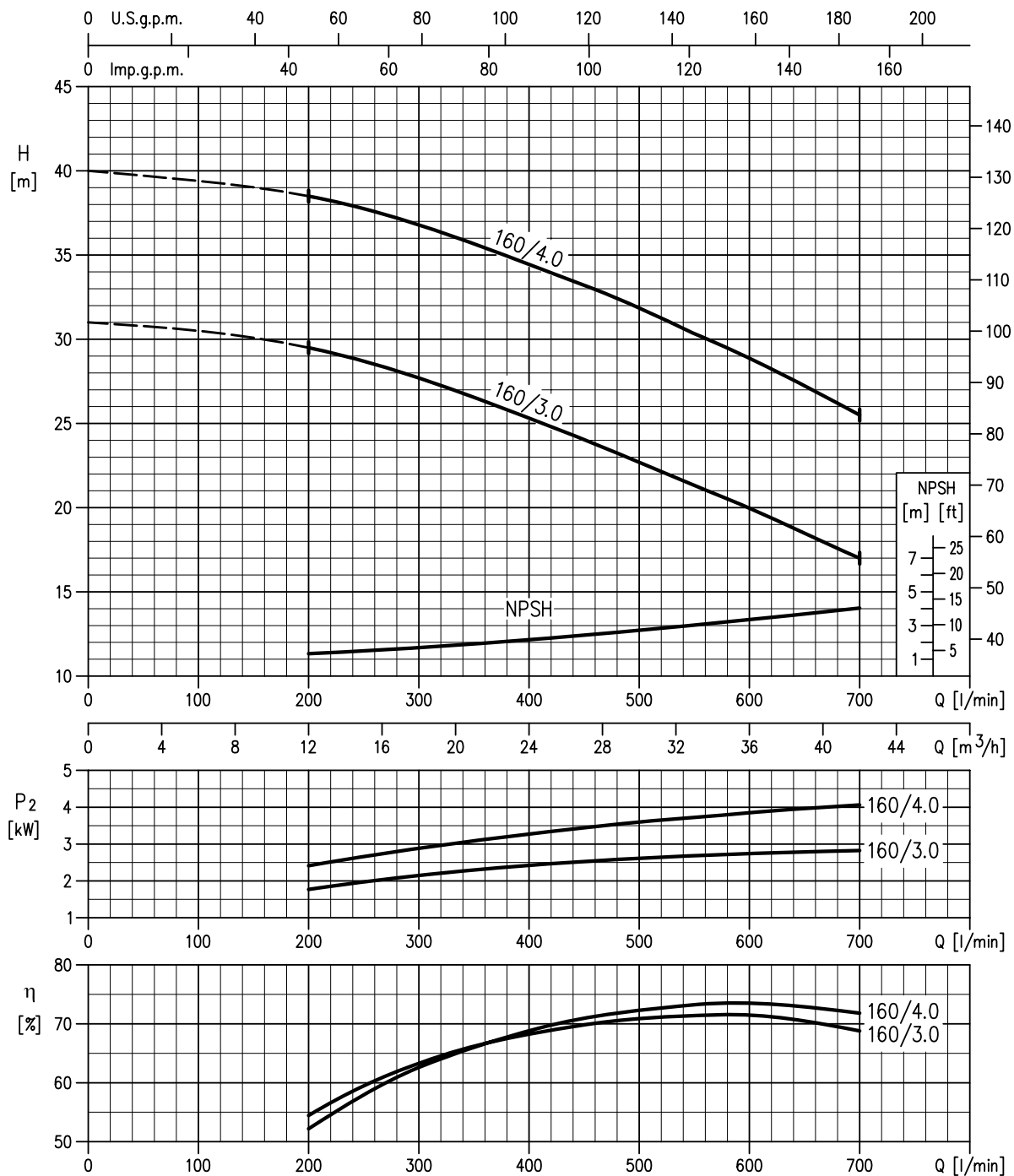


**32-200/3 – impeller diameter = 186 mm****32-200/4 – impeller diameter = 200 mm****32-200/5.5 – impeller diameter = 224 mm****32-200/7.5 – impeller diameter = 224 mm**

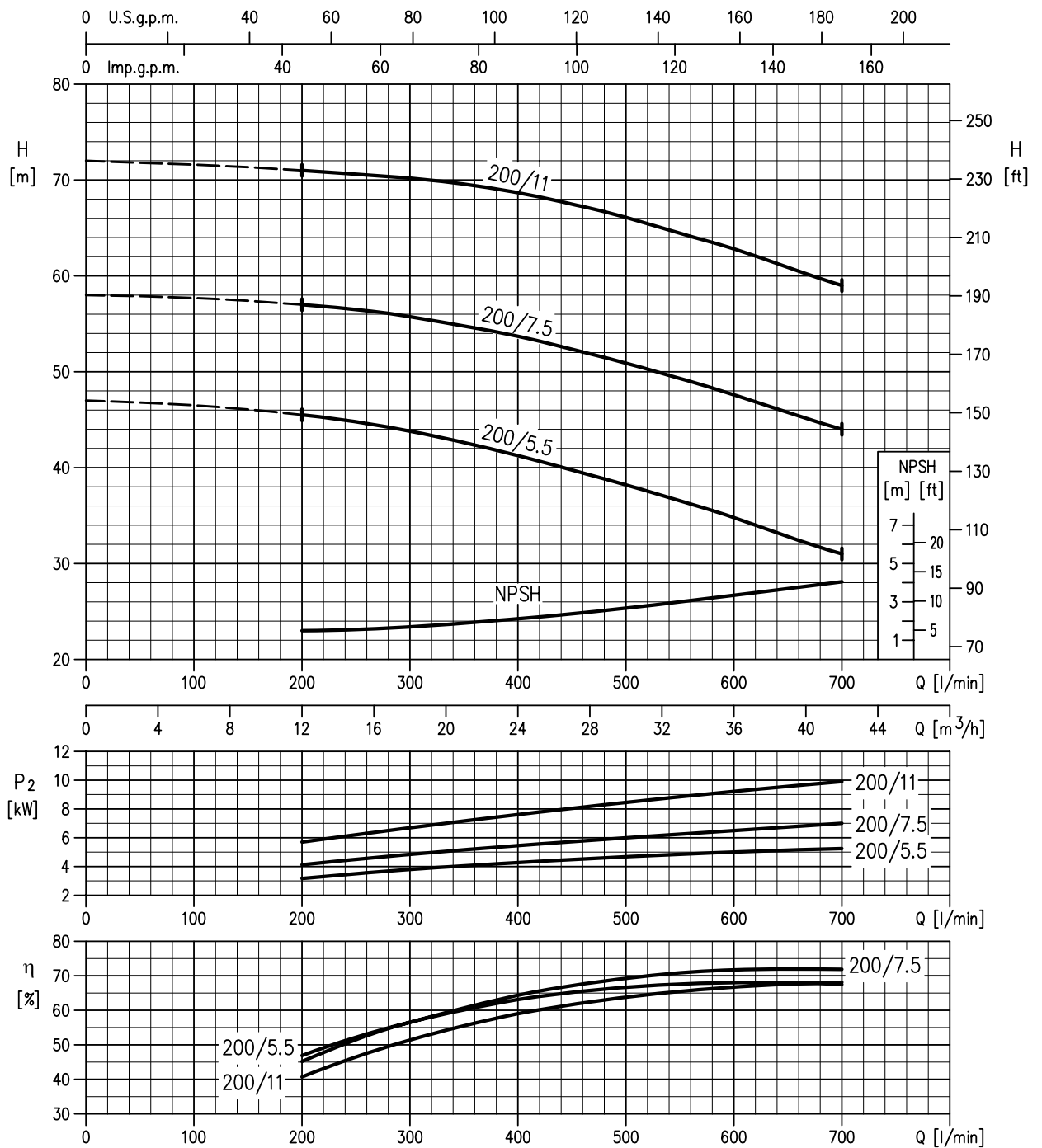
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**40-125/1.5 - impeller diameter = 125 mm****40-125/2.2 - impeller diameter = 140 mm**

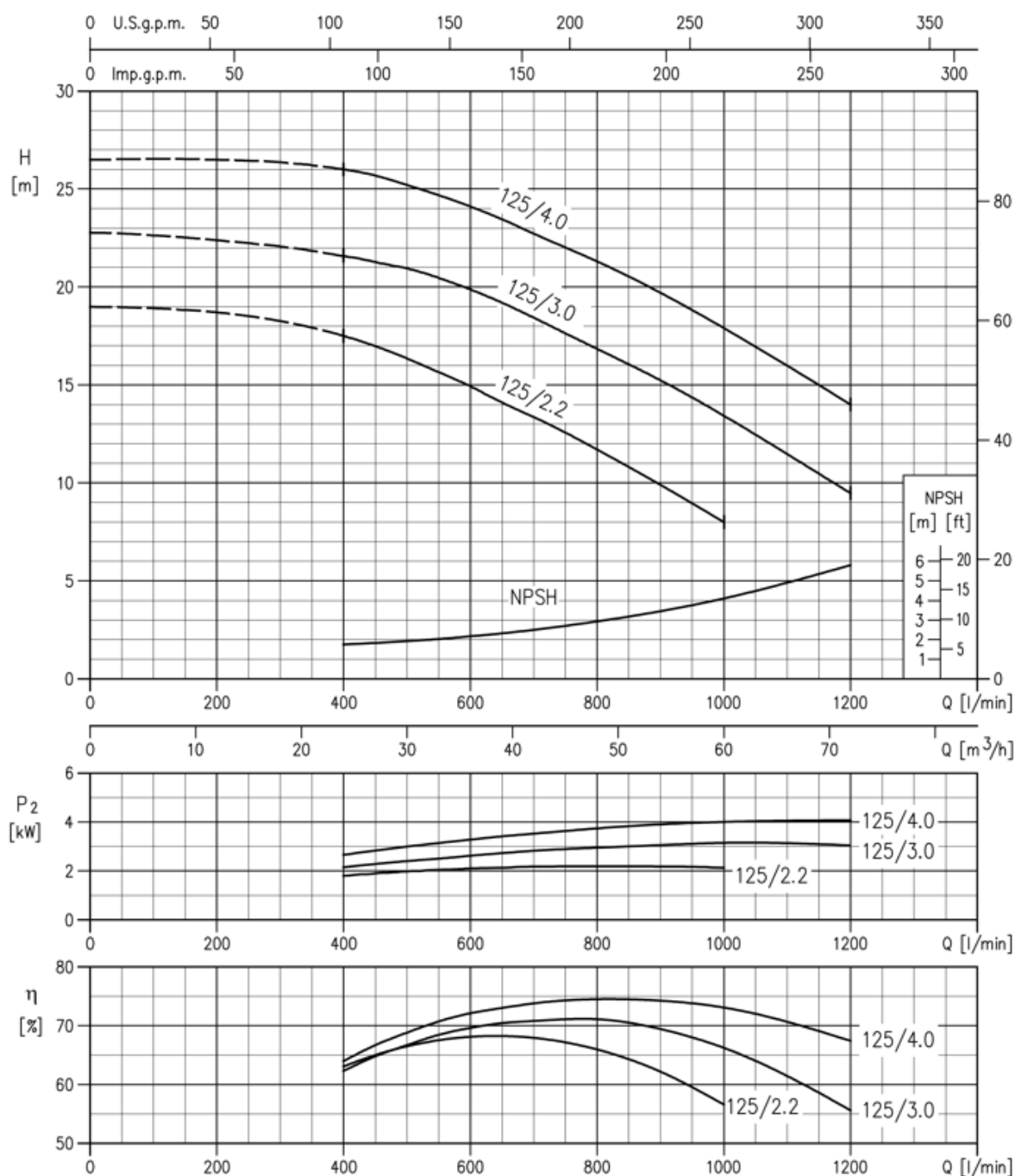
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**40-160/3 – impeller diameter = 151 mm****40-160/4 – impeller diameter = 166 mm**

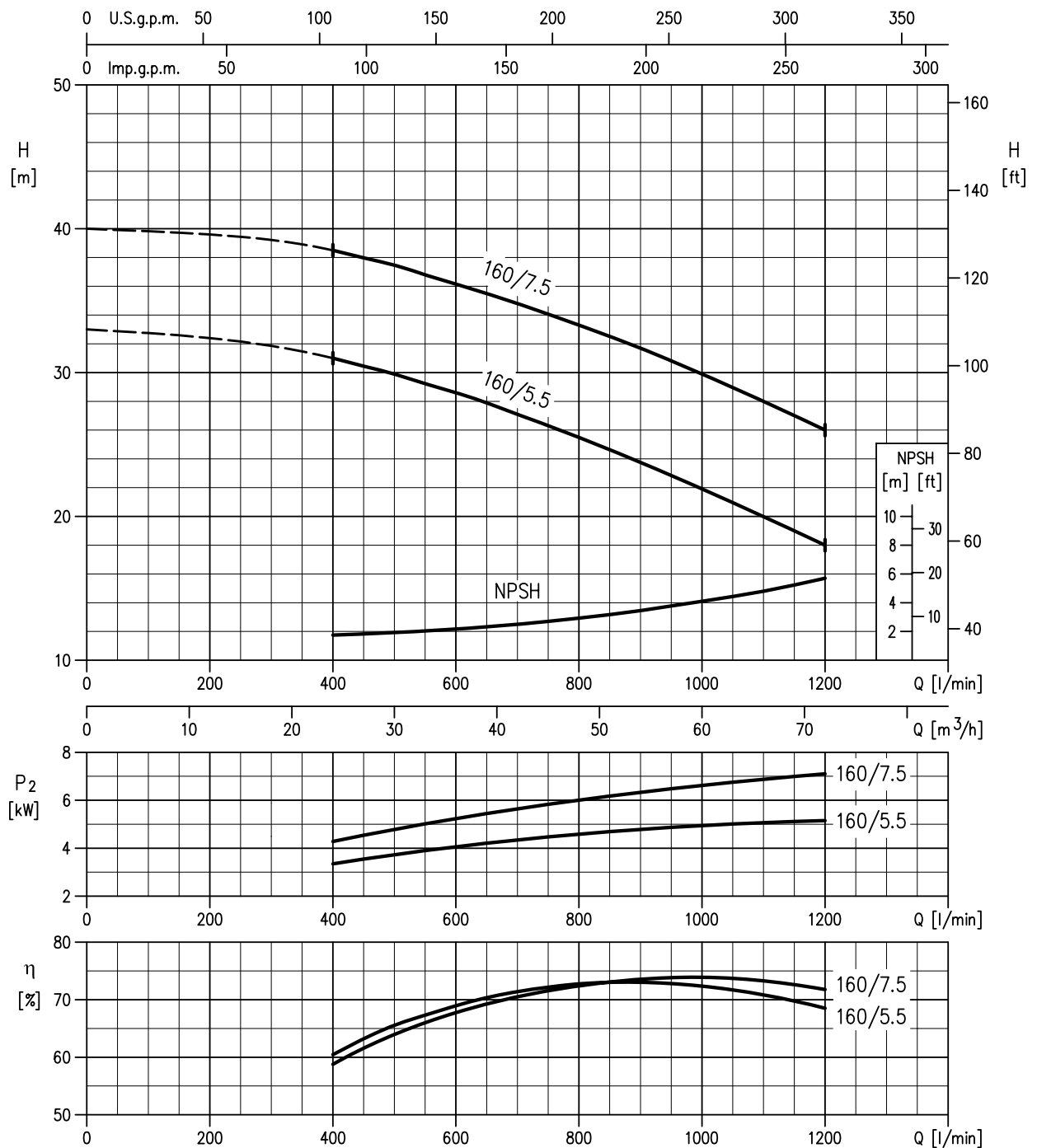
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**40-200/5.5 – impeller diameter = 183 mm****40-200/7.5 – impeller diameter = 200 mm****40-200/11 – impeller diameter = 224 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

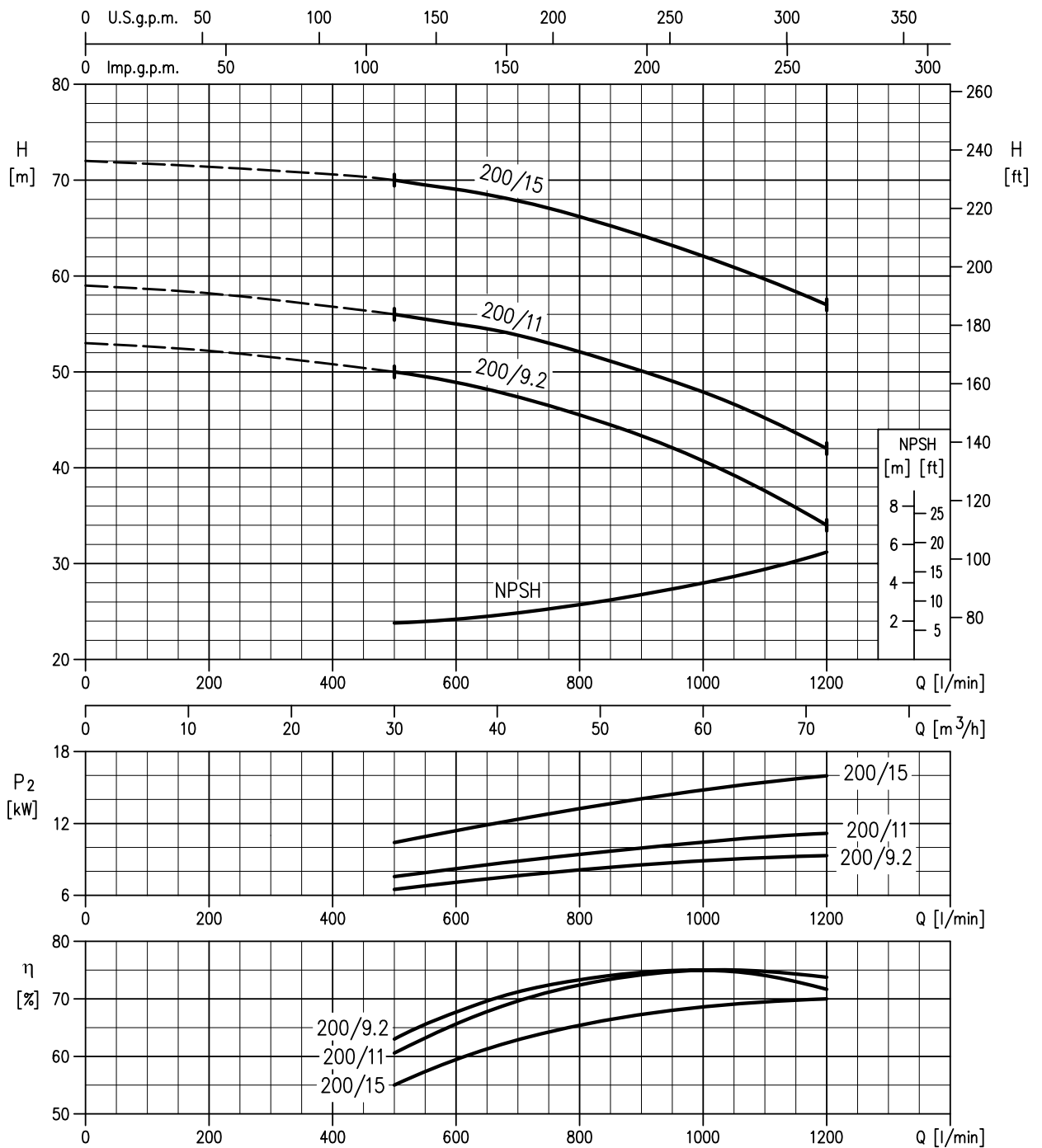
Test standard: ISO 9906:2012 - Grade 3B

**50-125/2.2 – impeller diameter = 121 mm****50-125/3 – impeller diameter = 131 mm****50-125/4 – impeller diameter = 140 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

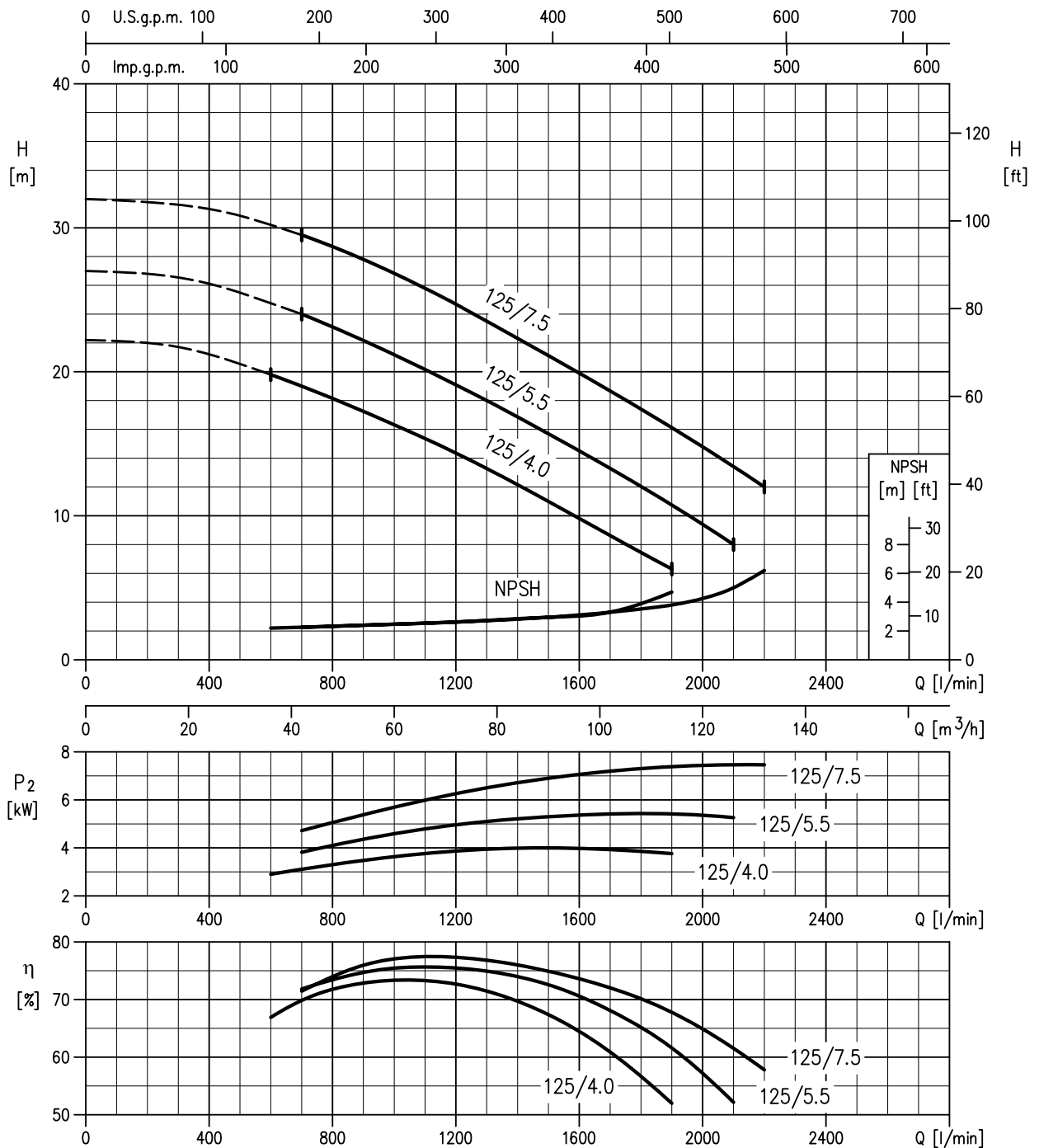
Test standard: ISO 9906:2012 - Grade 3B

**50-160/5.5 – impeller diameter = 154 mm****50-160/7.5 – impeller diameter = 166 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

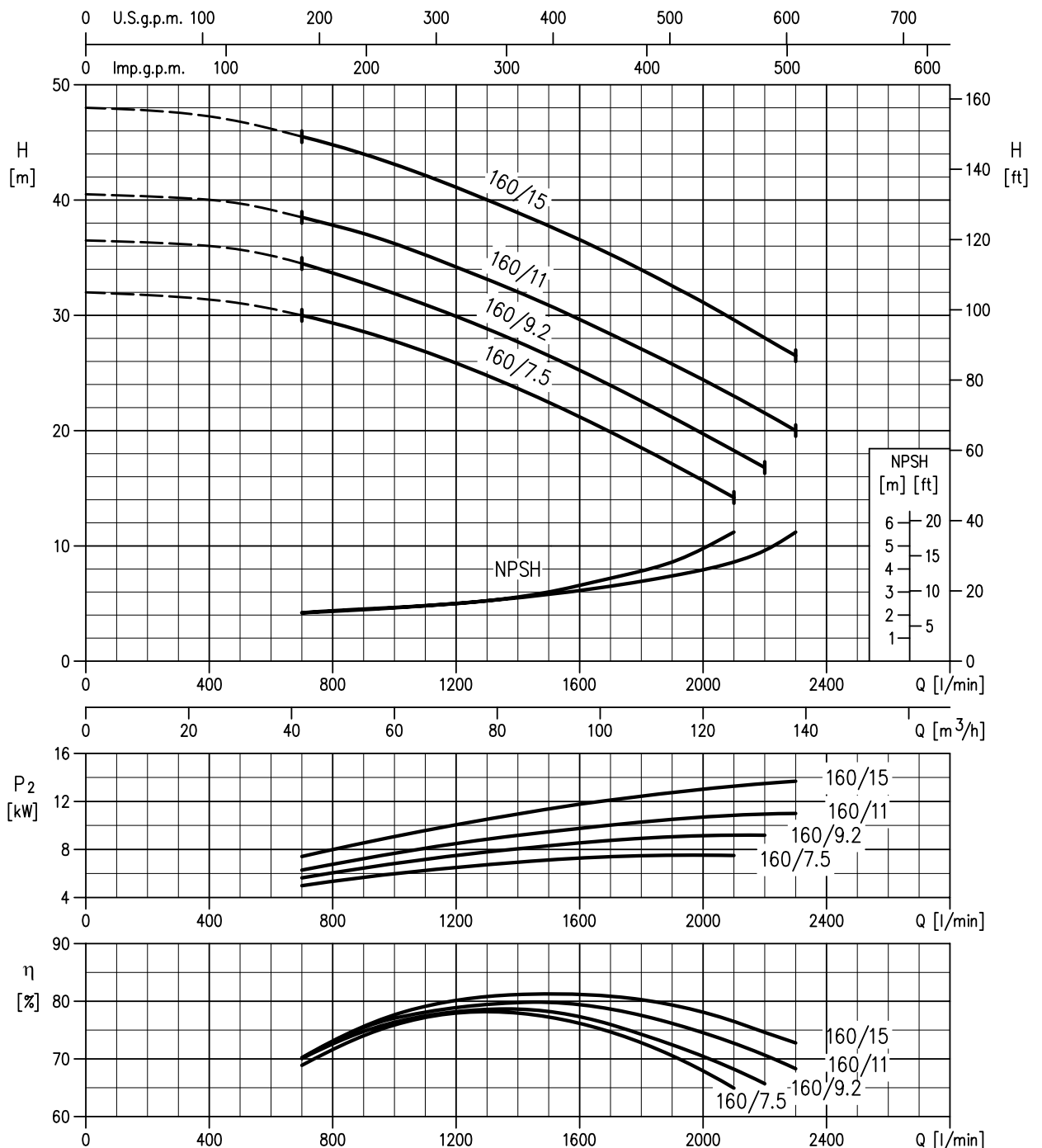
**50-200/9.2 – impeller diameter = 191 mm****50-200/11 – impeller diameter = 200 mm****50-200/15 – impeller diameter = 224 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

**65-125/4 – impeller diameter = 128 mm****65-125/5.5 – impeller diameter = 138 mm****65-125/7.5 – impeller diameter = 149 mm**

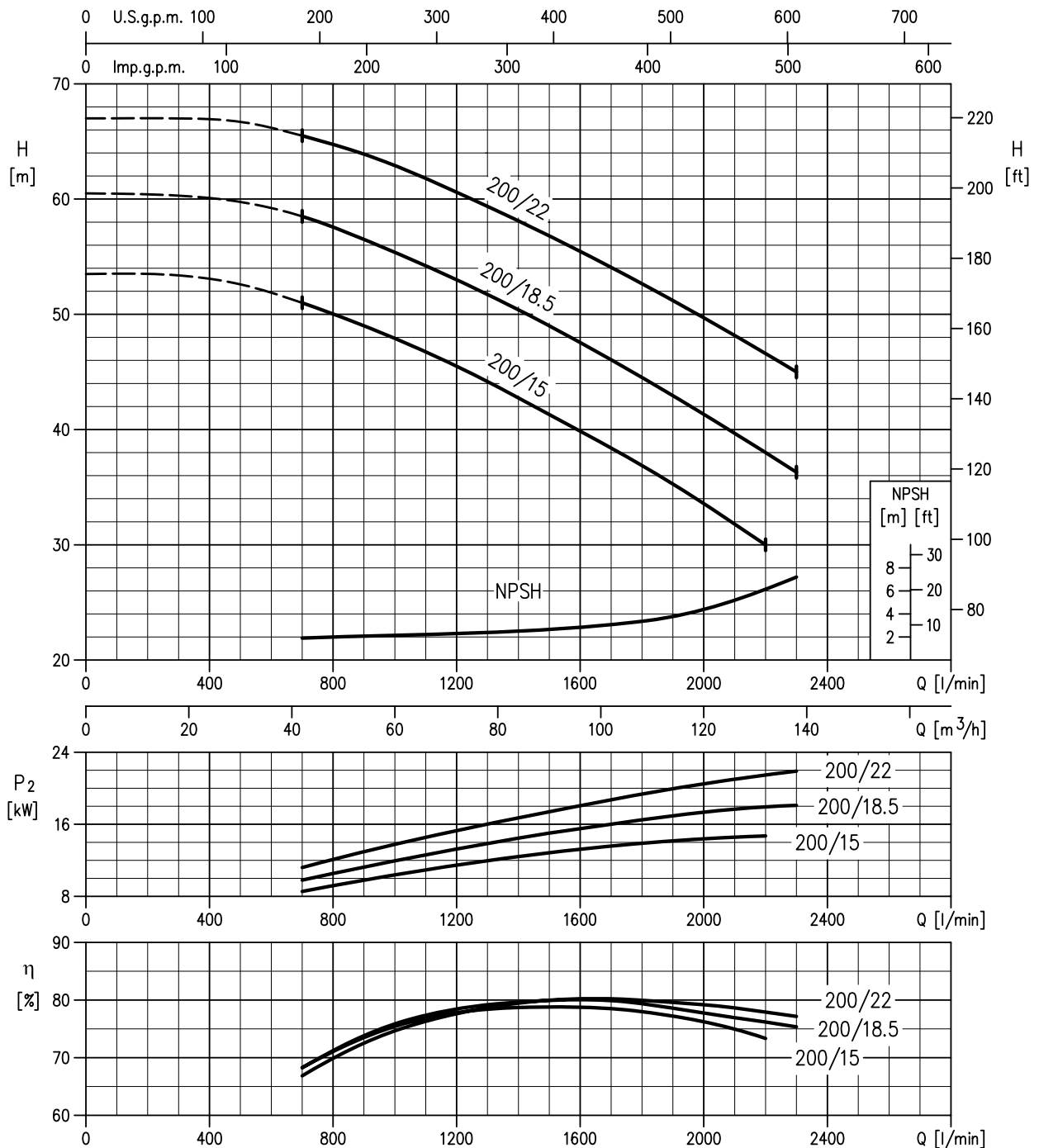
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B



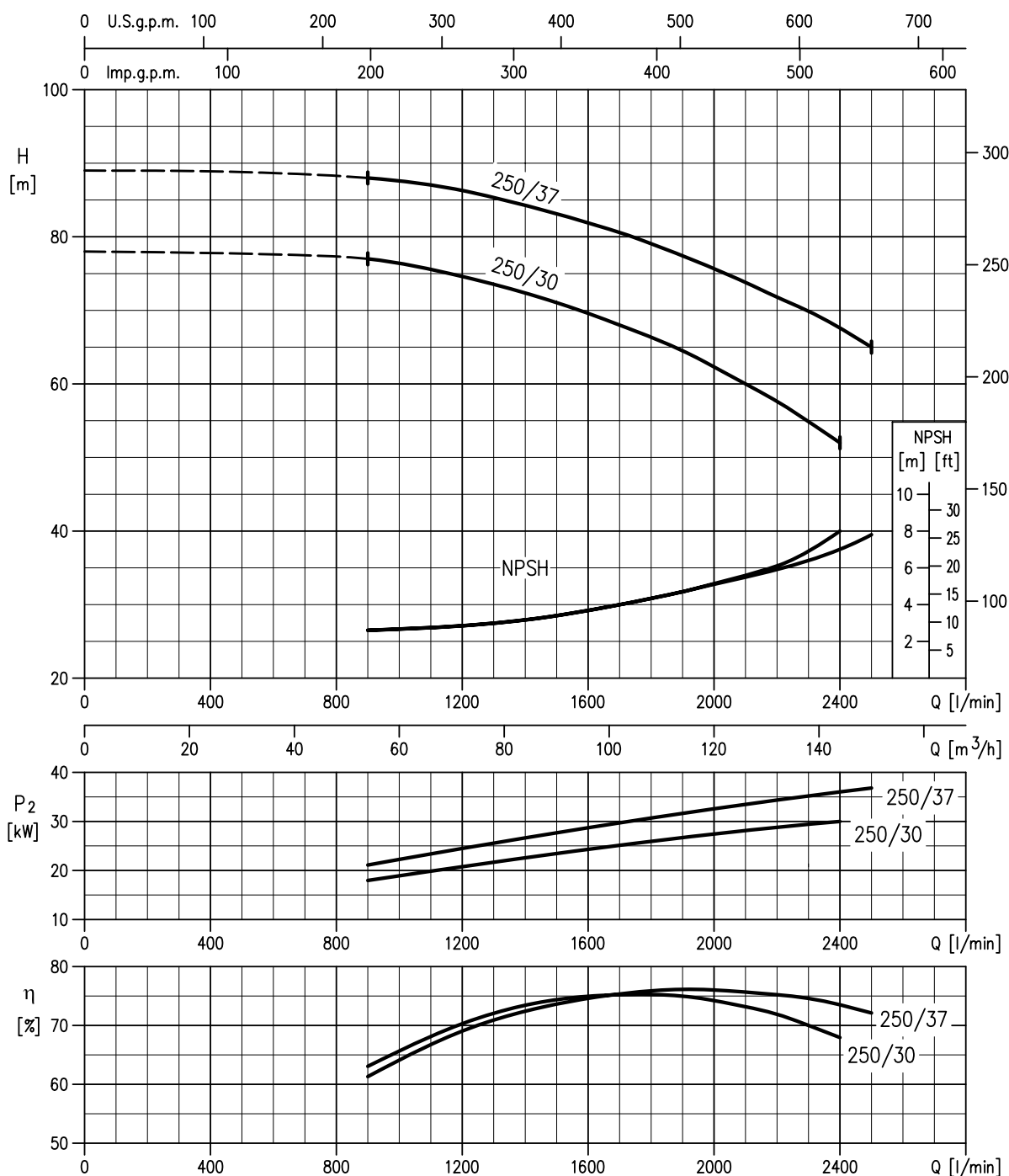
**65-160/7.5 – impeller diameter = 153 mm****65-160/9.2 – impeller diameter = 161 mm****65-160/11 – impeller diameter = 168 mm****65-160/15 – impeller diameter = 178 mm**

Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**65-200/15 – impeller diameter = 190 mm**  
**65-200/18.5 – impeller diameter = 201 mm**  
**65-200/22 – impeller diameter = 212 mm**

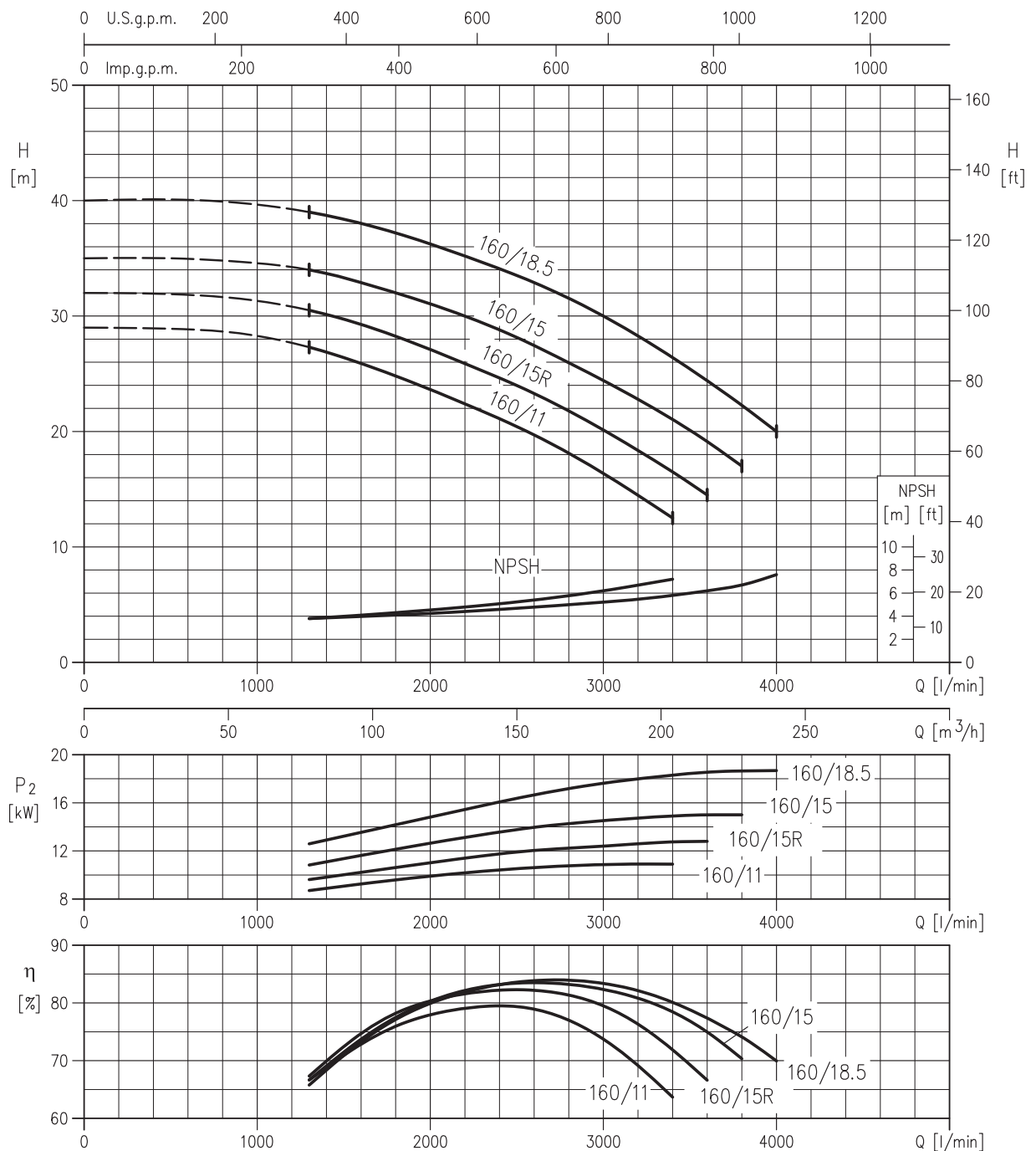


Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**65-250/30 – impeller diameter = 235 mm****65-250/37 – impeller diameter = 250 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

Test standard: ISO 9906:2012 - Grade 3B

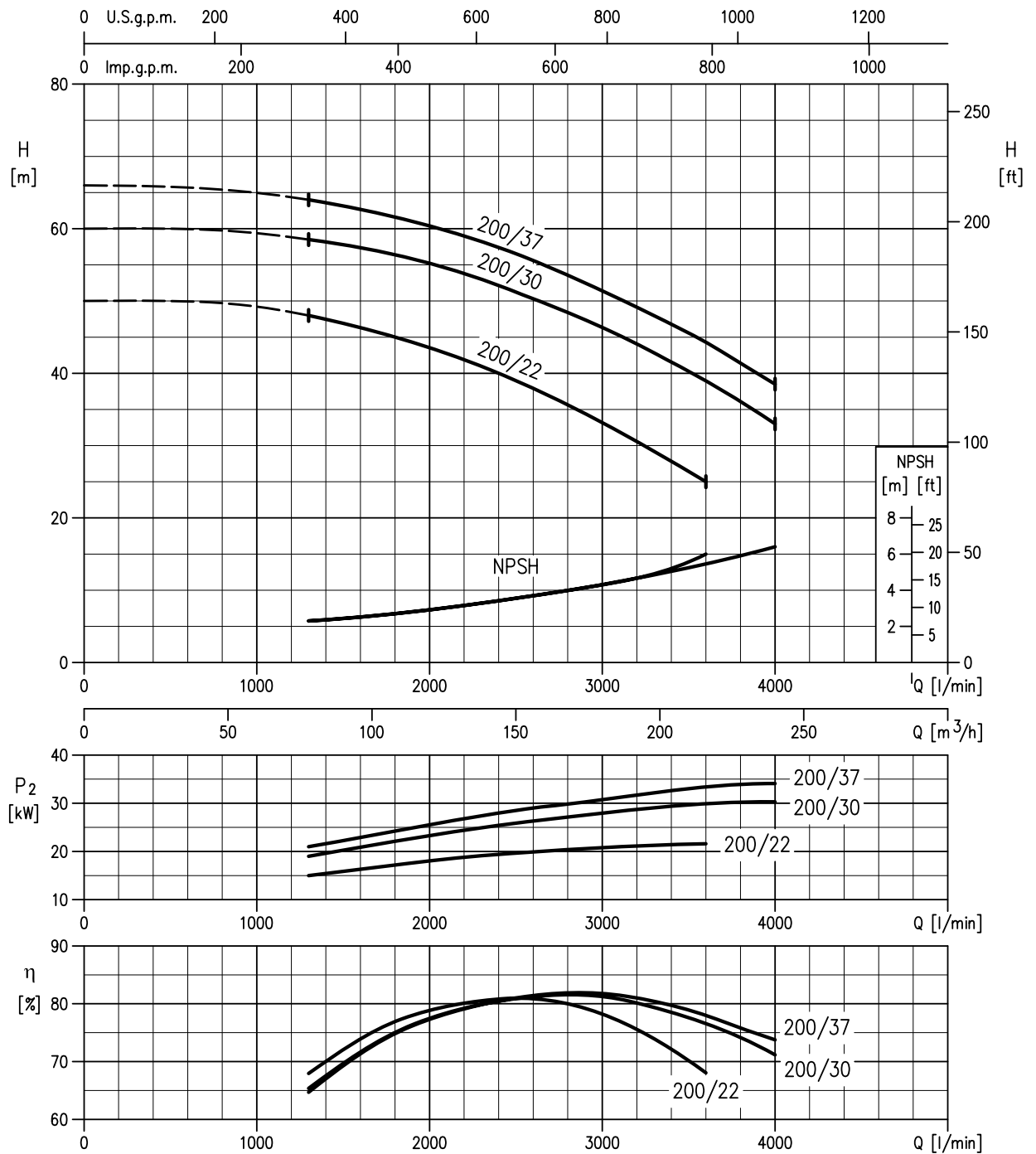
**80-160/11 – impeller diameter = 154 mm**  
**80-160/15R – impeller diameter = 160 mm**  
**80-160/15 – impeller diameter = 165 mm**  
**80-160/18.5 – impeller diameter = 174 mm**



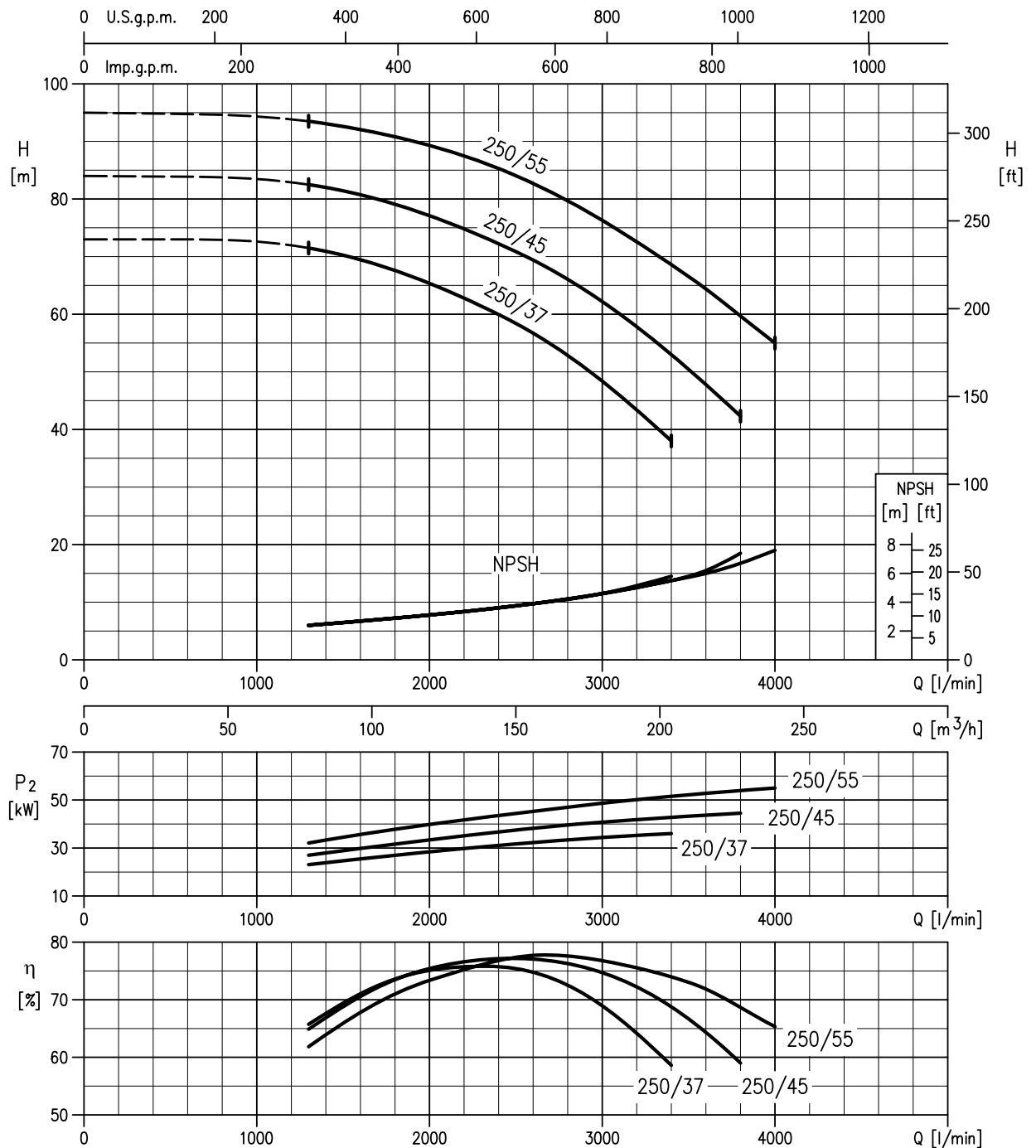
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**PERFORMANCE CURVE****50Hz**

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**80-200/22 – impeller diameter = 196 mm****80-200/30 – impeller diameter = 211 mm****80-200/37 – impeller diameter = 219 mm**

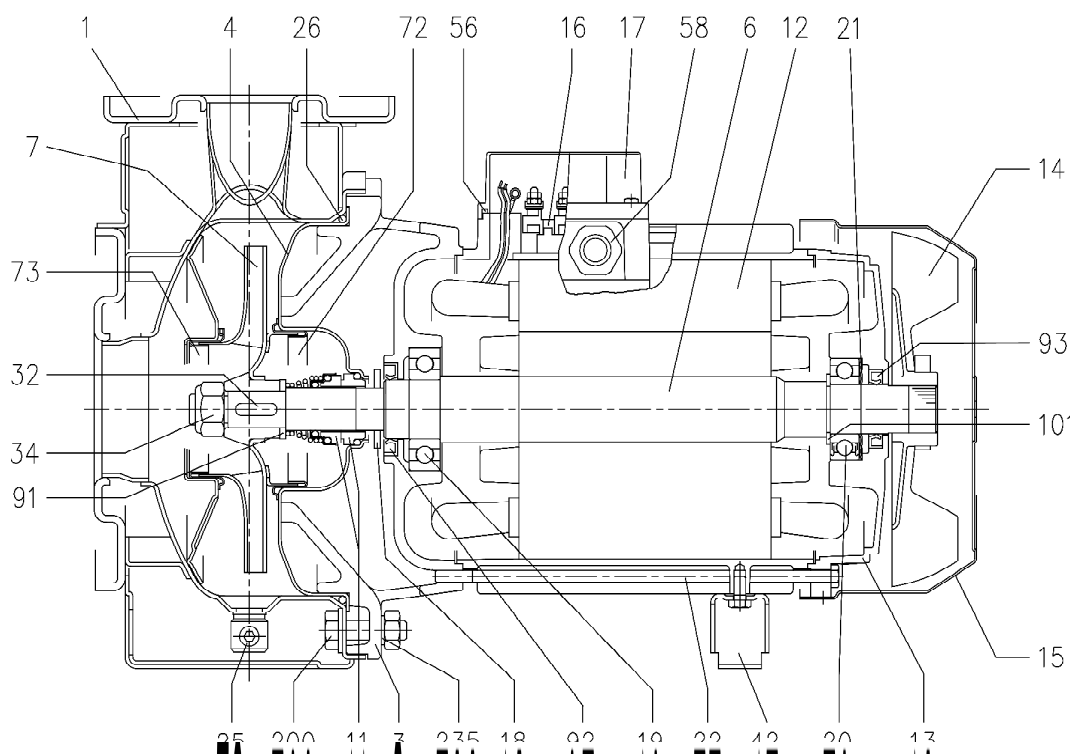
Rotation speed  $\approx 2900 \text{ min}^{-1}$   
 Test standard: ISO 9906:2012 - Grade 3B

**80-250/37 – impeller diameter = 230 mm****80-250/45 – impeller diameter = 245 mm****80-250/55 – impeller diameter = 259 mm**Rotation speed  $\approx 2900 \text{ min}^{-1}$ 

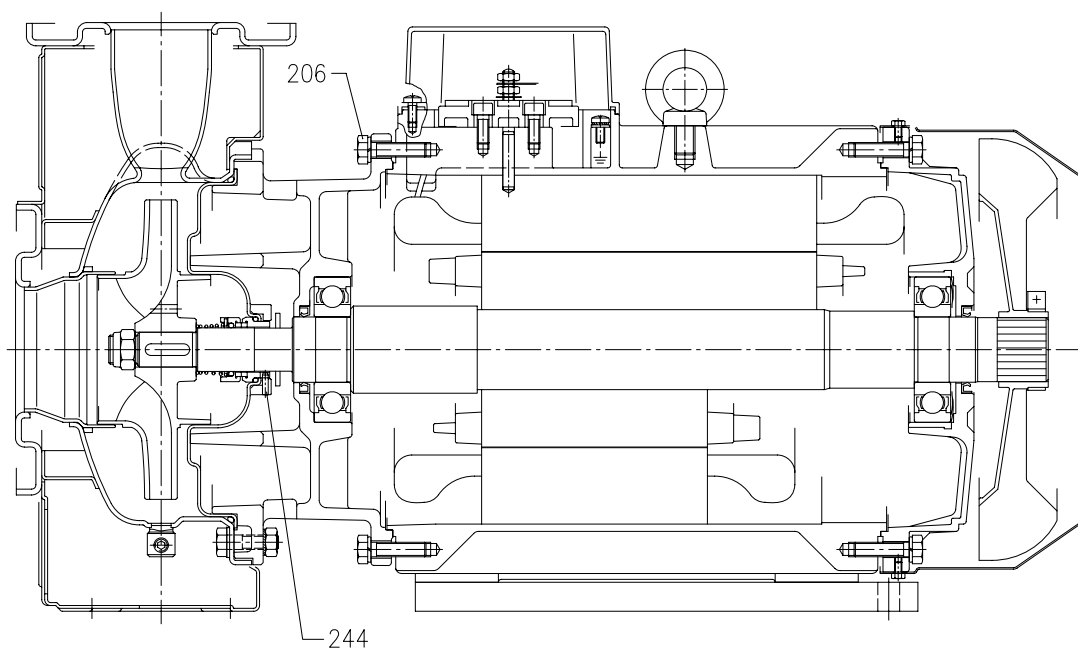
Test standard: ISO 9906:2012 - Grade 3B

**SECTIONAL VIEW DRAWING 3(.)M 32, 40, 50, 65-125/160/200**

UP TO 11 kW



15 kW AND ABOVE



SECTIONAL VIEW TABLE 3(.)M 32, 40, 50, 65-125/160/200

| N°  | PART NAME                                    |                                                                                               | MATERIAL                                          |                         | DIMENSIONS                                | STANDARD                      | Q.TY     |
|-----|----------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------|-------------------------|-------------------------------------------|-------------------------------|----------|
|     |                                              |                                                                                               | 3M                                                | 3LM                     |                                           |                               |          |
| 1   | Casing                                       |                                                                                               | EN 1.4301 (AISI 304)                              | EN 1.4404 (AISI 316L)   |                                           |                               | 1        |
| 3   | Motor bracket                                |                                                                                               | [9]                                               |                         |                                           |                               | 1        |
| 4   | Casing cover                                 |                                                                                               | EN 1.4301 (AISI 304)                              | EN 1.4404 (AISI 316L)   |                                           |                               | 1        |
| 6   | Shaft with rotor-Part in contact with liquid |                                                                                               | EN 1.4301 (AISI 304)                              | EN 1.4404 (AISI 316L)   |                                           |                               | 1        |
| 7   | Impeller                                     |                                                                                               | EN 1.4301 (AISI 304)[10]                          | EN1.4404(AISI 316L)[10] |                                           |                               | 1        |
| 11  | Mechanical seal                              |                                                                                               | Carbon/Ceramic/NBR                                | SiC/SiC/FPM             | [8]                                       |                               | 1        |
| 12  | Motor frame with stator                      |                                                                                               | -                                                 |                         |                                           |                               | 1        |
| 13  | Motor cover                                  |                                                                                               | Aluminium                                         |                         |                                           |                               | 1        |
| 14  | Fan                                          |                                                                                               | PA                                                |                         |                                           |                               | 1        |
| 15  | Fan cover                                    |                                                                                               | Fe P04 Galvanized                                 |                         |                                           |                               | 1        |
| 16  | Terminal                                     |                                                                                               | -                                                 |                         |                                           |                               | 1        |
| 17  | Terminal box cover                           |                                                                                               | Aluminium (three phase version)                   |                         |                                           |                               | 1        |
| 18  | Splash ring                                  | Up to 11 kW<br>15 kW and above                                                                | NBR                                               | /                       | 40x21.5x3<br>50x29.5x3                    | EBARA DRAWING                 | 1        |
| 19  | Bearing                                      |                                                                                               | -                                                 |                         | See table p.324                           |                               | 1        |
| 20  | Bearing                                      |                                                                                               | -                                                 |                         | See table p.324                           |                               | 1        |
| 21  | Adjusting ring                               |                                                                                               | Steel C70                                         |                         |                                           |                               | 1        |
| 22  | Tie rod                                      | Up to 3 kW<br>For 4 - 5.5 - 7.5 kW<br>9.2 e 11kW                                              | Fe 42 Galvanized                                  |                         | M5<br>M6<br>M8                            | EBARA DRAWING                 | 4        |
|     | Screw                                        | 15 kW and above                                                                               | Galvanized Steel 8.8 strenght class ISO 898-1     |                         | M10x40                                    | UNI 5739                      |          |
| 25  | Draing plug                                  |                                                                                               | EN 1.4401 (AISI 316) / PTFE                       |                         | R 1/8" L=8                                | DIN 906                       | 1        |
| 26  | "O" ring                                     | 32-125, 40-125<br>32-160, 40-160, 50-125<br>32-200, 40-200, 50-160,<br>50-200, 65-160, 65-200 | NBR [7]                                           | FPM                     | 158.11x5.34<br>183.52x5.34<br>227.96x5.34 | OR 6625<br>OR 6720<br>OR 6895 | 1        |
| 32  | Key                                          | Up to 11 kW<br>15 kW and above                                                                | EN 1.4401 (AISI 316)                              |                         | A 6x6x25<br>A 8x7x30                      | UNI 6604                      | 1        |
| 34  | Impeller nut                                 | Up to 11kW<br>50-200/15<br>15 kW and above                                                    | EN 1.4301 (AISI 304)                              | EN 1.4404 (AISI 316L)   | M16x1.5<br>M18x1.5<br>M20x1.5             | UNI 7474                      | 1        |
| 42  | Foot                                         |                                                                                               | Aluminium / Galvanized steel                      |                         |                                           | EBARA DRAWING                 | [1]      |
| 56  | Box gasket                                   |                                                                                               | NBR                                               |                         |                                           |                               | 1        |
| 58  | Fastening nut                                |                                                                                               | -                                                 |                         |                                           |                               | [2]      |
| 72  | Casing ring                                  |                                                                                               | [3] EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)   |                                           |                               | 1        |
| 73  | Casing ring                                  |                                                                                               | EN 1.4301 (AISI 304)                              | EN 1.4404 (AISI 316L)   |                                           |                               | 1        |
| 92  | Lip seal                                     | Up to 3kW<br>From 4 to 7.5 kW<br>From 9.2 kW to 11 kW<br>From 15 kW to 22 kW                  | -                                                 | -                       | 25x40x7<br>30x47X7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring    | 1        |
| 91  | Impeller spacer                              |                                                                                               | [11] EN 1.4404 (AISI 316L)                        |                         |                                           |                               | 1        |
| 93  | Lip seal                                     | Up to 4 kW<br>From 5.5 kW to 7.5 kW<br>From 9.2 kW to 11 kW<br>From 15 kW to 22 kW            | -                                                 | -                       | 25x40x7<br>30x47X7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring    | 1        |
| 101 | Snap ring (only 9.2 and 11kW)                |                                                                                               | Carbon tool steels TC 80                          |                         | Ø 40                                      | UNI 7435                      | 1        |
| 200 | Screw                                        | 32-125, 40-125<br>40-160, 40-200, 50-125, 50-160,<br>50-200, 65-125, 65-160, 65-200           | Stainless steel A2 70 class ISO 3506/1            |                         | M 8x30<br>M 10x35                         | UNI 5739                      | 8<br>[4] |
| 235 | Washer                                       | 32-125, 40-125<br>40-160, 40-200, 50-125, 50-160,<br>50-200, 65-125, 65-160, 65-201           | EN 1.4301 (AISI 304)                              |                         | 8.4x17<br>10.5x21                         | UNI 6592                      | 8<br>[4] |
| 206 | Screw for bracket                            |                                                                                               | [5] Galvanized Steel 8.8 strenght class ISO 898-1 |                         | M 10x40                                   | UNI 5739                      | 4        |
| 244 | Pin                                          | [6] -                                                                                         | EN 1.4301 (AISI 304)                              |                         | 4x15                                      |                               | 1        |

Counterflange kit on request, see table p. 335-336

- [1] Quantity =0 for 65-160/15  
Quantity =1 for 32-40-50 and 65 up to 11kW  
Quantity =2 for 65-200/15, 65-200/18.5, 65-200/22
- [2] Quantity =1 up to 11kW  
Quantity =2 from 15kW to 22kW
- [3] For version 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15
- [4] Quantity =10 for 32-160, 40-160, 50-125, 65-125  
Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
- [5] For 15kW and above
- [6] Only for 65-160/15 and 65-200

- [7] FPM for H-HS-HW-HSW version  
EPDM for E version, Q1AEGG, Q1Q1EGG, Q1U3EGG, U3CEGG, U3U3EGG  
(U3U3EGG not available for 65-160/15 and 65-200)
- [8] Special version: see page 326 and following
- [9] Cast iron EN-GJL-200-EN 1561 for 32-200/3 and models with 15, 18.5, 22 kW motor  
Aluminum AL-EN-1706-AC-46000-D for all the others.
- [10] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200
- [11] Only for 32-125/1.1



Technical drawing of a mechanical assembly, likely a pump or motor, showing a cross-section with various components labeled with numbers 1 through 93. The drawing includes a central shaft, housing, and various internal parts like valves and seals.

## SECTIONAL VIEW TABLE 3LMZ 32, 40, 50, 65-125/160/200

| N°  | PART NAME                                    | MATERIAL                                                                                              | DIMENSIONS                                | STANDARD                                  | Q.TY                               |
|-----|----------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------|
| 1   | Casing                                       | EN 1.4404 (AISI 316L)                                                                                 |                                           |                                           | 1                                  |
| 3   | Motor bracket                                | [8]                                                                                                   |                                           |                                           | 1                                  |
| 4   | Casing cover                                 | EN 1.4404 (AISI 316L)                                                                                 |                                           |                                           | 1                                  |
| 6   | Shaft with rotor-Part in contact with liquid | EN 1.4404 (AISI 316L)                                                                                 |                                           |                                           | 1                                  |
| 7   | Impeller                                     | EN 1.4404 (AISI 316L) [9]                                                                             |                                           |                                           | 1                                  |
| 11  | Mechanical seal                              | SiC/SiC/FPM                                                                                           | [7]                                       |                                           | 1                                  |
| 12  | Motor frame with stator                      | -                                                                                                     |                                           |                                           | 1                                  |
| 13  | Motor cover                                  | Aluminium                                                                                             |                                           |                                           | 1                                  |
| 14  | Fan                                          | PA                                                                                                    |                                           |                                           | 1                                  |
| 15  | Fan cover                                    | Fe P04 Galvanized                                                                                     |                                           |                                           | 1                                  |
| 16  | Terminal                                     | -                                                                                                     |                                           |                                           | 1                                  |
| 17  | Terminal box cover                           | Aluminium                                                                                             |                                           |                                           | 1                                  |
| 18  | Splash ring                                  | Up to 11 kW<br>15 kW and above                                                                        | /                                         | 40x21.5x3<br>50x29.5x3                    | EBARA DRAWING<br>1                 |
| 19  | Bearing                                      | -                                                                                                     | See table p. 324                          |                                           | 1                                  |
| 20  | Bearing                                      | -                                                                                                     | See table p. 324                          |                                           | 1                                  |
| 21  | Adjusting ring                               | Steel C70                                                                                             |                                           |                                           | 1                                  |
| 22  | Tie rod                                      | Up to 3 kW<br>For 4 - 5.5 - 7.5 kW<br>9.2 e 11kW                                                      | Fe 42 Galvanized                          | M5<br>M6<br>M8                            | EBARA DRAWING<br>4                 |
|     | Screw                                        | 15 kW and above                                                                                       | Galvanized Steel 8.8                      | M10x40                                    | UNI 5739                           |
| 25  | Draining plug                                |                                                                                                       | AISI 316 / PTFE                           | R 1/8" L=8                                | DIN 906<br>1                       |
| 26  | "O" ring                                     | 32-125, 40-125<br>32-160, 40-160, 50-125, 65-160<br>32-200, 40-200, 50-160,<br>50-200, 65-160, 65-200 | FPM                                       | 158.11x5.34<br>183.52x5.34<br>227.96x5.34 | OR 6625<br>OR 6720<br>OR 6895<br>1 |
| 32  | Key                                          | Up to 11 kW<br>15 kW and above                                                                        | EN 1.4401 (AISI 316)                      | A 6x6x25<br>A 8x7x30                      | UNI 6604<br>1                      |
| 34  | Impeller nut                                 | Up to 11kW<br>50-200/15<br>15 kW and above                                                            | EN 1.4404 (AISI 316L)                     | M16x1.5<br>M18x1.5<br>M20x1.5             | UNI 7474<br>1                      |
| 42  | Foot                                         |                                                                                                       | Al / Galvanized steel                     |                                           | EBARA DRAWING [1]                  |
| 50  | Casing foot (only from 1.1 kW to 11 kW)      |                                                                                                       | Galvanized steel                          |                                           | 1                                  |
| 56  | Box gasket                                   |                                                                                                       | NBR                                       |                                           | 1                                  |
| 58  | Fastening nut                                |                                                                                                       | -                                         |                                           | [2]                                |
| 72  | Casing ring                                  | [3]                                                                                                   | EN 1.4404 (AISI 316L)                     |                                           | 1                                  |
| 73  | Casing ring                                  |                                                                                                       | EN 1.4404 (AISI 316L)                     |                                           | 1                                  |
| 92  | Lip seal                                     | Up to 3kW<br>From 4 to 7.5 kW<br>From 9.2 kW to 11 kW<br>From 15 kW to 22 kW                          | -                                         | 25x40x7<br>30x47x7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring<br>1    |
| 91  | Impeller spacer                              | [10]                                                                                                  | EN 1.4404 (AISI 316L)                     |                                           | 1                                  |
| 93  | Lip seal                                     | Up to 4 kW<br>From 5.5 kW to 7.5 kW<br>From 9.2 kW to 11 kW<br>From 15 kW to 22 kW                    | -                                         | 25x40x7<br>30x47x7<br>40x55x7<br>45x60x7  | DIN 3760<br>without spring<br>1    |
| 101 | Snap ring (only 9.2 and 11kW)                |                                                                                                       | Carbon tool steels TC 80                  | Ø 40                                      | UNI 7435<br>1                      |
| 200 | Screw                                        | 32-125, 40-125<br>40-160, 40-200, 50-125, 50-160,<br>50-200, 65-125, 65-160, 65-200                   | Stainless steel A2 70<br>class ISO 3506/1 | M8<br>M10                                 | UNI 5739<br>8<br>[4]               |
| 235 | Washer                                       | 32-125, 40-125<br>40-160, 40-200, 50-125, 50-160,<br>50-200, 65-125, 65-160, 65-201                   | EN 1.4301 (AISI 304)                      | 8.4x17<br>10.5x21                         | UNI 6592<br>8<br>[4]               |
| 206 | Screw for bracket                            | [5]                                                                                                   | Galvanized Steel 8.8                      | M 10x40                                   | UNI 5739<br>4+4                    |
| 244 | Pin                                          | [6]                                                                                                   | EN 1.4301 (AISI 304)                      | 4x15                                      | 1                                  |

Counterflange kit on request, see table p. 335-336

[1] Quantity =0 for 50-200/15 and 65-160/15

Quantity =1 for 32-200/7.5, 40-200/7.5/11, 50-160/7.5, 50-200/9.2/11, 65-125/7.5, 65-160/7.5/9.2/11

Quantity =2 for 65-200/15/18.5/22

[2] Quantity =1 up to 11kW

Quantity =2 from 15kW to 22kW

[3] For version 32-200/3/4/5.5, 40-200/5.5/7.5/11, 50-160/5.5/7.5, 50-200/9.2/11/15

[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125

Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[5] For 15kW and above

[6] Only for 65-160/15 and 65-200

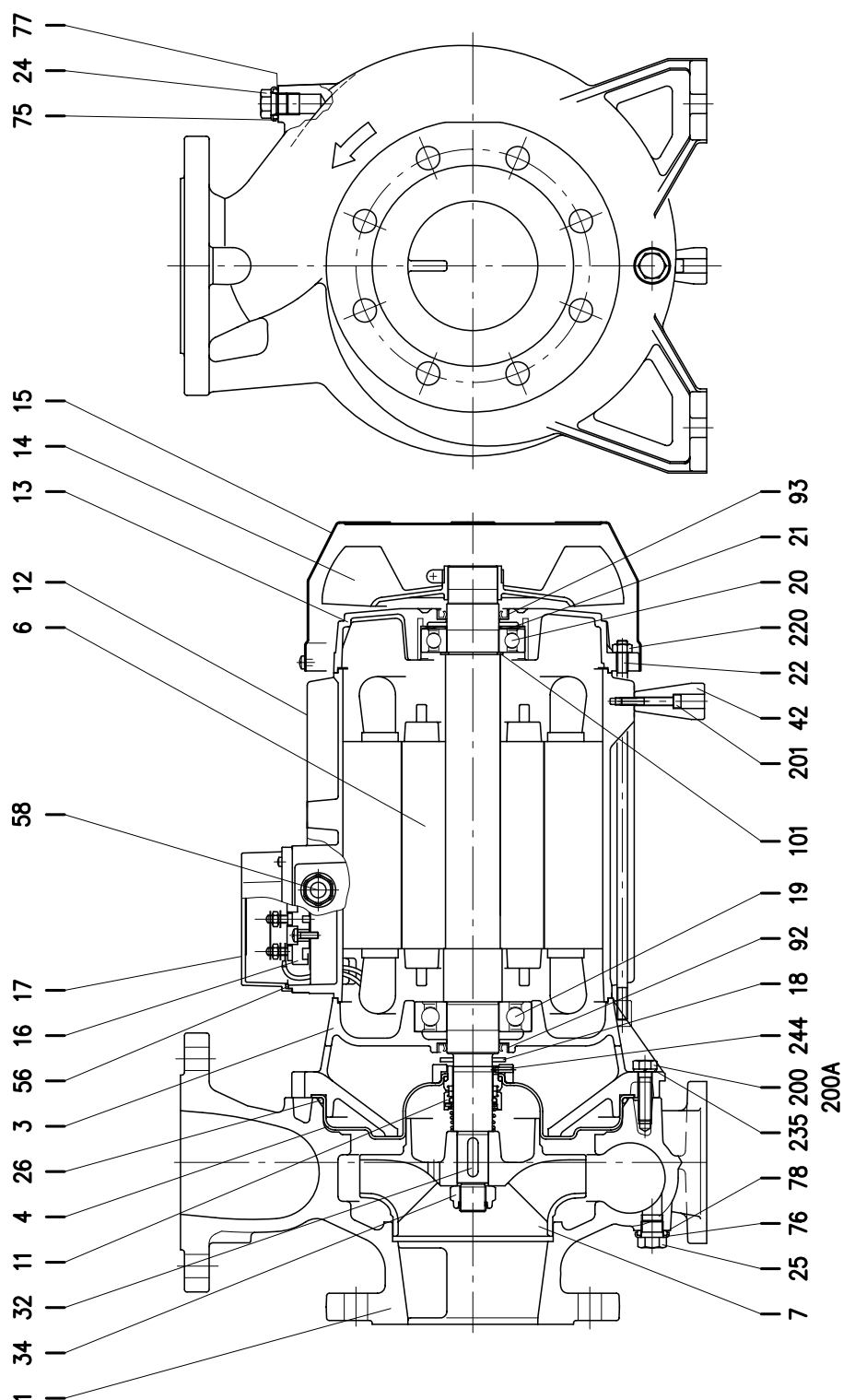
[7] Special version: see page 326 and following

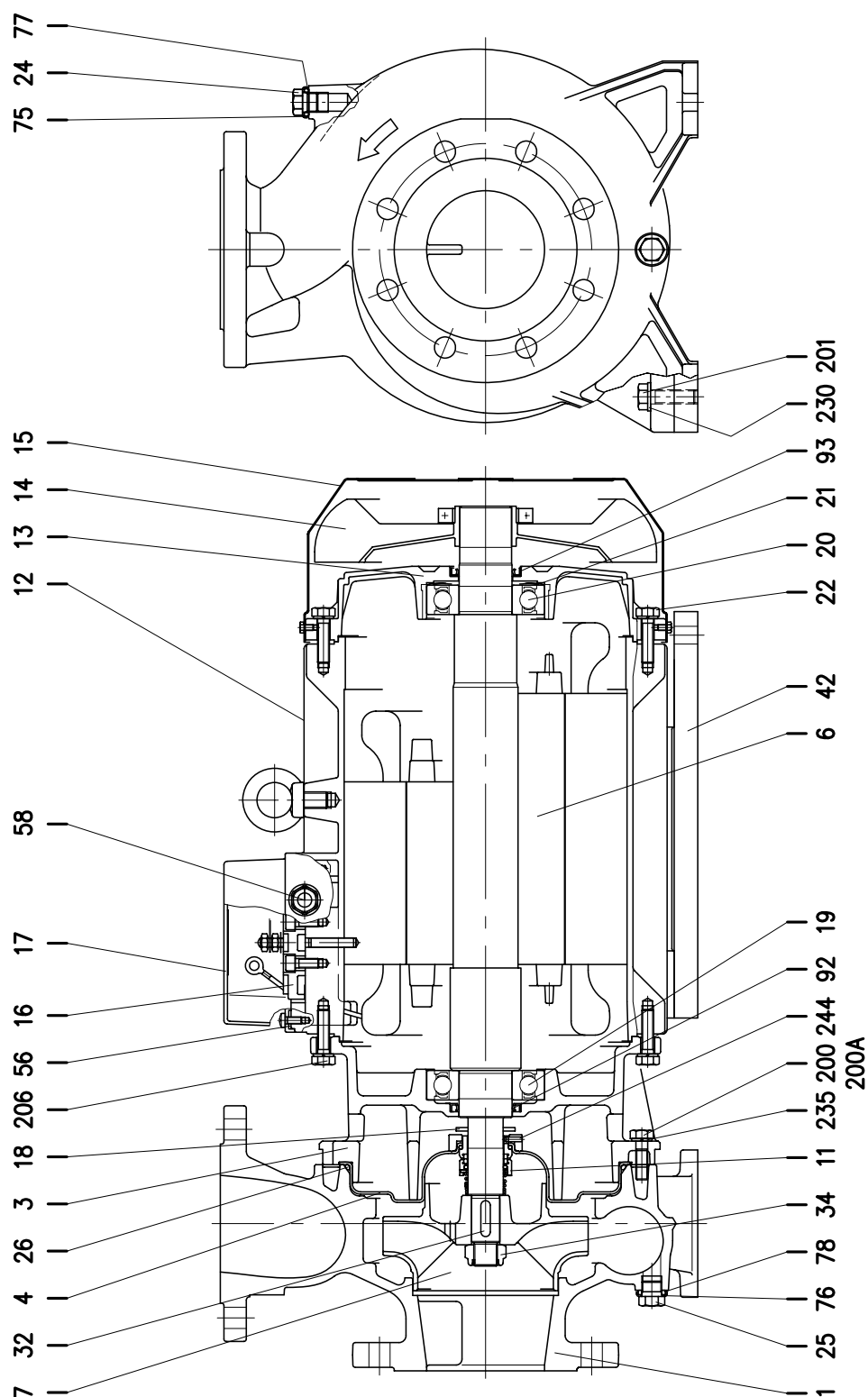
[8] Cast iron EN-GJL-200-EN 1561 for 32-200/3 and models with 15, 18.5, 22 kW motor

Aluminum AL-EN-1706-AC-46000-D for all the others.

[9] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200

[10] Only for 32-125/1.1

**SECTIONAL VIEW DRAWING 3LM 80-160/11**

**SECTIONAL VIEW DRAWING 3LM 80-160/15R/15/18.5**

## SECTIONAL VIEW TABLE 3LM 80-160

| N°    | PART NAME                             | MATERIAL                                      | DIMENSIONS       | STANDARD                   | Q.TY |
|-------|---------------------------------------|-----------------------------------------------|------------------|----------------------------|------|
| 1     | Casing                                | CF8M - EN 1.4408 (AISI 316)                   |                  |                            | 1    |
| 3     | Motor bracket                         | Cast iron EN-GJL-200-EN 1561                  |                  |                            | 1    |
| 4     | Casing cover                          | EN 1.4404 (AISI 316L)                         |                  |                            | 1    |
| 6     | Shaft with rotor                      | EN 1.4404(AISI 316L) - Wet extension          |                  |                            | 1    |
| 7     | Impeller                              | CF8M - EN 1.4408 (AISI 316)                   |                  |                            | 1    |
| 11    | Mechanical seal                       | SiC/SiC/FPM                                   | [5]              |                            | 1    |
| 12    | Motor frame with stator               | -                                             |                  |                            | 1    |
| 13    | Motor cover                           | Aluminium                                     |                  |                            | 1    |
| 14    | Fan                                   | PA                                            |                  |                            | 1    |
| 15    | Fan cover                             | Fe P04 Galvanized                             |                  |                            | 1    |
| 16    | Terminal                              | -                                             |                  |                            | 1    |
| 17    | Terminal box cover                    | Aluminium                                     |                  |                            | 1    |
| 18    | Splash ring                           | NBR                                           | 50x29.5x3        | EPE DRAWING                | 1    |
| 19    | Bearing                               | -                                             | See table p. 324 |                            | 1    |
| 20    | Bearing                               | -                                             | See table p. 324 |                            | 1    |
| 21    | Adjusting ring                        | Steel C70                                     |                  |                            | 1    |
| 22    | Screw                                 | Galvanized Steel 8.8 strenght class ISO 898/1 |                  | EPE DRAWING                | 4    |
| 24    | Plug                                  | EN 1.4404 (AISI 316L)                         | G 3/8            | EPE DRAWING                | 1    |
| 25    | Plug                                  | EN 1.4404 (AISI 316L)                         | G 3/8            | EPE DRAWING                | 1    |
| 26    | "O" ring                              | FPM                                           | 227.96x5.34      | OR 6895                    | 1    |
| 32    | Key                                   | EN 1.4404 (AISI 316L)                         | 8x7x30           | UNI 6604                   | 1    |
| 34    | Impeller nut                          | Aluminium                                     | M20x1.5          | UNI 7474                   | 1    |
| 42    | Foot                                  | Aluminium                                     |                  | EPE DRAWING                | [1]  |
| 56    | Box gasket                            | NBR                                           |                  |                            | 1    |
| 58    | Fasting nut                           | -                                             |                  |                            | [2]  |
| 75    | Washer (plug)                         | EN 1.4404 (AISI 316L)                         |                  |                            | 1    |
| 76    | Washer (plug)                         |                                               |                  |                            | 1    |
| 77    | O-ring (plug)                         | FPM [4]                                       |                  |                            | 1    |
| 78    | O-ring (plug)                         |                                               |                  |                            | 1    |
| 92    | Lip seal                              | -                                             | 40x55x7          | DIN 3760<br>without spring | 1    |
|       |                                       |                                               | 45x60x7          |                            | 1    |
| 93    | Lip seal                              | -                                             | 40x55x7          | DIN 3760<br>without spring | 1    |
|       |                                       |                                               | 45x60x7          |                            | 1    |
| 101   | Snap ring (only 11 kW)                | Carbon tool steels TC 80                      | Ø 40             | UNI 7435                   | 1    |
| 200   | Screw                                 | Stainless steel A2-70 class ISO 3506/1        | M 10x35          | UNI 5739                   | 10   |
| 200 A | Screw                                 |                                               | M 10x30          |                            | 2    |
| 201   | Screw                                 | Stainless steel A2-70 class ISO 3506/1        | M 6x40           | UNI 5739                   | 1    |
|       |                                       |                                               | M 12x40          |                            | 4    |
| 206   | Screw for bracket (only 15 - 18.5 kW) | Galvanized steel 8.8 strenght class ISO 898/1 | M 10x40          | UNI 5739                   | 4    |
| 220   | Nut for tie rod (only 11 kW)          | Galvanized steel                              | M10              |                            | 4    |
| 230   | Washer                                | -                                             | -                | -                          | -    |
|       |                                       |                                               |                  |                            |      |
| 235   | Washer                                | Galvanized steel                              | 13x24x2.5        | UNI 6592                   | 4    |
|       |                                       |                                               |                  |                            |      |
| 235   | Washer                                | EN 1.4301(AISI 304)                           | 10.5             | UNI 6592                   | 12   |
| 244   | Pin                                   | EN 1.4301(AISI 304)                           | 4x15             |                            | 1    |

Counterflange kit on request, see p. 335-336

[1] Quantity =1 for version 80-160/11

Quantity =2 for version 80-160/15R, 80-160/15 and 80-160/18.5

[2] Quantity =1 for version 80-160/11

Quantity =2 for version 80-160/15R, 80-160/15 and 80-160/18.5

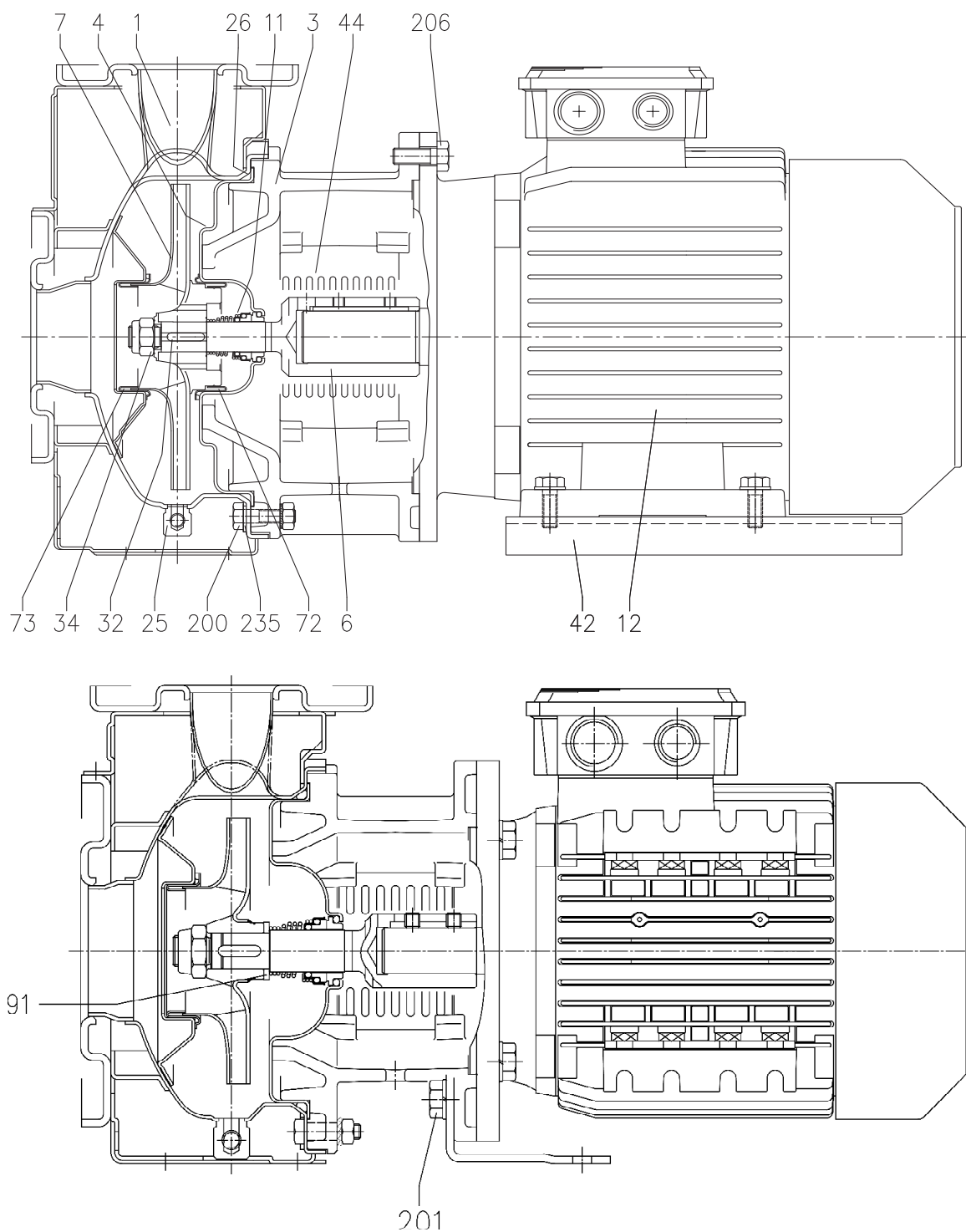
[3] Not for H and E version

[4] FPM for H, HW, HSW version

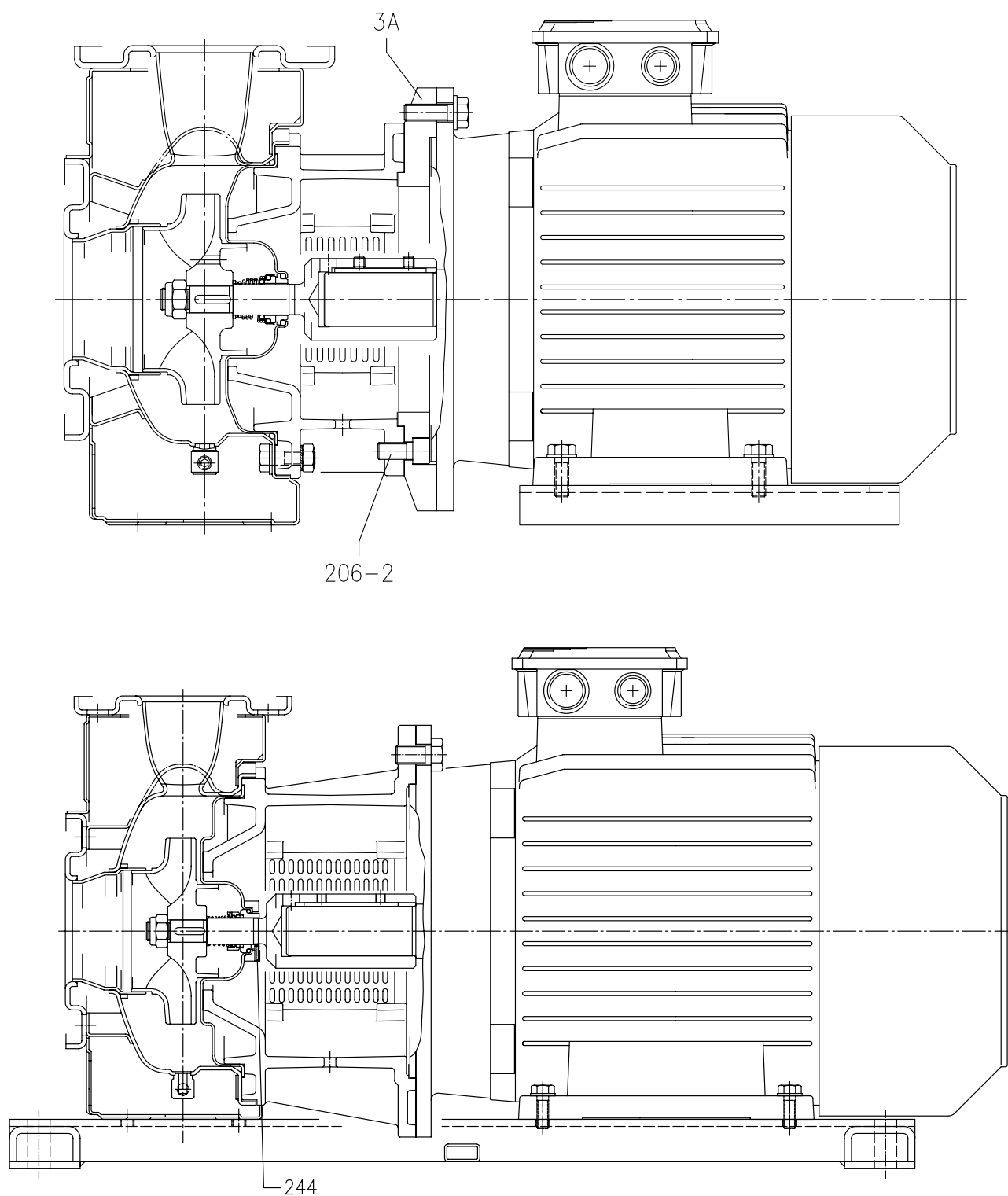
EPDM for E version, Q1AEGG, Q1Q1EGG, Q1U3EGG, U3CEGG

[5] Special version: see page 326 and following

## SECTIONAL VIEW DRAWING 3(. )S 32, 40, 50



SECTIONAL VIEW DRAWING 3(.)S 65-125/160/200



## SECTIONAL VIEW TABLE 3(.)S 32, 40, 50, 65-125/160/200

| N°    | PART NAME                              |                                               | MATERIAL                                      |                           | DIMENSIONS       | STANDARD      | Q.TY |
|-------|----------------------------------------|-----------------------------------------------|-----------------------------------------------|---------------------------|------------------|---------------|------|
|       |                                        |                                               | 3S                                            | 3LS                       |                  |               |      |
| 1     | Casing                                 |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     |                  |               | 1    |
| 3     | Motor bracket                          |                                               | Cast iron EN-GJL-200-EN 1561                  |                           |                  |               | 1    |
| 3 A   | Adapter ring [1]                       |                                               | Cast iron EN-GJL-200-EN 1561                  |                           |                  |               | 1    |
| 4     | Casing cover                           |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     |                  |               | 1    |
| 6     | Coupling - Part in contact with liquid |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     | See table p. 333 |               | 1    |
| 7     | Impeller                               |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) [9] |                  |               | 1    |
| 11    | Mechanical seal                        |                                               | Carbon/Ceramic/NBR                            | SiC/SiC/FPM               | [7]              |               | 1    |
| 12    | Motor                                  |                                               | -                                             |                           |                  |               | 1    |
| 25    | Draining plug                          |                                               | EN 1.4401 (AISI 316) / PTFE                   |                           | R 1/8" L=8       | DIN 906       | 1    |
| 26    | "O" ring                               | 32-125, 40-125                                | NBR [8]                                       | FPM                       | 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                                    | Up to 11 kW                                   | EN 1.4401 (AISI 316)                          |                           | 6x6x25           | UNI 6604      | 1    |
|       |                                        | 15 kW and above                               |                                               |                           | 8x7x30           |               |      |
| 34    | Impeller nut                           | Up to 11kW                                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     | M16x1.5          | UNI 7474      | 1    |
|       |                                        | 50-200/15                                     |                                               |                           | M18x1.5          |               |      |
|       |                                        | 15 kW and above                               |                                               |                           | M20x1.5          |               |      |
| 42    | Foot                                   |                                               | Aluminium / Galvanized steel                  |                           |                  |               | [2]  |
| 44    | Protection                             |                                               | EN 1.4301 (AISI 304)                          |                           |                  | EBARA DRAWING | 1    |
| 72    | Casing ring [3]                        |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     |                  |               | 1    |
| 73    | Casing ring (not for 65 version)       |                                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)     |                  |               | 1    |
| 91    | Impeller spacer [10]                   |                                               | EN 1.4404 (AISI 316L)                         |                           |                  |               | 1    |
| 200   | Screw                                  | 32-125, 40-125                                | Stainless steel A2 70 class ISO 3506/1        |                           | M 8x30           | UNI 5739      | 8    |
|       |                                        | 50-200, 65-125, 65-160, 65-200                |                                               |                           | M 10x35          | UNI 5739      | [4]  |
| 201   | Screw                                  |                                               | Galvanized Steel 8.8 strenght class ISO 898/1 |                           | M 10x16          | UNI 5739      | [5]  |
| 206   | Screw for bracket                      |                                               | Galvanized Steel 8.8 strenght class ISO 898/1 |                           | M 10x40          | UNI 5739      | 4    |
| 206-2 | Screw adapter ring [1]                 |                                               | Galvanized Steel 8.8 strenght class ISO 898/1 |                           |                  | UNI 5931      | 4    |
| 235   | Washer                                 | 32-125, 40-125                                | Stainless steel A2 70 class ISO 3506/1        |                           | M 8.4x17         | UNI 6592      | 8    |
|       |                                        | 50-200, 65-125, 65-160, 65-200                |                                               |                           | M 10.5x21        | UNI 6592      | [4]  |
| 244   | Pin [6]                                |                                               | -                                             | EN 1.4301 (AISI 304)      |                  | UNI 5931      | 4    |

Counterflange kit on request see p. 335-336

[1] Only for version 65-125/5.5 and 65-125/7.5

[2] Quantity =0 for version 65-200/22

Quantity =1 for version for 32, 40, 50, 65-125/5.5, 65-125/7.5, 65-160/11, 65-160/15, 65-200/15, 65-200/18.5

Quantity =2 for version for 65-125/4, 65-160/7.5, 65-160/9.2

[3] Only for version 32-200, 40-200, 50-160, 50-200

[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125

Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[5] Only for version 32-125/1.1, 32-160/1.5, 32-160/2.2, 40-125/1.5, 40-125/2.2, 50-125/2.2

[6] Only for 65-160/15, 65-200

[7] Special version: see page 326 and following

[8] FPM for H-HS-HW-HSW version

EPDM for E version, Q1AEGG, U3U3EGG, Q1Q1EGG, Q1U3EGG, U3CEGG)

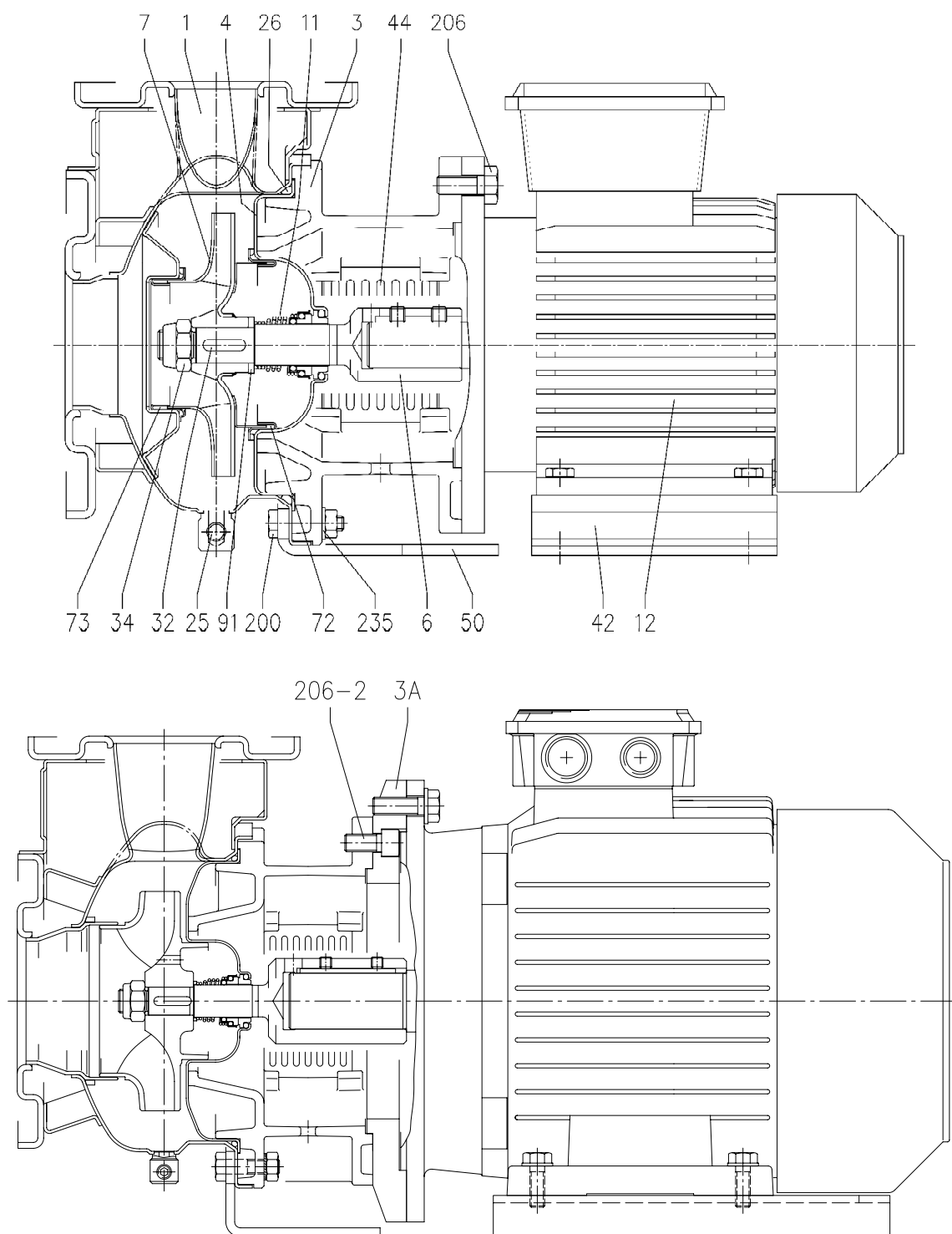
U3U3EGG not available for 65-150/15 and 65-200

[9] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200

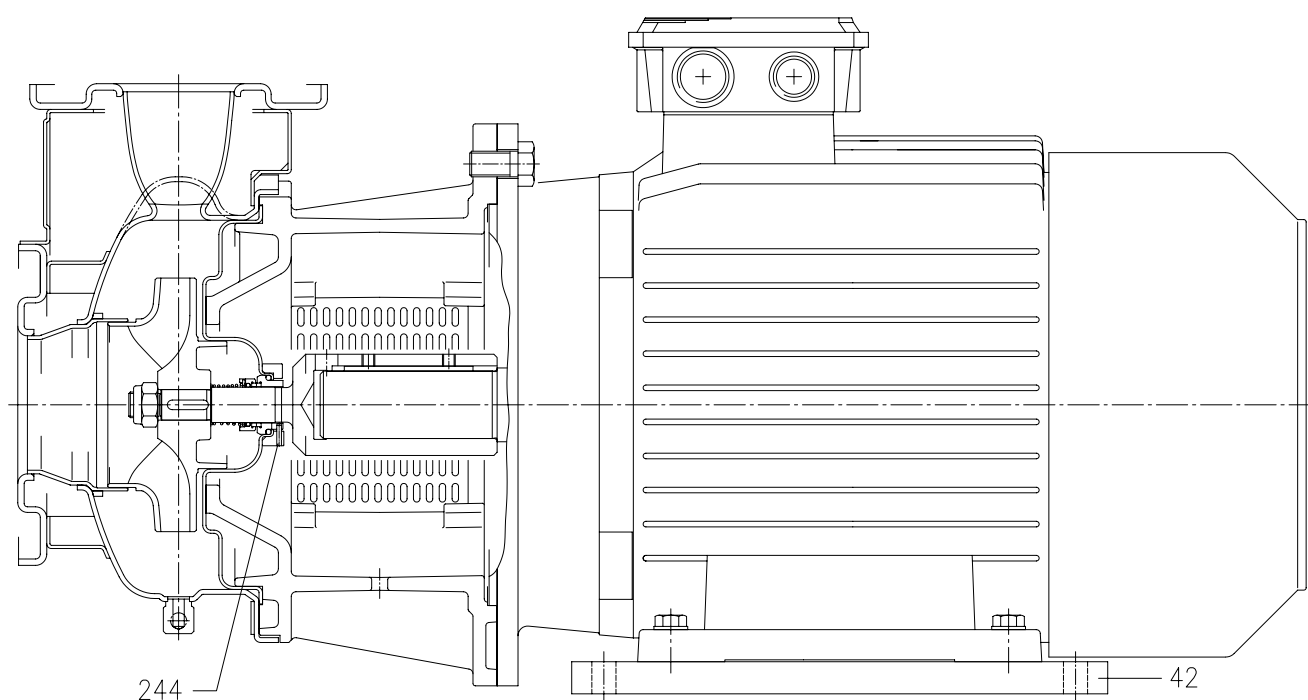
[10] Only for 32-125/1.1



**SECTIONAL VIEW DRAWING 3LSZ 32, 40-125/160, 40-200/5.5/7.5  
50-125/160, 50-200/9.2, 65-125, 65-160/7.5/9.2**



**SECTIONAL VIEW DRAWING 3LSZ 40-200/11, 50-200/11/15, 65-160/11/15, 62-200**



## SECTIONAL VIEW TABLE 3LSZ 32, 40, 50, 65-125/160/200

| N°    | PART NAME                                |                                                | MATERIAL                               | DIMENSIONS       | STANDARD      | Q.TY |
|-------|------------------------------------------|------------------------------------------------|----------------------------------------|------------------|---------------|------|
| 1     | Casing                                   |                                                | EN 1.4404 (AISI 316L)                  |                  |               | 1    |
| 3     | Motor bracket                            |                                                | Cast iron EN-GJL-200-EN 1561           |                  |               | 1    |
| 3 A   | Adapter ring [1]                         |                                                | Cast iron EN-GJL-200-EN 1561           |                  |               | 1    |
| 4     | Casing cover                             |                                                | EN 1.4404 (AISI 316L)                  |                  |               | 1    |
| 6     | Coupling - Part in contact with liquid   |                                                | EN 1.4404 (AISI 316L)                  | See table p. 333 |               | 1    |
| 7     | Impeller                                 |                                                | EN 1.4404 (AISI 316L) [9]              |                  |               | 1    |
| 11    | Mechanical seal                          |                                                | SiC/SiC/FPM                            | [7]              |               | 1    |
| 12    | Motor                                    |                                                | -                                      |                  |               | 1    |
| 25    | Draining plug                            |                                                | EN 1.4401 (AISI 316) / PTFE            | R 1/8" L=8       | DIN 906       | 1    |
| 26    | "O" ring                                 | 32-125, 40-125                                 | FPM                                    | 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                                      | Up to 11 kW                                    | EN 1.4401 (AISI 316)                   | 6x6x25           | UNI 6604      | 1    |
|       |                                          | 15 kW and above                                |                                        | 8x7x30           |               |      |
| 34    | Impeller nut                             | Up to 11kW                                     | EN 1.4404 (AISI 316L)                  | M16x1.5          | UNI 7474      | 1    |
|       |                                          | 50-200/15                                      |                                        | M18x1.5          |               |      |
|       |                                          | 15 kW and above                                |                                        | M20x1.5          |               |      |
| 42    | Foot                                     |                                                | Aluminium / Galvanized steel           |                  |               | [2]  |
| 44    | Protection                               |                                                | EN 1.4301 (AISI 304)                   |                  | EBARA DRAWING | 1    |
| 50    | Casing foot (only from 1.1 kW to 9.2 kW) |                                                | Galvanized Steel                       |                  |               | 1    |
| 72    | Casing ring [3]                          |                                                | EN 1.4404 (AISI 316L)                  |                  |               | 1    |
| 73    | Casing ring                              |                                                | EN 1.4404 (AISI 316L)                  |                  |               | 1    |
| 91    | Impeller spacer [10]                     |                                                | EN 1.4404 (AISI 316L)                  |                  |               | 1    |
| 200   | Screw                                    | 32-125, 40-125                                 | Stainless steel A2 70 class ISO 3506/1 | M 8x30           | UNI 5739      | 8    |
|       |                                          | 50-200, 65-125, 65-160, 65-200                 |                                        | M 10x35          | UNI 5739      | [4]  |
| 201   | Screw                                    |                                                | Galvanized Steel 8.8                   | M 10x16          | UNI 5739      | [5]  |
| 206   | Screw for bracket                        |                                                | Galvanized Steel 8.8                   | M 10x40          | UNI 5739      | 4    |
| 206-2 | Screw adapter ring [1]                   |                                                | Galvanized Steel 8.8                   |                  | UNI 5931      | 4    |
| 235   | Washer                                   | 32-125, 40-125                                 | Stainless steel A2 70 class ISO 3506/1 | M 8.4x17         | UNI 6592      | 8    |
|       |                                          | 50-200, 65-125, 65-160, 65-200                 |                                        | M 10.5x21        | UNI 6592      | [4]  |
| 244   | Pin [6]                                  |                                                | EN 1.4301 (AISI 304)                   |                  | UNI 5931      | 4    |

Counterflange kit on request see p. 335-336

[1] Only for version 65-125/5.5/7.5

[2] Quantity =0 for version 65-200/22

Quantity =1 for version for 32-125/160, 50-125/2.2

Quantity =2 for version for 32-200, 40-125/160/200, 50-125/3/4, 50-160/200, 65-125, 65-160, 65-200/15/18.5

[3] Only for version 32-200, 40-200, 50-160, 50-200

[4] Quantity =10 for 32-160, 40-160, 50-125, 65-125

Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200

[5] Only for version 32-125/1.1, 32-160/1.5, 32-160/2.2, 40-125/1.5, 40-125/2.2, 50-125/2.2

[6] Only for 65-160/15, 65-200

[7] Special version: see page 326 and following

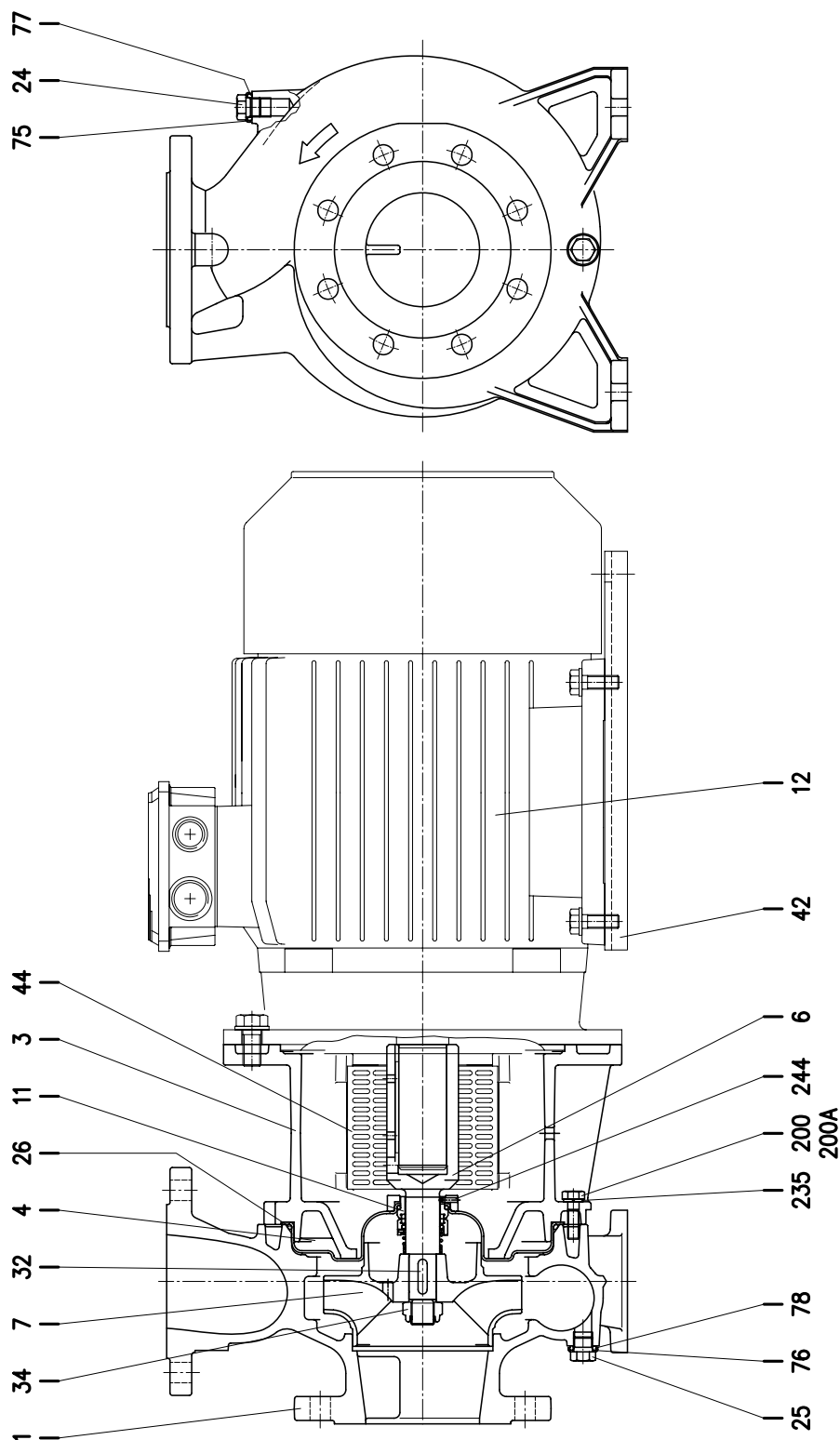
[8] FPM for H-HS-HW-HSW version

EPDM for E version, U3U3EGG, Q1Q1EGG, Q1U3EGG, Q1AEGG, U3CEGG

U3U3EGG not available for 65-150/15 and 65-200

[9] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200

[10] Only for 32-125/1.1

**SECTIONAL VIEW DRAWING 3LS 80-160**

## SECTIONAL VIEW TABLE 3LS 80-160

| N°    | PART NAME       | MATERIAL                                  | DIMENSIONS       | STANDARD    | Q.TY |
|-------|-----------------|-------------------------------------------|------------------|-------------|------|
| 1     | Casing          | CF8M-EN 1.4408 (AISI 316)                 |                  |             | 1    |
| 3     | Motor bracket   | Cast iron EN-GJL-200-EN 1561              |                  |             | 1    |
| 4     | Casing cover    | EN 1.4404 (AISI 316L)                     |                  |             | 1    |
| 6     | Coupling        | EN 1.4404 (AISI 316L)                     | See table p. 333 |             | 1    |
| 7     | Impeller        | CF8M-EN 1.4408 (AISI 316)                 |                  |             | 1    |
| 11    | Mechanical seal | SiC/SiC/FPM                               | [3]              |             | 1    |
| 12    | Motor           | -                                         |                  |             | 1    |
| 24    | Plug            | EN 1.4404 (AISI 316L)                     | G3/8             | EPE DRAWING | 1    |
| 25    | Plug            | EN 1.4404 (AISI 316L)                     | G3/8             | EPE DRAWING | 1    |
| 26    | "O" ring        | FPM [2]                                   | 227.96x5.34      | OR 6895     | 1    |
| 32    | Key             | EN 1.4401 (AISI 316)                      | 8x7x30           | UNI 6604    | 1    |
| 34    | Impeller nut    | EN 1.4404 (AISI 316L)                     | M 20x1.5         | UNI 7474    | 1    |
| 42    | Foot            | Aluminium                                 |                  | EPE DRAWING | 2    |
| 44    | Protection      | EN 1.4301 (AISI 304)                      |                  | EPE DRAWING | 2    |
| 75    | Washer (plug)   | EN 1.4404 (AISI 316L)                     |                  |             | 1    |
| 76    | Washer (plug)   |                                           |                  |             | 1    |
| 77    | O-ring (plug)   | FPM [2]                                   |                  |             | 1    |
| 78    | O-ring (plug)   |                                           |                  |             | 1    |
| 200   | Screw           | Stainless steel A2-70<br>class ISO 3506/1 | M 10x35          | UNI 5739    | 10   |
| 200 A | Screw           |                                           | M 10x30          |             | 2    |
| 235   | Washer          | EN 1.4301(AISI 304)                       | 10.5x21          | UNI 6592    | 12   |
| 244   | Pin [1]         | EN 1.4301(AISI 304)                       | 4x15             |             | 1    |

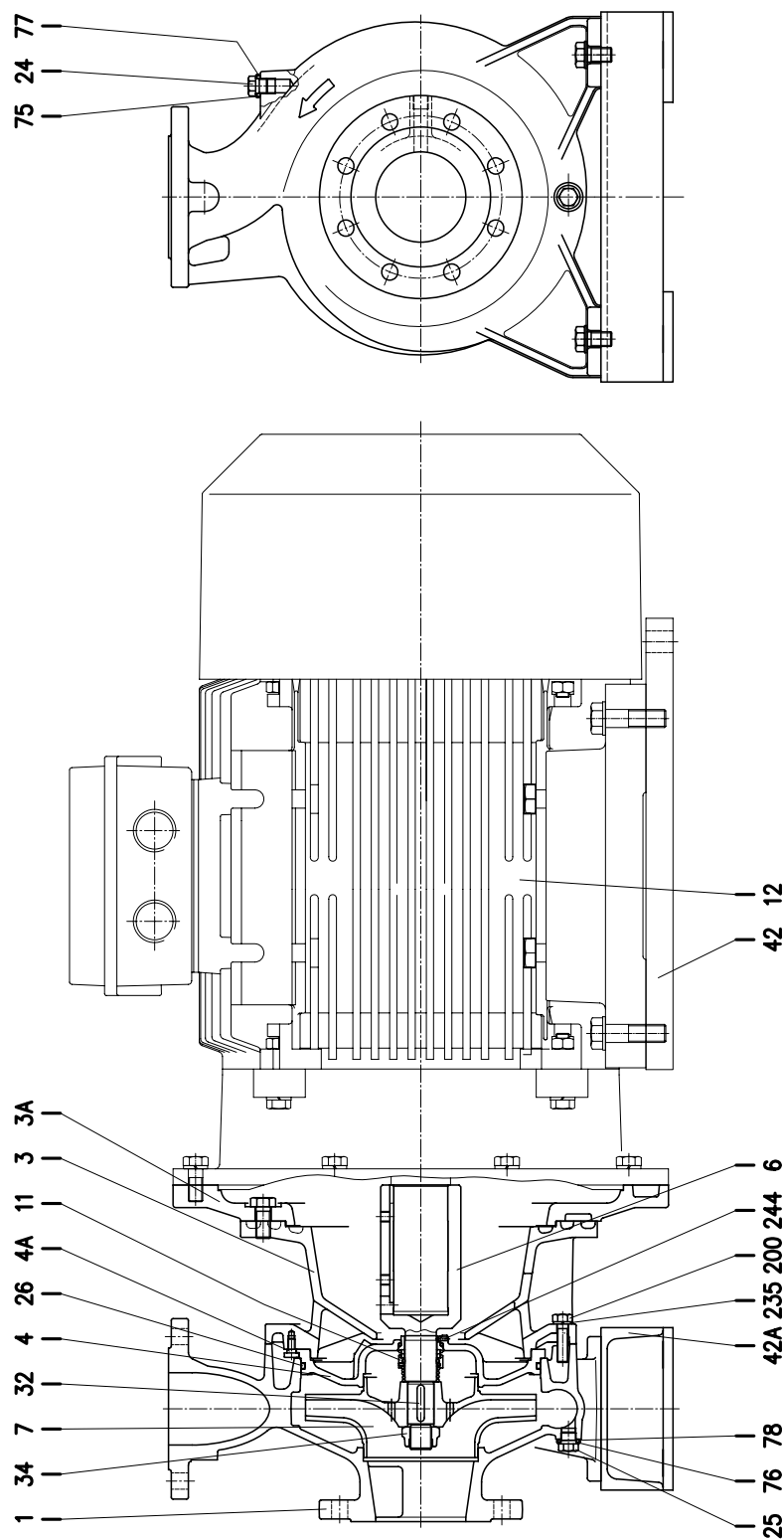
Counterflange kit on request see p. 335-336

[1] Not for H and E version.

[2] FPM for H, HW, HSW version

EPDM for E version and Special Seals (Q1AEGG, Q1Q1EGG, U3CEGG, Q1U3EGG)

[3] Special version: see page 326 and following

**SECTIONAL VIEW DRAWING 3LS 65-250, 80-200/250**

## SECTIONAL VIEW TABLE 3LS 65-250, 80-200/250

| N°   | PART NAME              |        |         | MATERIAL                                        | DIMENSIONS       | STANDARD    | Q.TY |
|------|------------------------|--------|---------|-------------------------------------------------|------------------|-------------|------|
| 1    | Casing                 |        |         | CF8M-EN 1.4408 (AISI 316)                       |                  |             | 1    |
| 3    | Motor bracket          |        |         | Cast iron EN-GJL-200-EN 1561                    |                  |             | 1    |
| 3 A  | Adapter ring           |        |         | Cast iron EN-GJL-200-EN 1561                    |                  |             | [1]  |
| 4    | Casing cover           |        |         | EN 1.4401 (AISI 316)                            |                  |             | 1    |
| 4 A  | Screw for casing cover |        |         | EN 1.4301(AISI 304)                             |                  |             | 2    |
| 6    | Coupling               | 65-250 | d=24 mm | EN 1.4404 (AISI 316L) for 22 kW                 | See table p. 333 |             | 1    |
|      |                        |        |         | EN 1.4462 (Duplex stainless steel) for 30-37 kW |                  |             | 1    |
|      |                        | 80-200 | d=24 mm | EN 1.4404 (AISI 316L) for 22 kW                 |                  |             | 1    |
|      |                        |        |         | EN 1.4462 (Duplex stainless steel) for 30-37 kW |                  |             | 1    |
|      |                        | 80-250 | d=29 mm | EN 1.4462 (Duplex stainless steel)              |                  |             | 1    |
| 7    | Impeller               |        |         | CF8M-EN 1.4408 (AISI 316)                       |                  |             | 1    |
| 11   | Mechanical seal        |        |         | SiC/SiC/FPM                                     | [6]              |             | 1    |
| 12   | Motor                  |        |         | -                                               |                  |             | 1    |
| 24   | Plug                   |        |         | EN 1.4404 (AISI 316L)                           | G3/8             | EPE DRAWING | 1    |
| 25   | Plug                   |        |         | EN 1.4404 (AISI 316L)                           | G3/8             | EPE DRAWING | 1    |
| 26   | "O" ring               |        |         | FPM [5]                                         | 253.36x5.34      | OR 6995     | 1    |
| 32   | Key                    | 65-250 | d=24 mm | EN 1.4401 (AISI 316)                            | 8x7x30           | UNI 6604    | 1    |
|      |                        | 80-200 | d=24 mm |                                                 |                  |             | 1    |
|      |                        | 80-250 | d=29 mm |                                                 | 8x7x40           |             | 1    |
| 34   | impeller nut           | 65-250 | d=24 mm | EN 1.4404 (AISI 316L)                           | M20x1.5          | UNI 7474    | 1    |
|      |                        | 80-200 | d=24 mm |                                                 |                  |             | 1    |
|      |                        | 85-250 | d=29 mm |                                                 | M24x2            |             | 1    |
| 42   | Foot for motor         |        |         | Aluminium                                       |                  | EPE DRAWING | [2]  |
| 42 A | Foot for pump          |        |         | Aluminium/Galvanized steel (only for 80-250/55) |                  |             | [3]  |
| 75   | Washer (plug)          |        |         | EN 1.4404 (AISI 316L)                           |                  |             | 1    |
| 76   | Washer (plug)          |        |         |                                                 |                  |             | 1    |
| 77   | O-ring (plug)          |        |         | FPM [5]                                         |                  |             | 1    |
| 78   | O-ring (plug)          |        |         |                                                 |                  |             | 1    |
| 200  | Screw                  |        |         | Stainless steel A2-70 class ISO 3506/1          | M 12x45          | UNI 5739    | 10   |
| 235  | Washer                 |        |         | C70                                             | 13               | UNI 1751    | 10   |
| 244  | Pin [4]                |        |         | EN 1.4301(AISI 304)                             | 4x12             |             | 1    |

Counterflange kit on request, see table p. 335-336

[1] Only for 65-250/37 , 80-200/37 , 80-250/37 – 80-250/45 and 80-250/55

[2] Quantity =2 for 80-250/55

[3] Quantity =2 for 80-200/30 , 80-200/37 , 80-250/45

Quantity =1 for 80-250/55

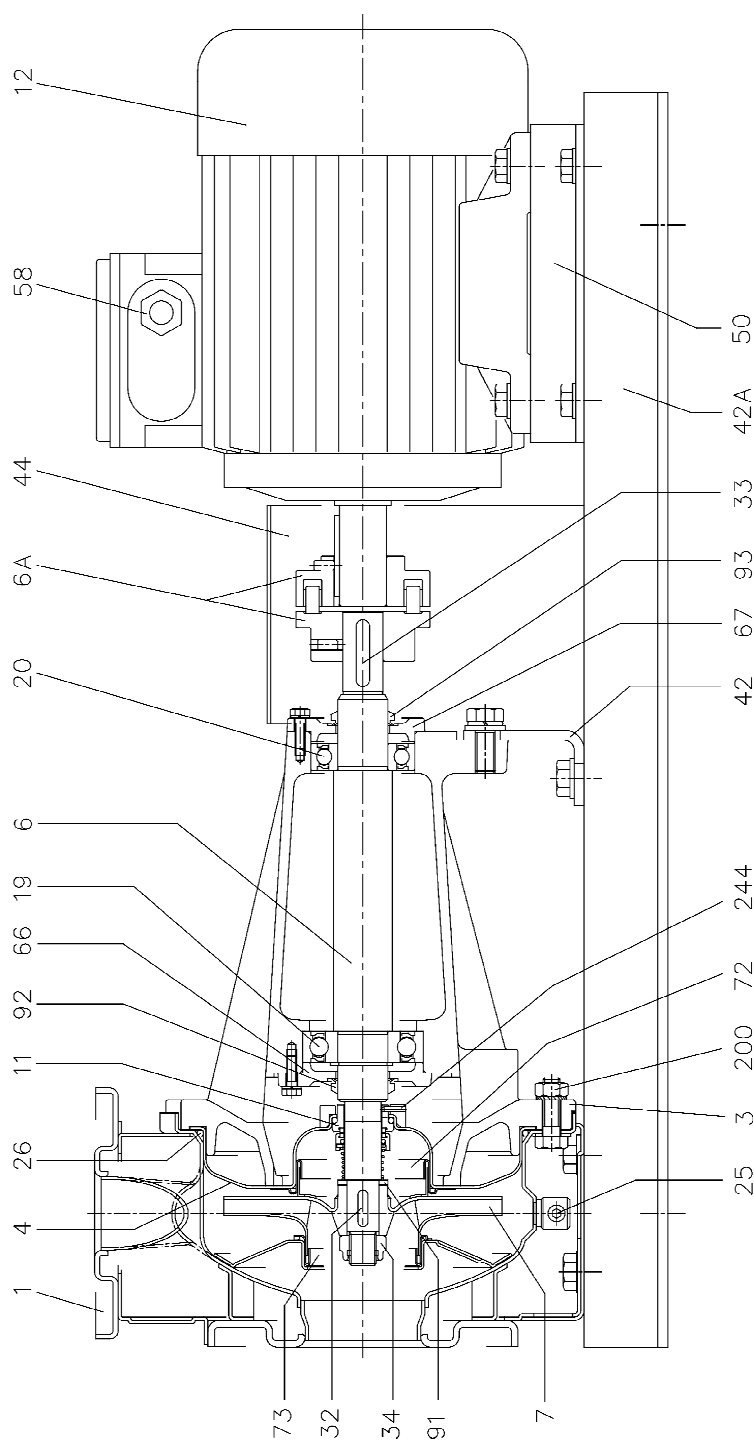
[4] Not for H and E version

[5] FPM for H, HW, HSW version

EPDM for E version and Special seals Q1Q1EGG, Q1U3EGG, U3CEGG, Q1AEGG (Not for model 80-250)

EPDM for ES version only model 80-250

[6] Special version: see page 326 and following

**SECTIONAL VIEW DRAWING 3(.)P 32, 40, 50, 65-125/160/200**

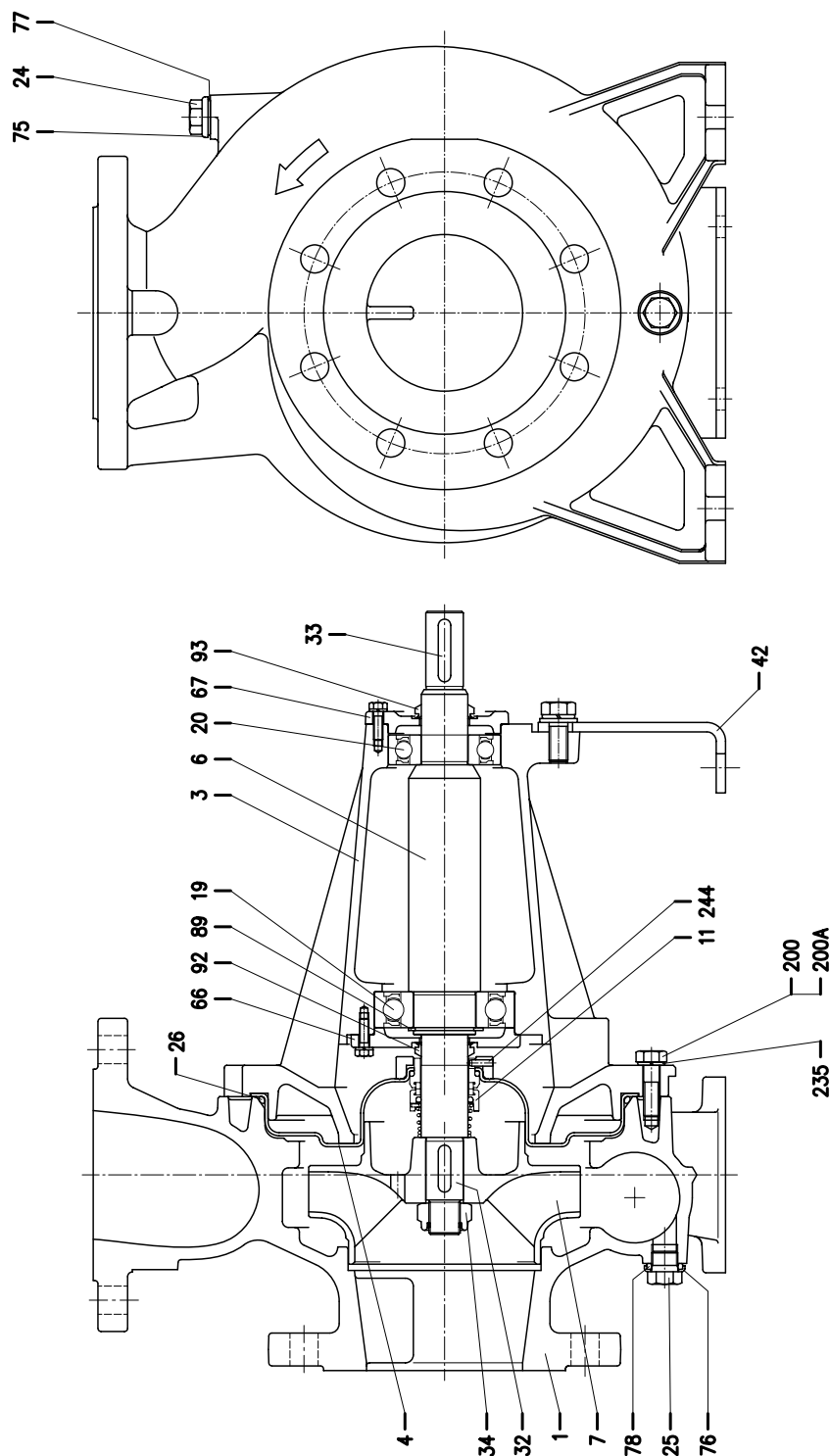


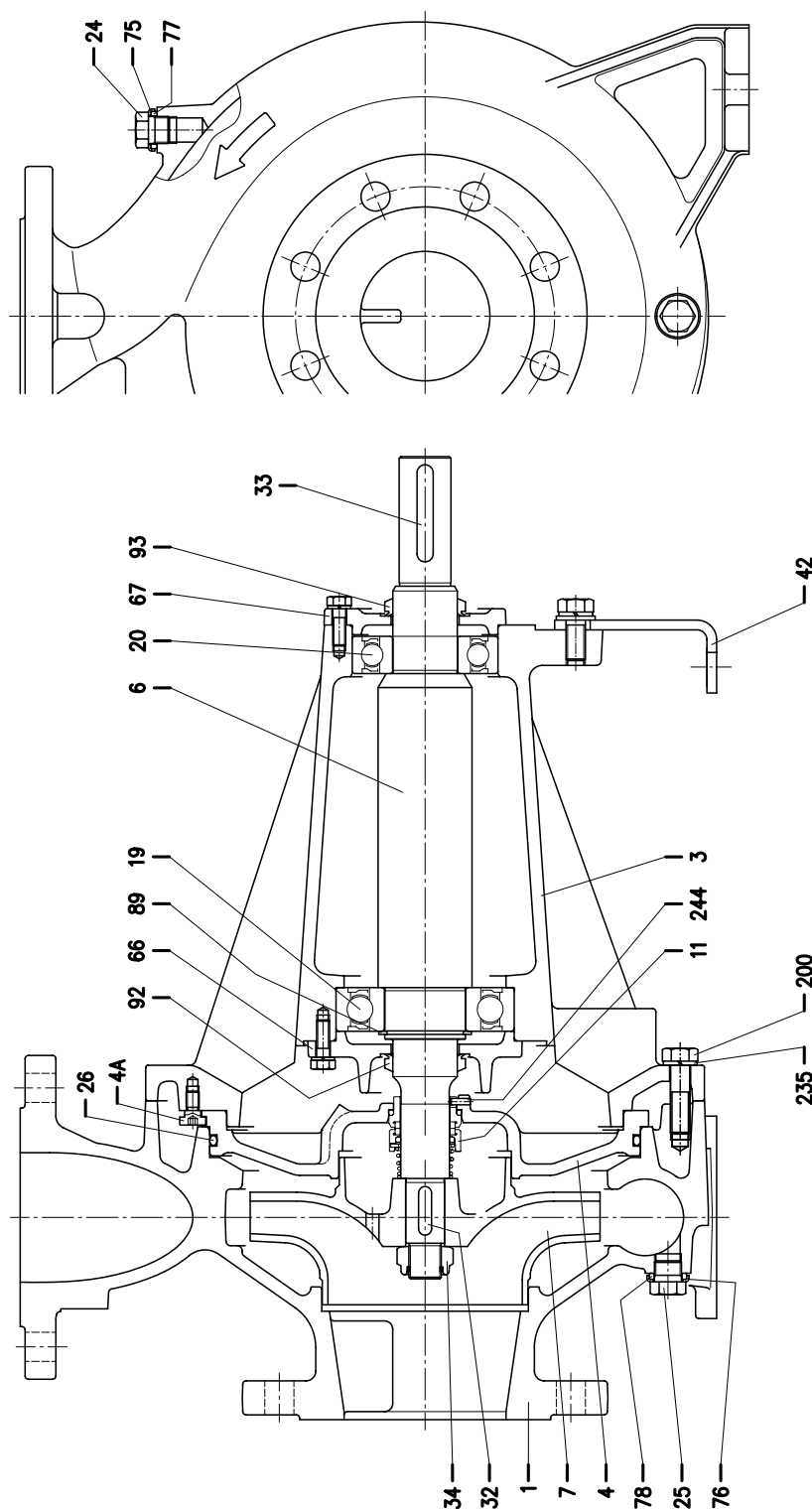
## SECTIONAL VIEW TABLE 3(.)P 32, 40, 50, 65-125/160/200

| N°   | PART NAME                           |                                                                | MATERIAL                               |                           | DIMENSIONS         | STANDARD      |
|------|-------------------------------------|----------------------------------------------------------------|----------------------------------------|---------------------------|--------------------|---------------|
|      |                                     |                                                                | 3P                                     | 3LP                       |                    |               |
| 1    | Casing                              |                                                                | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     |                    |               |
| 3    | Support                             |                                                                | Cast iron EN-GJL-200-EN 1561           |                           |                    |               |
| 4    | Casing cover                        |                                                                | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     |                    |               |
| 6    | Shaft - Part in contact with liquid |                                                                | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     |                    |               |
| 6 A  | Flexible coupling                   |                                                                | Cast iron EN-GJL-250-EN 1561           |                           | See table pag. 334 |               |
| 7    | Impeller                            |                                                                | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L) [6] |                    |               |
| 11   | Mechanical seal                     |                                                                | Carbon/Ceramic/NBR                     | SiC/SiC/FPM               | [5]                |               |
| 12   | Motor                               |                                                                | -                                      |                           |                    |               |
| 19   | Bearing                             |                                                                | -                                      |                           | See table p. 325   |               |
| 20   | Bearing                             |                                                                | -                                      |                           | See table p. 325   |               |
| 25   | Draining plug                       |                                                                | EN 1.4401 (AISI 316) / PTFE            |                           | R 1/8" L=8         | DIN 906       |
| 26   | "O" ring                            | 32-125, 40-125                                                 | NBR [4]                                | FPM                       | 158.11x5.34        | OR 6625       |
|      |                                     | 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                                 | Up to 11 kW<br>15 kW and above                                 | EN 1.4401 (AISI 316)                   |                           | 6x6x25<br>8x7x30   | UNI 6604      |
| 33   | Key                                 |                                                                | C 40                                   |                           | 8x7x40             | UNI 6604      |
| 34   | Impeller nut                        | Up to 11kW                                                     | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     | M16x1.5            | UNI 7474      |
|      |                                     | 50-200/15                                                      |                                        |                           | M18x1.5            |               |
|      |                                     | 15 kW and above                                                |                                        |                           | M20x1.5            |               |
|      |                                     |                                                                |                                        |                           |                    |               |
| 42   | Pump support                        |                                                                | Fe 37 Galvanized                       |                           |                    | EBARA DRAWING |
| 42 A | Base                                |                                                                | Fe 37 Galvanized                       |                           |                    |               |
| 44   | Protection                          |                                                                | Fe 37 Galvanized                       |                           |                    |               |
| 50   | Foot                                |                                                                | Aluminium / Galvanized steel           |                           |                    |               |
| 58   | Fastening nut                       |                                                                | -                                      |                           |                    |               |
| 66   | Impeller side bearing cover         |                                                                | Cast iron EN-GJL-200-EN 1561           |                           |                    |               |
| 67   | Motor side bearing cover            |                                                                | Cast iron EN-GJL-200-EN 1561           |                           |                    |               |
| 72   | Casing ring                         | [1]                                                            | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     |                    |               |
| 73   | Casing ring (not for 65 version)    |                                                                | EN 1.4301 (AISI 304)                   | EN 1.4404 (AISI 316L)     |                    |               |
| 91   | Impeller spacer                     | [7]                                                            | EN 1.4404 (AISI 316L)                  |                           |                    |               |
| 92   | "V" ring                            |                                                                | -                                      |                           | VS - 0030          |               |
| 93   | "V" ring                            |                                                                | -                                      |                           | VS - 0030          |               |
| 200  | Screw                               | 32-125, 40-125                                                 | Stainless steel A2 70 class ISO 3506/1 |                           | M 8x30             | UNI 5739      |
|      |                                     | 40-160, 40-200, 50-125, 50-160, 50-200, 65-125, 65-160, 65-200 |                                        |                           | M 10x35            | UNI 5739      |
|      |                                     |                                                                |                                        |                           |                    |               |
| 244  | Pin                                 | [3]                                                            | /                                      | EN 1.4301 (AISI 304)      | 4x15               |               |

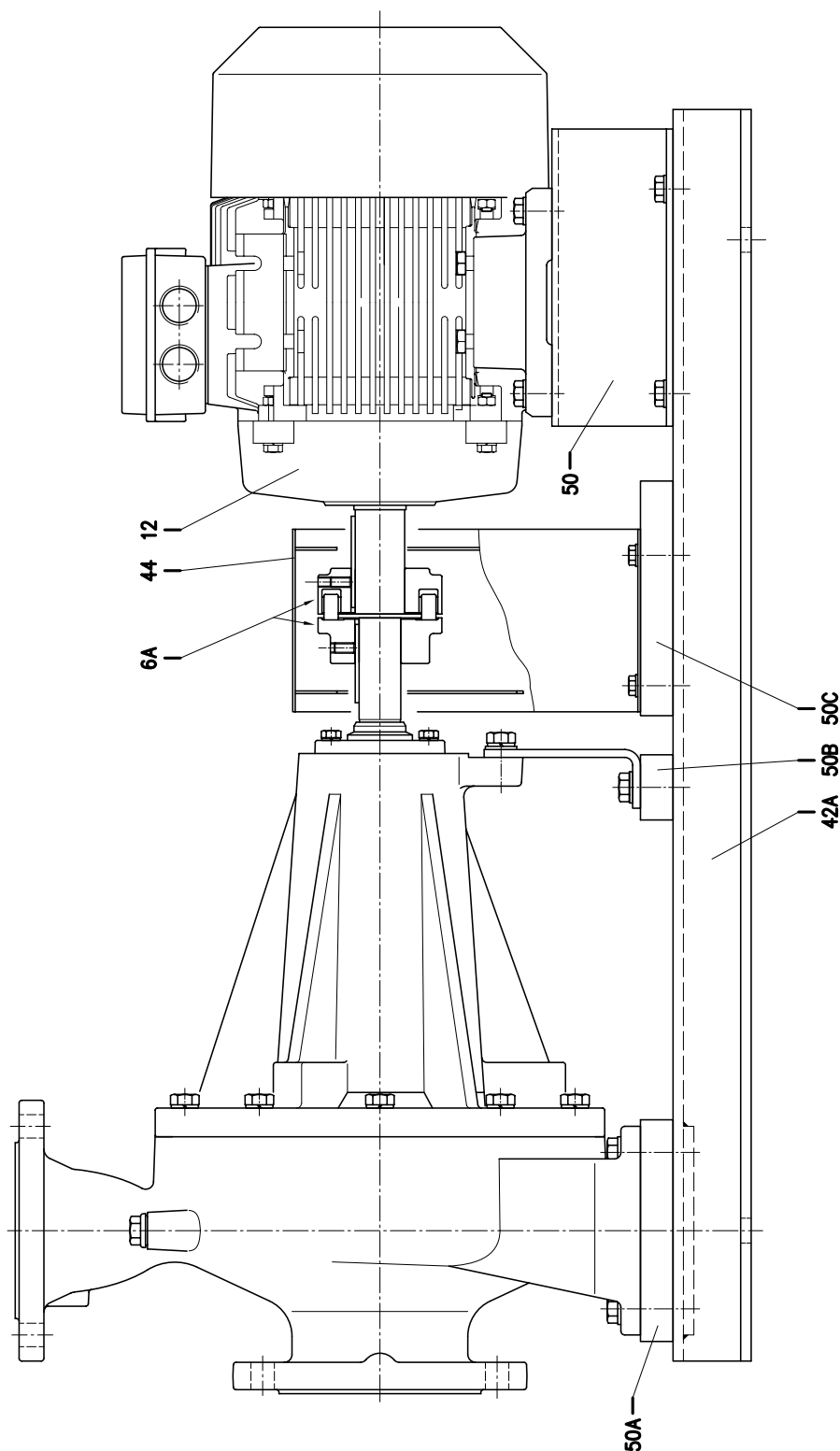
Counterflange kit on request see p. 335-336

- [1] For version: 32-200/3, 32-200/4, 32-200/5.5, 40-200/5.5, 40-200/5.5, 40-200/7.5, 40-200/11, 50-160/5.5, 50-160/7.5, 50-200/9.2, 50-200/11, 50-200/15
- [2] Quantity =10 for 32-160, 40-160, 50-125, 65-125  
Quantity =12 for 32-200, 40-200, 50-160, 50-200, 65-160, 65-200
- [3] Only for 65-160/15 and 65-200
- [4] FPM for H-HS-HW-HSW version  
EPDM for E version and Special Seals Q1Q1EGG, Q1U3EGG, U3CEGG, Q1AEGG, U3U3EGG  
U3U3EGG is not available for model 65-160/15 and model 65-200
- [5] Special version: see page 326 and following
- [6] CF8M – EN 1.4408 (AISI316) material for 65-125 up to 65-200
- [7] Only for 32-125/1.1

**SECTIONAL VIEW DRAWING 3LP 80-160**

**SECTIONAL VIEW DRAWING 3LP 65-250, 80-200/250**

SECTIONAL VIEW DRAWING 3LP 65-250, 80-160/200/250



## SECTIONAL VIEW TABLE 3LP 80-160

| N°    | PART NAME                   | MATERIAL                               | DIMENSIONS       | STANDARD    | Q.TY |
|-------|-----------------------------|----------------------------------------|------------------|-------------|------|
| 1     | Casing                      | CF8M-EN 1.4408 (AISI 316)              |                  |             | 1    |
| 3     | Support                     | Cast iron EN-GJL-200-EN 1561           |                  |             | 1    |
| 4     | Casing cover                | EN 1.4404 (AISI 316L)                  |                  |             | 1    |
| 6     | Shaft                       | EN 1.4404 (AISI 316L) - Wet extension  |                  |             | 1    |
| 6 A   | Flexible coupling           | Cast iron EN-GJL-250-EN 1561           | See table p. 334 |             | 1    |
| 7     | Impeller                    | CF8M-EN 1.4408 (AISI 316)              |                  |             | 1    |
| 11    | Mechanical seal             | SiC/SiC/FPM                            | [3]              |             | 1    |
| 12    | Motor                       | -                                      |                  |             | 1    |
| 19    | Bearing                     | -                                      | See table p. 325 |             | 1    |
| 20    | Bearing                     | -                                      | See table p. 325 |             | 1    |
| 24    | Plug                        | EN 1.4404 (AISI 316L)                  | G3/8             | EPE DRAWING | 1    |
| 25    | Plug                        | EN 1.4404 (AISI 316L)                  | G3/8             | EPE DRAWING | 1    |
| 26    | "O" ring                    | FPM [2]                                | 227.96x5.34      | OR 6895     | 1    |
| 32    | Key                         | EN 1.4401 (AISI 316)                   | 8x7x30           | UNI 6604    | 1    |
| 33    | Key                         | C 40                                   | 8x7x40           |             | 1    |
| 34    | Impeller nut                | EN 1.4404 (AISI 316L)                  | M20x1.5          | UNI 7474    | 1    |
| 42    | Pump support                | Galvanized steel                       |                  | EPE DRAWING | 1    |
| 42 A  | Base                        | Galvanized steel                       |                  | EPE DRAWING | 1    |
| 44    | Protection                  | Galvanized steel                       |                  | EPE DRAWING | 1    |
| 50    | Foot                        | Aluminium                              |                  | EPE DRAWING | 2    |
| 50 A  | Spacer for pump             | /                                      |                  |             | /    |
| 50 B  | Spacer for pump             | /                                      |                  |             | /    |
| 50 C  | spacer for protection       | /                                      |                  |             | /    |
| 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    |
| 75    | Washer (plug)               | EN 1.4404 (AISI 316L)                  |                  |             | 1    |
| 76    | Washer (plug)               |                                        |                  |             | 1    |
| 77    | O-ring (plug)               | FPM [2]                                |                  |             | 1    |
| 78    | O-ring (plug)               |                                        |                  |             | 1    |
| 89    | Snap ring                   | Carbon tool steels TC 80               | Ø 40             | UNI 7435    | 1    |
| 92    | "V" ring                    | -                                      | VS-0030          |             | 1    |
| 93    | "V" ring                    |                                        |                  |             | 1    |
| 200   | Screw                       | Stainless steel A2 70 class ISO 3506/1 | M 10x35          | UNI 5739    | 10   |
| 200 A | Screw                       |                                        | M 10x30          |             | 2    |
| 235   | Washer                      | EN 1.4301(AISI 304)                    | 10.5             | UNI 8842    | 12   |
| 244   | Pin [1]                     | EN 1.4301(AISI 304)                    | 4x15             | UNI 6873    | 1    |

Counterflange kit on request, see table p. 335-336

[1] Not for H and E option.

[2] FPM for H, HW, HSW version

EPDM for E version, Q1AEGG, Q1Q1EGG, Q1U3EGG, U3CEGG.

[3] Special version: see page 326 and following

For drawing see p.319

## SECTIONAL VIEW TABLE 3LP 65-250, 80-200/250

| N°   | PART NAME                   |        |         | MATERIAL                                           | DIMENSIONS       | STANDARD | Q.TY |
|------|-----------------------------|--------|---------|----------------------------------------------------|------------------|----------|------|
| 1    | Casing                      |        |         | CF8M-EN 1.4408 (AISI 316)                          |                  |          | 1    |
| 3    | Support                     |        |         | Cast iron EN-GJL-200-EN 1561                       |                  |          | 1    |
| 4    | Casing cover                |        |         | EN 1.4401 (AISI 316)                               |                  |          | 1    |
| 4 A  | Screw for casing cover      |        |         | EN 1.4301 (AISI 304)                               |                  |          | 2    |
| 6    | Shaft                       |        |         | EN 1.4462 (Duplex stainless steel) - Wet extension |                  |          | 1    |
| 6 A  | Flexible coupling           |        |         | Cast iron EN-GJL-250-EN 1561                       | See table p. 334 |          | 1    |
| 7    | Impeller                    |        |         | CF8M-EN 1.4408 (AISI 316)                          |                  |          | 1    |
| 11   | Mechanical seal             |        |         | SiC/SiC/FPM                                        | [5]              |          | 1    |
| 12   | Motor                       |        |         | -                                                  |                  |          | 1    |
| 19   | Bearing                     |        |         | -                                                  | See table p. 325 |          | 1    |
| 20   | Bearing                     |        |         | -                                                  | See table p. 325 |          | 1    |
| 24   | Plug                        |        |         | EN 1.4404 (AISI 316L)                              | G3/8             |          | 1    |
| 25   | Plug                        |        |         | EN 1.4404 (AISI 316L)                              | G3/8             |          | 1    |
| 26   | "O" ring                    |        |         | FPM [4]                                            | 253.36x5.34      | OR 6995  | 1    |
| 32   | Key                         | 65-250 | d=24 mm | EN 1.4401 (AISI 316)                               | 8x7x30           | UNI 6604 | 1    |
|      |                             | 80-200 |         |                                                    |                  |          | 1    |
|      |                             | 80-250 | d=29 mm |                                                    | 8x7x40           |          | 1    |
| 33   | Key                         |        |         | C 40                                               | 10x8x60          | UNI 6604 | 1    |
| 34   | impeller nut                | 65-250 | d=24 mm | EN 1.4404 (AISI 316L)                              | M20x1.5          | UNI 7474 | 1    |
|      |                             | 80-200 |         |                                                    |                  |          | 1    |
|      |                             | 80-250 | d=29 mm |                                                    | M24x2            |          | 1    |
| 42   | Pump support                |        |         | Galvanized steel                                   |                  |          | 1    |
| 42 A | Base                        |        |         | Galvanized steel                                   |                  |          | 1    |
| 44   | Protection                  |        |         | Galvanized steel                                   |                  |          | 1    |
| 50   | Foot (only for 65-250/22kW) |        |         | Aluminium                                          |                  |          | 2    |
| 50 A | Spacer                      |        |         | Aluminium                                          |                  |          | [1]  |
| 50 B | Spacer                      |        |         | Aluminium                                          |                  |          | [2]  |
| 50 C | Spacer for protection       |        |         | Aluminium                                          |                  |          | [3]  |
| 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    |
| 75   | Washer (plug)               |        |         | EN 1.4404 (AISI 316L)                              |                  |          | 1    |
| 76   | Washer (plug)               |        |         |                                                    |                  |          | 1    |
| 77   | O-ring (plug)               |        |         |                                                    |                  |          | 1    |
| 78   | O-ring (plug)               |        |         | FPM [4]                                            |                  |          | 1    |
| 89   | Snap ring                   |        |         | Carbon tool steels TC 80                           | Ø 50             | UNI 7435 | 1    |
| 92   | "V" ring                    |        |         | -                                                  | VS-0040          |          | 1    |
| 93   | "V" ring                    |        |         |                                                    |                  |          |      |
| 200  | Screw                       |        |         | Stainless steel A2 70 class ISO 3506/1             | M 12x45          | UNI 5739 | 10   |
| 235  | Washer                      |        |         | EN 1.4301 (AISI 304)                               | 13               | UNI 8842 | 10   |
| 244  | Pin [3]                     |        |         | EN 1.4301 (AISI 304)                               | 4x12             | UNI 6873 | 1    |

Counterflange kit on request, see table p. 335-336

[1] Quantity =0 for 65-250, 80-200/22 and 80-250/55

Quantity =2 for 80-200/30, 80-200/37 and 80-250/45

[2] Quantity =0 for 65-250, 80-200/22 and 80-250/55

Quantity =2 for 80-200/30, 80-200/37 and 80-250/45

[3] Not for H and E option.

[4] FPM for H, HW, HSW version

EPDM for E version and for Q1Q1EGG, Q1U3EGG, U3CEGG, Q1AEGG

EPDM for ES version only model 80-250

[5] Special version: see page 326 and following

For drawing see p.320-321

**BEARINGS 3(.)M**

| Pump type             |                      | Pump side | Fan side<br>Single pha. | Fan side<br>Three pha. |
|-----------------------|----------------------|-----------|-------------------------|------------------------|
| Single Phase<br>50 Hz | Three Phase<br>50 Hz |           |                         |                        |
| 3(.)M 32-125/1.1 M    | 3(.)M(Z) 32-125/1.1  | 6205      | 6205                    | 6203                   |
| 3(.)M 32-160/1.5 M    | 3(.)M(Z) 32-160/1.5  |           |                         |                        |
| 3(.)M 32-160/2.2 M    | 3(.)M(Z) 32-160/2.2  |           |                         |                        |
| -                     | 3(.)M(Z) 32-200/3    | 6206      |                         | 6205                   |
|                       | 3(.)M(Z) 32-200/4    |           |                         |                        |
|                       | 3(.)M(Z) 32-200/5.5  | 6306      |                         | 6206                   |
|                       | 3(.)M(Z) 32-200/7.5  |           |                         |                        |
| 3(.)M 40-125/1.5 M    | 3(.)M(Z) 40-125/1.5  | 6205      | 6205                    | 6203                   |
| 3(.)M 40-125/2.2 M    | 3(.)M(Z) 40-125/2.2  |           |                         |                        |
| -                     | 3(.)M(Z) 40-160/3    |           |                         |                        |
|                       | 3(.)M(Z) 40-160/4    |           |                         |                        |
|                       | 3(.)M(Z) 40-200/5.5  | 6306      | 6206                    |                        |
|                       | 3(.)M(Z) 40-200/7.5  |           |                         |                        |
|                       | 3(.)M(Z) 40-200/11   | 6308      | 6208                    |                        |
| 3(.)M 50-125/2.2 M    | 3(.)M(Z) 50-125/2.2  | 6205      | 6205                    | 6203                   |
| -                     | 3(.)M(Z) 50-125/3    |           |                         |                        |
|                       | 3(.)M(Z) 50-125/4    | 6206      |                         |                        |
|                       | 3(.)M(Z) 50-160/5.5  | 6306      | 6206                    |                        |
|                       | 3(.)M(Z) 50-160/7.5  |           |                         |                        |
|                       | 3(.)M(Z) 50-200/9.2  | 6308      | 6208                    |                        |
|                       | 3(.)M(Z) 50-200/11   |           |                         |                        |
|                       | 3(.)M(Z) 50-200/15   | 6309      | 6309                    |                        |
|                       | 3(.)M(Z) 65-125/4    | 6206      | 6205                    |                        |
|                       | 3(.)M(Z) 65-125/5.5  | 6206      | 6206                    |                        |
|                       | 3(.)M(Z) 65-125/7.5  |           |                         |                        |
|                       | 3(.)M(Z) 65-160/7.5  |           |                         |                        |
|                       | 3(.)M(Z) 65-160/9.2  | 6308      | 6208                    |                        |
|                       | 3(.)M(Z) 65-160/11   |           |                         |                        |
|                       | 3(.)M(Z) 65-160/15   | 6309      | 6309                    |                        |
|                       | 3(.)M(Z) 65-200/15   |           |                         |                        |
|                       | 3(.)M(Z) 65-200/18.5 |           |                         |                        |
|                       | 3(.)M(Z) 65-200/22   |           |                         |                        |
|                       | 3LM 80-160/11        | 6308      | 6309                    | 6208                   |
|                       | 3LM 80-160/15R       | 6309      |                         | 6309                   |
|                       | 3LM 80-160/15        |           |                         |                        |
|                       | 3LM 80-160/18.5      |           |                         |                        |

## BEARINGS 3(.)S-3(.)P

| Pump type            | Ball bearing |            |
|----------------------|--------------|------------|
|                      | Pump side    | Fan side   |
| 3(.)S(Z) 32-125/1.1  | 6204-2Z C3   | 6204-2Z C3 |
| 3(.)S(Z) 32-160/1.5  | 6205-2Z C3   | 6205-2Z C3 |
| 3(.)S(Z) 32-160/2.2  |              |            |
| 3(.)S(Z) 32-200/3    | 6206-2Z C3   | 6206-2Z C3 |
| 3(.)S(Z) 32-200/4    | 6306-2Z C3   | 6306-2Z C3 |
| 3(.)S(Z) 32-200/5.5  | 6208-2Z C3   | 6208-2Z C3 |
| 3(.)S(Z) 32-200/7.5  |              |            |
| 3(.)S(Z) 40-125/1.5  | 6205-2Z C3   | 6205-2Z C3 |
| 3(.)S(Z) 40-125/2.2  |              |            |
| 3(.)S(Z) 40-160/3    | 6206-2Z C3   | 6206-2Z C3 |
| 3(.)S(Z) 40-160/4    | 6306-2Z C3   | 6306-2Z C3 |
| 3(.)S(Z) 40-200/5.5  | 6208-2Z C3   | 6208-2Z C3 |
| 3(.)S(Z) 40-200/7.5  |              |            |
| 3(.)S(Z) 40-200/11   | 6309-2Z C3   | 6309-2Z C3 |
| 3(.)S(Z) 50-125/2.2  | 6205-2Z C3   | 6205-2Z C3 |
| 3(.)S(Z) 50-125/3    | 6206-2Z C3   | 6206-2Z C3 |
| 3(.)S(Z) 50-125/4    | 6306-2Z C3   | 6306-2Z C3 |
| 3(.)S(Z) 50-160/5.5  | 6208-2Z C3   | 6208-2Z C3 |
| 3(.)S(Z) 50-160/7.5  |              |            |
| 3(.)S(Z) 50-200/9.2  | 6309-2Z C3   | 6309-2Z C3 |
| 3(.)S(Z) 50-200/11   |              |            |
| 3(.)S(Z) 50-200/15   | 6309-2Z C3   | 6309-2Z C3 |
| 3(.)S(Z) 65-125/4    |              |            |
| 3(.)S(Z) 65-125/5.5  | 6208-2Z C3   | 6208-2Z C3 |
| 3(.)S(Z) 65-125/7.5  |              |            |
| 3(.)S(Z) 65-160/7.5  | 6309-2Z C3   | 6309-2Z C3 |
| 3(.)S(Z) 65-160/9.2  |              |            |
| 3(.)S(Z) 65-160/11   | 6309-2Z C3   | 6309-2Z C3 |
| 3(.)S(Z) 65-160/15   |              |            |
| 3(.)S(Z) 65-200/15   | 6311 C3      | 6311 C3    |
| 3(.)S(Z) 65-200/18.5 |              |            |
| 3(.)S(Z) 65-200/22   | 6312 C3      | 6312 C3    |
| 3LS 65-250/30        | 6309-2Z C3   | 6309-2Z C3 |
| 3LS 65-250/37        |              |            |
| 3LS 80-160/11        | 6311 C3      | 6311 C3    |
| 3LS 80-160/15R       |              |            |
| 3LS 80-160/15        | 6312 C3      | 6312 C3    |
| 3LS 80-160/18.5      |              |            |
| 3LS 80-200/22        | 6313 C3      | 6313 C3    |
| 3LS 80-200/30        |              |            |
| 3LS 80-200/37        | 6314 C3      | 6314 C3    |
| 3LS 80-250/37        |              |            |
| 3LS 80-250/45        | 6314 C3      | 6314 C3    |
| 3LS 80-250/55        |              |            |

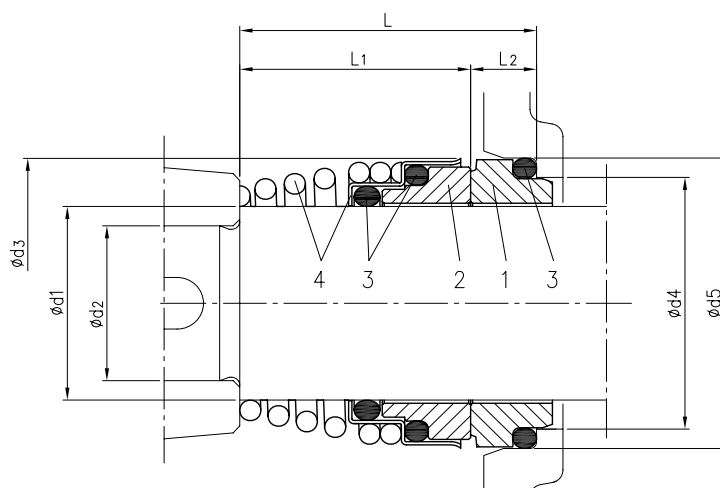
  

| Pump type         | Pump         |              | Motor      |            |
|-------------------|--------------|--------------|------------|------------|
|                   | Pump side    | Motorside    | Pump side  | Fan side   |
| 3(.)P 32-125/1.1  | 6306-2RS 1   | 6206-2RS1    | 6204-2Z C3 | 6204-2Z C3 |
| 3(.)P 32-160/1.5  |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 32-160/2.2  |              |              | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 32-200/3    | 6308-2RS 1   | 6306-2RS1    | 6306-2Z C3 | 6306-2Z C3 |
| 3(.)P 32-200/4    |              |              | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 32-200/5.5  |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 32-200/7.5  | 6306-2RS 1   | 6206-2RS1    | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 40-125/1.5  |              |              | 6306-2Z C3 | 6306-2Z C3 |
| 3(.)P 40-125/2.2  |              |              | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 40-160/3    | 6308-2RS 1   | 6306-2RS1    | 6309-2Z C3 | 6309-2Z C3 |
| 3(.)P 40-160/4    |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 40-160/5.5  |              |              | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 40-200/7.5  | 6306-2RS 1   | 6206-2RS1    | 6306-2Z C3 | 6306-2Z C3 |
| 3(.)P 40-200/11   |              |              | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 50-125/2.2  |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 50-125/3    | 6308-2RS 1   | 6306-2RS1    | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 50-125/4    |              |              | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 50-160/5.5  |              |              | 6309-2Z C3 | 6309-2Z C3 |
| 3(.)P 50-160/7.5  | 6306-2RS 1   | 6206-2RS1    | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 50-200/9.2  |              |              | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 50-200/11   |              |              | 6306-2Z C3 | 6306-2Z C3 |
| 3(.)P 50-200/15   | 6308-2RS 1   | 6306-2RS1    | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 65-125/4    |              |              | 6309-2Z C3 | 6309-2Z C3 |
| 3(.)P 65-125/5.5  |              |              | 6205-2Z C3 | 6205-2Z C3 |
| 3(.)P 65-125/7.5  | 6310-2RS 1   | 6308-2RS1    | 6206-2Z C3 | 6206-2Z C3 |
| 3(.)P 65-160/7.5  |              |              | 6208-2Z C3 | 6208-2Z C3 |
| 3(.)P 65-160/9.2  |              |              | 6309-2Z C3 | 6309-2Z C3 |
| 3(.)P 65-160/11   | 6308-2RS 1   | 6306-2RS1    | 6311 C3    | 6311 C3    |
| 3(.)P 65-160/15   |              |              | 6312 C3    | 6312 C3    |
| 3(.)P 65-200/15   |              |              | 6313 C3    | 6313 C3    |
| 3(.)P 65-200/18.5 | 6310-2RS 1   | 6308-2RS1    | 6314 C3    | 6314 C3    |
| 3(.)P 65-200/22   |              |              | 6311 C3    | 6311 C3    |
| 3LP 65-250/30     |              |              | 6312 C3    | 6312 C3    |
| 3LP 65-250/37     | 6308-2RS1 C3 | 6306-2RS1 C3 | 6313 C3    | 6313 C3    |
| 3LP 80-160/11     |              |              | 6314 C3    | 6314 C3    |
| 3LP 80-160/15R    |              |              | 6311 C3    | 6311 C3    |
| 3LP 80-160/15     | 6310-2RS1 C3 | 6308-2RS1 C3 | 6312 C3    | 6312 C3    |
| 3LP 80-160/18.5   |              |              | 6313 C3    | 6313 C3    |
| 3LP 80-200/22     |              |              | 6314 C3    | 6314 C3    |
| 3LP 80-200/30     | 6310-2RS1 C3 | 6308-2RS1 C3 | 6311 C3    | 6311 C3    |
| 3LP 80-200/37     |              |              | 6312 C3    | 6312 C3    |
| 3LP 80-250/37     |              |              | 6313 C3    | 6313 C3    |
| 3LP 80-250/45     | 6310-2RS1 C3 | 6308-2RS1 C3 | 6314 C3    | 6314 C3    |
| 3LP 80-250/55     |              |              | 6311 C3    | 6311 C3    |

1) Motor available with lubricator for regular re-greasing of bearing.



## MECHANICAL SEAL (standard, H, E and Special version)



| Version  | Pump type                                                                         | Dimensions |    |    |    |    |      |      |    | Material                     |                          |             |                         |
|----------|-----------------------------------------------------------------------------------|------------|----|----|----|----|------|------|----|------------------------------|--------------------------|-------------|-------------------------|
|          |                                                                                   | d1         | d2 | d3 | d4 | d5 | L    | L1   | L2 | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| Standard | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | NBR         | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200                                                               | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
| H        | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | FPM         | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          | 80-250                                                                            | 35         | 29 | 50 | 44 | 50 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
| E        | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Carbon                       | Ceramic                  | EPDM        | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
| Q1AEGG*  | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 | Silicon<br>Carbide           | Metallised<br>Carbon     | EPDM        | EN 1.4401<br>(AISI 316) |

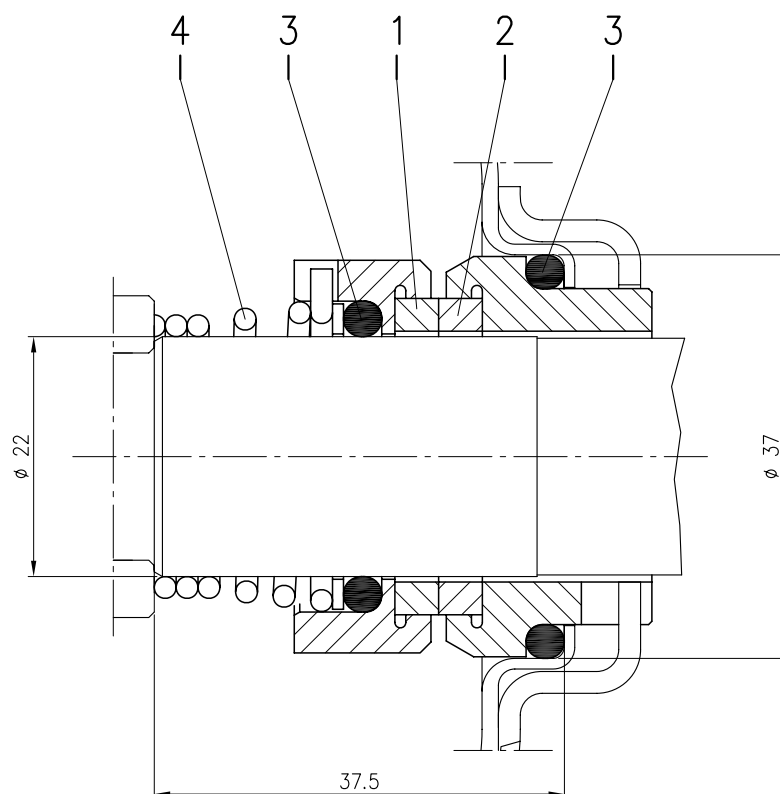
\* The drawing is only indicative

for all the EPDM E version models (sizes 32-40-50): Approvals for drinking water application  
DM174/2004 (ICIM) approved product

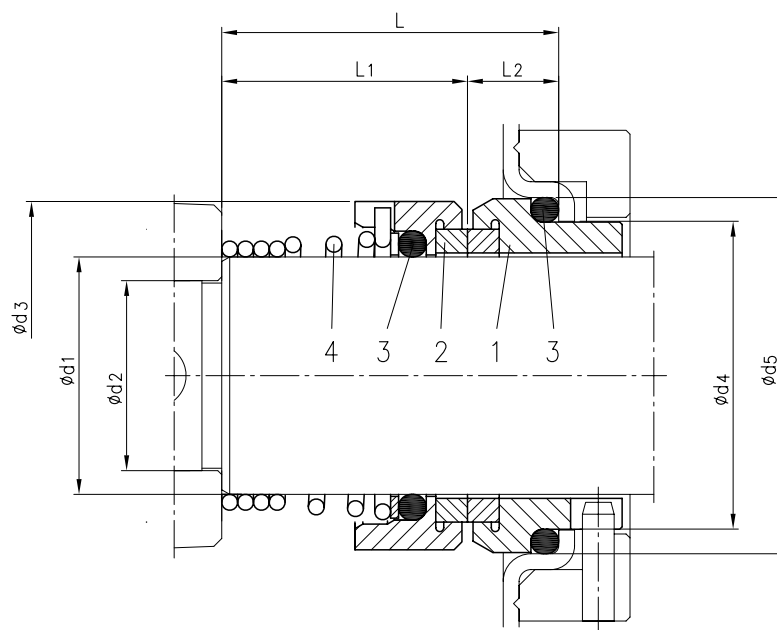


ONLY for 3ME (EPDM version) (E version models), sizes 32-40-50-65: Approvals for drinking water application  
WRAS approved product

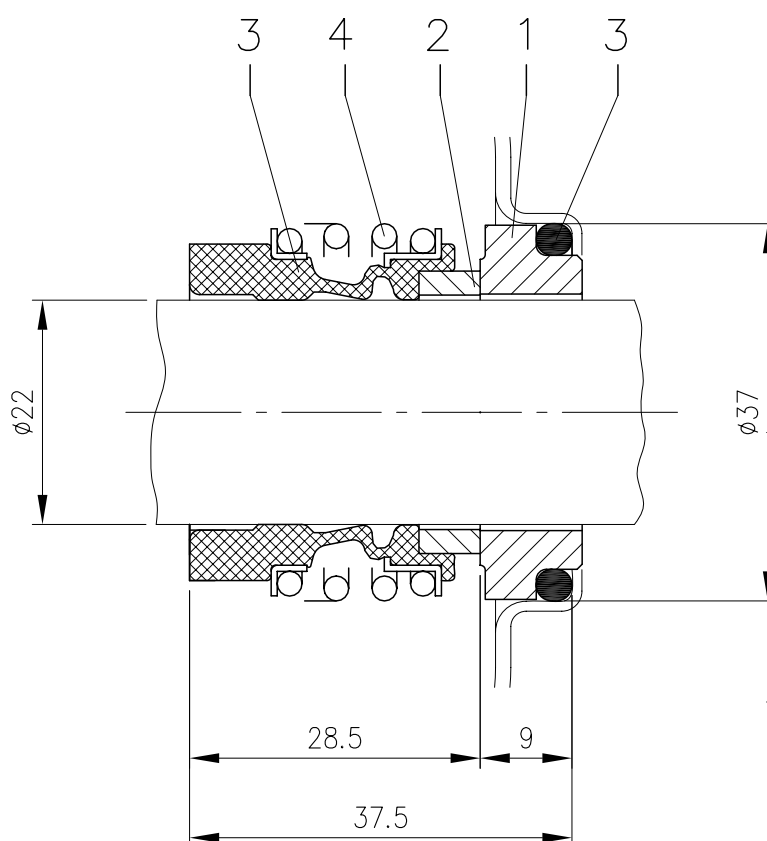


**MECHANICAL SEAL (L version ø22)**

| Version | Pump type                                                                         | Material                     |                          |             |                           |
|---------|-----------------------------------------------------------------------------------|------------------------------|--------------------------|-------------|---------------------------|
|         |                                                                                   | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| L ø22   | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |

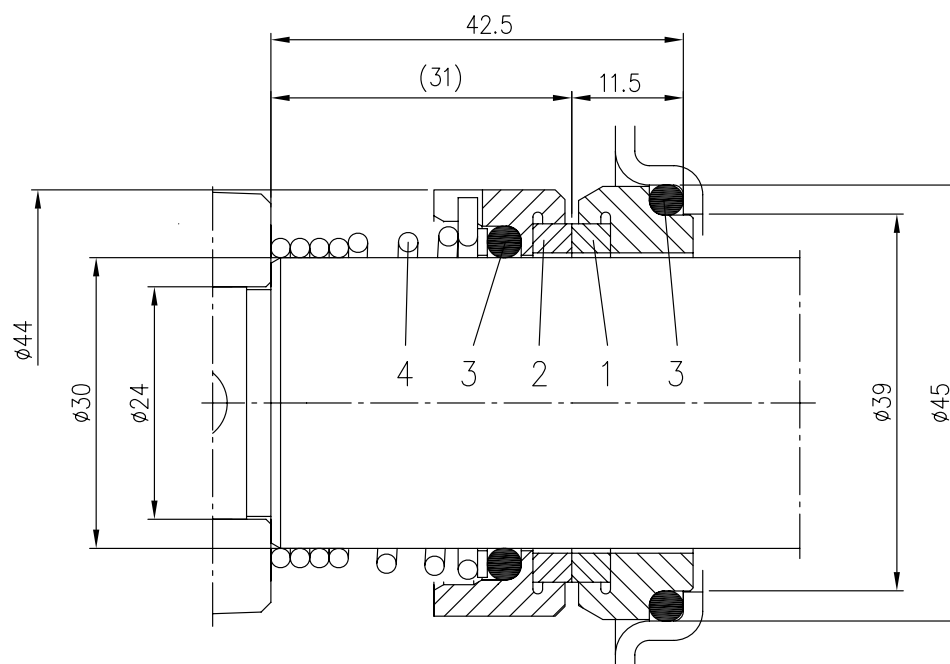
**MECHANICAL SEAL (L version ø30-35)**

| Version | Pump type                             | Dimensions |    |    |    |    |      |    |      | Material                     |                          |             |                           |
|---------|---------------------------------------|------------|----|----|----|----|------|----|------|------------------------------|--------------------------|-------------|---------------------------|
|         |                                       | d1         | d2 | d3 | d4 | d5 | L    | L1 | L2   | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| L ø30   | 65-160/15<br>65-200/250<br>80-160/200 | 30         | 24 | 44 | 39 | 45 | 42.5 | 31 | 11.5 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |
| L ø35   | 80-250                                | 35         | 29 | 49 | 44 | 50 | 42.5 | 31 | 11.5 |                              |                          |             |                           |

**MECHANICAL SEAL (HS version and Special version ø22)**

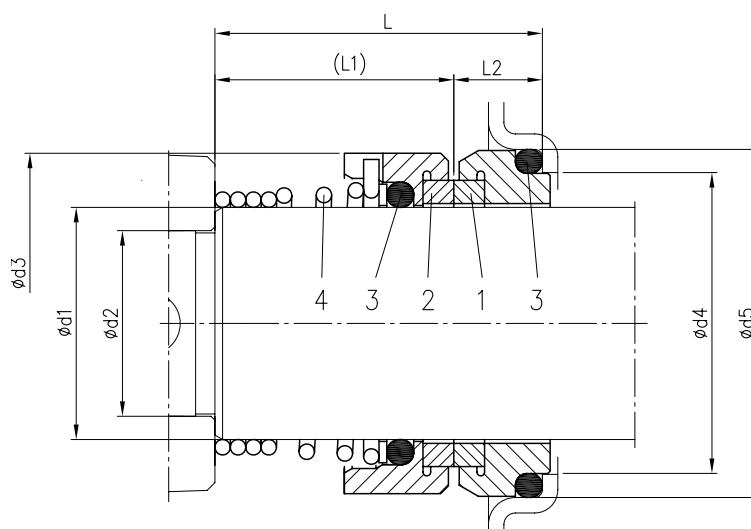
| Version | Pump type                                                                         | Material                     |                          |             |                           |
|---------|-----------------------------------------------------------------------------------|------------------------------|--------------------------|-------------|---------------------------|
|         |                                                                                   | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring    |
| HS ø22  | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316Ti) |
| Q1AEGG* | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | SiC                          | Metallised<br>Carbon     | EPDM        | EN 1.4401<br>(AISI 316)   |

\* The drawing is only indicative

**MECHANICAL SEAL (HS version ø30)**

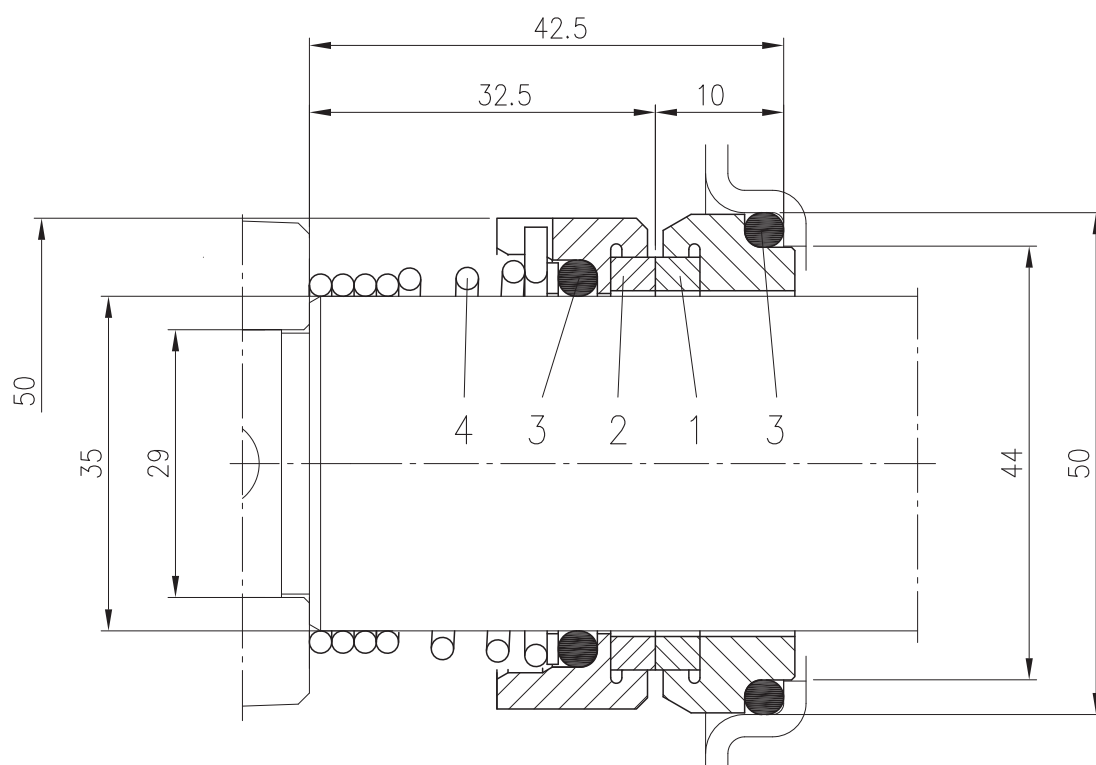
| Version | Pump type           | Material                     |                          |             |                            |
|---------|---------------------|------------------------------|--------------------------|-------------|----------------------------|
|         |                     | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring     |
| HS ø 30 | 65-160/15<br>65-200 | SiC                          | SiC                      | FPM         | EN 1.4571<br>(AISI 316 Ti) |

## MECHANICAL SEAL (HW, HSW and Special version)



| Version  | Pump type                                                                         | Dimensions |    |    |    |    |      |      |    | Material                     |                          |             |                         |
|----------|-----------------------------------------------------------------------------------|------------|----|----|----|----|------|------|----|------------------------------|--------------------------|-------------|-------------------------|
|          |                                                                                   | d1         | d2 | d3 | d4 | d5 | L    | L1   | L2 | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame<br>+ spring  |
| HW       | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Tungsten<br>Carbide          | Tungsten<br>Carbide      | FPM         | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          | 80-250                                                                            | 35         | 29 | 50 | 44 | 50 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
| HSW      | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37.5 | 27.5 | 10 | Tungsten<br>Carbide          | SiC                      | FPM         | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          | 80-250                                                                            | 35         | 29 | 50 | 44 | 50 | 42.5 | 32.5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
| U3U3EGG* | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37,5 | 27,5 | 10 | Tungsten<br>Carbide          | Tungsten<br>Carbide      | EPDM        | EN 1.4401<br>(AISI 316) |
| Q1Q1EGG* | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37,5 | 27,5 | 10 | Silicon<br>Carbide           | Silicon<br>Carbide       | EPDM        | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42,5 | 32,5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
| Q1U3EGG* | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37,5 | 27,5 | 10 | Silicon<br>Carbide           | Tungsten<br>Carbide      | EPDM        | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42,5 | 32,5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
| U3CEGG*  | 32-125/160/200<br>40-125/160/200<br>50-125/160/200<br>65-125<br>65-160/7.5-9.2-11 | 22         | 19 | 38 | 31 | 37 | 37,5 | 27,5 | 10 | Tungsten<br>Carbide          | Silicon<br>Carbide       | EPDM        | EN 1.4401<br>(AISI 316) |
|          | 65-160/15<br>65-200/250<br>80-160/200                                             | 30         | 24 | 46 | 39 | 45 | 42,5 | 32,5 | 10 |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |
|          |                                                                                   |            |    |    |    |    |      |      |    |                              |                          |             |                         |

\* The drawing is only indicative

**MECHANICAL SEAL (ES version)**

| Pump type | Material                     |                          |             |                         |
|-----------|------------------------------|--------------------------|-------------|-------------------------|
|           | 1<br>Stationary<br>seal ring | 2<br>Rotary<br>seal ring | 3<br>Rubber | 4<br>Frame +<br>Spring  |
| 80-250    | Carbon                       | SiC                      | EPDM        | 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                    | -10 °C      | 90 °C  |
| STANDARD *<br>( L VERSION ) | -10 °C      | 110 °C |

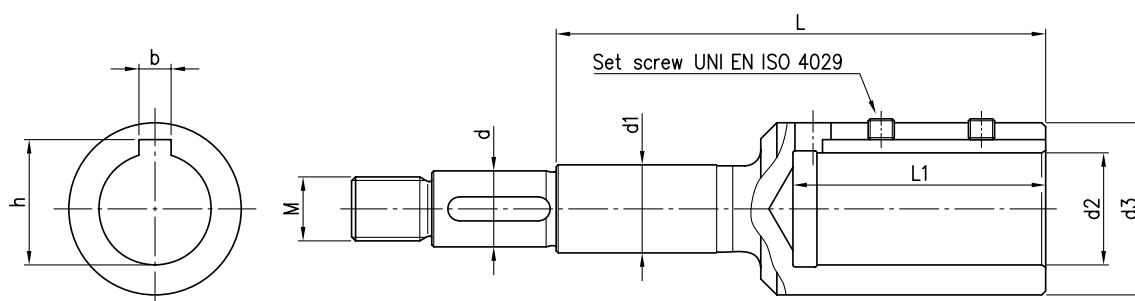
| OPTIONAL<br>mechanical seal | TEMPERATURE |        |
|-----------------------------|-------------|--------|
|                             | MIN         | MAX    |
| H *                         | -10 °C      | 110 °C |
| HS *                        | -10 °C      | 110 °C |
| HW *                        | -10 °C      | 110 °C |
| HSW *                       | -10 °C      | 110 °C |
| E                           | -20 °C      | 120 °C |
| ES                          | -20 °C      | 120 °C |

| SPECIAL<br>mechanical seal | TEMPERATURE |        |
|----------------------------|-------------|--------|
|                            | MIN         | MAX    |
| Q1AEGG                     | -10 °C      | 120 °C |
| U3U3EGG                    | -10 °C      | 120 °C |
| Q1Q1EGG                    | -10 °C      | 120 °C |
| Q1U3EGG                    | -10 °C      | 120 °C |
| U3CEGG                     | -10 °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

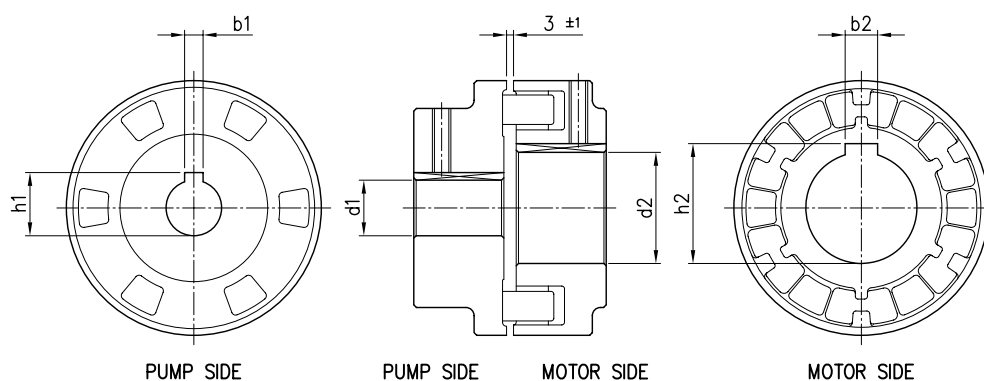


## COUPLING



| Pump type   | Power |      | Motor Size | Dimensions mm |    |    |    |         |     |     |    |      |           |
|-------------|-------|------|------------|---------------|----|----|----|---------|-----|-----|----|------|-----------|
|             | [kW]  | [HP] |            | d             | d1 | d2 | d3 | M       | L   | L1  | b  | h    | Set screw |
| 32-125/1.1  | 1.1   | 1.5  | 80         | 19            | 22 | 19 | 33 | M16x1.5 | 98  | 43  | 6  | 21.8 | M6x6      |
| 32-160/1.5  | 1.5   | 2    | 90         | 19            | 22 | 24 | 39 | M16x1.5 | 110 | 53  | 8  | 27.3 | M8x8      |
| 32-160/2.2  | 2.2   | 3    | 90         | 19            | 22 | 24 | 39 | M16x1.5 | 110 | 53  | 8  | 27.3 | M8x8      |
| 32-200/3.0  | 3     | 4    | 100        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 32-200/4.0  | 4     | 5.5  | 112        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 32-200/5.5  | 5.5   | 7.5  | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 32-200/7.5  | 7.5   | 10   | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 40-125/1.5  | 1.5   | 2    | 90         | 19            | 22 | 24 | 39 | M16x1.5 | 110 | 53  | 8  | 27.3 | M8x8      |
| 40-125/2.2  | 2.2   | 3    | 90         | 19            | 22 | 24 | 39 | M16x1.5 | 110 | 53  | 8  | 27.3 | M8x8      |
| 40-160/3.0  | 3     | 4    | 100        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 40-160/4.0  | 4     | 5.5  | 112        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 40-200/5.5  | 5.5   | 7.5  | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 40-200/7.5  | 7.5   | 10   | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 40-200/11   | 11    | 15   | 160        | 19            | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8      |
| 50-125/2.2  | 2.2   | 3    | 90         | 19            | 22 | 24 | 39 | M16x1.5 | 110 | 53  | 8  | 27.3 | M8x8      |
| 50-125/3.0  | 3     | 4    | 100        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 50-125/4.0  | 4     | 5.5  | 112        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 50-160/5.5  | 5.5   | 7.5  | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 50-160/7.5  | 7.5   | 10   | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 50-200/9.2  | 9.2   | 12.5 | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 50-200/11   | 11    | 15   | 160        | 19            | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8      |
| 50-200/15   | 15    | 20   | 160        | 22            | 22 | 42 | 63 | M18x1.5 | 209 | 114 | 12 | 45.3 | M8x8      |
| 65-125/4.0  | 4     | 5.5  | 112        | 19            | 22 | 28 | 43 | M16x1.5 | 122 | 63  | 8  | 31.3 | M8x8      |
| 65-125/5.5  | 5.5   | 7.5  | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 65-125/7.5  | 7.5   | 10   | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 65-160/7.5  | 7.5   | 10   | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 65-160/9.2  | 9.2   | 12.5 | 132        | 19            | 22 | 38 | 58 | M16x1.5 | 145 | 84  | 10 | 41.3 | M8x8      |
| 65-160/11   | 11    | 15   | 160        | 19            | 22 | 42 | 63 | M16x1.5 | 178 | 114 | 12 | 45.3 | M8x8      |
| 65-160/15   | 15    | 20   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 65-200/15   | 15    | 20   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 65-200/18.5 | 18.5  | 25   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 65-200/22   | 22    | 30   | 180        | 24            | 30 | 48 | 72 | M20x1.5 | 184 | 114 | 14 | 51.8 | M10x10    |
| 65-250/30   | 30    | 40   | 200        | 24            | 30 | 55 | 85 | M20x1.5 | 184 | 114 | 16 | 59.3 | M12x12    |
| 65-250/37   | 37    | 50   | 200        | 24            | 30 | 55 | 85 | M20x1.5 | 184 | 114 | 16 | 59.3 | M12x12    |
| 80-160/11   | 11    | 15   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 80-160/15R  | 15    | 20   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 80-160/15   | 15    | 20   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 80-160/18.5 | 18.5  | 25   | 160        | 24            | 30 | 42 | 63 | M20x1.5 | 184 | 114 | 12 | 45.3 | M8x8      |
| 80-200/22   | 22    | 30   | 180        | 24            | 30 | 48 | 72 | M20x1.5 | 184 | 114 | 14 | 51.8 | M10x10    |
| 80-200/30   | 30    | 40   | 200        | 24            | 30 | 55 | 85 | M20x1.5 | 184 | 114 | 16 | 59.3 | M12x12    |
| 80-200/37   | 37    | 50   | 200        | 24            | 30 | 55 | 85 | M20x1.5 | 184 | 114 | 16 | 59.3 | M12x12    |
| 80-250/37   | 37    | 50   | 200        | 29            | 35 | 55 | 85 | M24x2   | 206 | 114 | 16 | 59.3 | M12x12    |
| 80-250/45   | 45    | 60   | 225        | 29            | 35 | 55 | 85 | M24x2   | 206 | 114 | 16 | 59.3 | M12x12    |
| 80-250/55   | 55    | 75   | 250        | 29            | 35 | 60 | 89 | M24x2   | 218 | 144 | 18 | 64.4 | M12x12    |

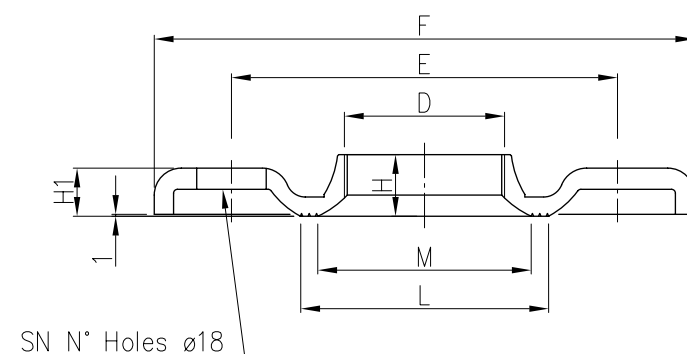
## FLEXIBLE COUPLING



| Pump type   | Power |      | Motor Size | Dimensions mm |    |      |    |    |      |
|-------------|-------|------|------------|---------------|----|------|----|----|------|
|             | [KW]  | [HP] |            | d1            | b1 | h1   | d2 | b2 | h2   |
| 32-125/1.1  | 1.1   | 1.5  | 80         | 24            | 8  | 27.3 | 19 | 6  | 21.8 |
| 32-160/1.5  | 1.5   | 2    | 90         | 24            | 8  | 27.3 | 24 | 8  | 27.3 |
| 32-160/2.2  | 2.2   | 3    | 90         | 24            | 8  | 27.3 | 24 | 8  | 27.3 |
| 32-200/3.0  | 3     | 4    | 100        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 32-200/4.0  | 4     | 5.5  | 112        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 32-200/5.5  | 5.5   | 7.5  | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 32-200/7.5  | 7.5   | 10   | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-125/1.5  | 1.5   | 2    | 90         | 24            | 8  | 27.3 | 24 | 8  | 27.3 |
| 40-125/2.2  | 2.2   | 3    | 90         | 24            | 8  | 27.3 | 24 | 8  | 27.3 |
| 40-160/3.0  | 3     | 4    | 100        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 40-160/4.0  | 4     | 5.5  | 112        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 40-200/5.5  | 5.5   | 7.5  | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-200/7.5  | 7.5   | 10   | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 40-200/11   | 11    | 15   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 50-125/2.2  | 2.2   | 3    | 90         | 24            | 8  | 27.3 | 24 | 8  | 27.3 |
| 50-125/3.0  | 3     | 4    | 100        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 50-125/4.0  | 4     | 5.5  | 112        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 50-160/5.5  | 5.5   | 7.5  | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 50-160/7.5  | 7.5   | 10   | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 50-200/9.2  | 9.2   | 12.5 | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 50-200/11   | 11    | 15   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 50-200/15   | 15    | 20   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-125/4.0  | 4     | 5.5  | 112        | 24            | 8  | 27.3 | 28 | 8  | 31.3 |
| 65-125/5.5  | 5.5   | 7.5  | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-125/7.5  | 7.5   | 10   | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-160/7.5  | 7.5   | 10   | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-160/9.2  | 9.2   | 12.5 | 132        | 24            | 8  | 27.3 | 38 | 10 | 41.3 |
| 65-160/11   | 11    | 15   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-160/15   | 15    | 20   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/15   | 15    | 20   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/18.5 | 18.5  | 25   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 65-200/22   | 22    | 30   | 180        | 24            | 8  | 27.3 | 48 | 14 | 51.8 |
| 65-250/30   | 30    | 40   | 200        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 65-250/37   | 37    | 50   | 200        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 80-160/11   | 11    | 15   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 80-160/15R  | 15    | 20   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 80-160/15   | 15    | 20   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 80-160/18.5 | 18.5  | 25   | 160        | 24            | 8  | 27.3 | 42 | 12 | 45.3 |
| 80-200/22   | 22    | 30   | 180        | 32            | 10 | 35.3 | 48 | 14 | 51.8 |
| 80-200/30   | 30    | 40   | 200        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 80-200/37   | 37    | 50   | 200        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 80-250/37   | 37    | 50   | 200        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 80-250/45   | 45    | 60   | 225        | 32            | 10 | 35.3 | 55 | 16 | 59.3 |
| 80-250/55   | 55    | 75   | 250        | 32            | 10 | 35.3 | 60 | 18 | 64.4 |

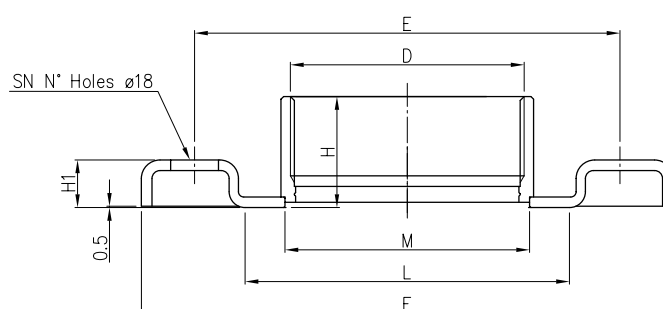
## FITTINGS

## COUNTERFLANGE ZINCKED STEEL

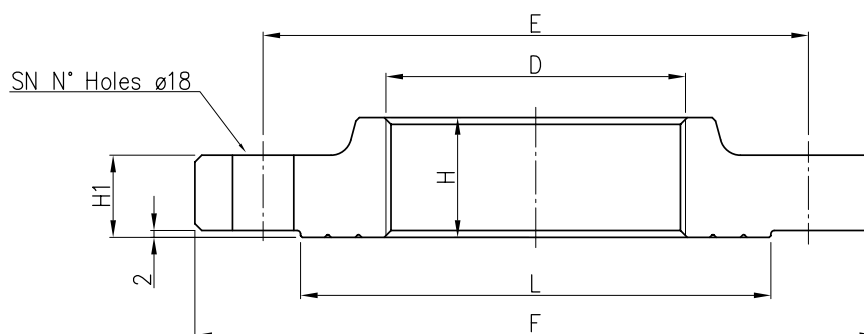


| Counterflange |         |     |     |      |      |       |     |    | Screw      |                                              |
|---------------|---------|-----|-----|------|------|-------|-----|----|------------|----------------------------------------------|
| DN            | D       | E   | F   | H    | H1   | L     | M   | SN | DIMENSIONS | MATERIAL                                     |
| 32            | G 1 1/4 | 100 | 140 | 15   | 11.5 | 67    | 50  | 4  | M16x55     | Gv. Steel 8.8<br>strenght class<br>ISO 898-1 |
| 40            | G 1 1/2 | 110 | 150 | 17.5 | 11.5 | 72    | 58  | 4  |            |                                              |
| 50            | G2      | 125 | 165 | 19   | 15   | 89    | 70  | 4  |            |                                              |
| 65            | G 2 1/2 | 145 | 185 | 23   | 14   | 104   | 88  | 4  |            |                                              |
| 80            | G3      | 160 | 200 | 24   | 16   | 117.5 | 100 | 8  | M16x60     |                                              |
| 100           | G4      | 180 | 220 | 29   | 16   | 144   | 125 | 8  |            |                                              |

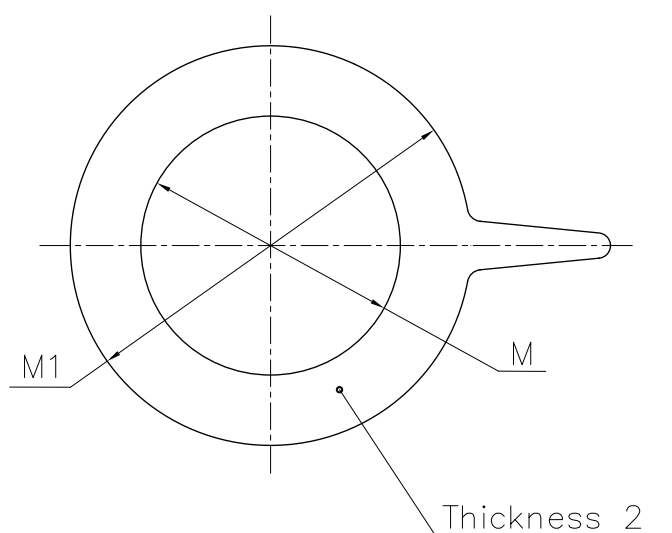
## COUNTERFLANGE EN 1.4404 (AISI 316L)



| Counterflange |         |     |     |      |    |     |      |    | Screw      |                           |
|---------------|---------|-----|-----|------|----|-----|------|----|------------|---------------------------|
| DN            | D       | E   | F   | H    | H1 | L   | M    | SN | DIMENSIONS | MATERIAL                  |
| 32            | G 1 1/4 | 100 | 140 | 29.5 | 14 | 66  | 44   | 4  | M16x55     | A2-70 class<br>ISO 3506-1 |
| 40            | G 1 1/2 | 110 | 150 | 29.5 | 14 | 71  | 50.5 |    |            |                           |
| 50            | G 2     | 125 | 165 | 34   | 16 | 83  | 63   |    |            |                           |
| 65            | G 2 1/2 | 145 | 185 | 40   | 16 | 103 | 80   |    |            |                           |
| 80            | G3      | 160 | 200 | 42   | 18 | 122 | 92   | 8  | M16x60     |                           |

**COUNTERFLANGE EN 1.4404 (AISI 316L) DN100**

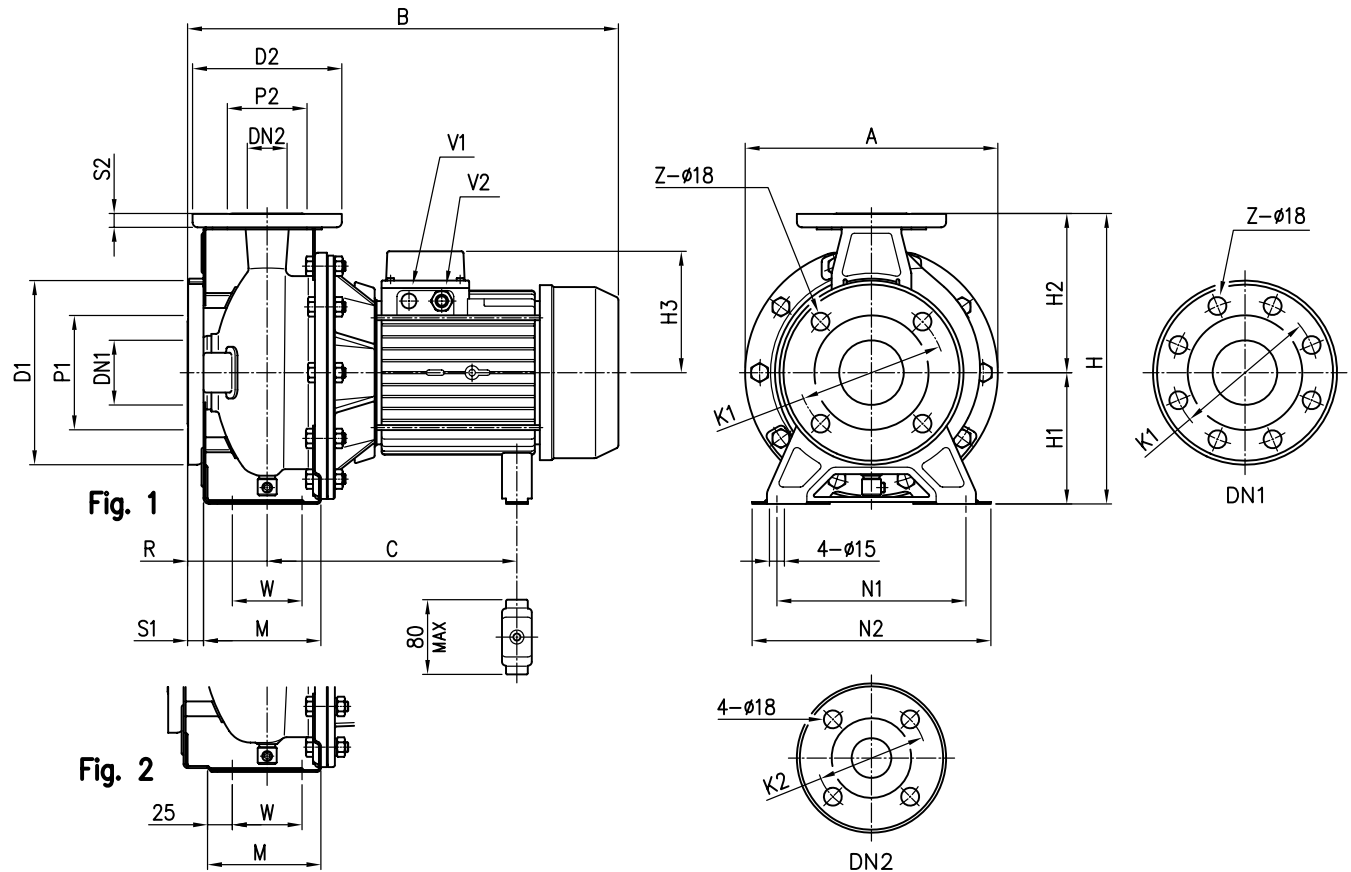
| DN  | D  | Counterflange |     |    |    |     |    | Screw      |                           |
|-----|----|---------------|-----|----|----|-----|----|------------|---------------------------|
|     |    | E             | F   | H  | H1 | L   | SN | DIMENSIONS | MATERIAL                  |
| 100 | G4 | 180           | 220 | 35 | 20 | 150 | 8  | M16x70     | A2-70 class<br>ISO 3506-1 |

**GASKET**

| DN  | M   | M1  |
|-----|-----|-----|
| 32  | 38  | 82  |
| 40  | 50  | 93  |
| 50  | 60  | 107 |
| 65  | 80  | 125 |
| 80  | 90  | 140 |
| 100 | 115 | 160 |

Material : EPDM for standard version  
FPM for L version

## PUMP 3(.)M 32, 40, 50, 65-125/160



| Model          | Dimensions (mm) |      |      |      |    |     |     |       |      |      |      |    |      |     |     |     |     |      |      |    |     |     |     |     |     |     |         | Weight [kg] |         |         |         |      |      |
|----------------|-----------------|------|------|------|----|-----|-----|-------|------|------|------|----|------|-----|-----|-----|-----|------|------|----|-----|-----|-----|-----|-----|-----|---------|-------------|---------|---------|---------|------|------|
|                | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | S1 | [1] | [2] | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | Fig. | H   | H1  | H2  | H3  | [1-] | [3-] | R  | W   | M   | N1  | N2  | A   | B   | C       |             |         | V1      | V2      |      |      |
| 32-125/1.1 (M) | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 252 | 112 | 140 | 141 | 119  | 80   | 70 | 114 | 140 | 190 | 213 | 433 | 431 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 21.5 | 24.1 |
| 32-160/1.5 (M) | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 292 | 132 | 160 | 141 | 119  | 80   | 70 | 118 | 190 | 240 | 254 | 433 | 431 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 23.5 | 27   |
| 32-160/2.2 (M) | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 292 | 132 | 160 | 141 | 119  | 80   | 70 | 118 | 190 | 240 | 254 | 446 | 431 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 29   | 28   |
| 32-200/3.0     | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | -   | 124  | 80   | 70 | 119 | 190 | 240 | 296 | -   | 471 | -       | 244+255     | -       | PG 13.5 | -       | -    | 35.1 |
| 32-200/4.0     | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | -   | 141  | 80   | 70 | 119 | 190 | 240 | 296 | -   | 494 | -       | 253         | -       | PG 16   | -       | -    | 38.2 |
| 32-200/5.5     | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | -   | 150  | 80   | 70 | 119 | 190 | 240 | 296 | -   | 519 | -       | 275         | M20x1.5 | PG 16   | -       | -    | 52.2 |
| 32-200/7.5     | 50              | 95   | 125  | 165  | 16 | 4   | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | -   | 150  | 80   | 70 | 119 | 190 | 240 | 296 | -   | 539 | -       | 275         | -       | PG 16   | -       | -    | 60.1 |
| 40-125/1.5 (M) | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 1    | 252 | 112 | 140 | 141 | 119  | 80   | 70 | 114 | 160 | 210 | 213 | 433 | 431 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 22   | 24.6 |
| 40-125/2.2 (M) | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 1    | 252 | 112 | 140 | 141 | 119  | 80   | 70 | 114 | 160 | 210 | 213 | 446 | 431 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 25.5 | 26.1 |
| 40-160/3.0     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 1    | 292 | 132 | 160 | -   | 124  | 80   | 70 | 118 | 190 | 240 | 254 | -   | 471 | -       | 244+255     | -       | PG 13.5 | -       | -    | 26.6 |
| 40-160/4.0     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 1    | 292 | 132 | 160 | -   | 141  | 80   | 70 | 118 | 190 | 240 | 254 | -   | 494 | -       | 253         | -       | PG 16   | -       | -    | 40.8 |
| 40-200/5.5     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 539 | -       | 275         | M20x1.5 | PG 16   | -       | -    | 52.5 |
| 40-200/7.5     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 559 | -       | 275         | -       | PG 16   | -       | -    | 59.3 |
| 40-200/11      | 65              | 115  | 145  | 185  | 16 | 4   | -   | 40    | 80   | 110  | 150  | 14 | 2    | 340 | 160 | 180 | -   | 178  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 595 | -       | 329         | -       | PG 21   | -       | -    | 69.6 |
| 50-125/2.2 (M) | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 292 | 132 | 160 | 141 | 119  | 100  | 70 | 114 | 190 | 240 | 254 | 465 | 451 | 219+230 | 232         | -       | PG 13.5 | M20x1.5 | 30.5 | 32   |
| 50-125/3.0     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 292 | 132 | 160 | -   | 124  | 100  | 70 | 114 | 190 | 240 | 254 | -   | 491 | -       | 244+255     | -       | PG 13.5 | -       | -    | 30.9 |
| 50-125/4.0     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 292 | 132 | 160 | -   | 141  | 100  | 70 | 114 | 190 | 240 | 254 | -   | 514 | -       | 253         | -       | PG 16   | -       | -    | 40.9 |
| 50-160/5.5     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 539 | -       | 275         | M20x1.5 | PG 16   | -       | -    | 46.5 |
| 50-160/7.5     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 559 | -       | 275         | -       | PG 16   | -       | -    | 58.6 |
| 50-200/9.2     | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 360 | 160 | 200 | -   | 178  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 595 | -       | 329         | -       | PG 21   | -       | -    | 63.9 |
| 50-200/11      | 65              | 115  | 145  | 185  | 16 | 4   | -   | 50    | 95   | 125  | 165  | 16 | 2    | 360 | 160 | 200 | -   | 178  | 100  | 70 | 115 | 212 | 265 | 296 | -   | 595 | -       | 329         | -       | PG 21   | -       | -    | 69.6 |
| 65-125/4       | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 340 | 160 | 180 | -   | 141  | 100  | 95 | 140 | 212 | 280 | 254 | -   | 514 | -       | 253         | -       | PG 16   | -       | -    | 37.7 |
| 65-125/5.5     | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 95 | 140 | 212 | 280 | 254 | -   | 539 | -       | 275         | M20x1.5 | PG 16   | -       | -    | 48.7 |
| 65-125/7.5     | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 340 | 160 | 180 | -   | 150  | 100  | 95 | 140 | 212 | 280 | 254 | -   | 559 | -       | 275         | -       | PG 16   | -       | -    | 52.1 |
| 65-160/7.5     | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 360 | 160 | 200 | -   | 150  | 100  | 95 | 140 | 212 | 280 | 296 | -   | 559 | -       | 275         | -       | PG 16   | -       | -    | 55.3 |
| 65-160/9.2     | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 360 | 160 | 200 | -   | 178  | 100  | 95 | 140 | 212 | 280 | 296 | -   | 595 | -       | 329         | -       | PG 21   | -       | -    | 61   |
| 65-160/11      | 80              | 134  | 160  | 200  | 18 | 8   | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 360 | 160 | 200 | -   | 178  | 100  | 95 | 140 | 212 | 280 | 296 | -   | 595 | -       | 329         | -       | PG 21   | -       | -    | 67.4 |

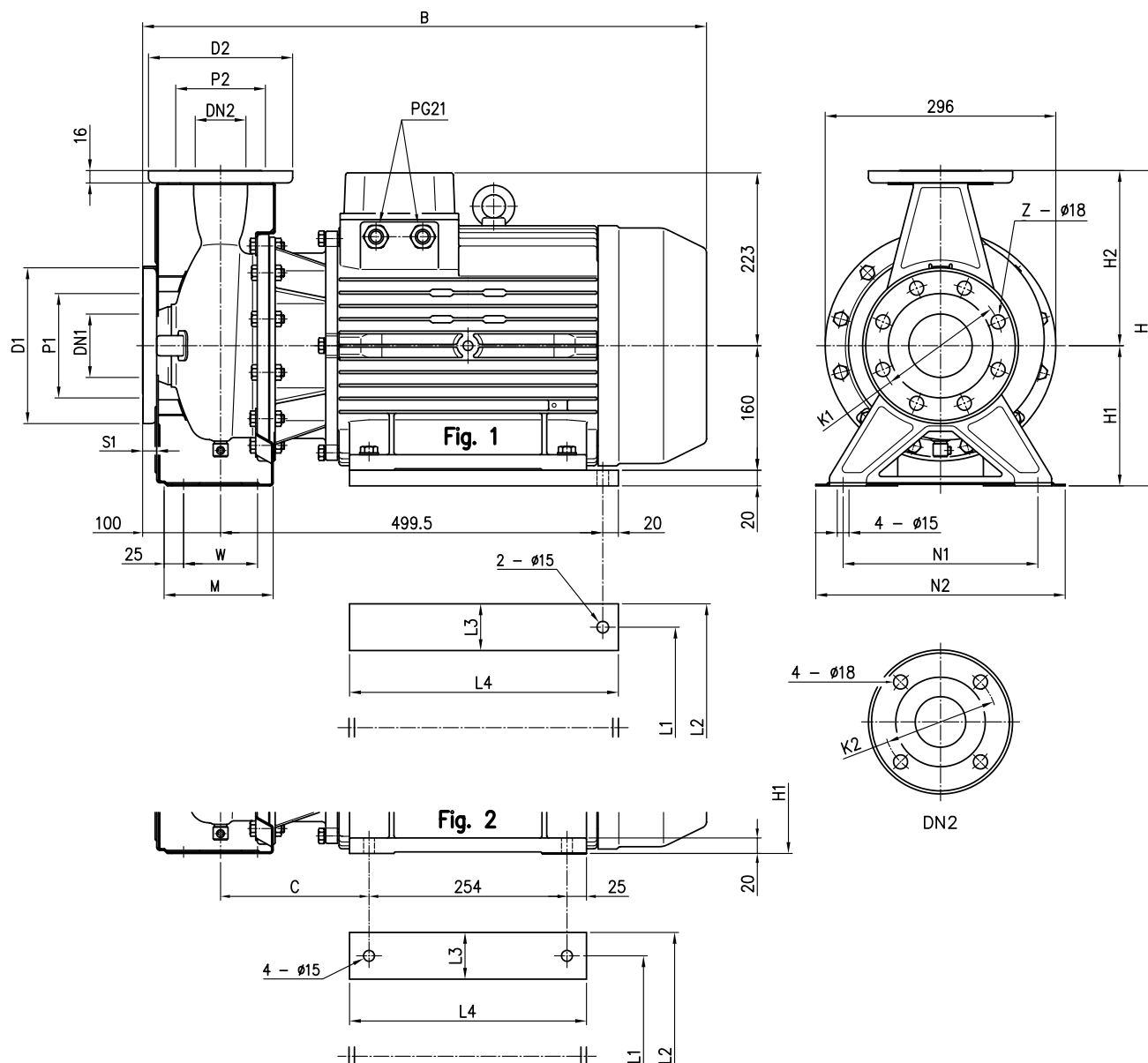
[1] Standard

[2] On request

[1~] Only for single phase

[3~] Only for three phase

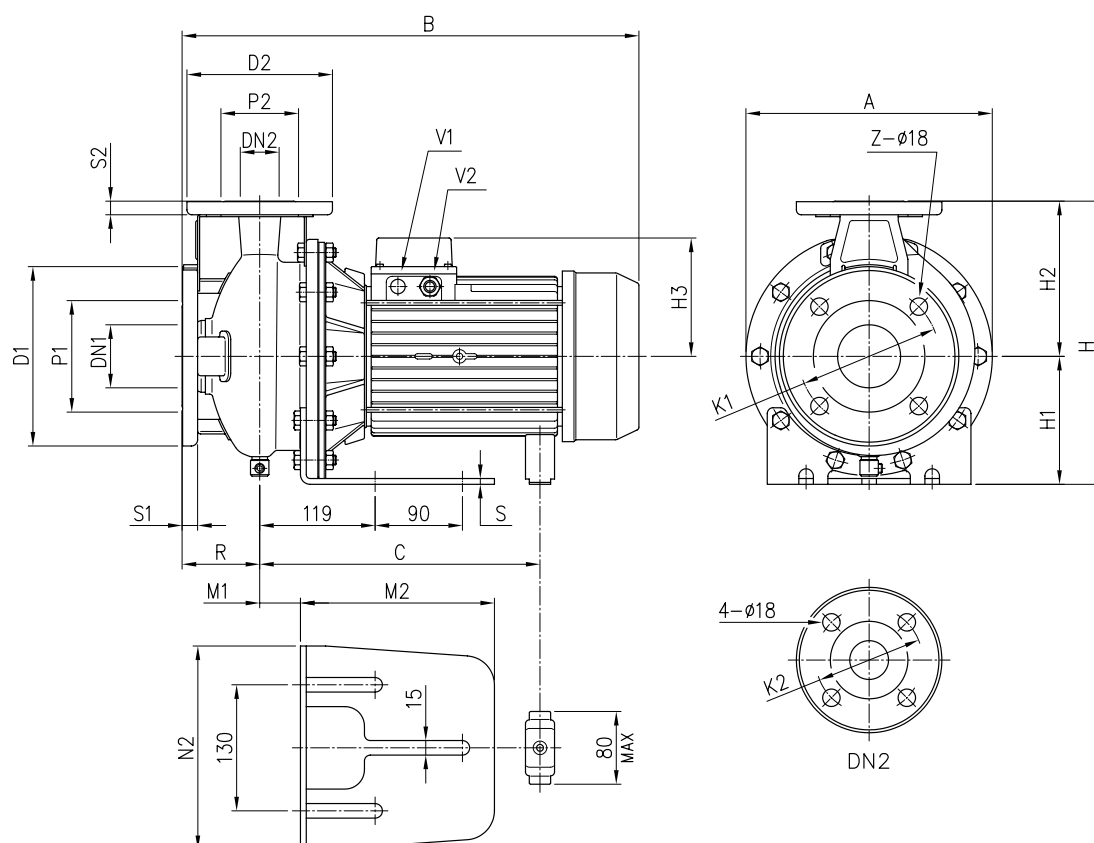
## PUMP 3(.)M 50-200, 65-160/15, 65-200



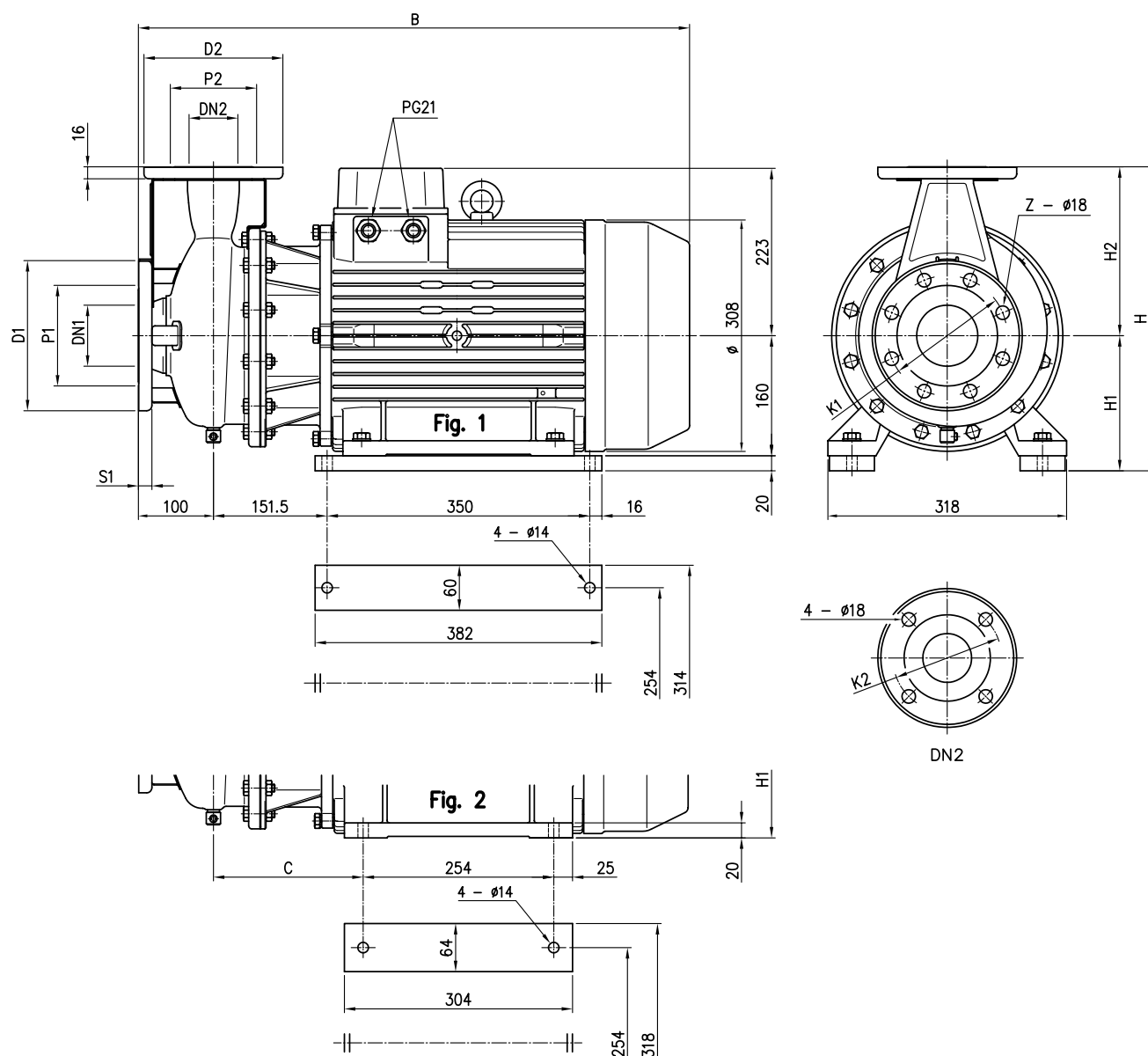
| Model       | Dimensions [mm] |         |         |         |    |   |   |          |         |         |         |      |     |     |     |    |     |     |     |     |       |     |     |    | Weight<br>[ kgf ] |       |
|-------------|-----------------|---------|---------|---------|----|---|---|----------|---------|---------|---------|------|-----|-----|-----|----|-----|-----|-----|-----|-------|-----|-----|----|-------------------|-------|
|             | Ø<br>DN1        | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Z |   | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | Fig. | H   | H1  | H2  | W  | M   | N1  | N2  | B   | C     | L1  | L2  | L3 |                   | L4    |
| 50-200/15   | 65              | 115     | 145     | 185     | 16 | 4 | - | 50       | 95      | 125     | 165     | 2    | 360 | 160 | 200 | 70 | 115 | 212 | 265 | 723 | 190.5 | 254 | 318 | 65 | 304               | 105.1 |
| 65-160/15   | 80              | 134     | 160     | 200     | 18 | 8 | 4 | 65       | 115     | 145     | 185     | 2    | 360 | 160 | 200 | 95 | 140 | 212 | 280 | 732 | 199.5 | 254 | 318 | 65 | 304               | 107.1 |
| 65-200/15   | 80              | 134     | 160     | 200     | 18 | 8 | 4 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 95 | 140 | 250 | 320 | 732 | -     | 254 | 314 | 60 | 345               | 110.1 |
| 65-200/18.5 | 80              | 134     | 160     | 200     | 18 | 8 | 4 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 95 | 140 | 250 | 320 | 732 | -     | 254 | 314 | 60 | 345               | 125.3 |
| 65-200/22   | 80              | 134     | 160     | 200     | 18 | 8 | 4 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 95 | 140 | 250 | 320 | 732 | -     | 254 | 314 | 60 | 345               | 136.1 |

[1] Standard [2] On request

## PUMP 3LMZ 32, 40, 50-125/160/200/9.2/11, 65-125/160/7.5/9.2/11

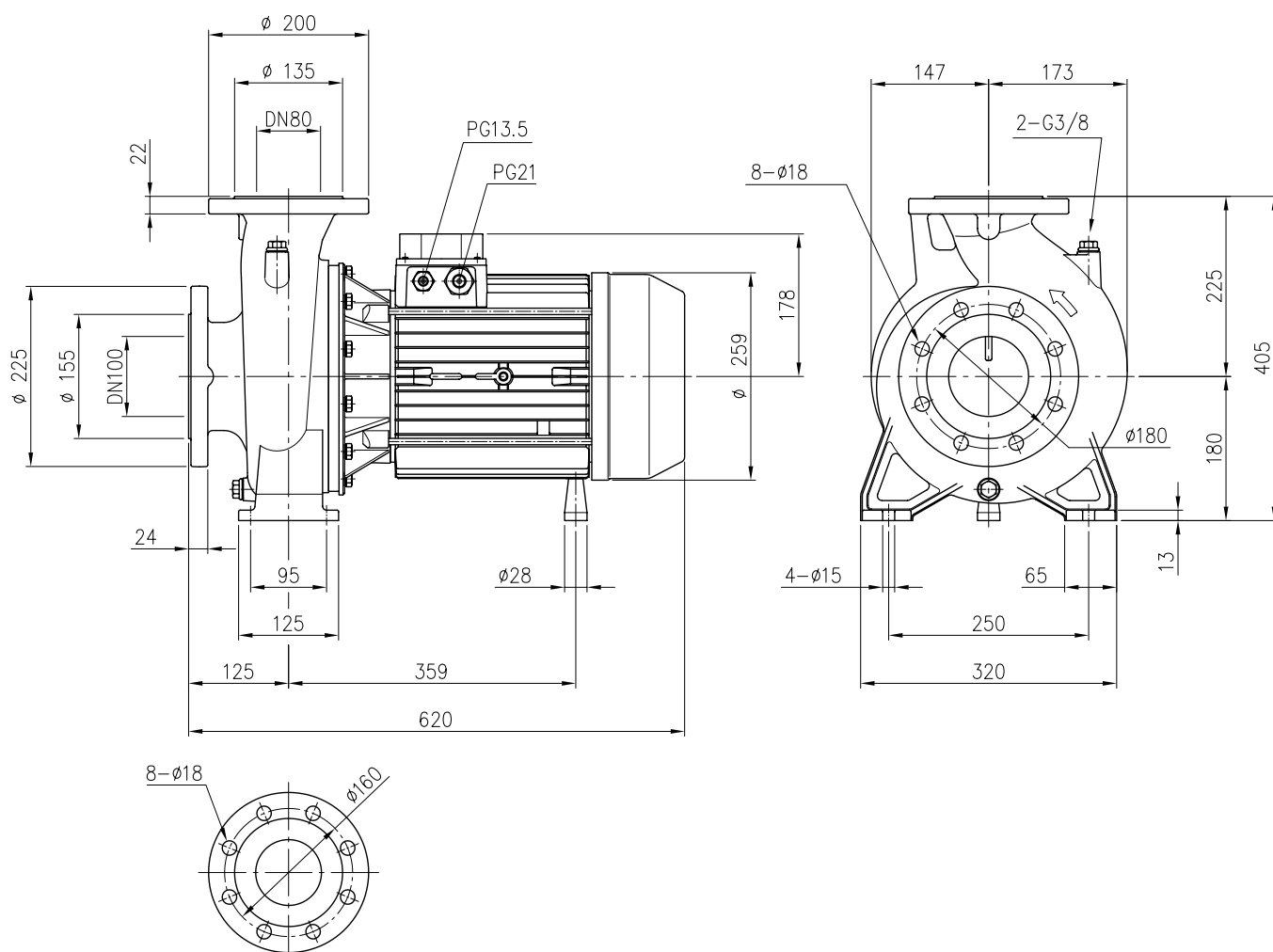


| Model      | Dimensions (mm) |      |      |      |    |   |       |      |      |      |    |     |     |     |     |     |      |     |   |     | Weight<br>Kg |
|------------|-----------------|------|------|------|----|---|-------|------|------|------|----|-----|-----|-----|-----|-----|------|-----|---|-----|--------------|
|            | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | S1 | Z | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H   | H1  | H2  | H3  | R   | M1   | M2  | S | N2  |              |
| 32-125/1.1 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 252 | 112 | 140 | 119 | 80  | 32.5 | 212 | 6 | 190 | 24.1         |
| 32-160/1.5 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 292 | 132 | 160 | 119 | 80  | 42   | 200 | 6 | 210 | 27           |
| 32-160/2.2 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 292 | 132 | 160 | 119 | 80  | 42   | 200 | 6 | 210 | 28           |
| 32-200/3.0 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 124 | 80  | 39   | 205 | 8 | 220 | 35.1         |
| 32-200/4.0 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 141 | 80  | 39   | 205 | 8 | 220 | 38.2         |
| 32-200/5.5 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 150 | 80  | 39   | 205 | 8 | 220 | 52.2         |
| 32-200/7.5 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 150 | 80  | 39   | 205 | 8 | 220 | 60.1         |
| 40-125/1.5 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 252 | 112 | 140 | 119 | 80  | 32.5 | 212 | 6 | 190 | 24.6         |
| 40-125/2.2 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 252 | 112 | 140 | 119 | 80  | 32.5 | 212 | 6 | 190 | 26.1         |
| 40-160/3.0 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 292 | 132 | 160 | 124 | 80  | 42   | 200 | 6 | 210 | 26.6         |
| 40-160/4.0 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 292 | 132 | 160 | 141 | 80  | 42   | 200 | 6 | 210 | 40.8         |
| 40-200/5.5 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 340 | 160 | 180 | 150 | 100 | 39   | 205 | 8 | 220 | 52.5         |
| 40-200/7.5 | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 340 | 160 | 180 | 150 | 100 | 39   | 205 | 8 | 220 | 59.3         |
| 40-200/11  | 65              | 115  | 145  | 185  | 16 | 4 | 40    | 80   | 110  | 150  | 14 | 340 | 160 | 180 | 178 | 100 | 39   | 205 | 8 | 220 | 69.6         |
| 50-125/2.2 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 292 | 132 | 160 | 119 | 100 | 42   | 200 | 6 | 210 | 32           |
| 50-125/3.0 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 292 | 132 | 160 | 124 | 100 | 42   | 200 | 6 | 210 | 30.9         |
| 50-125/4.0 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 292 | 132 | 160 | 141 | 100 | 42   | 200 | 6 | 210 | 40.9         |
| 50-160/5.5 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 340 | 160 | 180 | 150 | 100 | 39   | 205 | 8 | 220 | 46.5         |
| 50-160/7.5 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 340 | 160 | 180 | 150 | 100 | 39   | 205 | 8 | 220 | 58.6         |
| 50-200/9.2 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 360 | 160 | 200 | 178 | 100 | 39   | 205 | 8 | 220 | 63.9         |
| 50-200/11  | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 360 | 160 | 200 | 178 | 100 | 39   | 205 | 8 | 220 | 69.6         |
| 65-125/4   | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 340 | 160 | 180 | 141 | 100 | 42   | 200 | 6 | 210 | 37.7         |
| 65-125/5.5 | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 340 | 160 | 180 | 150 | 100 | 42   | 200 | 6 | 210 | 48.7         |
| 65-125/7.5 | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 340 | 160 | 180 | 150 | 100 | 42   | 200 | 6 | 210 | 52.1         |
| 65-160/7.5 | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 360 | 160 | 200 | 150 | 100 | 39   | 205 | 8 | 220 | 55.3         |
| 65-160/9.2 | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 360 | 160 | 200 | 178 | 100 | 39   | 205 | 8 | 220 | 61           |
| 65-160/11  | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 360 | 160 | 200 | 178 | 100 | 39   | 205 | 8 | 220 | 67.4         |

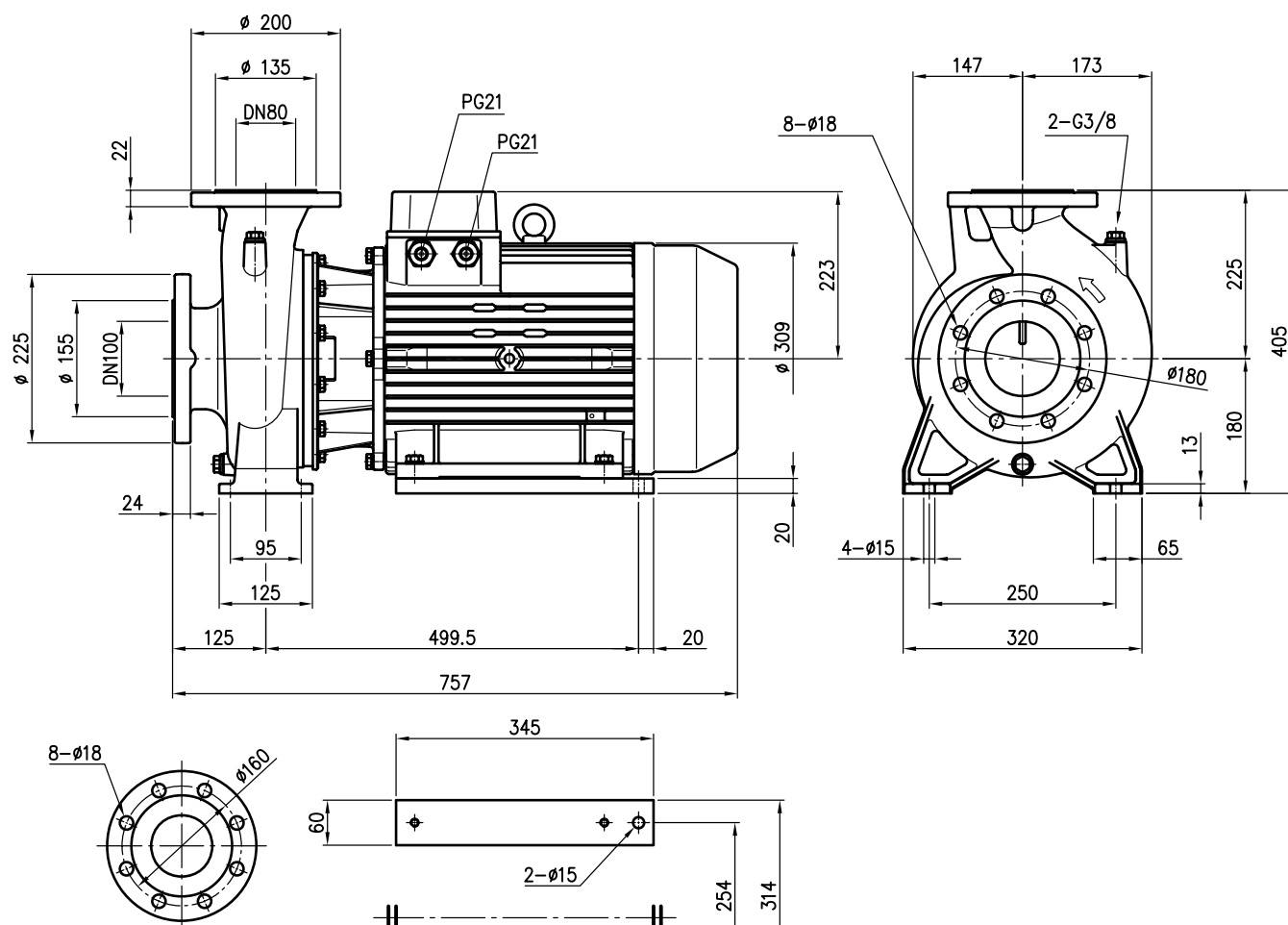
**PUMP 3LMZ 50-200/15, 65-160/15, 65-200**

| Model       | Dimensions [mm] |         |         |         |    |   |          |         |         |         |      |     |     |     |     |       | Weight<br>[ kgf ] |
|-------------|-----------------|---------|---------|---------|----|---|----------|---------|---------|---------|------|-----|-----|-----|-----|-------|-------------------|
|             | Ø<br>DN1        | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Z | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | Fig. | H   | H1  | H2  | B   | C     |                   |
| 50-200/15   | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 2    | 360 | 160 | 200 | 723 | 190.5 | 105.1             |
| 65-160/15   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 2    | 360 | 160 | 200 | 732 | 199.5 | 107.1             |
| 65-200/15   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 732 | -     | 110.1             |
| 65-200/18.5 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 732 | -     | 125.3             |
| 65-200/22   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 1    | 405 | 180 | 225 | 732 | -     | 136.1             |



**PUMP 3LM 80-160/11**

Weight: 100 kgf

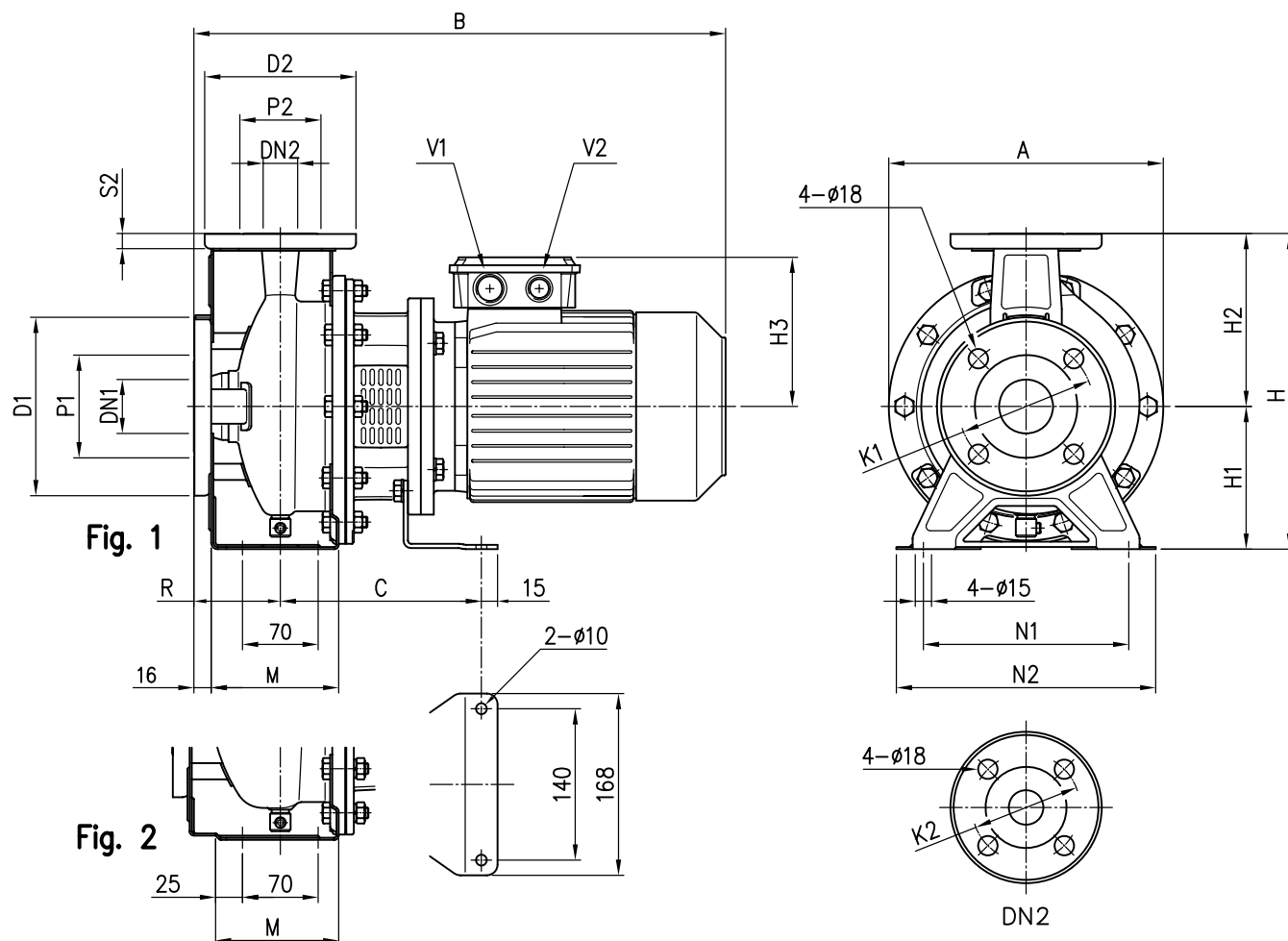
**PUMP 3LM 80-160/15R/15/18.5**

Weight:

80-160/15R : 130.1 kgf

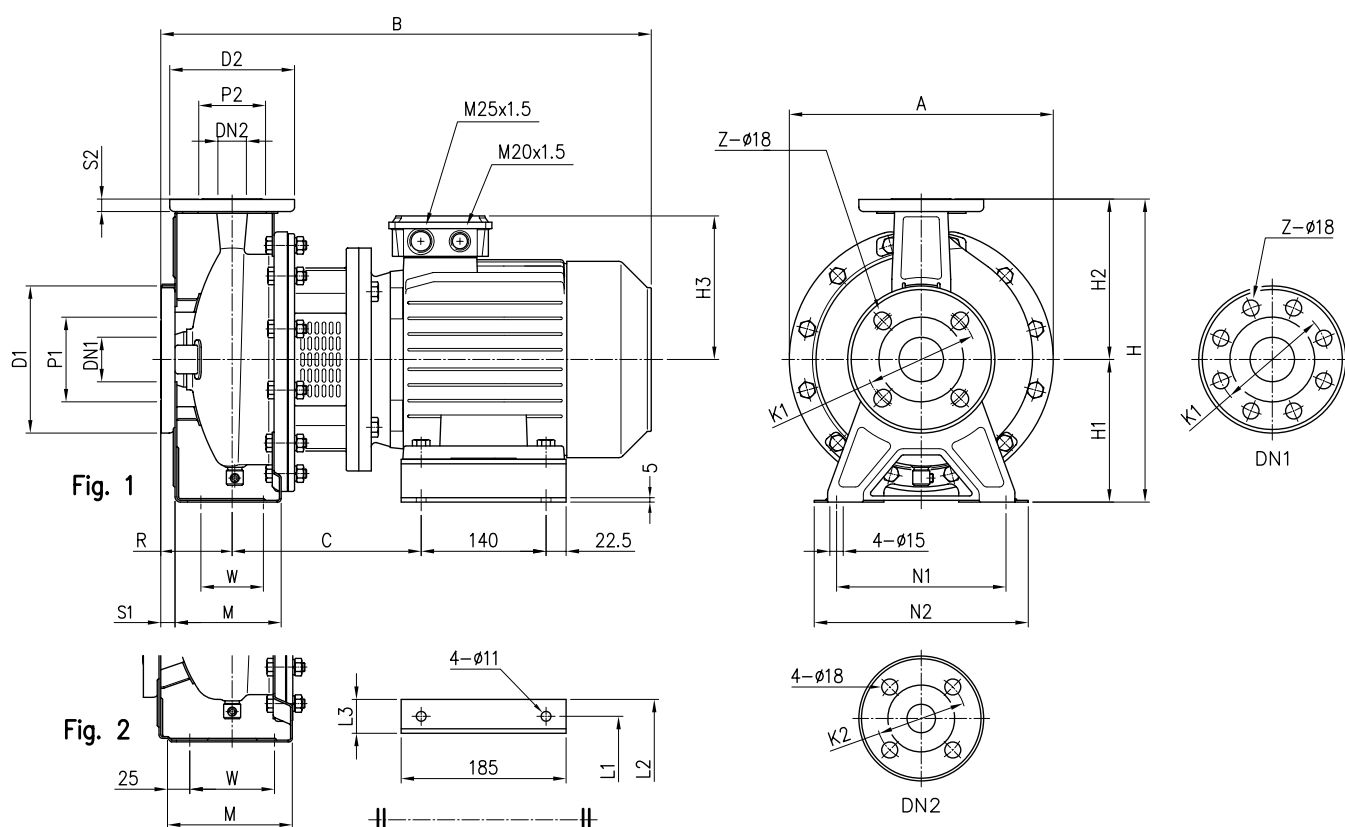
80-160/15 : 131.1 kgf

80-160/18.5 : 145.3 kgf

**PUMP 3(.)S 32, 40, 50**

| Model      | Dimensions [mm] |      |      |      |       |      |      |      |    |      |     |     |     |     |     |     |     |     |     |     |     |         | Weight  |      |
|------------|-----------------|------|------|------|-------|------|------|------|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|------|
|            | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | Fig. | H   | H1  | H2  | H3  | R   | M   | N1  | N2  | A   | B   | C   | V1      |         | V2   |
|            | Kgf             |      |      |      |       |      |      |      |    |      |     |     |     |     |     |     |     |     |     |     |     |         |         |      |
| 32-125/1.1 | 50              | 95   | 125  | 165  | 32    | 75   | 100  | 140  | 14 | 1    | 252 | 112 | 140 | 139 | 80  | 114 | 140 | 190 | 213 | 430 | 174 | M25x1.5 | M20x1.5 | 24.7 |
| 32-160/1.5 | 50              | 95   | 125  | 165  | 32    | 75   | 100  | 140  | 14 | 1    | 292 | 132 | 160 | 148 | 80  | 118 | 190 | 240 | 254 | 477 | 186 | M25x1.5 | M20x1.5 | 29.8 |
| 32-160/2.2 | 50              | 95   | 125  | 165  | 32    | 75   | 100  | 140  | 14 | 1    | 292 | 132 | 160 | 148 | 80  | 118 | 190 | 240 | 254 | 477 | 186 | M25x1.5 | M20x1.5 | 32.4 |
| 40-125/1.5 | 65              | 115  | 145  | 185  | 40    | 80   | 110  | 150  | 14 | 1    | 252 | 112 | 140 | 148 | 80  | 114 | 160 | 210 | 213 | 477 | 186 | M25x1.5 | M20x1.5 | 26.5 |
| 40-125/2.2 | 65              | 115  | 145  | 185  | 40    | 80   | 110  | 150  | 14 | 1    | 252 | 112 | 140 | 148 | 80  | 114 | 160 | 210 | 213 | 477 | 186 | M25x1.5 | M20x1.5 | 29.6 |
| 50-125/2.2 | 65              | 115  | 145  | 185  | 50    | 95   | 125  | 165  | 16 | 2    | 292 | 132 | 160 | 148 | 100 | 114 | 190 | 240 | 254 | 497 | 186 | M25x1.5 | M20x1.5 | 32.9 |

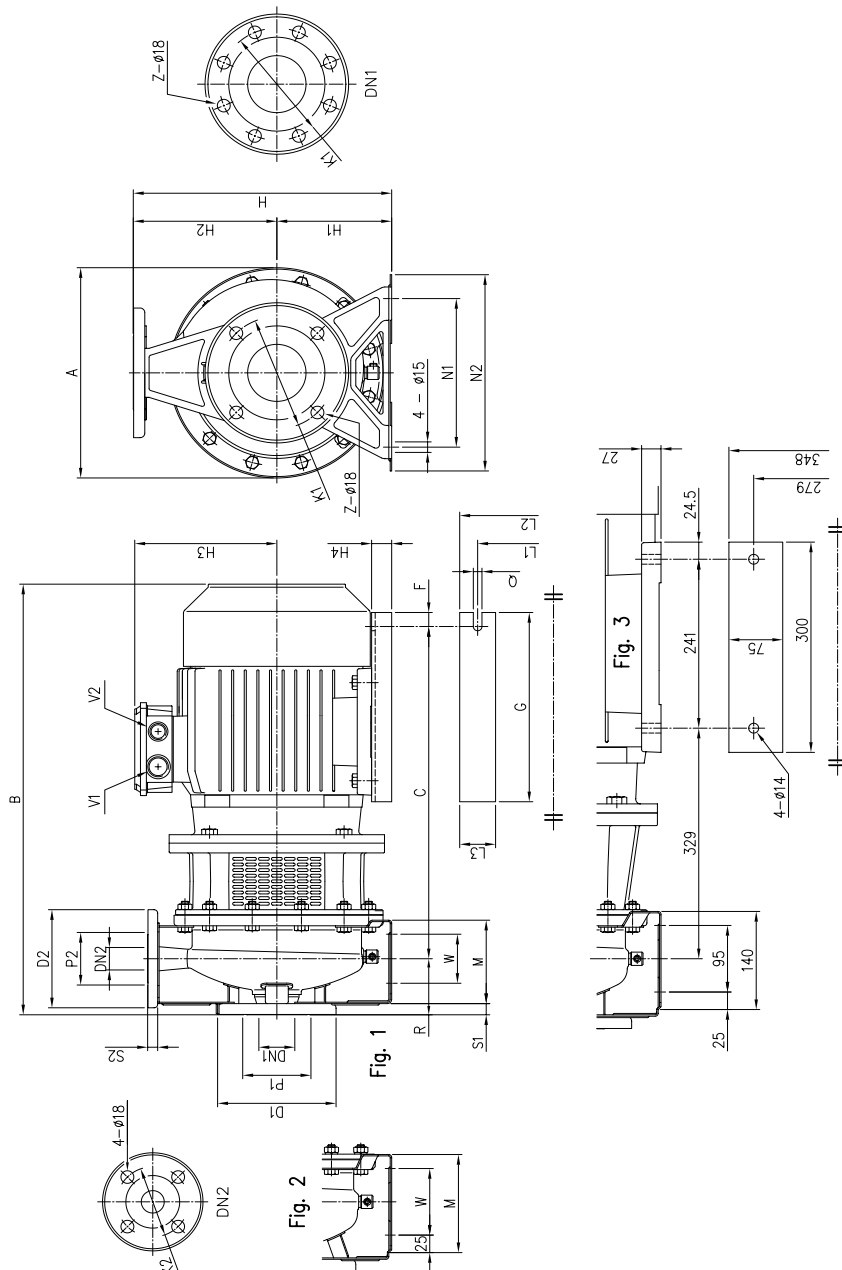
## PUMP 3(.)S 32, 65



| Model      | Dimensions [mm] |      |      |      |    |          |     |       |      |      |      |    |      |     |     |     |     |     |    |     |     |     |     |     |     |     | Weight<br>Kgf |    |      |
|------------|-----------------|------|------|------|----|----------|-----|-------|------|------|------|----|------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|---------------|----|------|
|            | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | S1 | Z<br>[1] | [2] | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | Fig. | H   | H1  | H2  | H3  | R   | W  | M   | N1  | N2  | A   | B   | C   | L1  |               | L2 | L3   |
| 32-200/3.0 | 50              | 95   | 125  | 165  | 16 | 4        | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | 155 | 80  | 70 | 119 | 190 | 240 | 296 | 528 | 205 | 160 | 202           | 42 | 46.9 |
| 32-200/4.0 | 50              | 95   | 125  | 165  | 16 | 4        | -   | 32    | 75   | 100  | 140  | 14 | 1    | 340 | 160 | 180 | 171 | 80  | 70 | 119 | 190 | 240 | 296 | 550 | 212 | 190 | 228           | 38 | 49   |
| 65-125/4.0 | 80              | 134  | 160  | 200  | 18 | 8        | 4   | 65    | 115  | 145  | 185  | 16 | 2    | 340 | 160 | 180 | 171 | 100 | 95 | 140 | 212 | 280 | 254 | 570 | 212 | 190 | 228           | 38 | 50.1 |

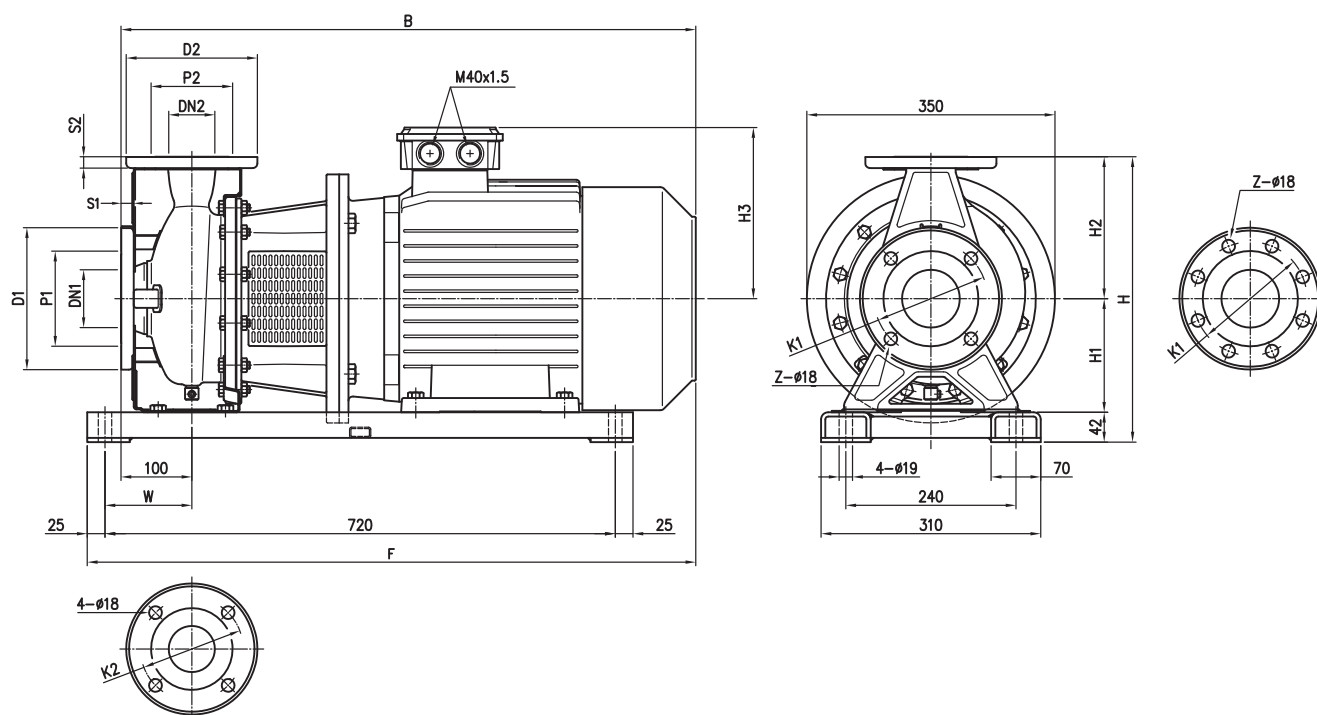
[1] Standard [2] On request

## PUMP 3(.)S 32, 40, 50, 65



| Model          | Dimensions [mm] |      |      |      |      |       |       |     |     |     |     |    |    |     |     |     |     |    |     |    | Weight [kgf] |     |     |     |     |     |    |     |    |        |     |    |         |         |         |     |
|----------------|-----------------|------|------|------|------|-------|-------|-----|-----|-----|-----|----|----|-----|-----|-----|-----|----|-----|----|--------------|-----|-----|-----|-----|-----|----|-----|----|--------|-----|----|---------|---------|---------|-----|
|                | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | Ø S1 | Z [1] | Z [2] | Fig | H   | H1  | H2  | H3 | H4 | R   | W   | M   | N1  | N2 | A   | B  | C            | F   | G   | Q   | L1  | L2  | L3 | V1  | V2 | Weight |     |    |         |         |         |     |
| 32-200/5.5     | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32  | 75  | 100 | 140 | 14 | 1  | 340 | 160 | 180 | 198 | 28 | 80  | 70 | 119          | 190 | 240 | 300 | 607 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 71.8    |     |
| 32-200/7.5     | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32  | 75  | 100 | 140 | 14 | 1  | 340 | 160 | 180 | 198 | 28 | 80  | 70 | 119          | 190 | 240 | 300 | 627 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 87      |     |
| 40-160/3.0     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40  | 80  | 110 | 150 | 14 | 1  | 292 | 132 | 160 | 155 | 32 | 80  | 70 | 118          | 190 | 240 | 254 | 528 | 388 | 15 | 220 | 12 | 160    | 200 | 40 | M25x1.5 | M20x1.5 | 42.5    |     |
| 40-160/4.0     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40  | 80  | 110 | 150 | 14 | 1  | 292 | 132 | 160 | 171 | 20 | 80  | 70 | 118          | 190 | 240 | 254 | 550 | 395 | 15 | 220 | 12 | 190    | 240 | 50 | M25x1.5 | M20x1.5 | 44.6    |     |
| 40-200/5.5     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40  | 80  | 110 | 150 | 14 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 115          | 212 | 265 | 300 | 627 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 72.2    |     |
| 40-200/7.5     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40  | 80  | 110 | 150 | 14 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 115          | 212 | 265 | 300 | 647 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 82      |     |
| 50-125/3.0     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50  | 95  | 125 | 165 | 16 | 2  | 292 | 132 | 160 | 155 | 32 | 100 | 70 | 114          | 190 | 240 | 254 | 548 | 388 | 15 | 220 | 12 | 160    | 200 | 40 | M25x1.5 | M20x1.5 | 35.5    |     |
| 50-125/4.0     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50  | 95  | 125 | 165 | 16 | 2  | 292 | 132 | 160 | 171 | 20 | 100 | 70 | 114          | 190 | 240 | 254 | 570 | 395 | 15 | 220 | 12 | 190    | 240 | 50 | M25x1.5 | M20x1.5 | 45.6    |     |
| 50-160/5.5     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50  | 95  | 125 | 165 | 16 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 115          | 212 | 265 | 300 | 627 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 63.8    |     |
| 50-160/7.5     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50  | 95  | 125 | 165 | 16 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 70 | 115          | 212 | 265 | 300 | 647 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 91      |     |
| 50-200/9.2     | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50  | 95  | 125 | 165 | 16 | 2  | 360 | 160 | 200 | 198 | 28 | 100 | 70 | 115          | 212 | 265 | 300 | 667 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 90.7    |     |
| 65-125/5.5     | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 140          | 212 | 280 | 300 | 627 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 60      |     |
| 65-125/7.5     | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 340 | 160 | 180 | 198 | 28 | 100 | 95 | 140          | 212 | 280 | 300 | 647 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 79.4    |     |
| 65-160/7.5     | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 140          | 212 | 280 | 300 | 647 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 82.4    |     |
| 65-160/9.2     | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 360 | 160 | 200 | 198 | 28 | 100 | 95 | 140          | 212 | 280 | 300 | 667 | 479 | 15 | 270 | 12 | 216    | 266 | 50 | M32x1.5 | M32x1.5 | 88      |     |
| 65-200/15      | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 140          | 250 | 320 | 350 | 806 | 621 | 20 | 350 | 14 | 254    | 314 | 60 | M40x1.5 | M40x1.5 | 138     |     |
| 65-200/18.5    | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 2  | 405 | 180 | 225 | 238 | 20 | 100 | 95 | 140          | 250 | 320 | 350 | 850 | 621 | 20 | 350 | 14 | 254    | 314 | 60 | M40x1.5 | M40x1.5 | 137.2   |     |
| 65-200/22      | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65  | 115 | 145 | 185 | 16 | 3  | 405 | 180 | 225 | 268 | -  | 100 | -  | 250          | 320 | 350 | 859 | -   | -   | -  | -   | -  | -      | -   | -  | -       | M32x1.5 | M32x1.5 | 194 |
| [2] On request |                 |      |      |      |      |       |       |     |     |     |     |    |    |     |     |     |     |    |     |    |              |     |     |     |     |     |    |     |    |        |     |    |         |         |         |     |

[1] Standard [2] On request

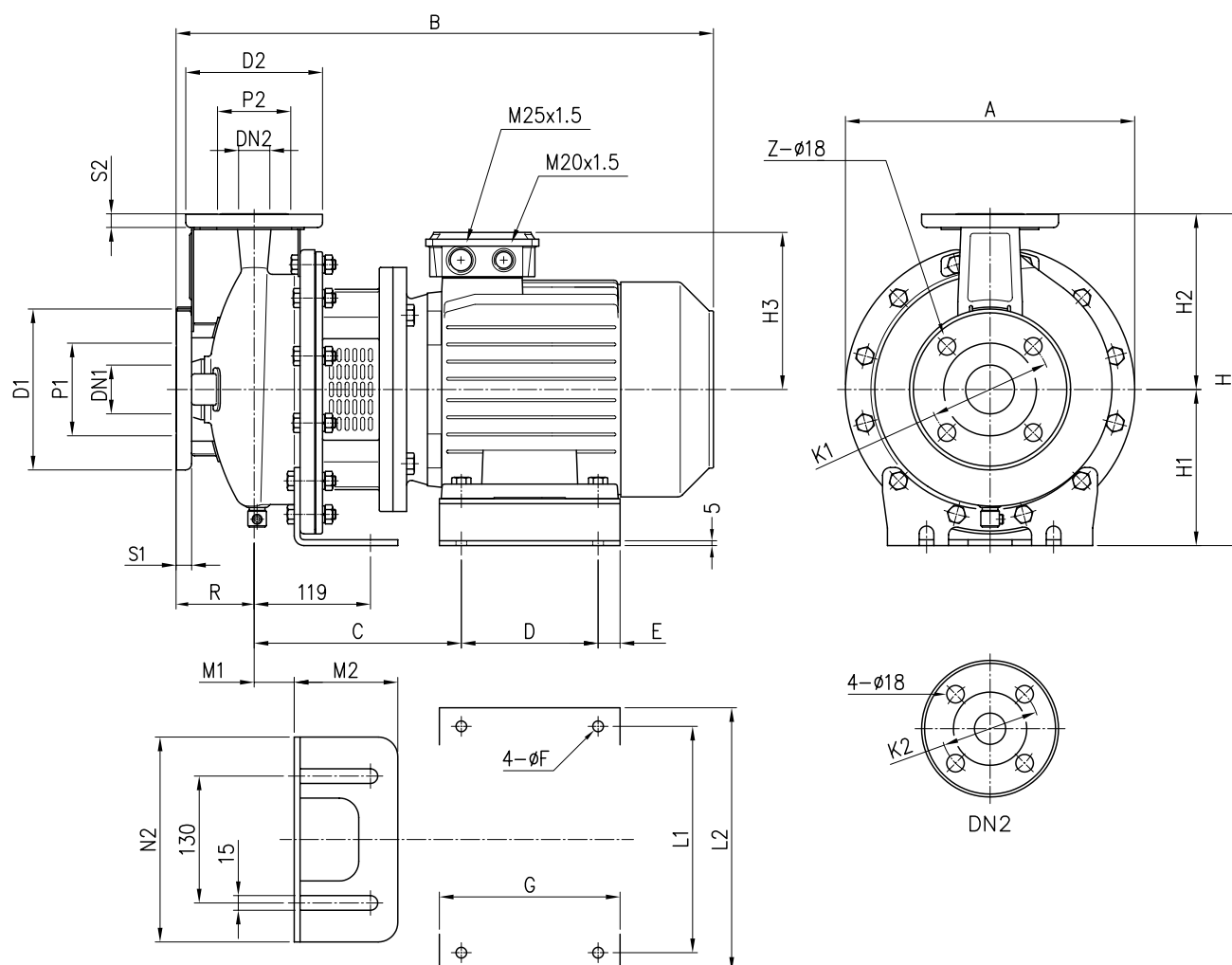
**PUMP 3(.)S 40, 50, 65**

| Pump type | Dimensions [mm] |         |         |         |    |          |          |          |         |         |         |    |     |     |     |     |       |     |     | Weight<br>[ kgf ] |
|-----------|-----------------|---------|---------|---------|----|----------|----------|----------|---------|---------|---------|----|-----|-----|-----|-----|-------|-----|-----|-------------------|
|           | Ø<br>DN1        | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Z<br>[1] | Z<br>[2] | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | H   | H1  | H2  | H3  | W     | B   | F   |                   |
| 40-200/11 | 65              | 115     | 145     | 185     | 16 | 4        | -        | 40       | 80      | 110     | 150     | 14 | 382 | 160 | 180 | 238 | 110   | 796 | 831 | 117.8             |
| 50-200/11 | 65              | 115     | 145     | 185     | 16 | 4        | -        | 50       | 95      | 125     | 165     | 16 | 402 | 160 | 200 | 238 | 110   | 796 | 831 | 117.8             |
| 50-200/15 | 65              | 115     | 145     | 185     | 16 | 4        | -        | 50       | 95      | 125     | 165     | 16 | 402 | 160 | 200 | 238 | 110   | 796 | 831 | 147.9             |
| 65-160/11 | 80              | 134     | 160     | 200     | 18 | 8        | 4        | 65       | 115     | 145     | 185     | 16 | 402 | 160 | 200 | 238 | 122.5 | 796 | 844 | 86.8              |
| 65-160/15 | 80              | 134     | 160     | 200     | 18 | 8        | 4        | 65       | 115     | 145     | 185     | 16 | 402 | 160 | 200 | 238 | 122.5 | 806 | 854 | 120.9             |

[1] Standard

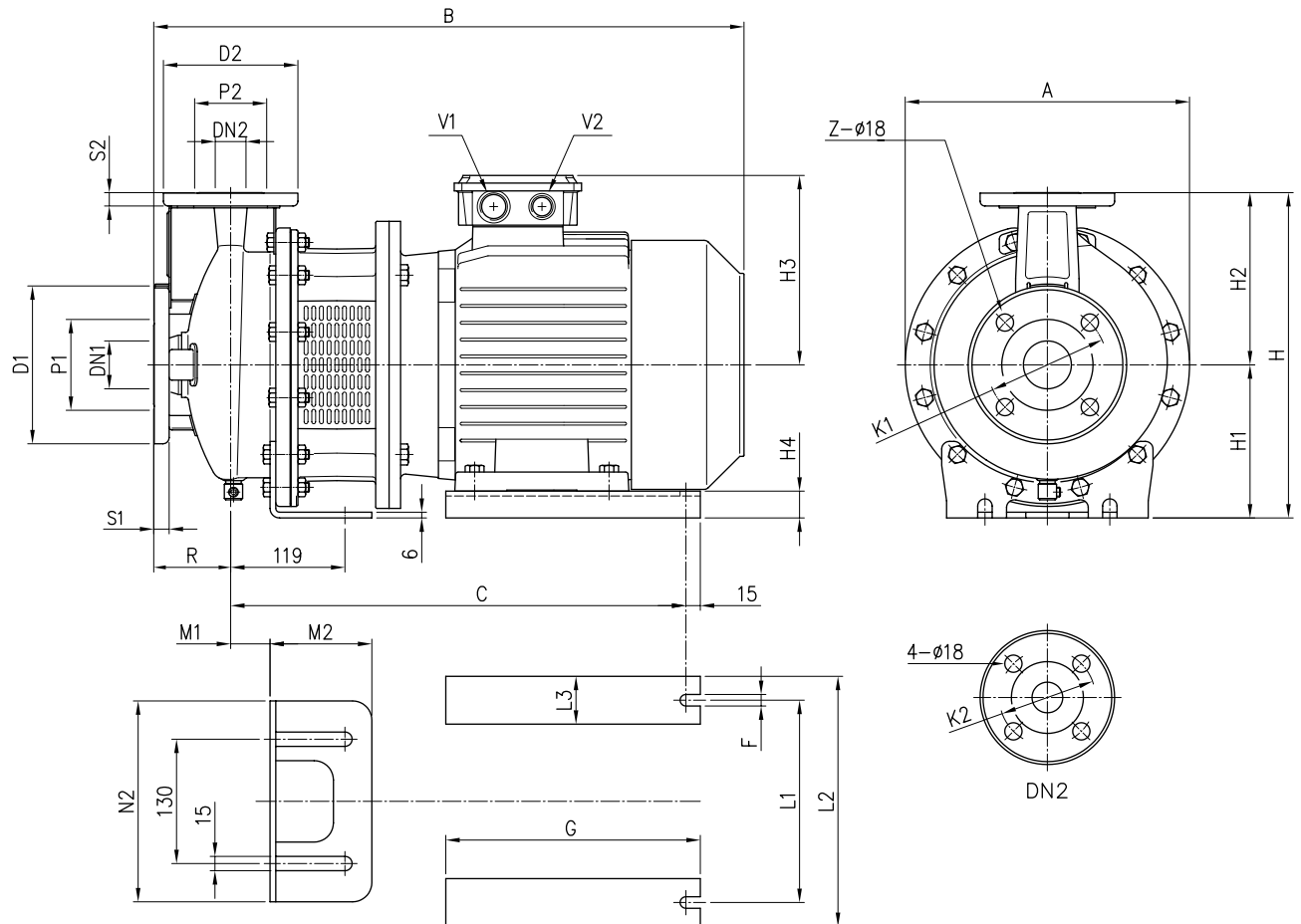
[2] On request

## PUMP 3LSZ 32-125/160, 32-200/3/4, 50-125/2.2, 65-125/4



| Model      | Dimensions [mm] |      |      |      |    |   |       |      |      |      |    |     |     |     |     |     |     |     |     |     |      |     |     | Weight |     |      |     |     |      |
|------------|-----------------|------|------|------|----|---|-------|------|------|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|--------|-----|------|-----|-----|------|
|            | Ø DN1           | Ø P1 | Ø K1 | Ø D1 | S1 | Z | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H   | H1  | H2  | H3  | R   | A   | B   | C   | D   | E    | Ø F | G   | L1     | L2  | M1   | M2  | N2  | Kgf  |
| 32-125/1.1 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 252 | 112 | 140 | 139 | 80  | 213 | 430 | 168 | 100 | 15   | 9   | 130 | 205    | 225 | 32.5 | 117 | 190 | 24.7 |
| 32-160/1.5 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 292 | 132 | 160 | 148 | 80  | 254 | 477 | 186 | 125 | 25   | 9   | 170 | 210    | 230 | 42   | 105 | 210 | 29.8 |
| 32-160/2.2 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 292 | 132 | 160 | 148 | 80  | 254 | 477 | 186 | 125 | 25   | 9   | 170 | 210    | 230 | 42   | 105 | 210 | 32.4 |
| 32-200/3.0 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 155 | 80  | 296 | 528 | 205 | 140 | 22.5 | 11  | 185 | 160    | 202 | 41   | 106 | 210 | 46.9 |
| 32-200/4.0 | 50              | 95   | 125  | 165  | 16 | 4 | 32    | 75   | 100  | 140  | 14 | 340 | 160 | 180 | 171 | 80  | 296 | 550 | 212 | 140 | 22.5 | 11  | 185 | 190    | 228 | 41   | 106 | 210 | 49   |
| 50-125/2.2 | 65              | 115  | 145  | 185  | 16 | 4 | 50    | 95   | 125  | 165  | 16 | 292 | 132 | 160 | 148 | 100 | 254 | 497 | 186 | 125 | 25   | 9   | 170 | 210    | 230 | 42   | 105 | 210 | 32.9 |
| 65-125/4.0 | 80              | 134  | 160  | 200  | 18 | 8 | 65    | 115  | 145  | 185  | 16 | 340 | 160 | 180 | 171 | 100 | 254 | 570 | 212 | 140 | 22.5 | 11  | 185 | 190    | 228 | 42   | 105 | 210 | 50.1 |

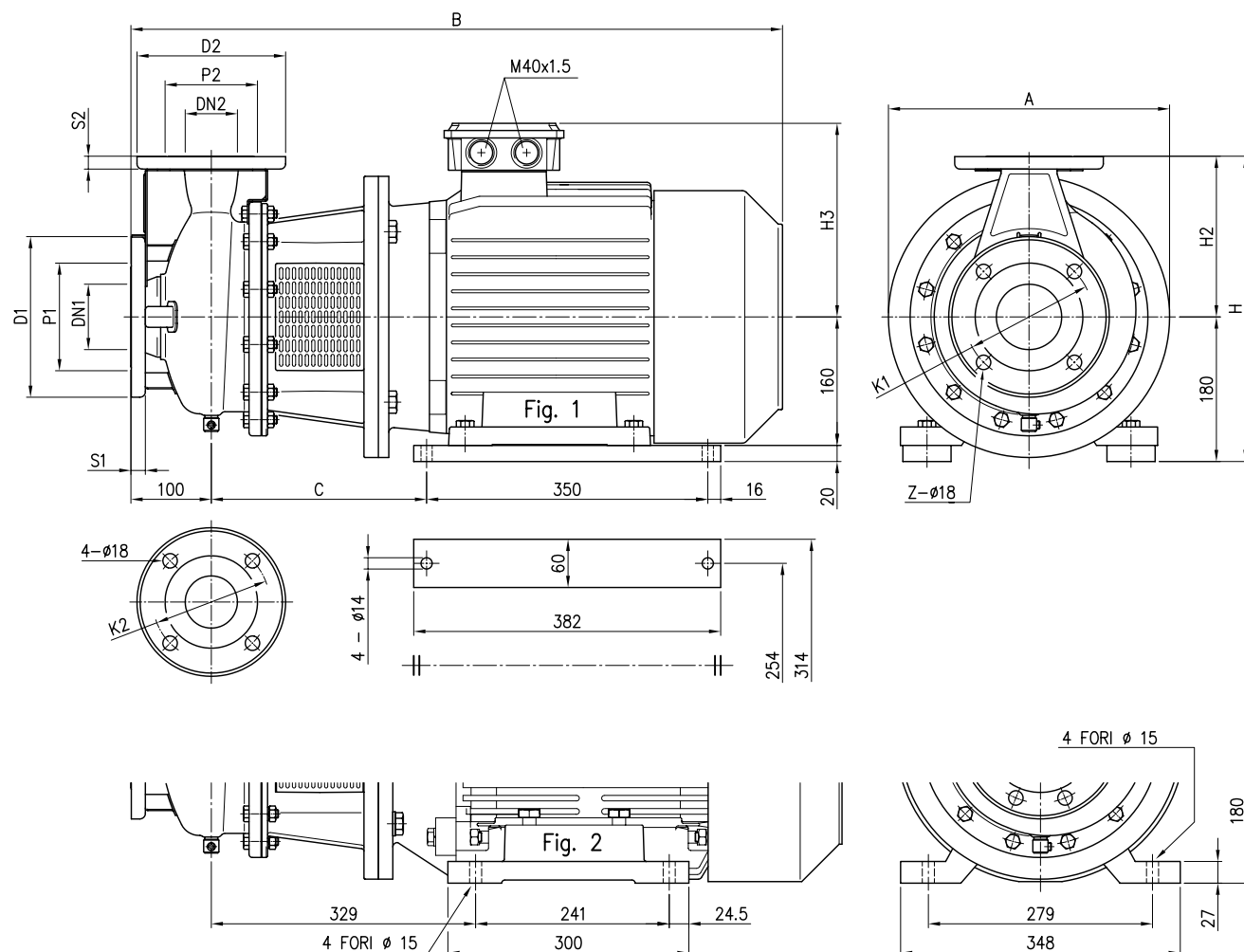
**PUMP 3LSZ 32-200/5.5/7.5, 40-125/160, 40-200/5.5/7.5, 50-125/3/4, 50-160  
50-200/9.2, 65-125/5.5/7.5, 65-160/7.5/9.2**



| Model      | Dimensions [mm] |         |         |         |    |   |          |         |         |         |    |     |     |     |     |    |     |     |     |       |    |     |     |     |    |      |     | Weight |      |
|------------|-----------------|---------|---------|---------|----|---|----------|---------|---------|---------|----|-----|-----|-----|-----|----|-----|-----|-----|-------|----|-----|-----|-----|----|------|-----|--------|------|
|            | Ø<br>DN1        | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Z | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | H   | H1  | H2  | H3  | H4 | R   | A   | B   | C     | F  | G   | L1  | L2  | L3 | M1   | M2  | N2     | Kgf  |
| 32-200/5.5 | 50              | 95      | 125     | 165     | 16 | 4 | 32       | 75      | 100     | 140     | 14 | 340 | 160 | 180 | 198 | 28 | 80  | 300 | 607 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 71.8 |
| 32-200/7.5 | 50              | 95      | 125     | 165     | 16 | 4 | 32       | 75      | 100     | 140     | 14 | 340 | 160 | 180 | 198 | 28 | 80  | 300 | 627 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 87   |
| 40-125/1.5 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 252 | 112 | 140 | 148 | 22 | 80  | 213 | 477 | 342   | 10 | 186 | 140 | 185 | 45 | 32.5 | 117 | 190    | 26.5 |
| 40-125/2.2 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 252 | 112 | 140 | 148 | 22 | 80  | 213 | 477 | 342   | 10 | 186 | 140 | 185 | 40 | 32.5 | 117 | 190    | 29.5 |
| 40-160/3.0 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 292 | 132 | 160 | 155 | 32 | 80  | 254 | 528 | 387.5 | 12 | 220 | 160 | 200 | 50 | 42   | 105 | 210    | 42.5 |
| 40-160/4.0 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 292 | 132 | 160 | 171 | 20 | 80  | 254 | 550 | 394.5 | 12 | 220 | 190 | 240 | 50 | 42   | 105 | 210    | 44.6 |
| 40-200/5.5 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 627 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 72.2 |
| 40-200/7.5 | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 647 | 479   | 12 | 270 | 216 | 266 | 40 | 41   | 106 | 210    | 82   |
| 50-125/3.0 | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 292 | 132 | 160 | 155 | 32 | 100 | 254 | 548 | 387.5 | 12 | 220 | 160 | 200 | 50 | 42   | 105 | 210    | 35.5 |
| 50-125/4.0 | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 292 | 132 | 160 | 171 | 20 | 100 | 254 | 570 | 394.5 | 12 | 220 | 190 | 240 | 50 | 42   | 105 | 210    | 45.6 |
| 50-160/5.5 | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 627 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 63.8 |
| 50-160/7.5 | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 647 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 91   |
| 50-200/9.2 | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 360 | 160 | 200 | 198 | 28 | 100 | 300 | 667 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 90.7 |
| 65-125/5.5 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 627 | 479   | 12 | 270 | 216 | 266 | 50 | 42   | 105 | 210    | 60   |
| 65-125/7.5 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 340 | 160 | 180 | 198 | 28 | 100 | 300 | 647 | 479   | 12 | 270 | 216 | 266 | 50 | 42   | 105 | 210    | 79.4 |
| 65-160/7.5 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 198 | 28 | 100 | 300 | 647 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 82.4 |
| 65-160/9.2 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 360 | 160 | 200 | 198 | 28 | 100 | 300 | 667 | 479   | 12 | 270 | 216 | 266 | 50 | 41   | 106 | 210    | 88   |



## PUMP 3LSZ 40-200/11, 50-200/11/15, 65-160/11/15, 65-200



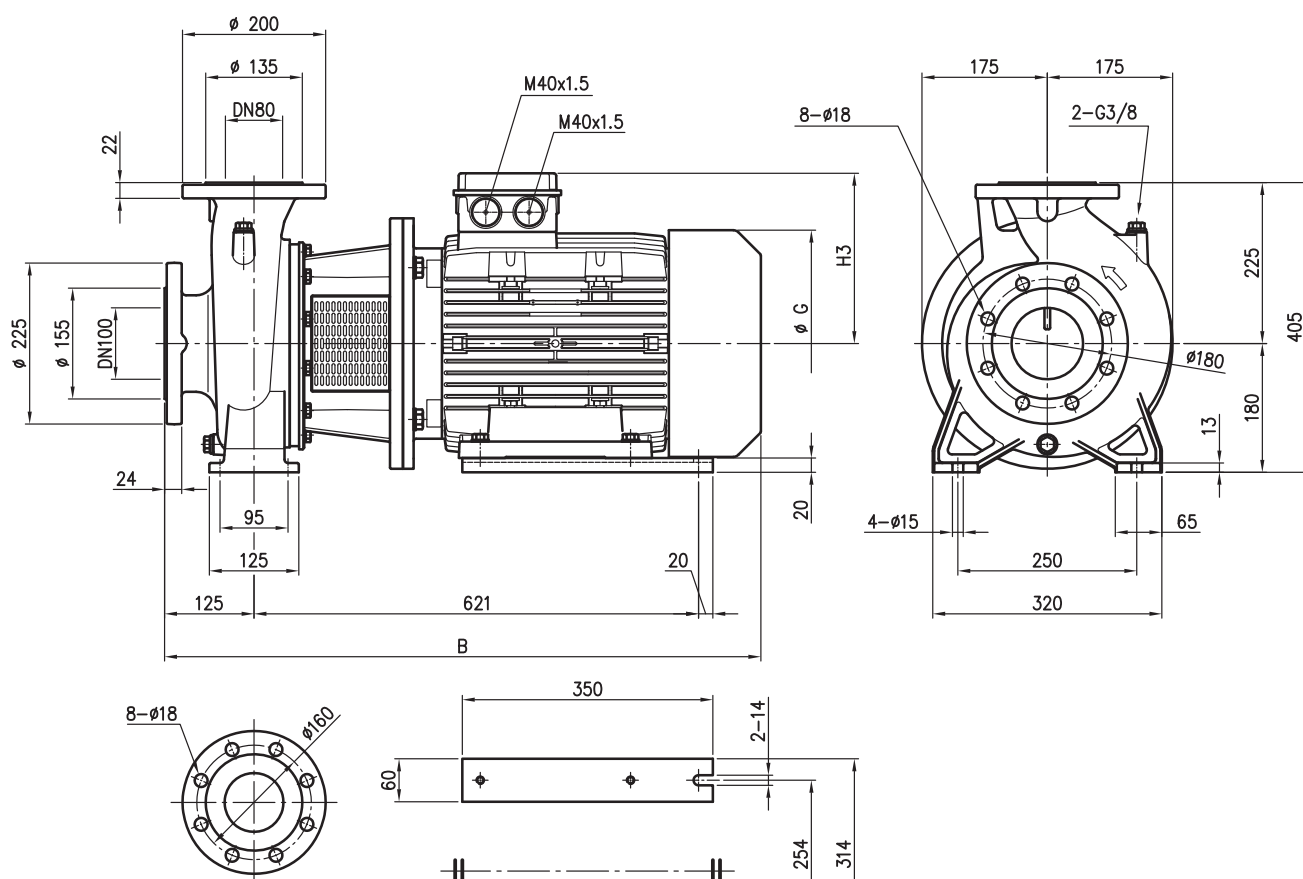
| Model       | Dimensions [mm] |         |         |         |    |   |          |         |         |         |    |      |     |     |     |     |     | Weight<br>[ kgf ] |       |
|-------------|-----------------|---------|---------|---------|----|---|----------|---------|---------|---------|----|------|-----|-----|-----|-----|-----|-------------------|-------|
|             | Ø<br>DN1        | Ø<br>P1 | Ø<br>K1 | Ø<br>D1 | S1 | Z | Ø<br>DN2 | Ø<br>P2 | Ø<br>K2 | Ø<br>D2 | S2 | Fig. | H   | H2  | H3  | A   | B   |                   | C     |
| 40-200/11   | 65              | 115     | 145     | 185     | 16 | 4 | 40       | 80      | 110     | 150     | 14 | 1    | 360 | 180 | 238 | 350 | 796 | 258               | 117.8 |
| 50-200/11   | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 1    | 380 | 200 | 238 | 350 | 796 | 258               | 117.8 |
| 50-200/15   | 65              | 115     | 145     | 185     | 16 | 4 | 50       | 95      | 125     | 165     | 16 | 1    | 380 | 200 | 238 | 350 | 796 | 258               | 147.9 |
| 65-160/11   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 1    | 380 | 200 | 238 | 350 | 796 | 258               | 86.8  |
| 65-160/15   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 1    | 380 | 200 | 238 | 350 | 806 | 268               | 120.9 |
| 65-200/15   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 1    | 405 | 225 | 238 | 350 | 806 | 268               | 138   |
| 65-200/18.5 | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 1    | 405 | 225 | 238 | 350 | 850 | 268               | 137.2 |
| 65-200/22   | 80              | 134     | 160     | 200     | 18 | 8 | 65       | 115     | 145     | 185     | 16 | 2    | 405 | 225 | 268 | 360 | 859 | -                 | 194   |

## DIMENSIONS AND WEIGHT

50Hz

Rev.AL

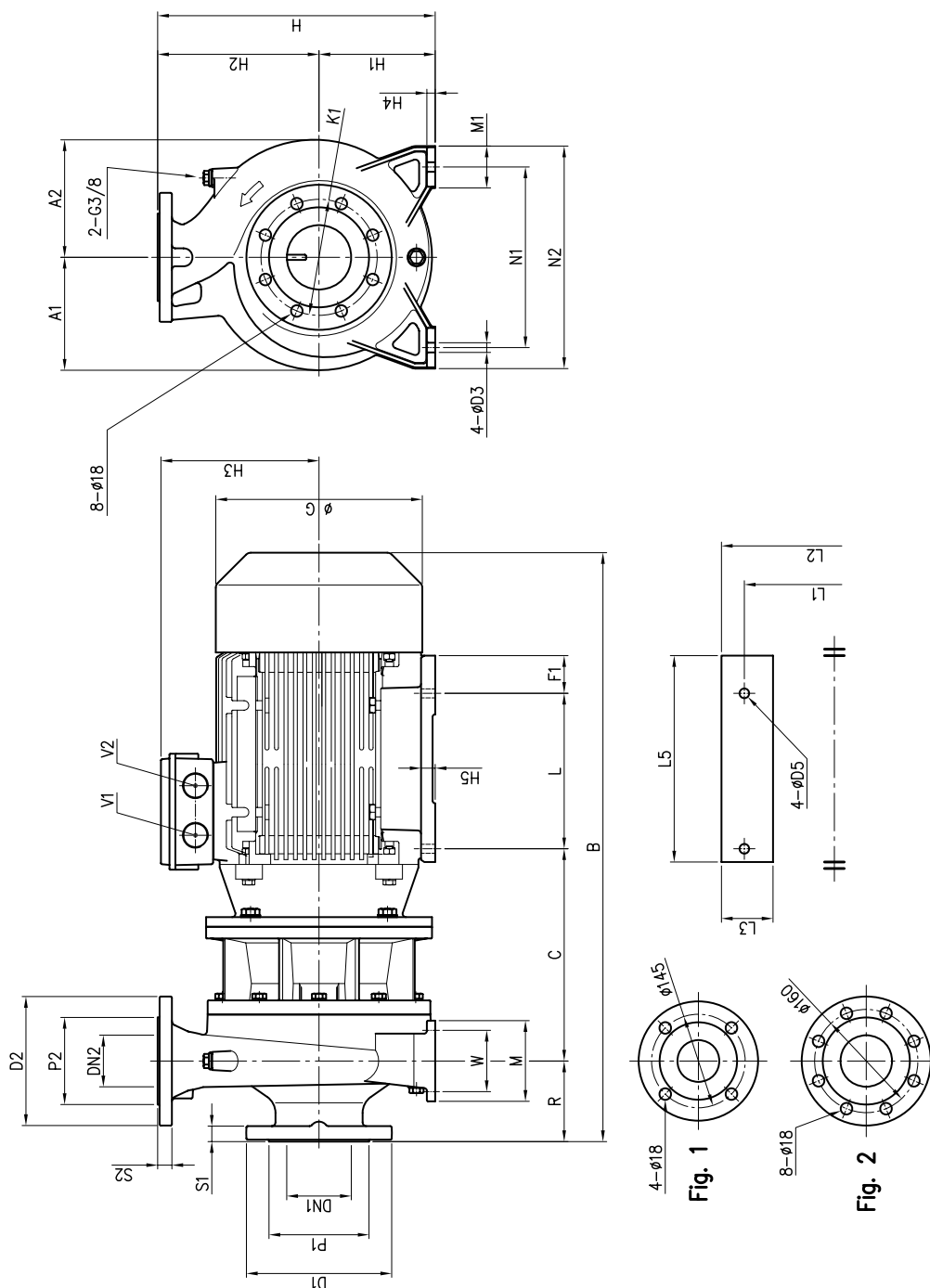
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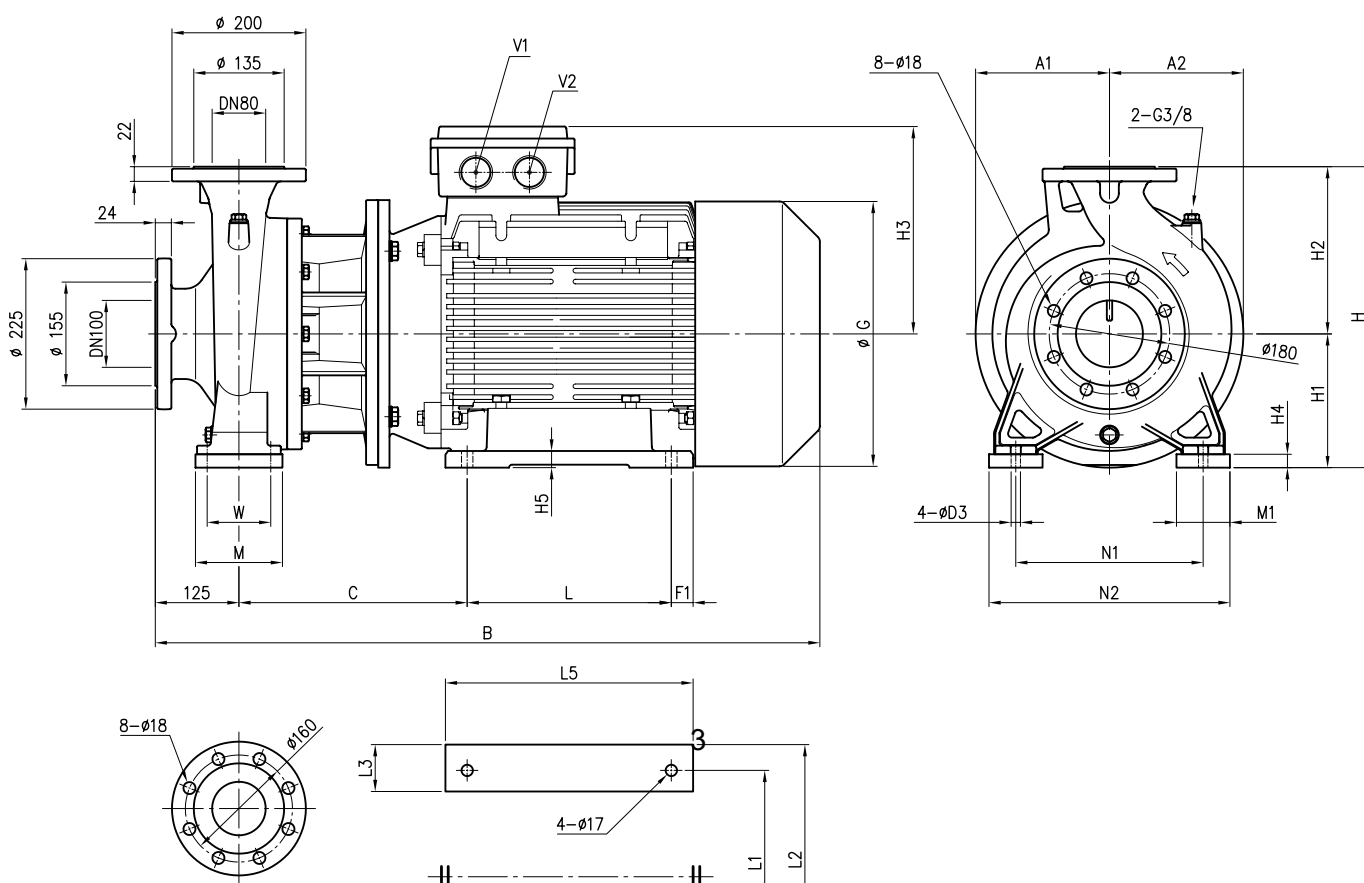


| Pump type   | B   | H3  | G   | Weight<br>[kgf] |
|-------------|-----|-----|-----|-----------------|
| 80-160/11   | 831 | 238 | 317 | 145.8           |
| 80-160/15R  | 831 | 238 | 317 | 157             |
| 80-160/15   | 831 | 238 | 317 | 157             |
| 80-160/18.5 | 875 | 238 | 317 | 151.2           |

## PUMP 3LS 65-250, 80-200, 80-250/37

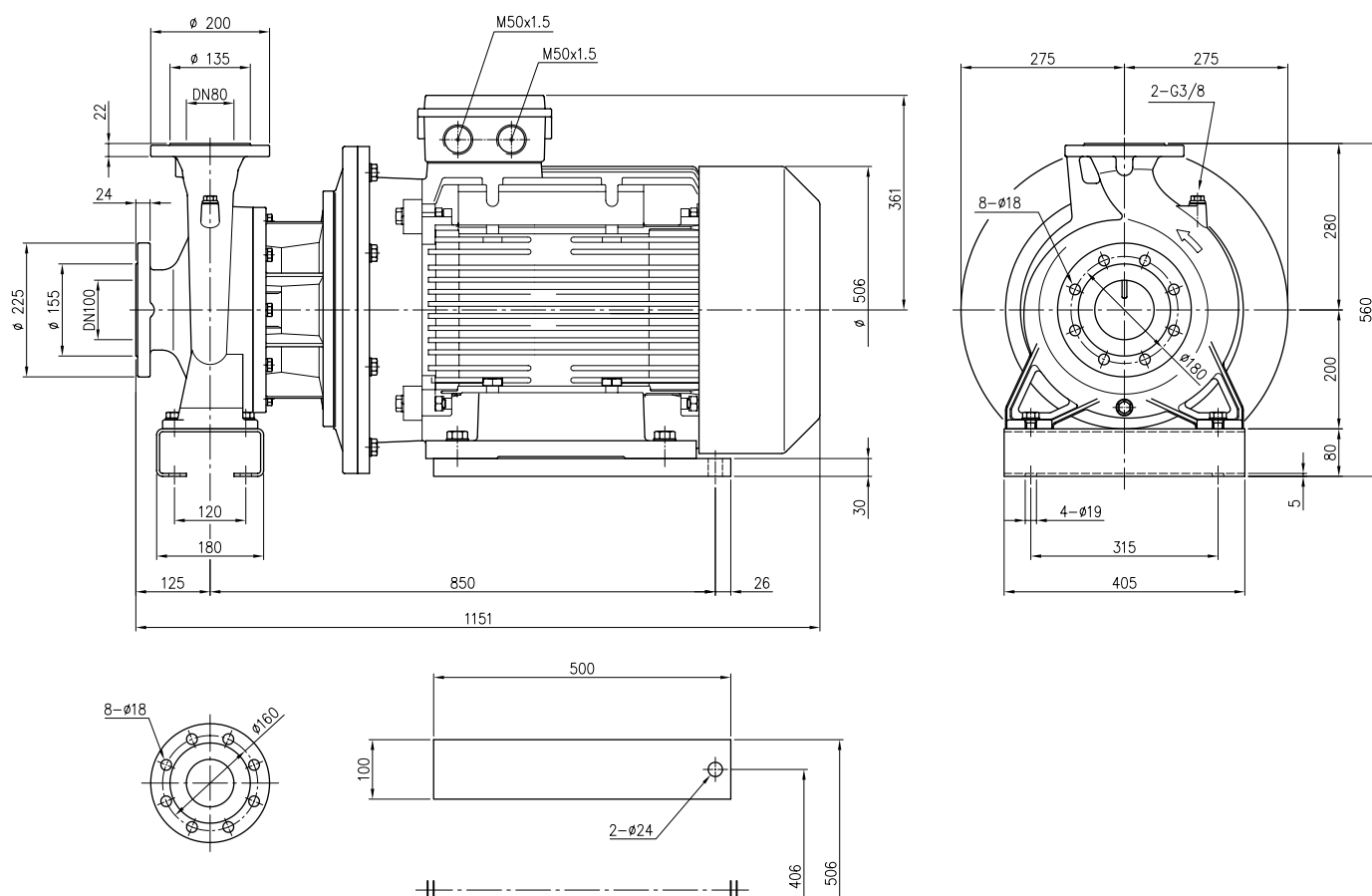
| Pump type | Dimensions [mm] |     |     |     |    |     |        |     |     |    |     |     |     |     |    |    |     |     |     |     |     |    |     |     |     |    |     |     |     |      | Weight<br>t<br>[kg] |      |     |    |    |         |         |     |
|-----------|-----------------|-----|-----|-----|----|-----|--------|-----|-----|----|-----|-----|-----|-----|----|----|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|------|---------------------|------|-----|----|----|---------|---------|-----|
|           | DN1             | P1  | K1  | D1  | S1 | DN2 | P2     | D2  | S2  | H  | H1  | H2  | H3  | H4  | H5 | R  | W   | N1  | N2  | M   | M1  | L  | L1  | L2  | L3  | L5 | A1  | A2  | B   | C    |                     | F1   | G   | D3 | D5 | V1      | V2      |     |
| 65-250/30 | 80              | 135 | 160 | 200 | 22 | 65  | Fig. 1 | 120 | 185 | 20 | 450 | 200 | 250 | 300 | 15 | 25 | 100 | 120 | 280 | 360 | 160 | 80 | 305 | 318 | 388 | 80 | 358 | 200 | 200 | 957  | 341                 | 21.5 | 399 | 19 | 17 | M40x1.5 | M40x1.5 | 322 |
| 65-250/37 | 80              | 135 | 160 | 200 | 22 | 65  | Fig. 1 | 120 | 185 | 20 | 450 | 200 | 250 | 300 | 15 | 25 | 100 | 120 | 280 | 360 | 160 | 80 | 305 | 318 | 388 | 80 | 358 | 200 | 200 | 957  | 341                 | 21.5 | 399 | 19 | 17 | M40x1.5 | M40x1.5 | 338 |
| 80-200/22 | 100             | 155 | 180 | 225 | 24 | 80  | Fig. 2 | 135 | 200 | 22 | 430 | 180 | 250 | 268 | 13 | 27 | 125 | 95  | 280 | 345 | 125 | 65 | 241 | 279 | 348 | 75 | 300 | 175 | 182 | 984  | 329                 | 24.5 | 360 | 15 | 14 | M32x1.5 | M32x1.5 | 226 |
| 80-250/37 | 100             | 155 | 180 | 225 | 24 | 80  | Fig. 2 | 135 | 200 | 22 | 480 | 200 | 280 | 300 | 15 | 25 | 125 | 120 | 315 | 400 | 160 | 80 | 305 | 318 | 388 | 80 | 358 | 200 | 200 | 1008 | 369                 | 21.5 | 399 | 19 | 17 | M40x1.5 | M40x1.5 | 358 |



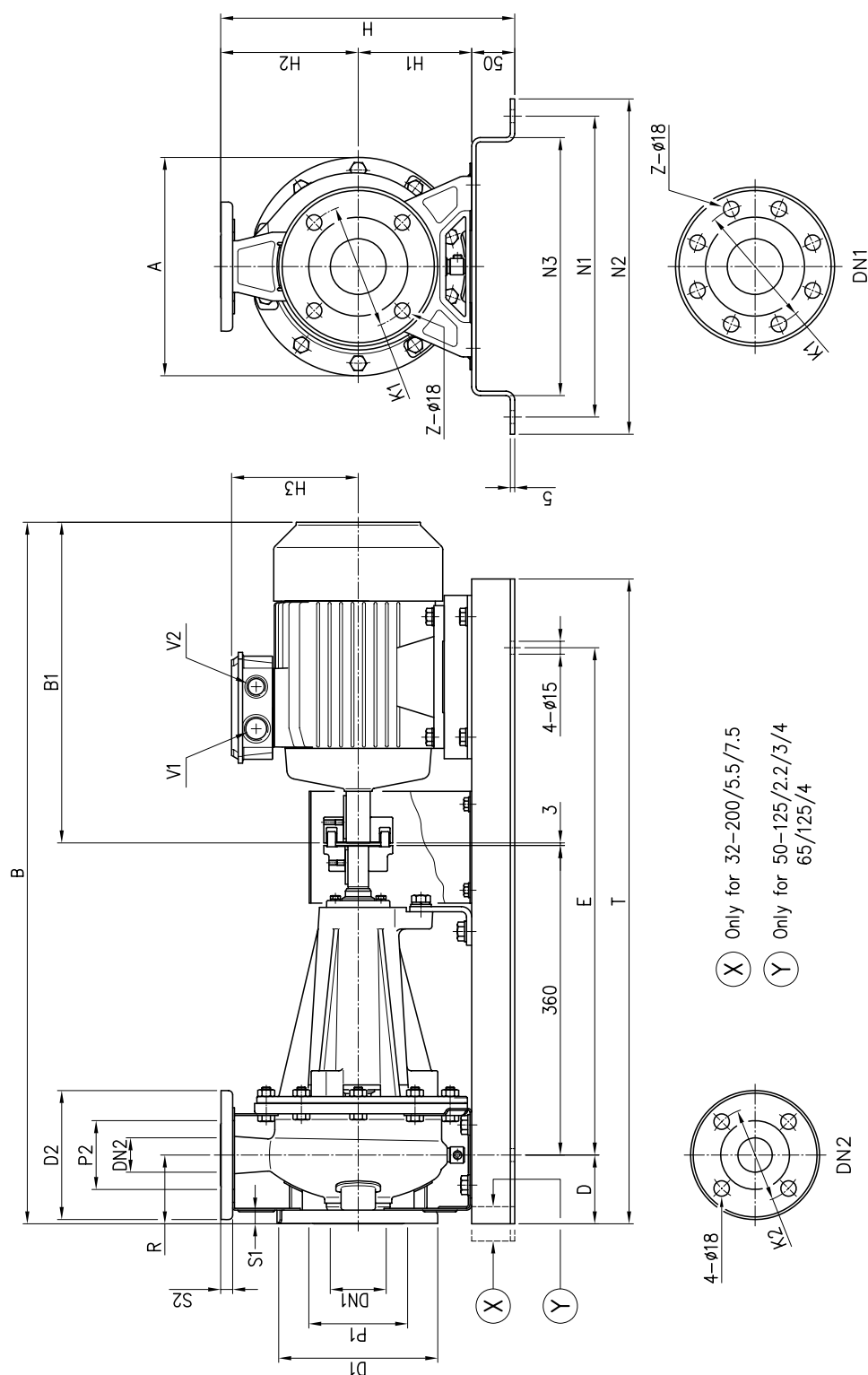
**PUMP 3LS 80-200/30/37, 80-250/45**

| Pump type | Dimensions [mm] |     |     |     |    |    |     |     |     |     |     |     |     |     |    |     |     |     |      |     |      |     |    |         |         |     | Weight [kgf] |
|-----------|-----------------|-----|-----|-----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|------|-----|------|-----|----|---------|---------|-----|--------------|
|           | H               | H1  | H2  | H3  | H4 | H5 | W   | N1  | N2  | M   | M1  | L   | L1  | L2  | L3 | L5  | A1  | A2  | B    | C   | F1   | G   | D3 | V1      | V2      |     |              |
| 80-200/30 | 450             | 200 | 250 | 300 | 20 | 25 | 95  | 280 | 360 | 130 | 80  | 305 | 318 | 388 | 80 | 358 | 200 | 200 | 980  | 341 | 21.5 | 399 | 14 | M40x1.5 | M40x1.5 | 324 |              |
| 80-200/37 | 450             | 200 | 250 | 300 | 20 | 25 | 95  | 280 | 360 | 130 | 80  | 305 | 318 | 388 | 80 | 358 | 200 | 200 | 980  | 341 | 21.5 | 399 | 14 | M40x1.5 | M40x1.5 | 348 |              |
| 80-250/45 | 505             | 225 | 280 | 335 | 25 | 28 | 120 | 315 | 415 | 165 | 100 | 311 | 356 | 436 | 80 | 386 | 225 | 225 | 1044 | 385 | 37.5 | 465 | 18 | M50x1.5 | M50x1.5 | 416 |              |

## PUMP 3LS 80-250/55



Weight: 489 kgf

**PUMP 3(.)P 32, 40, 50, 65**

For dimensions see table pag. 418

## DIMENSIONS AND WEIGHT

50Hz

Rev.AL

## PUMP 3(.)P 32, 40, 50, 65

| Model       | Dimensions [mm] |      |      |      |      |       |       |       |      |      |      |    |     |     |     |     |     |     |      |     |     |     |     |     |     | Weight<br>Kgf |         |         |      |
|-------------|-----------------|------|------|------|------|-------|-------|-------|------|------|------|----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|---------------|---------|---------|------|
|             | Ø DN            | Ø P1 | Ø K1 | Ø D1 | Ø S1 | Z [1] | Ø [2] | Ø DN2 | Ø P2 | Ø K2 | Ø D2 | S2 | H   | H1  | H2  | H3  | R   | A   | B    | B1  | D   | E   | N1  | N2  | N3  |               | T       | V1      | V2   |
| 32-125/1.1  | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 302 | 112 | 140 | 139 | 80  | 213 | 715  | 272 | 80  | 550 | 300 | 340 | 250 | 710           | M25x1.5 | M20x1.5 | 45.1 |
| 32-160/1.5  | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 342 | 132 | 160 | 148 | 80  | 254 | 760  | 317 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 52.3 |
| 32-160/2.2  | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 342 | 132 | 160 | 148 | 80  | 254 | 760  | 317 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 53.5 |
| 32-200/3    | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 390 | 160 | 180 | 155 | 80  | 296 | 809  | 366 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 71.5 |
| 32-200/4    | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 390 | 160 | 180 | 171 | 80  | 296 | 831  | 388 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 75.1 |
| 32-200/5.5  | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 390 | 160 | 180 | 198 | 80  | 296 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | 97   |
| 32-200/7.5  | 50              | 95   | 125  | 165  | 16   | 4     | -     | 32    | 75   | 100  | 140  | 14 | 390 | 160 | 180 | 198 | 80  | 296 | 885  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 40-125/1.5  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 302 | 112 | 140 | 148 | 80  | 213 | 760  | 317 | 80  | 550 | 300 | 340 | 250 | 710           | M25x1.5 | M20x1.5 | 49.8 |
| 40-125/2.2  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 302 | 112 | 140 | 148 | 80  | 213 | 760  | 317 | 80  | 550 | 300 | 340 | 250 | 710           | M25x1.5 | M20x1.5 | 51   |
| 40-160/3    | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 342 | 132 | 160 | 155 | 80  | 254 | 809  | 366 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 81   |
| 40-160/4    | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 342 | 132 | 160 | 171 | 80  | 254 | 831  | 388 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 67.6 |
| 40-200/5.5  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 390 | 160 | 180 | 198 | 100 | 296 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | 98   |
| 40-200/7.5  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 390 | 160 | 180 | 198 | 100 | 296 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 40-200/11   | 65              | 115  | 145  | 185  | 16   | 4     | -     | 40    | 80   | 110  | 150  | 14 | 390 | 160 | 180 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 50-125/2.2  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 342 | 132 | 160 | 148 | 100 | 254 | 780  | 317 | 80  | 550 | 350 | 390 | 300 | 710           | M25x1.5 | M20x1.5 | 75   |
| 50-125/3    | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 342 | 132 | 160 | 155 | 100 | 254 | 829  | 366 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 82.5 |
| 50-125/4    | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 342 | 132 | 160 | 171 | 100 | 254 | 851  | 388 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 84.6 |
| 50-160/5.5  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 390 | 160 | 180 | 198 | 100 | 296 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | 98   |
| 50-160/7.5  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 390 | 160 | 180 | 198 | 100 | 296 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 50-200/9.2  | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 410 | 160 | 200 | 198 | 100 | 296 | 945  | 482 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 50-200/11   | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 50-200/15   | 65              | 115  | 145  | 185  | 16   | 4     | -     | 50    | 95   | 125  | 165  | 16 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 65-125/4    | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 390 | 160 | 180 | 171 | 100 | 254 | 851  | 388 | 80  | 590 | 350 | 390 | 300 | 750           | M25x1.5 | M20x1.5 | 85.1 |
| 65-125/5.5  | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 390 | 160 | 180 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | 99   |
| 65-125/7.5  | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 390 | 160 | 180 | 198 | 100 | 254 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 65-160/7.5  | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 410 | 160 | 200 | 198 | 100 | 296 | 905  | 442 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 65-160/9.2  | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 410 | 160 | 200 | 198 | 100 | 296 | 945  | 482 | 100 | 650 | 350 | 390 | 300 | 850           | M32x1.5 | M32x1.5 | -    |
| 65-160/11   | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 65-160/15   | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 410 | 160 | 200 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 65-200/15   | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 455 | 180 | 225 | 238 | 100 | 296 | 1071 | 608 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 65-200/18.5 | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 455 | 180 | 225 | 238 | 100 | 296 | 1115 | 652 | 100 | 800 | 380 | 420 | 330 | 1000          | M40x1.5 | M40x1.5 | -    |
| 65-200/22   | 80              | 134  | 160  | 200  | 18   | 8     | 4     | 65    | 115  | 145  | 185  | 16 | 455 | 180 | 225 | 268 | 100 | 296 | 1124 | 687 | 100 | 800 | 410 | 450 | 360 | 1000          | M32x1.5 | M32x1.5 | -    |

[1] Standard [2] On request

## PUMP 3LP 65-250, 80-160/200/250

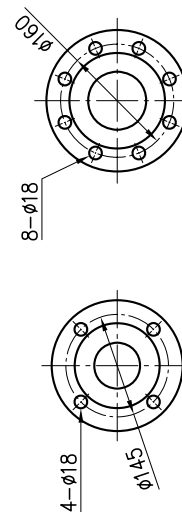
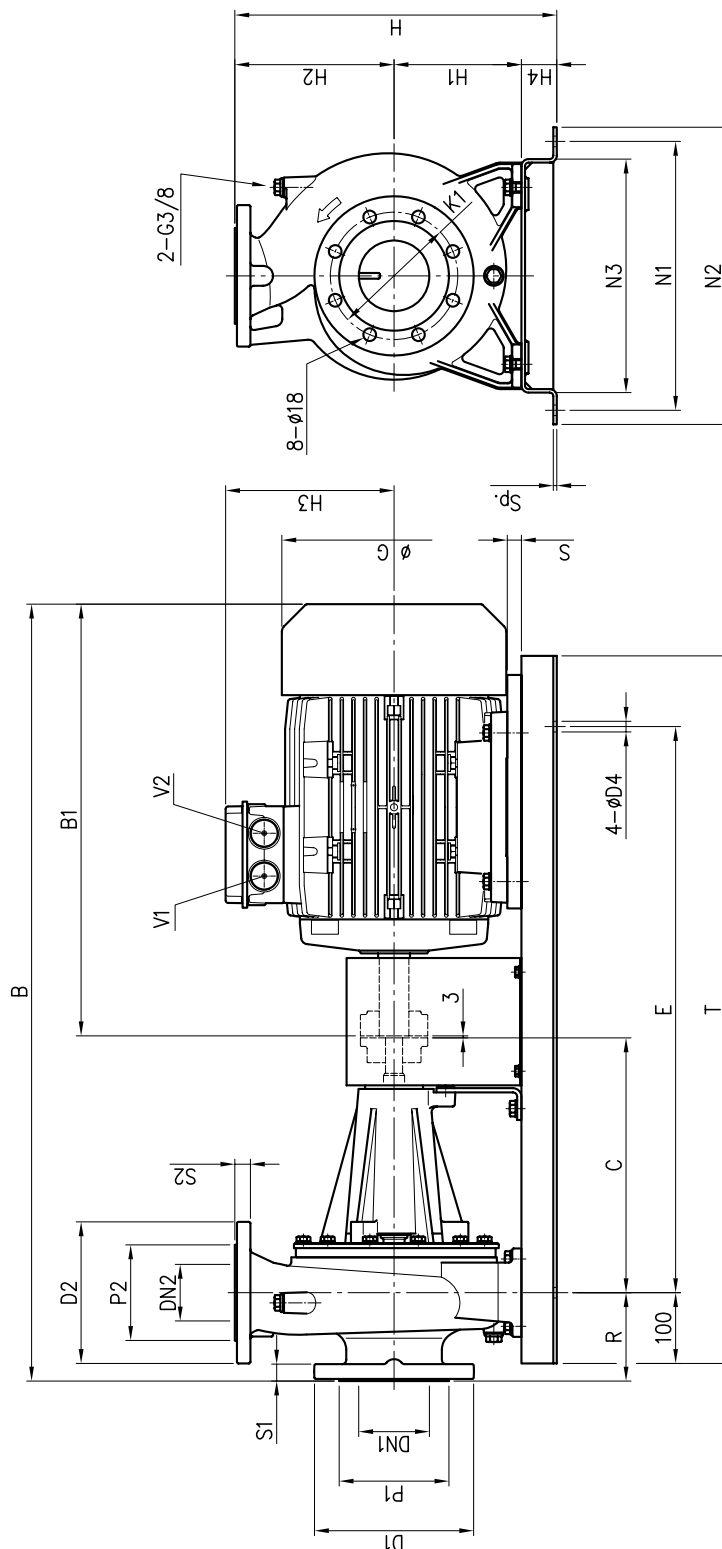


Fig. 1

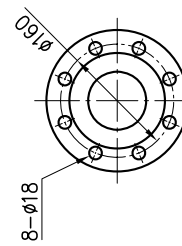


Fig. 2

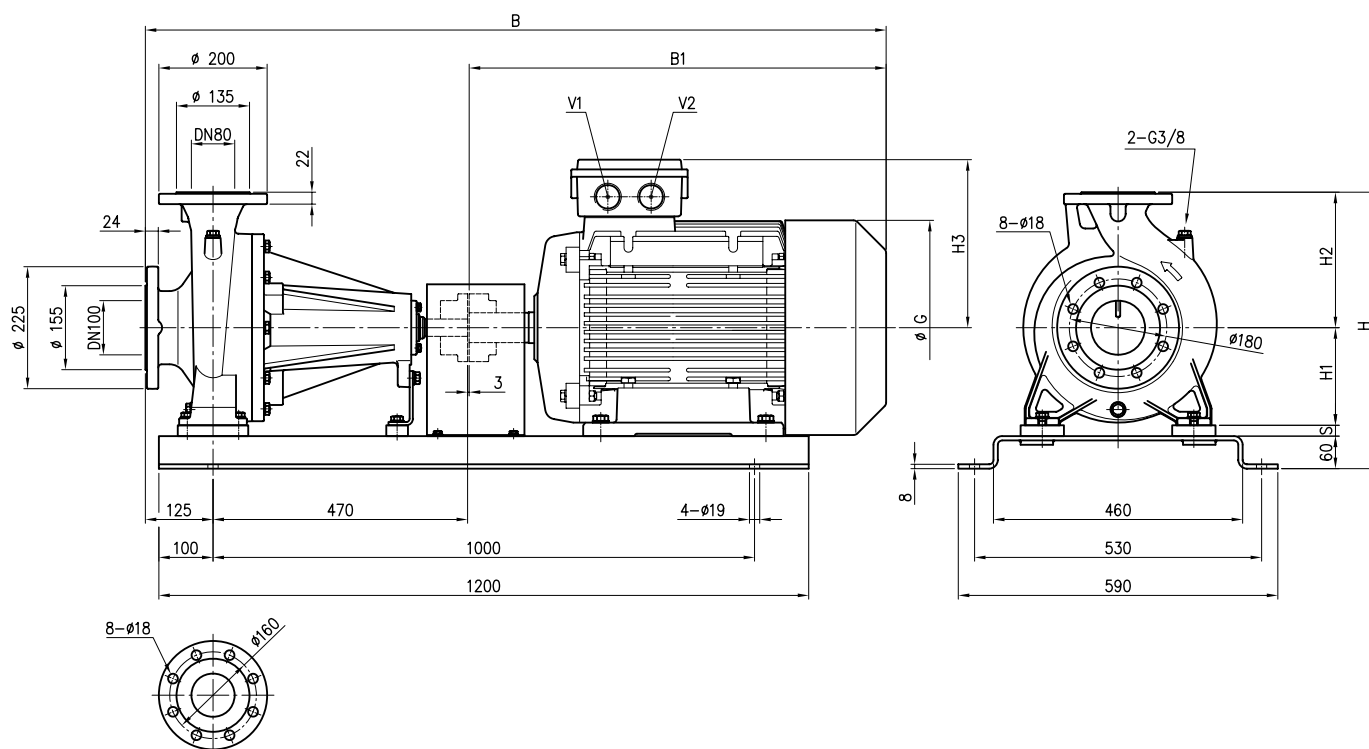
| Pump type | Dimensions [mm] |     |     |     |     |           |           |     |     |     |     |     |     |     |     |     |     |     |      |      |     |     |      |      |      |    | Weight [kgf] |         |         |         |
|-----------|-----------------|-----|-----|-----|-----|-----------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|------|------|------|----|--------------|---------|---------|---------|
|           | DN1             | P1  | k1  | D1  | S1  | DN2       | P2        | D2  | S2  | H   | H1  | H2  | H3  | H4  | R   | N1  | N2  | N3  | B    | B1   | C   | G   | E    | T    | S    | D4 |              | Sp.     | V1      | V2      |
| 65-250/30 | 80              | 135 | 160 | 200 | 22  | 65 Fig. 1 | 120       | 185 | 20  | 510 | 200 | 250 | 300 | 60  | 100 | 530 | 590 | 460 | 1330 | 768  | 470 | 399 | 1000 | 1200 | -    | 19 | 8            | M40x1.5 | M40x1.5 | 373     |
|           | 65-250/37       | 80  | 135 | 160 | 200 | 22        | 65 Fig. 1 | 120 | 185 | 20  | 510 | 200 | 250 | 300 | 60  | 100 | 530 | 590 | 460  | 1330 | 768 | 470 | 399  | 1000 | 1200 | -  | 19           | 8       | M40x1.5 | M40x1.5 |
| 80-160/11 | 100             | 155 | 180 | 225 | 24  | 80 Fig. 2 | 135       | 200 | 22  | 455 | 180 | 225 | 238 | 50  | 125 | 380 | 420 | 330 | 1096 | 608  | 360 | 317 | 800  | 1000 | 20   | 15 | 5            | M40x1.5 | M40x1.5 | 174.8   |
|           | 80-160/15R      | 100 | 155 | 180 | 225 | 24        | 80 Fig. 2 | 135 | 200 | 22  | 455 | 180 | 225 | 238 | 50  | 125 | 380 | 420 | 330  | 1096 | 608 | 360 | 317  | 800  | 1000 | 20 | 15           | 5       | M40x1.5 | M40x1.5 |
| 80-160/15 | 100             | 155 | 180 | 225 | 24  | 80 Fig. 2 | 135       | 200 | 22  | 455 | 180 | 225 | 238 | 50  | 125 | 380 | 420 | 330 | 1096 | 608  | 360 | 317 | 800  | 1000 | 20   | 15 | 5            | M40x1.5 | M40x1.5 | 186     |
|           | 80-160/18.5     | 100 | 155 | 180 | 225 | 24        | 80 Fig. 2 | 135 | 200 | 22  | 455 | 180 | 225 | 238 | 50  | 125 | 380 | 420 | 330  | 1140 | 652 | 360 | 317  | 800  | 1000 | 20 | 15           | 5       | M40x1.5 | M40x1.5 |
| 80-200/22 | 100             | 155 | 180 | 225 | 24  | 80 Fig. 2 | 135       | 200 | 22  | 490 | 180 | 250 | 268 | 60  | 125 | 530 | 590 | 460 | 1240 | 687  | 470 | 360 | 1000 | 1200 | -    | 19 | 8            | M32x1.5 | M32x1.5 | 278     |
|           | 80-250/37       | 100 | 155 | 180 | 225 | 24        | 80 Fig. 2 | 135 | 200 | 22  | 540 | 200 | 280 | 300 | 60  | 125 | 530 | 590 | 460  | 1355 | 768 | 470 | 399  | 1000 | 1200 | -  | 19           | 8       | M40x1.5 | M40x1.5 |



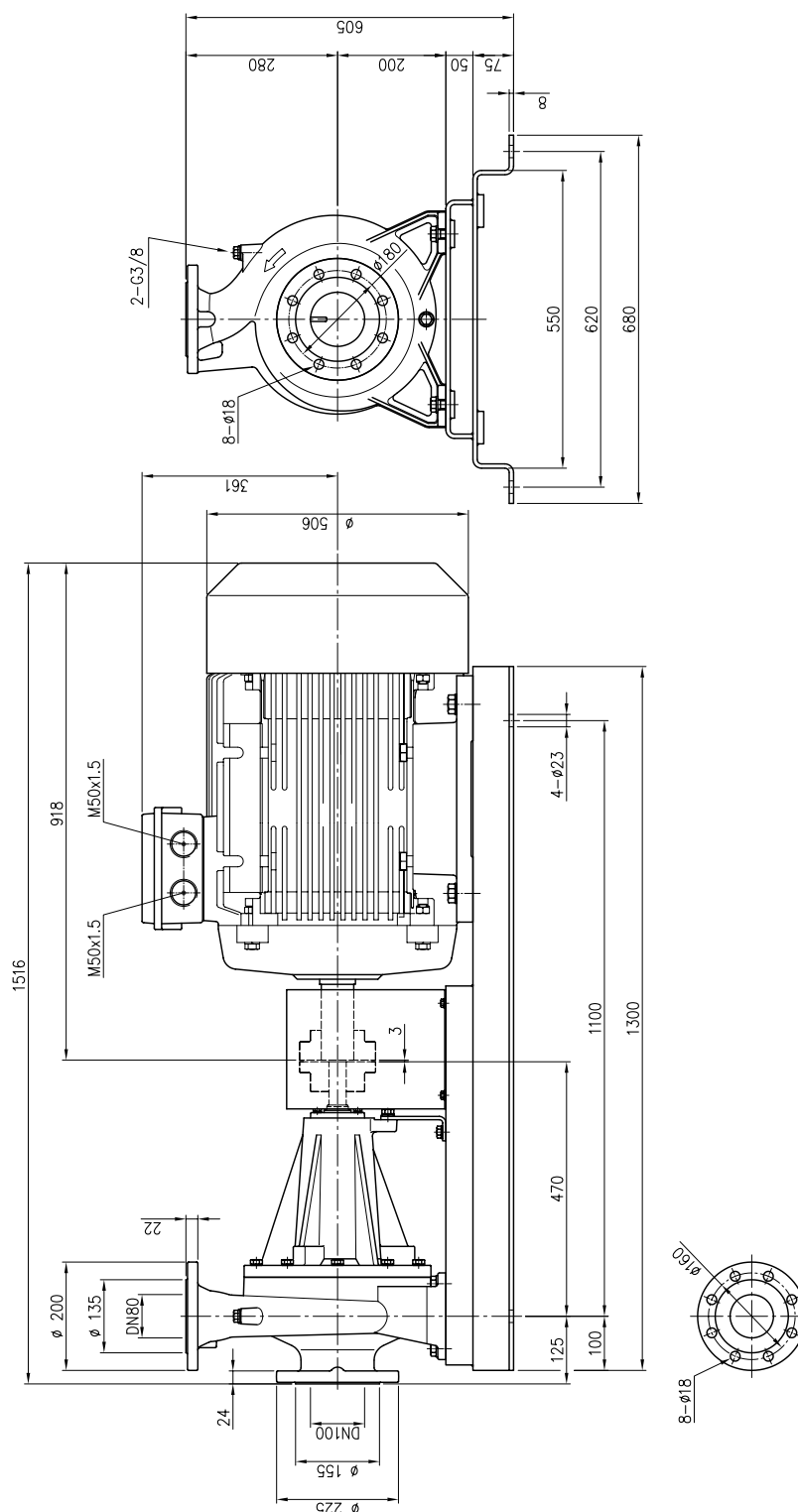
## 3 SERIES

50Hz

## PUMP 3LP 80-200/30/37, 80-250/45



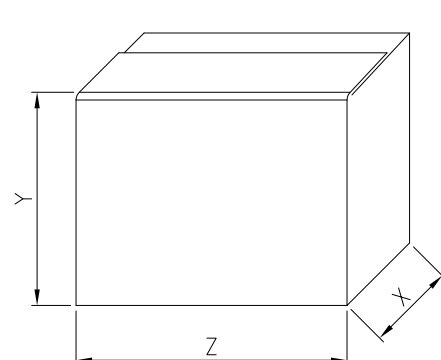
| Pump type | Dimensions [mm] |     |     |     |      |     |     |    |         |         | Weight [kgf] |
|-----------|-----------------|-----|-----|-----|------|-----|-----|----|---------|---------|--------------|
|           | H               | H1  | H2  | H3  | B    | B1  | G   | S  | V1      | V2      |              |
| 80-200/30 | 510             | 180 | 250 | 300 | 1355 | 768 | 399 | 20 | M40x1.5 | M40x1.5 | 374          |
| 80-200/37 | 510             | 180 | 250 | 300 | 1355 | 768 | 399 | 20 | M40x1.5 | M40x1.5 | 388          |
| 80-250/45 | 565             | 200 | 280 | 335 | 1391 | 809 | 465 | 25 | M50x1.5 | M50x1.5 | 455          |

**PUMP 3LP 80-250/55**

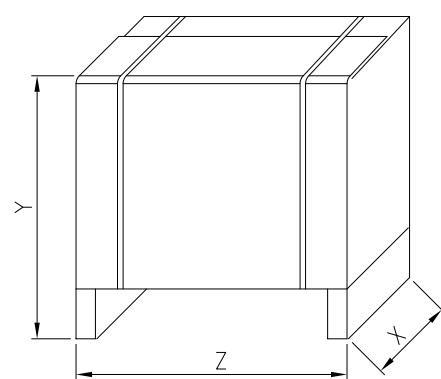
Weigh: 528 kgf

## PACKING 3(.)M

| Pump type      | Packing [mm] |      |           |      |           |       | Weight [kgf] |      | Pack type |       |     |      |       |       |      |  |  |      |
|----------------|--------------|------|-----------|------|-----------|-------|--------------|------|-----------|-------|-----|------|-------|-------|------|--|--|------|
|                | X<br>[1~]    | [3~] | Y<br>[1~] | [3~] | Z<br>[1~] | [3~]  | [1~]         | [3~] |           |       |     |      |       |       |      |  |  |      |
| 32-125/1.1 (M) | 280          | 280  | 350       | 360  | 490       | 470   | 25           | 29   | 1         |       |     |      |       |       |      |  |  |      |
| 32-160/1.5 (M) |              |      |           |      |           |       | 25,5         | 31,7 |           |       |     |      |       |       |      |  |  |      |
| 32-160/2.2 (M) |              |      |           | 360  | 350       | 535   | 490          | 30,5 |           | 33,5  |     |      |       |       |      |  |  |      |
| 32-200/3       | -            | 330  | -         | 400  | -         | 560   | -            | 41   | 2         |       |     |      |       |       |      |  |  |      |
| 32-200/4       |              |      |           |      |           |       |              |      |           |       |     | 44   |       |       |      |  |  |      |
| 32-200/5.5     |              |      |           |      |           |       |              |      |           |       |     | 60,5 |       |       |      |  |  |      |
| 32-200/7.5     |              |      |           |      |           |       |              |      |           | 410   | 680 | 65,6 |       |       |      |  |  |      |
| 40-125/1.5 (M) | 280          | 280  | 350       | 360  | 480       | 470   | 24,5         | 30   | 1         |       |     |      |       |       |      |  |  |      |
| 40-125/2.2 (M) |              |      |           |      | 350       | 490   | 490          | 29,5 |           | 31,5  |     |      |       |       |      |  |  |      |
| 40-160/3       | -            | 330  | -         | 400  | -         | 560   | -            | 28,8 | 2         |       |     |      |       |       |      |  |  |      |
| 40-160/4       |              |      |           |      |           |       |              |      |           |       |     | 46,5 |       |       |      |  |  |      |
| 40-200/5.5     |              |      |           |      |           |       |              |      |           |       |     | 61,5 |       |       |      |  |  |      |
| 40-200/7.5     |              |      |           |      |           |       |              |      |           | 410   | 680 | 68,1 |       |       |      |  |  |      |
| 40-200/11      |              |      |           |      |           |       |              |      |           |       |     | 79,4 |       |       |      |  |  |      |
| 50-125/2.2 (M) | 280          | 280  | 360       | 350  | 535       | 490   | 32           | 38   | 1         |       |     |      |       |       |      |  |  |      |
| 50-125/3       | -            | 330  | -         | 400  | -         | 560   | -            | 37   | 2         |       |     |      |       |       |      |  |  |      |
| 50-125/4       |              |      |           |      |           |       |              |      |           |       |     | 47   |       |       |      |  |  |      |
| 50-160/5.5     |              |      |           |      |           |       |              |      |           |       |     | 51,5 |       |       |      |  |  |      |
| 50-160/7.5     |              |      |           |      |           |       |              |      |           |       |     | 67,6 |       |       |      |  |  |      |
| 50-200/9.2     |              |      |           |      |           |       |              |      |           |       | 410 | 680  | 73,5  |       |      |  |  |      |
| 50-200/11      |              |      |           |      |           |       |              |      |           |       |     |      | 78,9  |       |      |  |  |      |
| 50-200/15      |              |      |           |      |           |       |              |      |           | 370   |     | 440  | 860   | 113,1 |      |  |  |      |
| 65-125/4       |              |      |           |      |           |       |              | 330  |           |       | 400 |      | 560   |       | 41,7 |  |  |      |
| 65-125/5.5     |              |      |           |      |           |       |              |      |           |       |     |      |       |       |      |  |  | 53,2 |
| 65-125/7.5     |              |      |           |      |           |       |              |      |           |       |     |      |       |       |      |  |  | 56,6 |
| 65-160/7.5     |              |      |           | 410  | 680       | 60,6  |              |      |           |       |     |      |       |       |      |  |  |      |
| 65-160/9.2     |              |      |           |      |           | 66,5  |              |      |           |       |     |      |       |       |      |  |  |      |
| 65-160/11      |              | 370  |           |      |           |       |              |      |           | 72,4  |     |      |       |       |      |  |  |      |
| 65-160/15      |              |      |           |      |           |       |              |      |           |       |     |      | 112,1 |       |      |  |  |      |
| 65-200/15      |              |      |           |      |           |       |              |      |           |       | 440 | 860  | 115,1 |       |      |  |  |      |
| 65-200/18.5    |              |      |           |      |           |       |              |      |           |       |     |      | 127,3 |       |      |  |  |      |
| 65-200/22      |              |      |           |      |           |       |              |      |           |       |     |      | 134,1 |       |      |  |  |      |
| 80-160/11      |              |      | 455       |      |           |       |              |      | 680       | 105,4 |     |      |       |       |      |  |  |      |
| 80-160/15R     |              |      |           |      |           |       |              |      |           | 136,1 |     |      |       |       |      |  |  |      |
| 80-160/15      |              |      | 440       |      |           |       |              |      | 860       | 137,1 |     |      |       |       |      |  |  |      |
| 80-160/18.5    |              |      |           |      |           | 151,3 |              |      |           |       |     |      |       |       |      |  |  |      |



TYPE 1

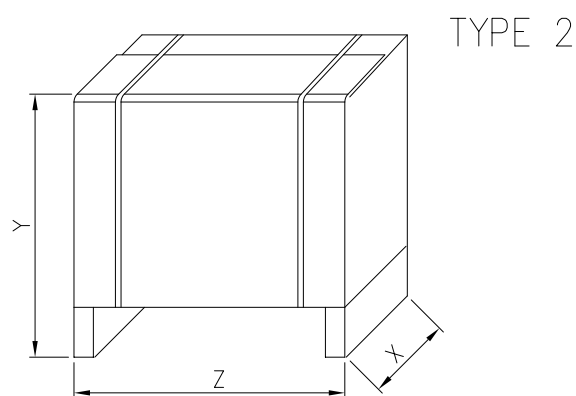
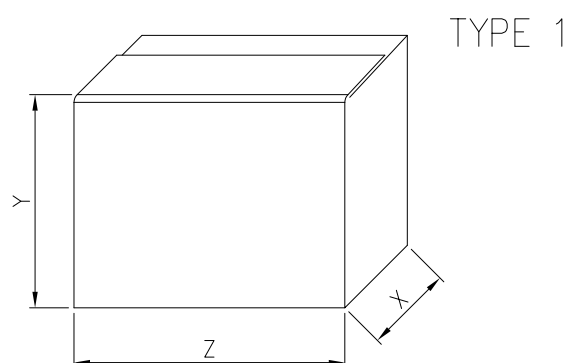


TYPE 2

## PACKING 3(.).S

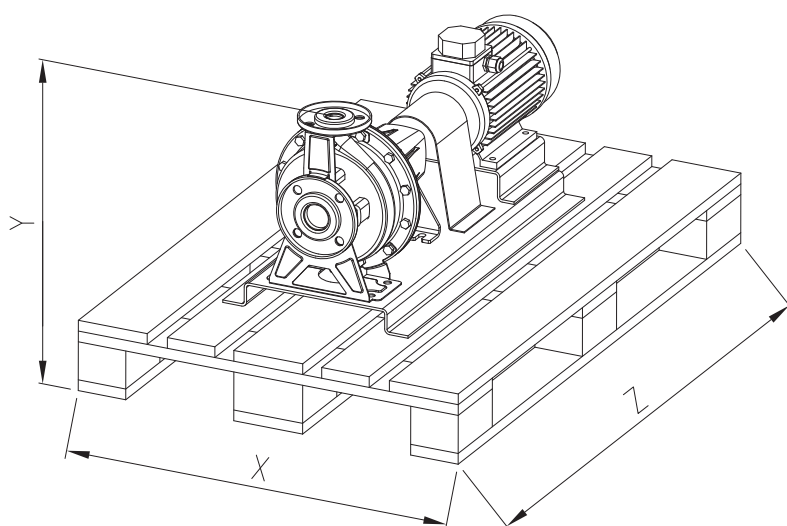
| Pump type       | Packing [mm] |     |      | Weight | Pack Type |
|-----------------|--------------|-----|------|--------|-----------|
|                 | X            | Y   | Z    | Kgf    |           |
| 32-125/1.1      | 450          | 250 | 300  | 36,3   | 1         |
| 32-160/1.5      | 350          | 488 | 580  | 35.9   | 2         |
| 32-160/2.2      |              |     |      | 51     |           |
| (**) 32-200/3.0 | 370          | 538 | 680  | 51.9   |           |
| 32-200/3.0      | 350          | 498 | 700  | 51.9   |           |
| 32-200/4.0      |              |     |      | 74.3   |           |
| 32-200/5.5      |              |     |      | 82.1   |           |
| 32-200/7.5      |              |     |      | 67     |           |
| 40-125/1.5      | 350          | 488 | 580  | 33.3   |           |
| 40-125/2.2      |              |     |      | 45.4   |           |
| 40-160/3.0      | 350          | 498 | 700  | 49     |           |
| 40-160/4.0      |              |     |      | 76.4   |           |
| 40-200/5.5      |              |     |      | 84.2   |           |
| 40-200/7.5      |              |     |      | 116    |           |
| 40-200/11       | 390          | 598 | 970  | 146.3  |           |
| 50-125/2.2      | 330          | 493 | 680  | 37.8   |           |
| 50-125/3.0      | 350          | 498 | 700  | 49.6   |           |
| 50-125/4.0      |              |     |      | 47.6   |           |
| 50-160/5.5      |              |     |      | 84     |           |
| 50-160/7.5      |              |     |      | 95.7   |           |
| 50-200/9.2      | 390          | 598 | 880  | 116    |           |
| 50-200/11       |              |     |      | 139.9  |           |
| 50-200/15       |              |     |      | 172.9  |           |
| 65-125/4.0      | 350          | 498 | 700  | 69     |           |
| 65-125/5.5      |              |     |      | 77.4   |           |
| 65-125/7.5      |              |     |      | 85     |           |
| 65-160/7.5      |              |     |      | 92     |           |
| 65-160/9.2      | 390          | 598 | 880  | 103    |           |
| 65-160/11       |              |     | 970  | 107.9  |           |
| 65-160/15       |              |     | 880  | 138    |           |
| 65-200/15       |              |     | 880  | 147.6  |           |
| 65-200/18.5     | 500          | 727 | 1100 | 970    |           |
| 65-200/22       |              |     |      | 166.5  |           |
| 65-250/30       |              |     |      | 235    |           |
| 65-250/37       | 480          | 722 | 1080 | 339    |           |
| 80-160/11       | 370          | 597 | 860  | 141    |           |
| 80-160/15R      |              |     |      | 156.9  |           |
| 80-160/15       |              |     |      | 163    |           |
| 80-160/18.5     |              |     |      | 168.6  |           |
| 80-200/22       | 480          | 593 | 940  | 225.5  |           |
| 80-200/30       |              | 722 | 1080 | 284    |           |
| 80-200/37       | 344          |     |      |        |           |
| 80-250/37       | 354          |     |      |        |           |
| 80-250/45       | 429          |     |      |        |           |
| 80-250/55       | 580          | 822 | 1380 | 517    |           |

(\*\*) Only for "Z" version



## PACKING 3(.)P

| Pump type   | Packing [mm] |     |     | Weight<br>Kgf |
|-------------|--------------|-----|-----|---------------|
|             | Z            | X   | Y   |               |
| 32-125/1.1  | 1200         | 800 | 394 | 46.7          |
| 32-160/1.5  |              |     | 434 | 52.3          |
| 32-160/2.2  |              |     |     | 53.5          |
| 32-200/3.0  |              |     |     | 71.5          |
| 32-200/4.0  |              |     |     | 75.1          |
| 32-200/5.5  |              |     | 482 | 97            |
| 32-200/7.5  |              |     |     | 112.2         |
| 40-125/1.5  |              |     | 394 | 49.8          |
| 40-125/2.2  |              |     |     | 51            |
| 40-160/3.0  |              |     | 434 | 81            |
| 40-160/4.0  |              |     |     | 67.6          |
| 40-200/5.5  |              |     |     | 98            |
| 40-200/7.5  |              |     | 482 | 106.9         |
| 40-200/11   |              |     |     | 127.8         |
| 50-125/2.2  |              |     |     | 75            |
| 50-125/3.0  |              |     | 434 | 82.5          |
| 50-125/4.0  |              |     |     | 84.6          |
| 50-160/5.5  |              |     | 482 | 98            |
| 50-160/7.5  |              |     |     | 106.9         |
| 50-200/9.2  |              |     |     | 111           |
| 50-200/11   |              |     | 502 | 128.3         |
| 50-200/15   |              |     |     | 135.4         |
| 65-125/4.0  |              |     |     | 85.1          |
| 65-125/5.5  |              |     | 482 | 99            |
| 65-125/7.5  |              |     |     | 109.4         |
| 65-160/7.5  |              |     |     | 115.4         |
| 65-160/9.2  |              |     | 502 | 118           |
| 65-160/11   |              |     |     | 124.8         |
| 65-160/15   |              |     |     | 129           |
| 65-200/15   |              |     |     | 137           |
| 65-200/18.5 |              |     | 547 | 135.2         |
| 65-200/22   |              |     |     | 189           |
| 65-250/30   |              |     |     | 354           |
| 65-250/37   |              |     | 685 | 373           |
| 80-160/11   |              |     |     | 174.8         |
| 80-160/15R  |              |     |     | 186           |
| 80-160/15   |              |     | 593 | 186           |
| 80-160/18.5 |              |     |     | 181.2         |
| 80-200/22   |              |     | 633 | 259           |
| 80-200/30   |              |     |     | 356           |
| 80-200/37   |              |     | 685 | 365           |
| 80-250/37   |              |     |     | 377           |
| 80-250/45   |              |     | 745 | 440           |
| 80-250/55   |              |     | 811 | 528           |



## TECHNICAL DATA

50Hz

Rev.AL

## MOTOR DATA 3(.)M

| Pump type          | Power |      | Efficiency  | Capacitor |     | Efficiency (% load) and power factor |      |      |       | Input | Full load current |       | Locked rotor current |       |
|--------------------|-------|------|-------------|-----------|-----|--------------------------------------|------|------|-------|-------|-------------------|-------|----------------------|-------|
|                    | [kW]  | [HP] |             | [μF]      | [V] | η %                                  |      |      | cos-φ |       | [A]               |       | [A]                  |       |
| Single Phase       |       |      | [IE2 / IE3] |           |     | 50%                                  | 75%  | 100% |       | [kW]  | 110 V             | 230 V | 110 V                | 230 V |
| 3(.)M 32-125/1.1 M | 1,1   | 1,5  | IE2         | 50        | 450 | 66,5                                 | 75,5 | 80,9 | 0,96  | 1,47  | -                 | 6,7   | -                    | 46,4  |
| 3(.)M 32-160/1.5 M | 1,5   | 2,0  | IE2         | 50        | 450 | 72,4                                 | 79,2 | 81,4 | 0,96  | 1,94  | -                 | 8,7   | -                    | 54,0  |
| 3(.)M 32-160/2.2 M | 2,2   | 3,0  | IE2         | 55        | 450 | 76,5                                 | 81,5 | 83,8 | 0,95  | 2,72  | -                 | 12,3  | -                    | 73,0  |
| 3(.)M 40-125/1,5 M | 1,5   | 2,0  | IE2         | 50        | 450 | 72,4                                 | 79,2 | 81,4 | 0,96  | 1,94  | -                 | 8,7   | -                    | 54,0  |
| 3(.)M 40-125/2.2 M | 2,2   | 3,0  | IE2         | 55        | 450 | 76,5                                 | 81,5 | 83,8 | 0,95  | 2,72  | -                 | 12,3  | -                    | 73,0  |
| 3(.)M 50-125/2.2 M | 2,2   | 3,0  | IE2         | 55        | 450 | 76,5                                 | 81,5 | 83,8 | 0,95  | 2,72  | -                 | 12,3  | -                    | 73,0  |

| Pump type            |      | Power [HP] | Efficiency | Efficiency (% load) |      |      | cos phi | Input kW | Full load current |             |       | Locked rotor current |             |       |
|----------------------|------|------------|------------|---------------------|------|------|---------|----------|-------------------|-------------|-------|----------------------|-------------|-------|
|                      |      |            |            |                     |      |      |         |          | [A]               |             |       | [A]                  |             |       |
| kW                   |      |            |            | n%                  |      |      |         |          | %                 | Three Phase |       |                      | Three Phase |       |
|                      |      |            |            | 50%                 | 75%  | 100% | 100%    | 230 V    | 400 V             | 690 V       | 230 V | 400 V                | 690 V       |       |
| 3(.JM(Z) 32-125/1.1  | 1,1  | 1,5        | IE3        | 83,5                | 84,3 | 84,6 | 0,8     | 1,77     | 5,8               | 3,3         | -     | 47,4                 | 27,4        | -     |
| 3(.JM(Z) 32-160/1.5  | 1,5  | 2,0        | IE3        | 83,5                | 84,3 | 84,6 | 0,8     | 1,77     | 5,8               | 3,3         | -     | 47,4                 | 27,4        | -     |
| 3(.JM(Z) 32-160/2.2  | 2,2  | 3,0        | IE3        | 86,2                | 87,0 | 86,0 | 0,8     | 2,55     | 8,2               | 4,7         | -     | 66,6                 | 38,4        | -     |
| 3(.JM(Z) 32-200/3.0  | 3,0  | 4,0        | IE3        | 85,9                | 87,5 | 87,1 | 0,8     | 3,44     | 11,1              | 6,4         | -     | 90,0                 | 52,0        | -     |
| 3(.JM(Z) 32-200/4.0  | 4,0  | 5,5        | IE3        | 85,8                | 88,3 | 88,4 | 0,8     | 4,52     | 15,1              | 8,7         | -     | 131,8                | 76,1        | -     |
| 3(.JM(Z) 32-200/5.5  | 5,5  | 7,5        | IE3        | 89,2                | 90,6 | 90,4 | 0,9     | 6,09     | -                 | 10,6        | 6,1   | -                    | 115,3       | 67,0  |
| 3(.JM(Z) 32-200/7.5  | 7,5  | 10,0       | IE3        | 89,0                | 90,7 | 90,8 | 0,9     | 8,26     | -                 | 13,6        | 7,9   | -                    | 144,0       | 83,0  |
| 3(.JM(Z) 40-125/1.5  | 1,5  | 2,0        | IE3        | 83,5                | 84,3 | 84,6 | 0,8     | 1,77     | 5,8               | 3,3         | -     | 47,4                 | 27,4        | -     |
| 3(.JM(Z) 40-125/2.2  | 2,2  | 3,0        | IE3        | 86,2                | 87,0 | 86,0 | 0,8     | 2,55     | 8,2               | 4,7         | -     | 66,6                 | 38,4        | -     |
| 3(.JM(Z) 40-160/3.0  | 3,0  | 4,0        | IE3        | 85,9                | 87,5 | 87,1 | 0,8     | 3,44     | 11,1              | 6,4         | -     | 90,0                 | 52,0        | -     |
| 3(.JM(Z) 40-160/4.0  | 4,0  | 5,5        | IE3        | 85,8                | 88,3 | 88,4 | 0,8     | 4,52     | 15,1              | 8,7         | -     | 131,8                | 76,1        | -     |
| 3(.JM(Z) 40-200/5.5  | 5,5  | 7,5        | IE3        | 89,2                | 90,6 | 90,4 | 0,9     | 6,09     | -                 | 10,6        | 6,1   | -                    | 115,3       | 67,0  |
| 3(.JM(Z) 40-200/7.5  | 7,5  | 10,0       | IE3        | 89,0                | 90,7 | 90,8 | 0,9     | 8,26     | -                 | 13,6        | 7,9   | -                    | 144,0       | 83,0  |
| 3(.JM(Z) 40-200/11   | 11,0 | 15,0       | IE3        | 90,4                | 91,2 | 91,8 | 0,8     | 11,98    | -                 | 21,3        | 12,3  | -                    | 184,0       | 107,0 |
| 3(.JM(Z) 50-125/2.2  | 2,2  | 3,0        | IE3        | 86,2                | 87,0 | 86,0 | 0,8     | 2,55     | 8,2               | 4,7         | -     | 66,6                 | 38,4        | -     |
| 3(.JM(Z) 50-125/3.0  | 3,0  | 4,0        | IE3        | 85,9                | 87,5 | 87,1 | 0,8     | 3,62     | 11,1              | 6,4         | -     | 90,0                 | 52,0        | -     |
| 3(.JM(Z) 50-125/4.0  | 4,0  | 5,5        | IE3        | 85,8                | 88,3 | 88,4 | 0,8     | 4,52     | 15,1              | 8,7         | -     | 131,8                | 76,1        | -     |
| 3(.JM(Z) 50-160/5.5  | 5,5  | 7,5        | IE3        | 89,2                | 90,6 | 90,4 | 0,9     | 6,09     | -                 | 10,6        | 6,1   | -                    | 115,3       | 67,0  |
| 3(.JM(Z) 50-160/7.5  | 7,5  | 10,0       | IE3        | 89,0                | 90,7 | 90,8 | 0,9     | 8,26     | -                 | 13,6        | 7,9   | -                    | 144,0       | 83,0  |
| 3(.JM(Z) 50-200/9.2  | 9,2  | 12,5       | IE3        | 90,1                | 90,8 | 90,9 | 0,8     | 10,12    | -                 | 17,2        | 10,0  | -                    | 166,0       | 96,0  |
| 3(.JM(Z) 50-200/11   | 11,0 | 15,0       | IE3        | 90,4                | 91,2 | 91,8 | 0,8     | 11,98    | -                 | 21,3        | 12,3  | -                    | 184,0       | 107,0 |
| 3(.JM(Z) 50-200/15   | 15,0 | 20,0       | IE3        | 91,2                | 92,0 | 91,9 | 0,9     | 16,32    | -                 | 27,7        | 17,3  | -                    | 225,0       | 130,0 |
| 3(.JM(Z) 65-125/4    | 4,0  | 5,5        | IE3        | 85,8                | 88,3 | 88,4 | 0,8     | 4,52     | 15,1              | 8,7         | -     | 131,8                | 76,1        | -     |
| 3(.JM(Z) 65-125/5.5  | 5,5  | 7,5        | IE3        | 89,2                | 90,6 | 90,4 | 0,9     | 6,09     | -                 | 10,6        | 6,1   | -                    | 115,3       | 67,0  |
| 3(.JM(Z) 65-125/7.5  | 7,5  | 10,0       | IE3        | 89,0                | 90,7 | 90,8 | 0,9     | 8,26     | -                 | 13,6        | 7,9   | -                    | 144,0       | 83,0  |
| 3(.JM(Z) 65-160/7.5  | 7,5  | 10,0       | IE3        | 89,0                | 90,7 | 90,8 | 0,9     | 8,26     | -                 | 13,6        | 7,9   | -                    | 144,0       | 83,0  |
| 3(.JM(Z) 65-160/9.2  | 9,2  | 12,5       | IE3        | 90,1                | 90,8 | 90,9 | 0,8     | 10,12    | -                 | 17,2        | 10,0  | -                    | 166,0       | 96,0  |
| 3(.JM(Z) 65-160/11   | 11,0 | 15,0       | IE3        | 90,4                | 91,2 | 91,8 | 0,8     | 11,98    | -                 | 21,3        | 12,3  | -                    | 184,0       | 107,0 |
| 3(.JM(Z) 65-160/15   | 15,0 | 20,0       | IE3        | 91,2                | 92,0 | 91,9 | 0,9     | 16,32    | -                 | 27,7        | 17,3  | -                    | 225,0       | 130,0 |
| 3(.JM(Z) 65-200/15   | 15,0 | 20,0       | IE3        | 91,2                | 92,0 | 91,9 | 0,9     | 16,32    | -                 | 27,7        | 17,3  | -                    | 225,0       | 130,0 |
| 3(.JM(Z) 65-200/18.5 | 18,5 | 25,0       | IE3        | 91,6                | 93,0 | 92,6 | 0,8     | 19,98    | -                 | 35,0        | 20,3  | -                    | 328,0       | 190,0 |
| 3(.JM(Z) 65-200/22   | 22,0 | 30,0       | IE3        | 92,0                | 93,1 | 93,2 | 0,9     | 23,58    | -                 | 39,7        | 23,6  | -                    | 391,0       | 227,0 |
| 3LM 80-160/11        | 11,0 | 15,0       | IE3        | 90,4                | 91,2 | 91,8 | 0,8     | 11,98    | -                 | 21,3        | 12,3  | -                    | 184,0       | 107,0 |
| 3LM 80-160/15R       | 15,0 | 20,0       | IE3        | 91,2                | 92,0 | 91,9 | 0,9     | 16,32    | -                 | 27,7        | 17,3  | -                    | 225,0       | 130,0 |
| 3LM 80-160/15        | 15,0 | 20,0       | IE3        | 91,2                | 92,0 | 91,9 | 0,9     | 16,32    | -                 | 27,7        | 17,3  | -                    | 225,0       | 130,0 |
| 3LM 80-160/18.5      | 18,5 | 25,0       | IE3        | 91,6                | 93,0 | 92,6 | 0,8     | 19,98    | -                 | 35,0        | 20,3  | -                    | 328,0       | 190,0 |

## MOTOR DATA 3(.)S-3(.)P

| Pump type            |                   | Motor      |       |      | Efficiency | Input [kW] | Efficiency (% load) and power-factor |      |      |      | Full load current |       |       | Locked rotor current |       |       |
|----------------------|-------------------|------------|-------|------|------------|------------|--------------------------------------|------|------|------|-------------------|-------|-------|----------------------|-------|-------|
|                      |                   | Motor Size | Power |      |            |            | cos-φ                                | [A]  |      |      | [A]               |       |       |                      |       |       |
|                      |                   |            | [kW]  | [HP] |            |            |                                      | η %  | 50%  | 75%  | 100%              | 230 V | 400 V | 690 V                | 230 V | 400 V |
| 3(.)S(Z) 32-125/1.1  | 3(.)P 32-125/1.1  | 80         | 1.1   | 1.5  | IE3        | 1.26       | 78.7                                 | 81.7 | 82.7 | 0.76 | 4.2               | 2.4   | -     | 38.7                 | 22.3  | -     |
| 3(.)S(Z) 32-160/1.5  | 3(.)P 32-160/1.5  | 90S        | 1.5   | 2    | IE3        | 1.77       | 83.2                                 | 84.8 | 84.2 | 0.85 | 5.2               | 3.0   | -     | 43.6                 | 25.2  | -     |
| 3(.)S(Z) 32-160/2.2  | 3(.)P 32-160/2.2  | 90L        | 2.2   | 3    | IE3        | 2.61       | 85.0                                 | 86.2 | 86.5 | 0.82 | 8.0               | 4.6   | -     | 73.3                 | 42.3  | -     |
| 3(.)S(Z) 32-200/3.0  | 3(.)P 32-200/3.0  | 100L       | 3     | 4    | IE3        | 3.45       | 82.3                                 | 85.8 | 87.1 | 0.89 | 9.7               | 5.6   | -     | 85.4                 | 49.3  | -     |
| 3(.)S(Z) 32-200/4.0  | 3(.)P 32-200/4.0  | 112M       | 4     | 5.5  | IE3        | 4.54       | 85.4                                 | 87.2 | 88.1 | 0.83 | 13.9              | 8.0   | -     | 151.5                | 87.2  | -     |
| 3(.)S(Z) 32-200/5.5  | 3(.)P 32-200/5.5  | 132S       | 5.5   | 7.5  | IE3        | 6.24       | 88.0                                 | 88.5 | 89.2 | 0.90 | -                 | 10.0  | 5.8   | -                    | 89.0  | 51.4  |
| 3(.)S(Z) 32-200/7.5  | 3(.)P 32-200/7.5  |            | 7.5   | 10   | IE3        | 8.35       | 88.6                                 | 89.2 | 90.1 | 0.92 | -                 | 13.1  | 7.6   | -                    | 116.6 | 67.3  |
| 3(.)S(Z) 40-125/1.5  | 3(.)P 40-125/1.5  | 90S        | 1.5   | 2    | IE3        | 1.77       | 83.2                                 | 84.8 | 84.2 | 0.85 | 5.2               | 3.0   | -     | 43.6                 | 25.2  | -     |
| 3(.)S(Z) 40-125/2.2  | 3(.)P 40-125/2.2  | 90L        | 2.2   | 3    | IE3        | 2.61       | 85.0                                 | 86.2 | 86.5 | 0.82 | 8.0               | 4.6   | -     | 73.3                 | 42.3  | -     |
| 3(.)S(Z) 40-160/3.0  | 3(.)P 40-160/3.0  | 100L       | 3     | 4    | IE3        | 3.45       | 82.3                                 | 85.8 | 87.1 | 0.89 | 9.7               | 5.6   | -     | 85.4                 | 49.3  | -     |
| 3(.)S(Z) 40-160/4.0  | 3(.)P 40-160/4.0  | 112M       | 4     | 5.5  | IE3        | 4.54       | 85.4                                 | 87.2 | 88.1 | 0.83 | 13.9              | 8.0   | -     | 151.5                | 87.2  | -     |
| 3(.)S(Z) 40-200/5.5  | 3(.)P 40-200/5.5  | 132M       | 5.5   | 7.5  | IE3        | 6.24       | 88.0                                 | 88.5 | 89.2 | 0.90 | -                 | 10.0  | 5.8   | -                    | 89.0  | 51.4  |
| 3(.)S(Z) 40-200/7.5  | 3(.)P 40-200/7.5  |            | 7.5   | 10   | IE3        | 8.35       | 88.6                                 | 89.2 | 90.1 | 0.92 | -                 | 13.1  | 7.6   | -                    | 116.6 | 67.3  |
| 3(.)S(Z) 40-200/11   | 3(.)P 40-200/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                 | 89.8 | 91.2 | 0.89 | -                 | 19.7  | 11.4  | -                    | 179.3 | 103.5 |
| 3(.)S(Z) 50-125/2.2  | 3(.)P 50-125/2.2  | 90L        | 2.2   | 3    | IE3        | 2.61       | 85.0                                 | 86.2 | 86.5 | 0.82 | 8.0               | 4.6   | -     | 73.3                 | 42.3  | -     |
| 3(.)S(Z) 50-125/3.0  | 3(.)P 50-125/3.0  | 100L       | 3     | 4    | IE3        | 3.45       | 82.3                                 | 85.8 | 87.1 | 0.89 | 9.7               | 5.6   | -     | 85.4                 | 49.3  | -     |
| 3(.)S(Z) 50-125/4.0  | 3(.)P 50-125/4.0  | 112M       | 4     | 5.5  | IE3        | 4.54       | 85.4                                 | 87.2 | 88.1 | 0.83 | 13.9              | 8.0   | -     | 151.5                | 87.2  | -     |
| 3(.)S(Z) 50-160/5.5  | 3(.)P 50-160/5.5  | 132S       | 5.5   | 7.5  | IE3        | 6.24       | 88.0                                 | 88.5 | 89.2 | 0.90 | -                 | 10.0  | 5.8   | -                    | 89.0  | 51.4  |
| 3(.)S(Z) 50-160/7.5  | 3(.)P 50-160/7.5  | 132M       | 7.5   | 10   | IE3        | 8.35       | 88.6                                 | 89.2 | 90.1 | 0.92 | -                 | 13.1  | 7.6   | -                    | 116.6 | 67.3  |
| 3(.)S(Z) 50-200/9.2  | 3(.)P 50-200/9.2  |            | 9.2   | 12.5 | IE3        | 10.17      | 88.6                                 | 89.8 | 90.7 | 0.89 | -                 | 16.5  | 9.5   | -                    | 166.7 | 96.2  |
| 3(.)S(Z) 50-200/11   | 3(.)P 50-200/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                 | 89.8 | 91.2 | 0.89 | -                 | 19.7  | 11.4  | -                    | 179.3 | 103.5 |
| 3(.)S(Z) 50-200/15   | 3(.)P 50-200/15   |            | 15    | 20   | IE3        | 16.46      | 91.0                                 | 91.3 | 91.9 | 0.89 | -                 | 26.7  | 15.4  | -                    | 259.0 | 149.5 |
| 3(.)S(Z) 65-125/4    | 3(.)P 65-125/4    | 112M       | 4     | 5.5  | IE3        | 4.54       | 85.4                                 | 87.2 | 88.1 | 0.83 | 13.9              | 8.0   | -     | 151.5                | 87.2  | -     |
| 3(.)S(Z) 65-125/5.5  | 3(.)P 65-125/5.5  | 132S       | 5.5   | 7.5  | IE3        | 6.24       | 88.0                                 | 88.5 | 89.2 | 0.90 | -                 | 10.0  | 5.8   | -                    | 89.0  | 51.4  |
| 3(.)S(Z) 65-125/7.5  | 3(.)P 65-125/7.5  |            | 7.5   | 10   | IE3        | 8.35       | 88.6                                 | 89.2 | 90.1 | 0.92 | -                 | 13.1  | 7.6   | -                    | 116.6 | 67.3  |
| 3(.)S(Z) 65-160/7.5  | 3(.)P 65-160/7.5  | 132M       | 7.5   | 10   | IE3        | 8.35       | 88.6                                 | 89.2 | 90.1 | 0.92 | -                 | 13.1  | 7.6   | -                    | 116.6 | 67.3  |
| 3(.)S(Z) 65-160/9.2  | 3(.)P 65-160/9.2  |            | 9.2   | 12.5 | IE3        | 10.17      | 88.6                                 | 89.8 | 90.7 | 0.89 | -                 | 16.5  | 9.5   | -                    | 166.7 | 96.2  |
| 3(.)S(Z) 65-160/11   | 3(.)P 65-160/11   | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                 | 89.8 | 91.2 | 0.89 | -                 | 19.7  | 11.4  | -                    | 179.3 | 103.5 |
| 3(.)S(Z) 65-160/15   | 3(.)P 65-160/15   |            | 15    | 20   | IE3        | 16.46      | 91.0                                 | 91.3 | 91.9 | 0.89 | -                 | 26.7  | 15.4  | -                    | 259.0 | 149.5 |
| 3(.)S(Z) 65-200/15   | 3(.)P 65-200/15   | 160L       | 15    | 20   | IE3        | 16.46      | 91.0                                 | 91.3 | 91.9 | 0.89 | -                 | 26.7  | 15.4  | -                    | 259.0 | 149.5 |
| 3(.)S(Z) 65-200/18.5 | 3(.)P 65-200/18.5 |            | 18.5  | 25   | IE3        | 20.12      | 91.6                                 | 92.8 | 92.4 | 0.88 | -                 | 33.0  | 19.1  | -                    | 353.1 | 203.9 |
| 3(.)S(Z) 65-200/22   | 3(.)P 65-200/22   | 180        | 22    | 30   | IE3        | 23.73      | 90.5                                 | 92.7 | 92.7 | 0.89 | -                 | 37.5  | 21.7  | -                    | 307.5 | 178.0 |
| 3LS 65-250/30        | 3LP 65-250/30     | 200        | 30    | 40   | IE3        | 32.15      | 91.7                                 | 93.3 | 93.3 | 0.89 | -                 | 52.1  | 30.2  | -                    | 380.0 | 220.5 |
| 3LS 65-250/37        | 3LP 65-250/37     |            | 37    | 50   | IE3        | 39.49      | 91.9                                 | 93.7 | 93.7 | 0.89 | -                 | 64.0  | 36.9  | -                    | 467.0 | 269.5 |
| 3LS 80-160/11        | 3LP 80-160/11     | 160M       | 11    | 15   | IE3        | 12.15      | 87.4                                 | 89.8 | 91.2 | 0.89 | -                 | 19.7  | 11.4  | -                    | 179.3 | 103.5 |
| 3LS 80-160/15R       | 3LP 80-160/15R    |            | 15    | 20   | IE3        | 16.46      | 91.0                                 | 91.3 | 91.9 | 0.89 | -                 | 26.7  | 15.4  | -                    | 259.0 | 149.5 |
| 3LS 80-160/15        | 3LP 80-160/15     | 160L       | 15    | 20   | IE3        | 16.46      | 91.0                                 | 91.3 | 91.9 | 0.89 | -                 | 26.7  | 15.4  | -                    | 259.0 | 149.5 |
| 3LS 80-160/18.5      | 3LP 80-160/18.5   |            | 18.5  | 25   | IE3        | 20.12      | 91.6                                 | 92.8 | 92.4 | 0.88 | -                 | 33.0  | 19.1  | -                    | 353.1 | 203.9 |
| 3LS 80-200/22        | 3LP 80-200/22     | 180        | 22    | 30   | IE3        | 23.73      | 90.5                                 | 92.7 | 92.7 | 0.89 | -                 | 37.5  | 21.7  | -                    | 307.5 | 178.0 |
| 3LS 80-200/30        | 3LP 80-200/30     | 200        | 30    | 40   | IE3        | 32.15      | 91.7                                 | 93.3 | 93.3 | 0.89 | -                 | 52.1  | 30.2  | -                    | 380.0 | 220.5 |
| 3LS 80-200/37        | 3LP 80-200/37     |            | 37    | 50   | IE3        | 39.49      | 91.9                                 | 93.7 | 93.7 | 0.89 | -                 | 64.0  | 36.9  | -                    | 467.0 | 269.5 |
| 3LS 80-250/37        | 3LP 80-250/37     | 225        | 37    | 50   | IE3        | 39.49      | 91.9                                 | 93.7 | 93.7 | 0.89 | -                 | 64.0  | 36.9  | -                    | 467.0 | 269.5 |
| 3LS 80-250/45        | 3LP 80-250/45     |            | 45    | 60   | IE3        | 47.87      | 92.3                                 | 94.2 | 94.0 | 0.90 | -                 | 76.8  | 44.3  | -                    | 591.0 | 341.0 |
| 3LS 80-250/55        | 3LP 80-250/55     | 250        | 55    | 75   | IE3        | 58.32      | 93.0                                 | 94.3 | 94.3 | 0.90 | -                 | 93.5  | 54.0  | -                    | 720.0 | 416.0 |

## NOISE DATA 3(.).M

| Pump type           |                       | L <sub>pA</sub> - dB(A) * |
|---------------------|-----------------------|---------------------------|
| Single Phase        | Three Phase           |                           |
| 3(.).M 32-125/1.1 M | 3(.).M(Z) 32-125/1.1  | <70                       |
| 3(.).M 32-160/1.5 M | 3(.).M(Z) 32-160/1.5  |                           |
| 3(.).M 32-160/2.2 M | 3(.).M(Z) 32-160/2.2  |                           |
| -                   | 3(.).M(Z) 32-200/3.0  | 71                        |
| -                   | 3(.).M(Z) 32-200/4.0  |                           |
| -                   | 3(.).M(Z) 32-200/5.5  | 75                        |
| -                   | 3(.).M(Z) 32-200/7.5  |                           |
| 3(.).M 40-125/1,5 M | 3(.).M(Z) 40-125/1.5  | <70                       |
| 3(.).M 40-125/2.2 M | 3(.).M(Z) 40-125/2.2  |                           |
| -                   | 3(.).M(Z) 40-160/3.0  |                           |
| -                   | 3(.).M(Z) 40-160/4.0  | 71                        |
| -                   | 3(.).M(Z) 40-200/5.5  |                           |
| -                   | 3(.).M(Z) 40-200/7.5  | 75                        |
| -                   | 3(.).M(Z) 40-200/11   |                           |
| -                   | 3(.).M(Z) 40-200/11   | 80                        |
| 3(.).M 50-125/2.2 M | 3(.).M(Z) 50-125/2.2  | <70                       |
| -                   | 3(.).M(Z) 50-125/3.0  |                           |
| -                   | 3(.).M(Z) 50-125/4.0  |                           |
| -                   | 3(.).M(Z) 50-160/5.5  | 71                        |
| -                   | 3(.).M(Z) 50-160/7.5  |                           |
| -                   | 3(.).M(Z) 50-200/9.2  | 75                        |
| -                   | 3(.).M(Z) 50-200/11   |                           |
| -                   | 3(.).M(Z) 50-200/15   | 80                        |
| -                   | 3(.).M(Z) 65-125/4    |                           |
| -                   | 3(.).M(Z) 65-125/5.5  | 71                        |
| -                   | 3(.).M(Z) 65-125/7.5  |                           |
| -                   | 3(.).M(Z) 65-160/7.5  | 75                        |
| -                   | 3(.).M(Z) 65-160/9.2  |                           |
| -                   | 3(.).M(Z) 65-160/11   | 80                        |
| -                   | 3(.).M(Z) 65-160/15   |                           |
| -                   | 3(.).M(Z) 65-200/15   | 83-82                     |
| -                   | 3(.).M(Z) 65-200/18.5 |                           |
| -                   | 3(.).M(Z) 65-200/22   | 83-82                     |
| -                   | 3LM 80-160/11         |                           |
| -                   | 3LM 80-160/15R        | 80                        |
| -                   | 3LM 80-160/15         |                           |
| -                   | 3LM 80-160/18.5       | 83-82                     |

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

Tolerance  $\pm 2.5$  dB.



## NOISE DATA 3(.)S-3(.)P

| Pump type            |                   | Motor Size | Power |      | L <sub>pA</sub> - dB(A) * |
|----------------------|-------------------|------------|-------|------|---------------------------|
|                      |                   |            | [kW]  | [HP] |                           |
| 3(.)S(Z) 32-125/1.1  | 3(.)P 32-125/1.1  | 80         | 1.1   | 1.5  | <70                       |
| 3(.)S(Z) 32-160/1.5  | 3(.)P 32-160/1.5  | 90S        | 1.5   | 2    |                           |
| 3(.)S(Z) 32-160/2.2  | 3(.)P 32-160/2.2  | 90L        | 2.2   | 3    |                           |
| 3(.)S(Z) 32-200/3.0  | 3(.)P 32-200/3.0  | 100L       | 3     | 4    |                           |
| 3(.)S(Z) 32-200/4.0  | 3(.)P 32-200/4.0  | 112M       | 4     | 5.5  | <70                       |
| 3(.)S(Z) 32-200/5.5  | 3(.)P 32-200/5.5  | 132S       | 5.5   | 7.5  | 72                        |
| 3(.)S(Z) 32-200/7.5  | 3(.)P 32-200/7.5  | 132S       | 7.5   | 10   |                           |
| 3(.)S(Z) 40-125/1.5  | 3(.)P 40-125/1.5  | 90S        | 1.5   | 2    | <70                       |
| 3(.)S(Z) 40-125/2.2  | 3(.)P 40-125/2.2  | 90L        | 2.2   | 3    |                           |
| 3(.)S(Z) 40-160/3.0  | 3(.)P 40-160/3.0  | 100L       | 3     | 4    |                           |
| 3(.)S(Z) 40-160/4.0  | 3(.)P 40-160/4.0  | 112M       | 4     | 5.5  | <70                       |
| 3(.)S(Z) 40-200/5.5  | 3(.)P 40-200/5.5  | 132S       | 5.5   | 7.5  | 72                        |
| 3(.)S(Z) 40-200/7.5  | 3(.)P 40-200/7.5  | 132S       | 7.5   | 10   |                           |
| 3(.)S(Z) 40-200/11   | 3(.)P 40-200/11   | 160M       | 11    | 15   | 74                        |
| 3(.)S(Z) 50-125/2.2  | 3(.)P 50-125/2.2  | 90L        | 2.2   | 3    | <70                       |
| 3(.)S(Z) 50-125/3.0  | 3(.)P 50-125/3.0  | 100L       | 3     | 4    |                           |
| 3(.)S(Z) 50-125/4.0  | 3(.)P 50-125/4.0  | 112M       | 4     | 5.5  | <70                       |
| 3(.)S(Z) 50-160/5.5  | 3(.)P 50-160/5.5  | 132S       | 5.5   | 7.5  | 72                        |
| 3(.)S(Z) 50-160/7.5  | 3(.)P 50-160/7.5  | 132S       | 7.5   | 10   |                           |
| 3(.)S(Z) 50-200/9.2  | 3(.)P 50-200/9.2  | 132M       | 9.2   | 12.5 |                           |
| 3(.)S(Z) 50-200/11   | 3(.)P 50-200/11   | 160M       | 11    | 15   | 74                        |
| 3(.)S(Z) 50-200/15   | 3(.)P 50-200/15   | 160M       | 15    | 20   |                           |
| 3(.)S(Z) 65-125/4    | 3(.)P 65-125/4    | 112M       | 4     | 5,5  | <70                       |
| 3(.)S(Z) 65-125/5.5  | 3(.)P 65-125/5.5  | 132S       | 5.5   | 7.5  | 72                        |
| 3(.)S(Z) 65-125/7.5  | 3(.)P 65-125/7.5  | 132S       | 7.5   | 10   |                           |
| 3(.)S(Z) 65-160/7.5  | 3(.)P 65-160/7.5  | 132S       |       |      |                           |
| 3(.)S(Z) 65-160/9.2  | 3(.)P 65-160/9.2  | 132M       | 9.2   | 12.5 |                           |
| 3(.)S(Z) 65-160/11   | 3(.)P 65-160/11   | 160M       | 11    | 15   | 74                        |
| 3(.)S(Z) 65-160/15   | 3(.)P 65-160/15   | 160M       | 15    | 20   |                           |
| 3(.)S(Z) 65-200/15   | 3(.)P 65-200/15   | 160M       |       |      |                           |
| 3(.)S(Z) 65-200/18.5 | 3(.)P 65-200/18.5 | 160L       | 18,5  | 25   |                           |
| 3(.)S(Z) 65-200/22   | 3(.)P 65-200/22   | 180        | 22    | 30   | 77                        |
| 3LS 65-250/30        | 3LP 65-250/30     | 200        | 30    | 40   | 78                        |
| 3LS 65-250/37        | 3LP 65-250/37     | 200        | 37    | 50   |                           |
| 3LS 80-160/11        | 3LP 80-160/11     | 160M       | 11    | 15   | 74                        |
| 3LS 80-160/15R       | 3LP 80-160/15R    | 160M       | 15    | 20   |                           |
| 3LS 80-160/15        | 3LP 80-160/15     | 160M       | 15    | 20   |                           |
| 3LS 80-160/18.5      | 3LP 80-160/18.5   | 160L       | 18,5  | 25   |                           |
| 3LS 80-200/22        | 3LP 80-200/22     | 180        | 22    | 30   | 77                        |
| 3LS 80-200/30        | 3LP 80-200/30     | 200        | 30    | 40   | 78                        |
| 3LS 80-200/37        | 3LP 80-200/37     | 200        | 37    | 50   |                           |
| 3LS 80-250/37        | 3LP 80-250/37     | 200        | 37    | 50   |                           |
| 3LS 80-250/45        | 3LP 80-250/45     | 225        | 45    | 60   | 80                        |
| 3LS 80-250/55        | 3LP 80-250/55     | 250        | 55    | 75   | 81                        |

\* 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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