

# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps



## Construction

Close-coupled centrifugal pumps; electric motor with extended shaft directly connected to the pump up to 15 kW, new bracket construction for standard motors (Stub-shaft construction) from 18,5 to 75 kW with integrated thrust bearing. Pump casing with axial suction and radial delivery on top, main dimensions and performance according to EN 733 with additional sizes for completion.

NM(S)4: version with pump casing and lantern bracket in cast iron.  
B-NM(S)4: version with pump casing and lantern bracket/casing cover in bronze. (the pumps are supplied fully painted).

## Connections

| Sizes                          | Connections                           |
|--------------------------------|---------------------------------------|
| NM4 25/...                     | Threaded ports ISO 228                |
| from NM4 32/.. to NMS4 150/400 | Flanges according to PN 10, EN 1092-2 |

## Counter-flanges (on request)

| Sizes                          | Flanges                              |
|--------------------------------|--------------------------------------|
| from NM4 32/.. to NM4 50/..    | Screwed flanges EN 1092-1, PN 16     |
| from NM4 32/.. to NMS4 150/400 | Flanges for welding EN 1092-1, PN 10 |

## Applications

- For clean liquids without abrasives, which are non-aggressive for the pump materials (contents of solids up to 0,2%).
- For water supply. - For heating, air conditioning, cooling and circulation plants. - For civil and industrial applications.
- When low noise operating is required. - For irrigation.

## Operating conditions

Liquid temperature from -10 °C to +90 °C.

Ambient temperature up to 40 °C.

Total suction lift up to 7 m.

Maximum permissible working pressure up to 10 bar.

Continuous duty.

## Motor

4-pole induction motor, 60 Hz ( $n \approx 1750$  rpm).

**NM4, NMS4:** three-phase 220/380 V, 380/660 V.

Insulation class F. Protection IP 54.(IP 55 for NMS4).

Motor suitable for operation with frequency converter from 1,1 kW.

Constructed in accordance with: EN 60034-1; EN 60034-30.

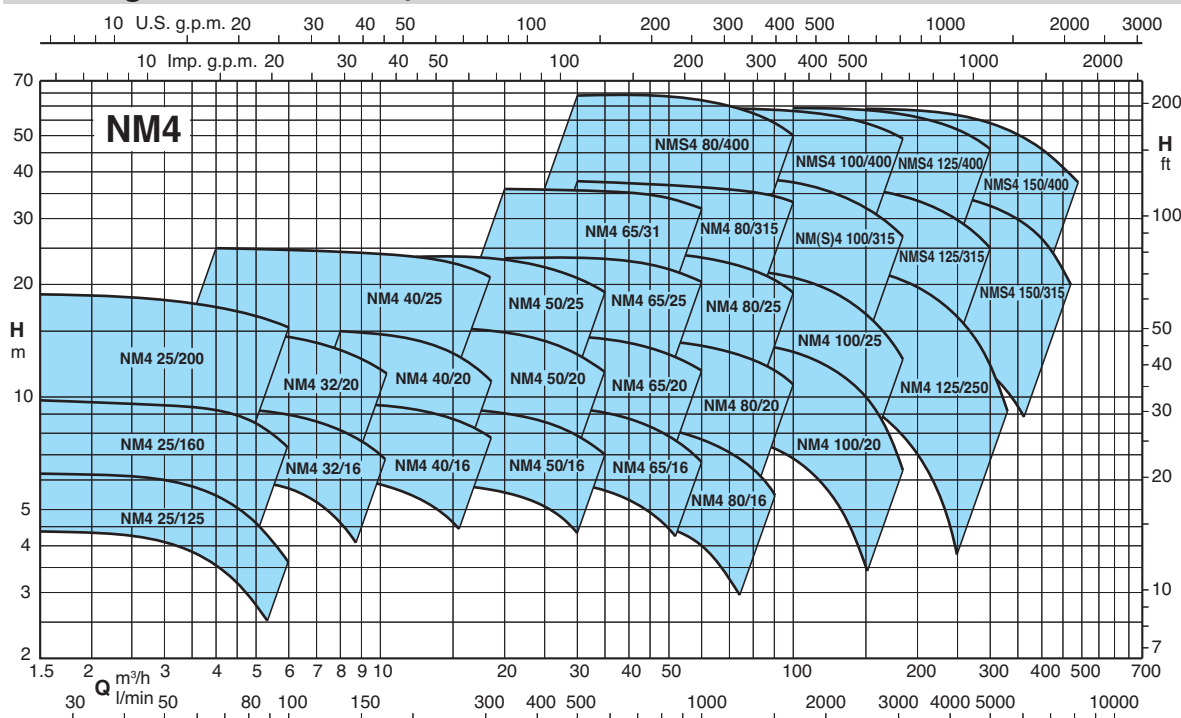
## Special features on request

- Other voltages. - Protection IP 55.
- Bronze impeller. - Special mechanical seal.
- Higher or lower liquid or ambient temperatures.
- Motor suitable for operation with frequency converter up to 0,75 kW.

## Materiali

| Components            | NM4, NMS4                                                    | B-NM4, B-NMS4             |
|-----------------------|--------------------------------------------------------------|---------------------------|
| Pump casing           | Cast iron                                                    | Bronze                    |
| Lantern bracket NM4   | GJL 200 EN 1561                                              | G-Cu Sn 10 EN 1982        |
| Casing cover for NMS4 |                                                              |                           |
| Lantern bracket NMS4  | Cast iron GJL 200 EN 1561                                    |                           |
| Impeller              | Cast iron GJL 200 EN 1561                                    | Bronze G-Cu Sn 10 EN 1982 |
|                       | Brass P-Cu Zn 40 Pb 2 UNI 5705                               |                           |
|                       | For NM4 25/125 - 25/160 - 25/200 - NM4 32/16 - 32/20 - 40/20 |                           |
| Shaft                 | AISI 303 up to 1,1 kW                                        | Cr Ni Mo steel            |
|                       | AISI 430 from 1,5 kW to 75 kW                                | AISI 316                  |
| Mechanical seal       | Carbon - Ceramic - NBR                                       |                           |
| Counter-flanges       | Steel Fe 430B UNI 7070                                       |                           |

## Coverage chart $n = 1750$ rpm



# NM4, NMS4 60 Hz

## Close Coupled Centrifugal Pumps with flanged connections



Performance  $n \approx 1750$  rpm

| B - NM4             | NM4              | P2   |      | Q<br>m³/h | 1     | 1,2  | 1,5  | 1,89 | 2,4  | 3    | 3,6  | 4,2  | 4,8  | 5,4  | 6    | 6,6  | 7,5  | 8,4  | 9,6  | 10,8 | 12   | 13,2 | 15  |
|---------------------|------------------|------|------|-----------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|                     |                  | kW   | HP   |           | l/min | 16   | 20   | 25   | 31,5 | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 110  | 125  | 140  | 160  | 180  | 200  | 220 |
|                     |                  |      |      |           |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|                     | NM4 25/12A-60/A  | 0,25 | 0,34 | H<br>m    | 6,25  | 6,2  | 6,1  | 6,1  | 6    | 5,7  | 5,4  | 5    | 4,6  | 4,1  | 3,6  |      |      |      |      |      |      |      |     |
| B- NM4 25/160BE-60  | NM4 25/160BE-60  | 0,37 | 0,5  |           | 7,95  | 7,9  | 7,85 | 7,8  | 7,7  | 7,5  | 7,2  | 6,9  | 6,5  | 5,8  | 5    |      |      |      |      |      |      |      |     |
| B- NM4 25/160AE-60  | NM4 25/160AE-60  | 0,37 | 0,5  |           | 9,9   | 9,9  | 9,8  | 9,75 | 9,7  | 9,4  | 9,3  | 9    | 8,5  | 8    | 7,2  | 6,5  |      |      |      |      |      |      |     |
| B- NM4 25/200C-60/A | NM4 25/200C-60/A | 0,37 | 0,5  |           | 11,8  | 11,8 | 11,8 | 11,7 | 11,6 | 11,5 | 11,3 | 11,1 | 10,9 | 10,5 | 10,1 | 9,7  | 8,8  | 7,7  | 5,9  | 3,7  |      |      |     |
| B- NM4 25/200B-60/A | NM4 25/200B-60/A | 0,55 | 0,75 |           | 15,4  | 15,4 | 15,3 | 15,3 | 15,2 | 15,1 | 14,9 | 14,8 | 14,5 | 14,3 | 14   | 13,7 | 13,1 | 12,3 | 11   | 9,2  | 6,8  |      |     |
| B- NM4 25/200A-60/B | NM4 25/200A-60/B | 0,75 | 1    |           | 19,1  | 19,1 | 19,1 | 19   | 18,9 | 18,8 | 18,7 | 18,6 | 18,4 | 18,2 | 18   | 17,7 | 17,2 | 16,6 | 15,6 | 14,4 | 12,8 | 10,3 |     |

| B - NM4           | NM4             | P <sub>2</sub> |      | Q<br>m³/h | 2,4   | 3    | 3,6  | 4,2  | 4,8  | 5,4  | 6    | 7,5  | 8,4  | 9,6  | 10,8 | 12   | 13,2 | 15   | 16,8 | 18,9 | 21   | 24   | 27   | 30   |     |
|-------------------|-----------------|----------------|------|-----------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|                   |                 | kW             | HP   |           | l/min | 40   | 50   | 60   | 70   | 80   | 90   | 100  | 125  | 140  | 160  | 180  | 200  | 220  | 250  | 280  | 315  | 350  | 400  | 450  | 500 |
|                   |                 |                |      |           |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| B-NM4 32/16B-60   | NM4 32/16BE-60  | 0,37           | 0,5  | H<br>m    | 7,6   | 7,6  | 7,5  | 7,4  | 7,4  | 7,3  | 7,1  | 6,6  | 6,1  | 5,3  | 4,4  |      |      |      |      |      |      |      |      |      |     |
| B-NM4 32/16A-60   | NM4 32/16AE-60  | 0,37           | 0,5  |           | 9,2   | 9,2  | 9,1  | 9,1  | 9    | 9    | 8,8  | 8,3  | 7,8  | 7,2  | 6,4  | 5,4* |      |      |      |      |      |      |      |      |     |
| B-NM4 32/20B-60   | NM4 32/20BE-60  | 0,55           | 0,75 |           | 13,1  | 13   | 12,9 | 12,8 | 12,6 | 12,4 | 12,2 | 11,4 | 10,8 | 9,8  | 8,7  | 7,3* | 5,7* |      |      |      |      |      |      |      |     |
| B-NM4 32/20A-60/A | NM4 32/20A-60/A | 0,75           | 1    |           | 14,9  | 14,8 | 14,7 | 14,6 | 14,5 | 14,3 | 14,1 | 13,6 | 13,2 | 12,4 | 11,4 | 10*  | 8,5* |      |      |      |      |      |      |      |     |
| B-NM4 40/16C-60   | NM4 40/16C-60/A | 0,37           | 0,5  |           |       |      |      |      |      | 6,75 | 6,75 | 6,65 | 6,53 | 6,35 | 6,15 | 5,9  | 5,53 | 4,9  | 4,2  | 3,2  |      |      |      |      |     |
| B-NM4 40/16B-60   | NM4 40/16B-60/A | 0,55           | 0,75 |           |       |      |      |      |      | 8,1  | 8,1  | 8    | 7,95 | 7,8  | 7,6  | 7,4  | 7,2  | 6,75 | 6,25 | 5,5  | 4,6  |      |      |      |     |
| B-NM4 40/16A-60/A | NM4 40/16A-60/B | 0,75           | 1    |           |       |      |      |      |      | 9,7  | 9,7  | 9,65 | 9,6  | 9,5  | 9,37 | 9,2  | 9    | 8,7  | 8,3  | 7,8  | 7    | 5,8  |      |      |     |
| B-NM4 40/20B-60/A | NM4 40/20B-60/A | 1,1            | 1,5  |           |       |      |      |      |      | 13,3 | 13,2 | 13,1 | 13   | 12,7 | 12,5 | 12   | 11,5 | 10,5 | 9,5  | 7,8  |      |      |      |      |     |
| B-NM4 40/20A-60/A | NM4 40/20A-60/A | 1,1            | 1,5  |           |       |      |      |      |      | 15,3 | 15,2 | 15,1 | 15   | 14,7 | 14,5 | 14   | 13,7 | 13   | 12,2 | 10,8 | 9,3  |      |      |      |     |
| B-NM4 40/25C-60/B | NM4 40/25C-60/B | 1,5            | 2    |           |       |      |      |      |      | 18,3 | 18,2 | 18,1 | 18   | 17,9 | 17,6 | 17,3 | 16,8 | 15,7 | 14,2 | 11,8 | 8,9  | 4,4  |      |      |     |
| B-NM4 40/25B-60/B | NM4 40/25B-60/B | 2,2            | 3    |           |       |      |      |      |      | 22,7 | 22,7 | 22,7 | 22,6 | 22,6 | 22,5 | 22,3 | 22,1 | 21,6 | 20,6 | 19,2 | 17,5 | 14,2 | 10,1 |      |     |
| B-NM4 40/25A-60/B | NM4 40/25A-60/B | 3              | 4    |           |       |      |      |      |      | 25,1 | 25   | 25   | 24,9 | 24,9 | 24,8 | 24,6 | 24,4 | 24   | 23,6 | 22,6 | 21,3 | 18,5 | 15   | 10,7 |     |

| B - NM4           | NM4             | P <sub>2</sub> |      | Q<br>m³/h | 10,8  | 12   | 13,2 | 15    | 16,8 | 18,9 | 21   | 24   | 27    | 30   | 33   | 37,8 | 42   | 48   | 54   | 60   | 66    | 75    | 84    |      |
|-------------------|-----------------|----------------|------|-----------|-------|------|------|-------|------|------|------|------|-------|------|------|------|------|------|------|------|-------|-------|-------|------|
|                   |                 | kW             | HP   |           | l/min | 180  | 200  | 220   | 250  | 280  | 315  | 350  | 400   | 450  | 500  | 550  | 630  | 700  | 800  | 900  | 1000  | 1100  | 1250  | 1400 |
|                   |                 |                |      |           |       |      |      |       |      |      |      |      |       |      |      |      |      |      |      |      |       |       |       |      |
| B-NM4 50/16B-60/A | NM4 50/16B-60/B | 1,1            | 1,5  | H<br>m    | 9     | 9    | 9    | 8,95  | 8,8  | 8,55 | 8,25 | 7,7  | 7     | 6,25 | 5,4  | 3,8* |      |      |      |      |       |       |       |      |
| B-NM4 50/16A-60/A | NM4 50/16A-60/B | 1,1            | 1,5  |           | 10,5  | 10,6 | 10,6 | 10,6  | 10,6 | 10,5 | 10,3 | 9,9  | 9,3   | 8,6  | 7,9  | 6,6* | 5,3* |      |      |      |       |       |       |      |
|                   | NM4 50/20C-60/B | 1,1            | 1,5  |           | 11,2  | 11,2 | 11,1 | 11    | 10,8 | 10,4 | 10   | 9,1  | 8     | 6,8  | 5,3  | 2,7  |      |      |      |      |       |       |       |      |
|                   | NM4 50/20B-60/B | 1,5            | 2    |           | 12,8  | 12,8 | 12,8 | 12,75 | 12,6 | 12,3 | 11,9 | 11,3 | 10,5  | 9,4  | 8,1  | 5,8  | 3,4  |      |      |      |       |       |       |      |
|                   | NM4 50/20A-60/B | 2,2            | 3    |           | 16,7  | 16,8 | 16,9 | 16,9  | 16,9 | 16,8 | 16,6 | 16,3 | 15,74 | 15,2 | 14,4 | 13   | 11,2 | 8,5  | 5,4  |      |       |       |       |      |
| B-NM4 50/25C-60/B | NM4 50/25C-60/B | 2,2            | 3    |           | 18,9  | 18,9 | 18,9 | 18,8  | 18,5 | 18,2 | 17,8 | 17,1 | 16,2  | 15,1 | 13,3 | 10,3 | 7,2* |      |      |      |       |       |       |      |
| B-NM4 50/25B-60/B | NM4 50/25B-60/B | 3              | 4    |           | 23,1  | 23,1 | 23,1 | 23    | 22,8 | 22,6 | 22,2 | 21,5 | 20,5  | 19,5 | 18,2 | 15,3 | 12*  |      |      |      |       |       |       |      |
| B-NM4 50/25A-60/B | NM4 50/25A-60/B | 4              | 5,5  |           | 24,1  | 24,1 | 24,1 | 24    | 23,8 | 23,6 | 23,2 | 22,6 | 21,9  | 21   | 19,7 | 17   | 14*  |      |      |      |       |       |       |      |
| B-NM4 65/16C-60/A | NM4 65/16C-60/A | 1,1            | 1,5  |           |       |      |      |       |      |      | 6,6  | 6,6  | 6,5   | 6,4  | 6,3  | 6    | 5,7  | 5,2  | 4,5  | 3,7  |       |       |       |      |
| B-NM4 65/16B-60/A | NM4 65/16B-60/A | 1,1            | 1,5  |           |       |      |      |       |      |      | 7,9  | 7,8  | 7,7   | 7,7  | 7,5  | 7,2  | 7    | 6,5  | 5,8  | 5    | 4,1*  |       |       |      |
| B-NM4 65/16A-60/A | NM4 65/16A-60/A | 1,5            | 2    |           |       |      |      |       |      |      | 9,3  | 9,3  | 9,2   | 9,2  | 9,1  | 8,9  | 8,6  | 8,1  | 7,5  | 6,8  | 6*    | 4,5*  |       |      |
|                   | NM4 65/20B-60/A | 2,2            | 3    |           |       |      |      |       |      |      | 12,5 | 12,4 | 12,3  | 12,2 | 12,1 | 11,7 | 11,4 | 10,8 | 10   | 9,2  | 8,3*  | 6,6*  |       |      |
|                   | NM4 65/20A-60/A | 3              | 4    |           |       |      |      |       |      |      | 14,5 | 14,4 | 14,3  | 14,2 | 14,1 | 13,9 | 13,6 | 13,1 | 12,5 | 11,8 | 11*   | 9,5*  | 8*    |      |
|                   | NM4 65/25B-60/A | 4              | 5,5  |           |       |      |      |       |      |      | 19   | 19   | 18,8  | 18,7 | 18,6 | 18,3 | 18   | 17,5 | 16,8 | 15,6 | 14,2* | 11,8* | 9*    |      |
|                   | NM4 65/25A-60/A | 5,5            | 7,5  |           |       |      |      |       |      |      | 23,2 | 23,1 | 23    | 23   | 22,8 | 22,6 | 22,4 | 21,8 | 21,2 | 20,4 | 19,2* | 17*   | 14*   |      |
|                   | NM4 65/31C-60/A | 5,5            | 7,5  |           |       |      |      |       |      |      | 27   | 27   | 26,5  | 26   | 26   | 25,5 | 25   | 24,5 | 23,5 | 22   | 20*   | 17*   | 13*   |      |
|                   | NM4 65/31B-60/A | 7,5            | 10   |           |       |      |      |       |      |      | 32   | 32   | 31,5  | 31   | 31   | 30,5 | 30   | 29,5 | 29   | 28   | 26,5* | 24*   | 20,5* |      |
|                   | NM4 65/31A-60/A | 9,2            | 12,5 |           |       |      |      |       |      |      | 36   | 36   | 35,5  | 35   | 35   | 34,5 | 34   | 33,5 | 33   | 32   | 31*   | 29*   | 26,5* |      |

| B-NMS4            | NM4              | P <sub>2</sub> |      | Q<br>m³/h | 30     | 33   | 37,8 | 42   | 48   | 54   | 60   | 66   | 75   | 84   | 96   | 108   | 120   | 132   | 150  | 168  | 180  | 192  | 210  |      |
|-------------------|------------------|----------------|------|-----------|--------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|------|------|
|                   |                  | kW             | HP   |           | l/min  | 500  | 550  | 630  | 700  | 800  | 900  | 1000 | 1100 | 1250 | 1400 | 1600  | 1800  | 2000  | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 |
|                   |                  |                |      |           | H<br>m |      |      |      |      |      |      |      |      |      |      |       |       |       |      |      |      |      |      |      |
|                   | NM4 80/16C-60/A  | 1,1            | 1,5  |           | 5,3    | 5,2  | 5,1  | 5    | 4,9  | 4,5  | 4,1  | 3,8  | 3    |      |      |       |       |       |      |      |      |      |      |      |
|                   | NM4 80/16B-60/A  | 1,5            | 2    |           | 6,6    | 6,5  | 6,4  | 6,3  | 6,1  | 5,9  | 5,5  | 5,2  | 4,6  | 3,7  |      |       |       |       |      |      |      |      |      |      |
|                   | NM4 80/16A-60/A  | 2,2            | 3    |           | 8,6    | 8,5  | 8,4  | 8,3  | 8,1  | 7,9  | 7,6  | 7,3  | 6,9  | 6,1  | 4,5  |       |       |       |      |      |      |      |      |      |
|                   | NM4 80/20C-60/A  | 2,2            | 3    |           | 10,9   | 10,8 | 10,7 | 10,6 | 10,5 | 10,3 | 10   | 9,7  | 9,1  | 8,2  | 6,7  |       |       |       |      |      |      |      |      |      |
|                   | NM4 80/20B-60/A  | 3              | 4    |           | 12,5   | 12,5 | 12,4 | 12,3 | 12,1 | 12   | 11,7 | 11,4 | 10,6 | 9,8  | 8,5  | 6,5*  |       |       |      |      |      |      |      |      |
|                   | NM4 80/20A-60/A  | 4              | 5,5  |           | 14,2   | 14,1 | 14   | 14   | 13,9 | 13,8 | 13,5 | 13,4 | 12,8 | 12   | 11   | 9,2*  | 7,4*  |       |      |      |      |      |      |      |
|                   | NM4 80/25C-60/A  | 4              | 5,5  |           | 17,4   | 17,3 | 17,1 | 17   | 16,6 | 16,1 | 15,8 | 15,2 | 14,1 | 13   | 11,3 | 9,5*  |       |       |      |      |      |      |      |      |
|                   | NM4 80/25B-60/A  | 5,5            | 7,5  |           | 20,8   | 20,8 | 20,7 | 20,7 | 20,5 | 20,1 | 19,8 | 19,4 | 18,3 | 17,3 | 15,7 | 13,8* | 11,5* |       |      |      |      |      |      |      |
|                   | NM4 80/25A-60/A  | 7,5            | 10   |           | 24,2   | 24,2 | 24,1 | 24   | 24   | 23,9 | 23,4 | 23   | 22   | 21,1 | 19,4 | 17,5* | 15,2* | 12,7* |      |      |      |      |      |      |
|                   | NM4 80/31C-60/A  | 9,2            | 12,5 |           | 28,5   | 28,5 | 28,5 | 28   | 27,5 | 27,5 | 27   | 27   | 26   | 25   | 23   | 21*   | 18*   |       |      |      |      |      |      |      |
| B-NMS4 80/315B-60 | NM4 80/315B-60/A | 11             | 15   |           | 32,5   | 32,5 | 32,5 | 32   | 32   | 31,5 | 31,5 | 31   | 30,5 | 29,5 | 28   | 25,5* | 23*   | 21*   |      |      |      |      |      |      |
| B-NMS4 80/315A-60 | NM4 80/315A-60/A | 15             | 20   |           | 37,5   | 37,5 | 37,5 | 37   | 37   | 36,5 | 36,5 | 36   | 35,5 | 35   | 33   | 31,5* | 29,5* | 27*   |      |      |      |      |      |      |
| B-NMS4 80/400C-60 | NMS4 80/400C-60  | 18,5           | 25   |           | 49,5   | 49,5 | 49   | 49   | 48   | 47   | 46   | 44   | 41   | 37,5 | 32   | 25*   |       |       |      |      |      |      |      |      |
| B-NMS4 80/400B-60 | NMS4 80/400B-60  | 22             | 30   |           | 56,5   | 56,5 | 56   | 55,5 | 55   | 54,5 | 53   | 52   | 49,5 | 47   | 41   | 35*   | 27*   |       |      |      |      |      |      |      |
| B-NMS4 80/400A-60 | NMS4 80/400A-60  | 30             | 40   |           | 63,5   | 63,5 | 63   | 63   | 62,5 | 62   | 61   | 60   | 58   | 55,5 | 52   | 46*   | 40*   | 33,5* |      |      |      |      |      |      |

# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps with flanged connections



## Performance $n \approx 1750$ rpm

| B-NMS4             | NM4               | P <sub>2</sub> |      | Q<br>m³/h<br>l/min | 48   | 54   | 60   | 66   | 75   | 84   | 96   | 108  | 120  | 132  | 150   | 168   | 180   | 192   | 210   | 240  | 270  | 300  | 330  |
|--------------------|-------------------|----------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|
|                    |                   | kW             | HP   |                    | 800  | 900  | 1000 | 1100 | 1250 | 1400 | 1600 | 1800 | 2000 | 2200 | 2500  | 2800  | 3000  | 3200  | 3500  | 4000 | 4500 | 5000 | 5500 |
|                    |                   |                |      |                    |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |      |      |      |      |
|                    | NM4 100/20C-60/A  | 3              | 4    | H<br>m             | 9,4  | 9,4  | 9,2  | 9,1  | 8,9  | 8,5  | 8    | 7,2  | 6,4  | 5,5  | 4*    |       |       |       |       |      |      |      |      |
|                    | NM4 100/20B-60/A  | 4              | 5,5  |                    | 11,7 | 11,7 | 11,6 | 11,5 | 11,4 | 11,2 | 10,8 | 10   | 9,2  | 8,3  | 6,5*  | 4,6*  |       |       |       |      |      |      |      |
|                    | NM4 100/20A-60/A  | 5,5            | 7,5  |                    | 14   | 14   | 13,9 | 13,9 | 13,8 | 13,7 | 13,3 | 12,7 | 12   | 11,3 | 9,8*  | 8,2*  | 7*    | 5,5*  |       |      |      |      |      |
|                    | NM4 100/25B-60/A  | 7,5            | 10   |                    | 19,4 | 19,4 | 19,3 | 19,2 | 19   | 18,6 | 18   | 17,4 | 16,5 | 15,5 | 13,8* | 11,5* | 10*   | 8,2*  | 5,5*  |      |      |      |      |
|                    | NM4 100/25A-60/A  | 9,2            | 12,5 |                    | 22,4 | 22,4 | 22,2 | 22,1 | 21,9 | 21,4 | 21   | 20,4 | 19,6 | 18,8 | 17*   | 15*   | 13,3* | 11,6* | 8,8*  |      |      |      |      |
| B-NMS4 100/315C-60 | NM4 100/315C-60/A | 11             | 15   |                    | 28   | 28   | 27,9 | 27,9 | 27,5 | 27   | 26   | 25   | 23,5 | 22   | 19,5* | 15,5* | 13*   | 10*   |       |      |      |      |      |
| B-NMS4 100/315B-60 | NM4 100/315B-60/A | 15             | 20   |                    | 32,5 | 32,5 | 32,4 | 32,3 | 32   | 31,5 | 31   | 30,5 | 29,5 | 28,5 | 26*   | 22,5* | 20*   | 17,5* | 13,5* |      |      |      |      |
| B-NMS4 100/315A-60 | NM4 100/315A-60   | 18,5           | 25   |                    | 38,5 | 38,5 | 38,3 | 38,3 | 38   | 37,9 | 37,5 | 37   | 36   | 35   | 32,5* | 30*   | 28*   | 26*   | 21*   |      |      |      |      |
| B-NMS4 100/400C-60 | NMS4 100/400C-60  | 22             | 30   |                    | 43   | 42,8 | 42,5 | 42,5 | 42   | 42   | 41   | 40   | 38,5 | 37   | 34*   | 30,5* | 28*   |       |       |      |      |      |      |
| B-NMS4 100/400B-60 | NMS4 100/400B-60  | 30             | 40   |                    | 51,5 | 51,3 | 51   | 50,8 | 50,5 | 50,3 | 50   | 49   | 48   | 46   | 44*   | 41*   | 39*   | 37*   | 33*   |      |      |      |      |
| B-NMS4 100/400A-60 | NMS4 100/400A-60  | 37             | 50   |                    | 59,5 | 59,3 | 59   | 58,8 | 58,5 | 58,3 | 58   | 57,7 | 57   | 56   | 53,5* | 51*   | 49*   | 47*   | 44*   |      |      |      |      |

3

| B-NMS4             | NM4               | P <sub>2</sub> |      | Q<br>m³/h<br>l/min | 84   | 96   | 108  | 120  | 132  | 150  | 168  | 180  | 192  | 210  | 240   | 270   | 300   | 330   | 360  | 390   | 420   | 450   | 480   |
|--------------------|-------------------|----------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|
|                    |                   | kW             | HP   |                    | 1400 | 1600 | 1800 | 2000 | 2200 | 2500 | 2800 | 3000 | 3200 | 3500 | 4000  | 4500  | 5000  | 5500  | 6000 | 6500  | 7000  | 7500  | 8000  |
|                    |                   |                |      |                    |      |      |      |      |      |      |      |      |      |      |       |       |       |       |      |       |       |       |       |
|                    | NM4 125/25E-60/A  | 5,5            | 7,5  | H<br>m             | 11,2 | 11   | 10,7 | 10,4 | 10   | 9,4  | 8,5  | 8    | 7,3  | 6,2  |       |       |       |       |      |       |       |       |       |
|                    | NM4 125/25D-60/A  | 7,5            | 10   |                    | 14   | 13,9 | 13,7 | 13,4 | 13   | 12,4 | 11,6 | 11   | 10,4 | 9,3  | 7,3*  | 5*    |       |       |      |       |       |       |       |
|                    | NM4 125/25C-60/A  | 9,2            | 12,5 |                    | 16,8 | 16,6 | 16,4 | 16,1 | 15,8 | 15,2 | 14,6 | 14   | 13,3 | 12,3 | 10,3* | 8*    | 5,4*  |       |      |       |       |       |       |
| B-NMS4 125/250B-60 | NM4 125/250B-60/A | 11             | 15   |                    | 19,4 | 19,2 | 19   | 18,8 | 18,6 | 18   | 17,4 | 17   | 16,3 | 15,2 | 13,2* | 10,8* | 8*    |       |      |       |       |       |       |
| B-NMS4 125/250A-60 | NM4 125/250A-60/A | 15             | 20   |                    | 23   | 22,9 | 22,8 | 22,7 | 22,5 | 22   | 21,5 | 20,9 | 20,3 | 19,2 | 17,2* | 14,9* | 12,2* | 9*    |      |       |       |       |       |
| B-NMS4 125/315C-60 | NMS4 125/315C-60  | 18,5           | 25   |                    | 28   | 27,8 | 27,5 | 27,3 | 27   | 26,5 | 25,5 | 25   | 24   | 23   | 20*   | 17*   | 13*   |       |      |       |       |       |       |
| B-NMS4 125/315B-60 | NMS4 125/315B-60  | 22             | 30   |                    | 32   | 31,7 | 31,5 | 31   | 30,8 | 30,5 | 29,5 | 29   | 28,5 | 27   | 25*   | 22*   | 18,5* | 14,5* |      |       |       |       |       |
| B-NMS4 125/315A-60 | NMS4 125/315A-60  | 30             | 40   |                    | 37   | 36,7 | 36,5 | 36   | 35,8 | 35,5 | 35   | 34,5 | 34   | 32,5 | 30,5* | 28*   | 25*   | 21,5* |      |       |       |       |       |
| B-NMS4 125/400C-60 | NMS4 125/400C-60  | 37             | 50   |                    | 45,5 | 45   | 44,8 | 44,6 | 44,5 | 44,3 | 43,5 | 43   | 42   | 40   | 36,5* | 32,5* | 28*   |       |      |       |       |       |       |
| B-NMS4 125/400B-60 | NMS4 125/400B-60  | 45             | 60   |                    | 51,7 | 51,5 | 51,3 | 51   | 50,7 | 50   | 49,5 | 49   | 48   | 46,5 | 43,5* | 40*   | 35,5* | 31*   |      |       |       |       |       |
| B-NMS4 125/400A-60 | NMS4 125/400A-60  | 55             | 75   |                    | 59,5 | 59,3 | 59   | 58,8 | 58,7 | 58   | 57,5 | 57   | 56,5 | 55,5 | 53*   | 50*   | 46*   | 41,5* |      |       |       |       |       |
| B-NMS4 150/315D-60 | NMS4 150/315D-60  | 18,5           | 25   |                    |      |      |      |      | 22,8 | 22,6 | 22,3 | 22   | 21,8 | 21,2 | 20    | 18,5  | 16,7  | 14,7  | 12,4 | 10*   | 7,4*  |       |       |
| B-NMS4 150/315C-60 | NMS4 150/315C-60  | 22             | 30   |                    |      |      |      |      | 25,8 | 25,6 | 25,4 | 25,2 | 24,9 | 24,4 | 23,2  | 21,9  | 20,2  | 18,4  | 16,2 | 14*   | 11,4* |       |       |
| B-NMS4 150/315B-60 | NMS4 150/315B-60  | 30             | 40   |                    |      |      |      |      | 30,5 | 30,4 | 30,2 | 30,1 | 30   | 29,8 | 29    | 27,9  | 26,5  | 24,8  | 22,8 | 20,7* | 18,2* | 15,4* |       |
| B-NMS4 150/315A-60 | NMS4 150/315A-60  | 37             | 50   |                    |      |      |      |      | 35,6 | 35,5 | 35,4 | 35,3 | 35,2 | 35   | 34,4  | 33,7  | 32,5  | 30,9  | 29   | 26,8* | 24,4* | 21,8* |       |
| B-NMS4 150/400C-60 | NMS4 150/400C-60  | 45             | 60   |                    |      |      |      |      | 45,5 | 45   | 44,5 | 44   | 43,8 | 43,5 | 42    | 40,5  | 38,5  | 36    | 33   | 30*   | 27*   |       |       |
| B-NMS4 150/400B-60 | NMS4 150/400B-60  | 55             | 75   |                    |      |      |      |      | 51   | 50,5 | 50   | 49,5 | 49,3 | 49   | 48    | 46,5  | 44,5  | 42,5  | 40   | 37,5* | 34,5* | 31,5* |       |
| B-NMS4 150/400A-60 | NMS4 150/400A-60  | 75             | 100  |                    |      |      |      |      | 59   | 58,5 | 58,3 | 58   | 57,8 | 57,5 | 57    | 55,5  | 54    | 52    | 49,5 | 47*   | 44*   | 41*   | 37,5* |

NM4, NMS4 Standard construction.

B-NM4, B-NMS4 Bronze construction.

P<sub>2</sub> Rated motor power output.

H Total head in m.

\* Maximum suction lift 1-2 m.

Tolerances according to UNI EN ISO 9906:2012.

## Rated currents

| P <sub>2</sub> |      | 220 V Δ / 380 V Y |                  |                                |
|----------------|------|-------------------|------------------|--------------------------------|
| kW             | HP   | I <sub>N</sub> A  | I <sub>N</sub> A | I <sub>A</sub> /I <sub>N</sub> |
| 0,25           | 0,34 | 1,7               | 1                | 3,5                            |
| 0,37           | 0,5  | 1,65              | 0,95             | 4,1                            |
| 0,55           | 0,75 | 2,6               | 1,5              | 4,5                            |
| 0,75           | 1    | 3,8               | 2,2              | 5,7                            |
| 1,1            | 1,5  | 5,8               | 3,3              | 3,3                            |
| 1,5            | 2    | 7                 | 4                | 7,8                            |
| 2,2            | 3    | 9,8               | 5,7              | 7,6                            |
| 3              | 4    | 13,5              | 7,8              | 5,7                            |

| P <sub>2</sub> |      | 380 V Δ / 660 V Y |                  |                                |
|----------------|------|-------------------|------------------|--------------------------------|
| kW             | HP   | I <sub>N</sub> A  | I <sub>N</sub> A | I <sub>A</sub> /I <sub>N</sub> |
| 4              | 5,5  | 10,2              | 5,9              | 7,1                            |
| 5,5            | 7,5  | 15,3              | 8,7              | 8                              |
| 7,5            | 10   | 19,1              | 11,1             | 8,2                            |
| 9,2            | 12,5 | 22,6              | 13,2             | 8,5                            |
| 11             | 15   | 26,8              | 15,5             | 8,6                            |
| 15             | 20   | 34,5              | 20               | 9                              |
| 18,5           | 25   | 42                | 24,2             | 7,3                            |
| 22             | 30   | 49,6              | 28,5             | 7,5                            |
| 30             | 40   | 64,5              | 37,2             | 7,5                            |
| 37             | 50   | 84                | 48,5             | 6                              |
| 45             | 60   | 95,5              | 55               | 6,4                            |
| 55             | 75   | 120               | 69               | 7,3                            |
| 75             | 100  | 166               | 95,5             | 6                              |

P<sub>2</sub> Rated motor power output.

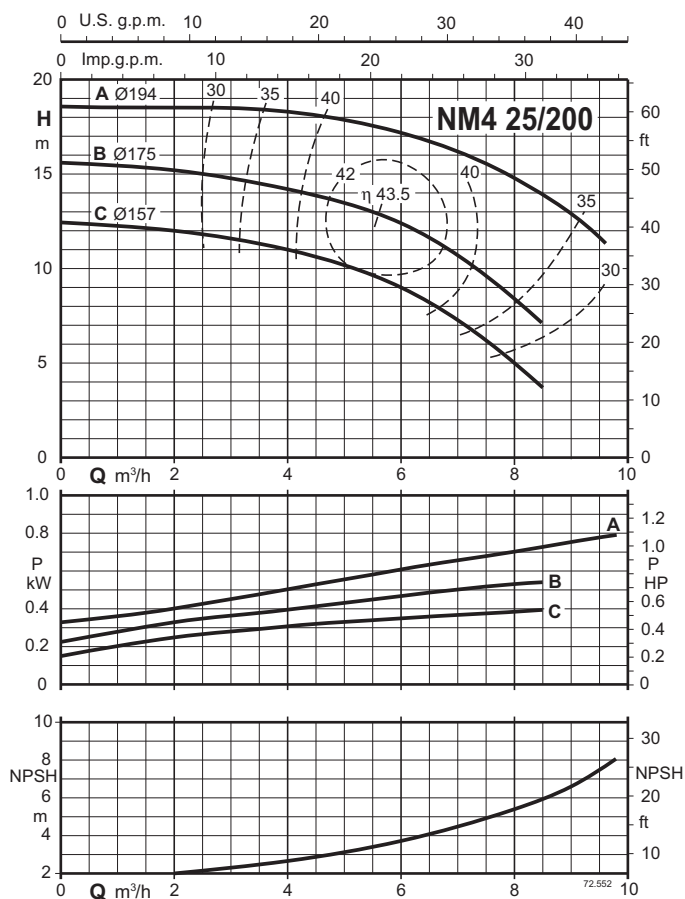
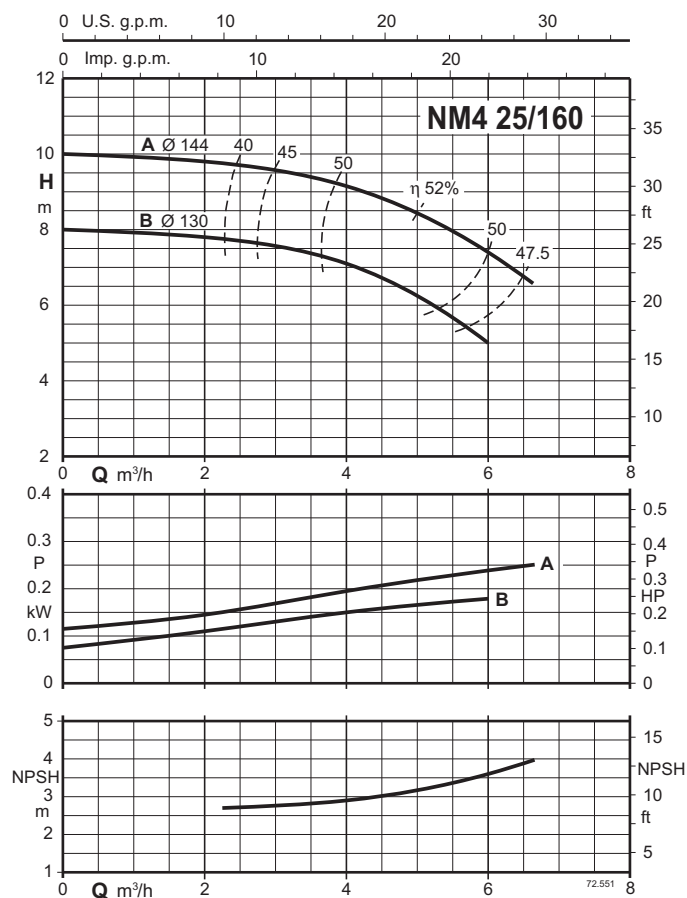
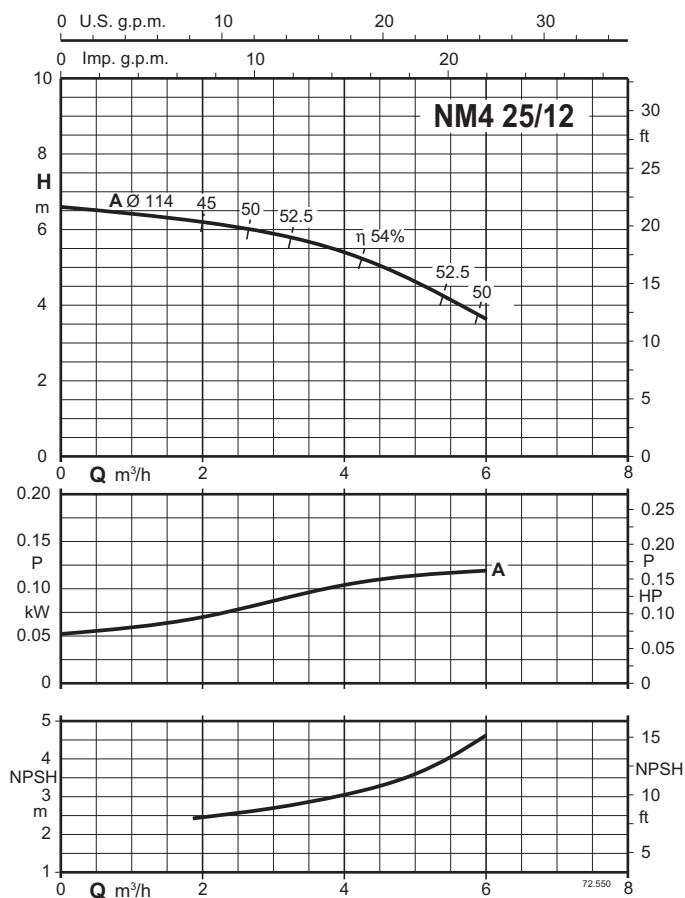
I<sub>A</sub>/I<sub>N</sub> D.O.L. starting current / Rated current

# NM4, NMS4 60 Hz

Close Coupled Centrifugal Pumps  
with flanged connections



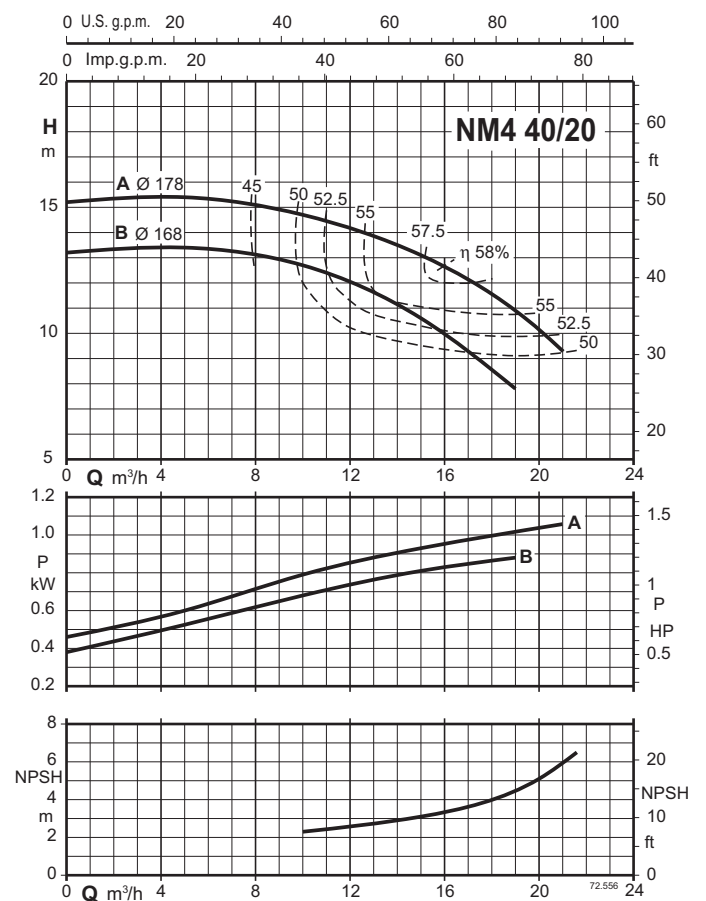
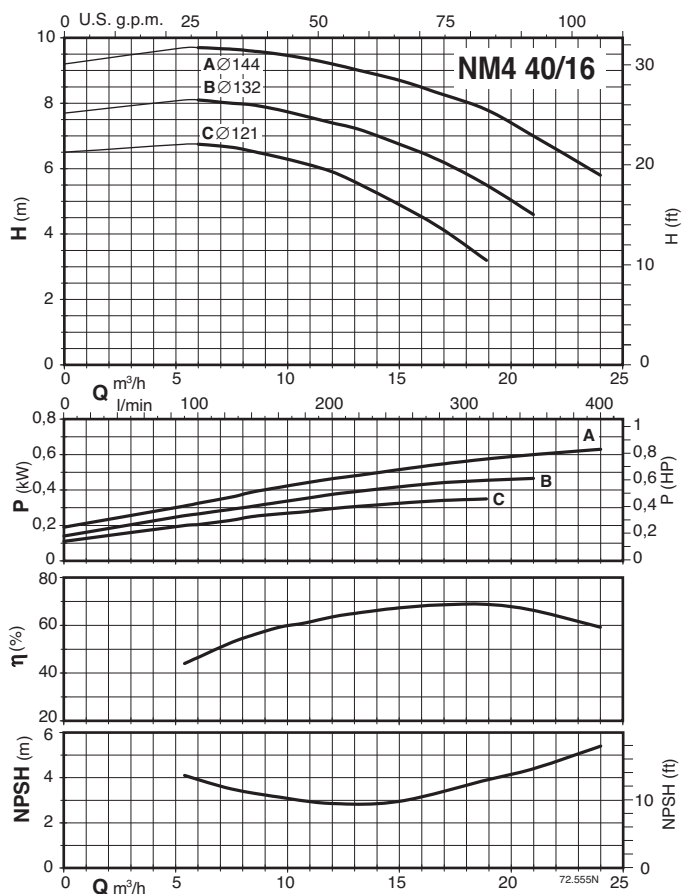
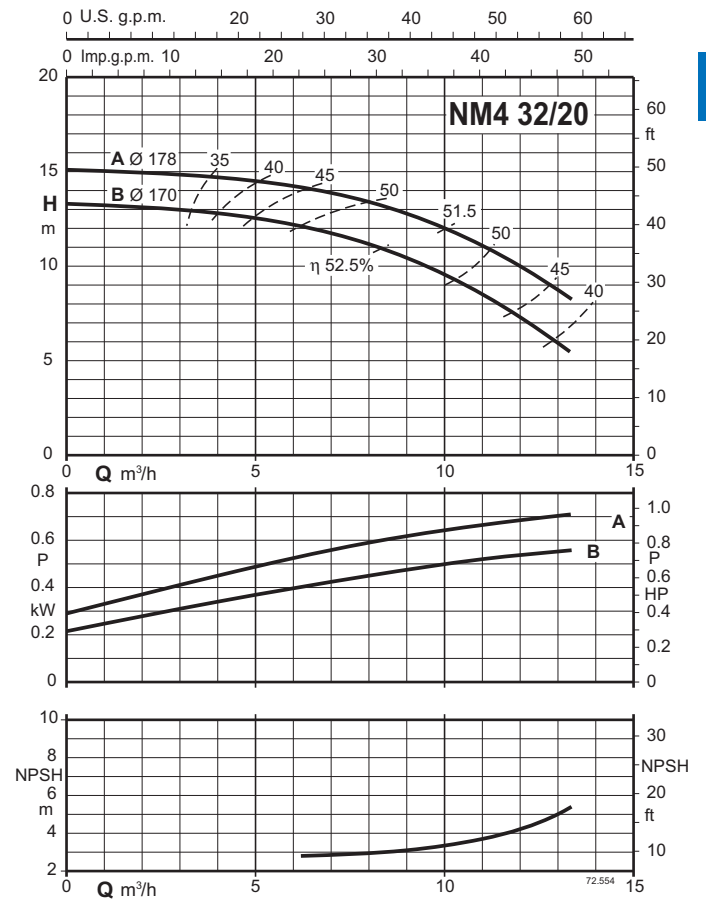
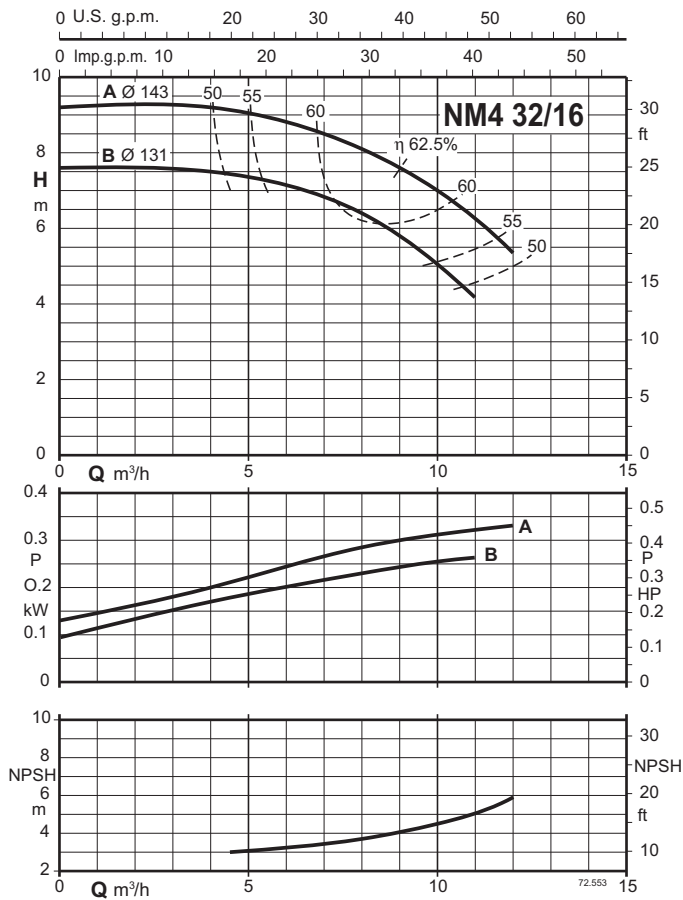
## Characteristic curves n = 1750 rpm



# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps with flanged connections



## Characteristic curves n = 1750 rpm

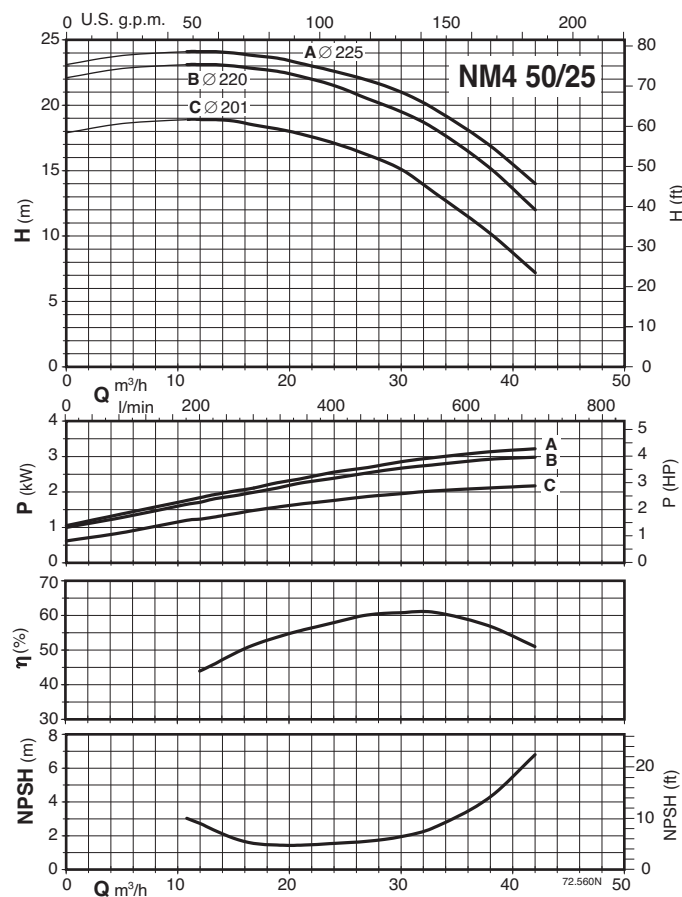
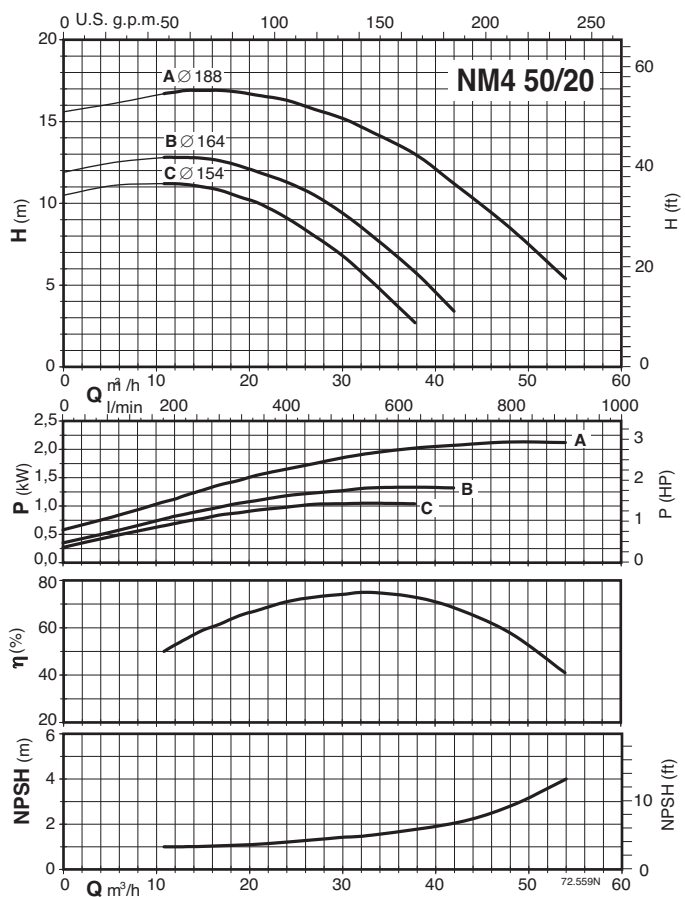
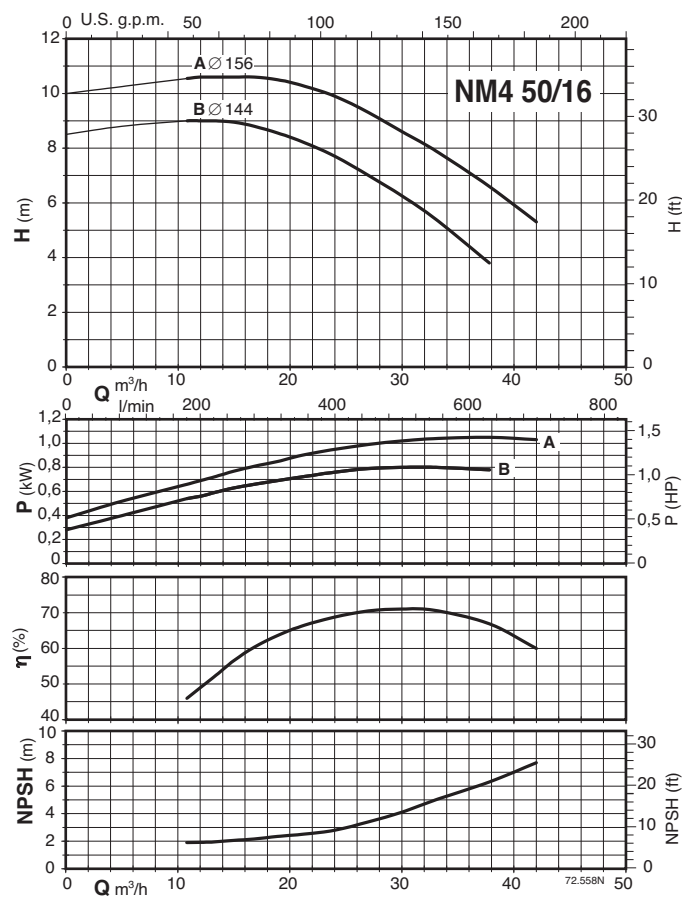
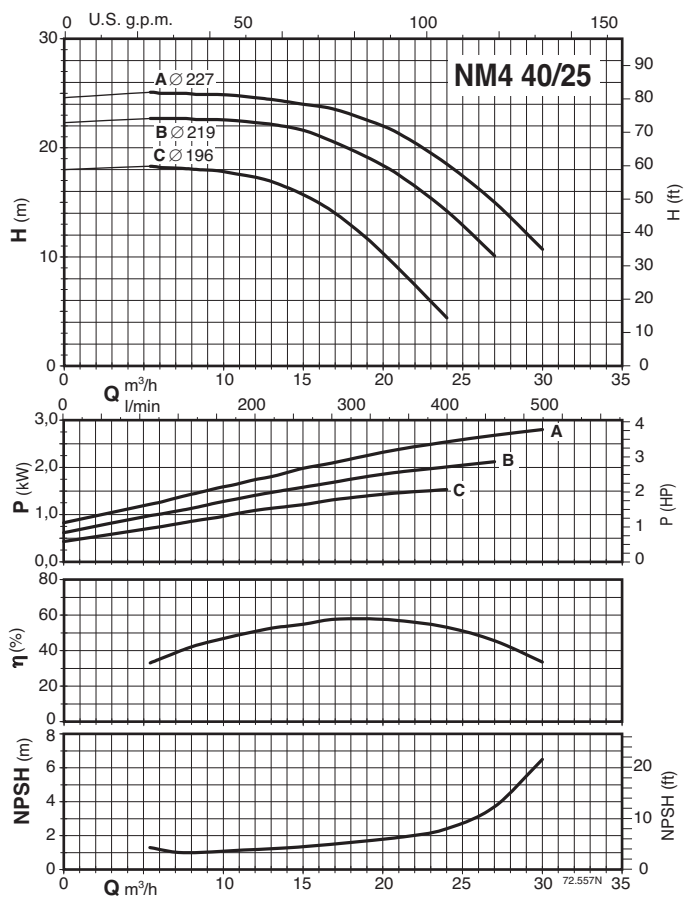


# NM4, NMS4 60 Hz

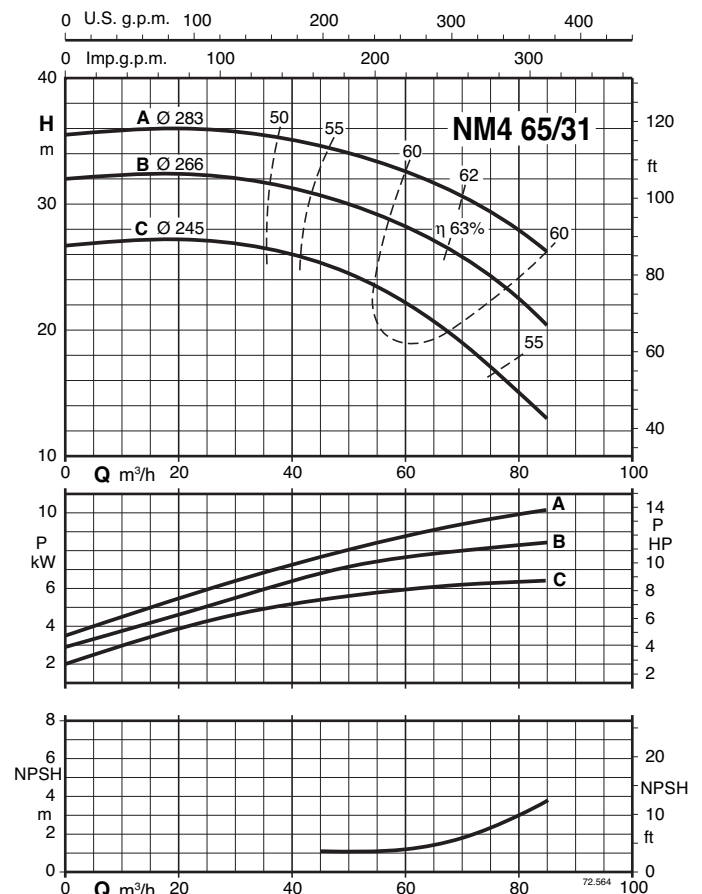
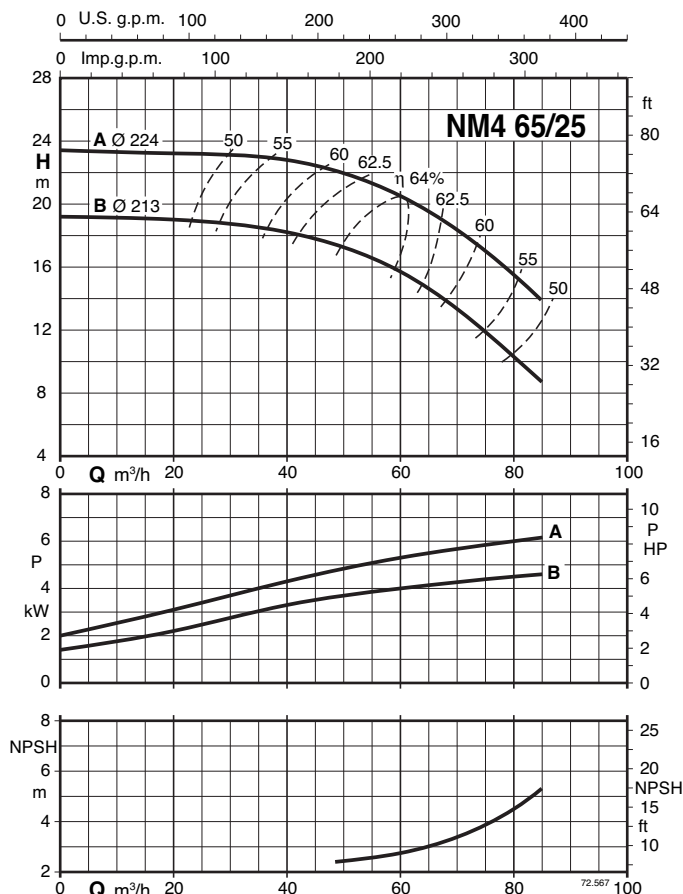
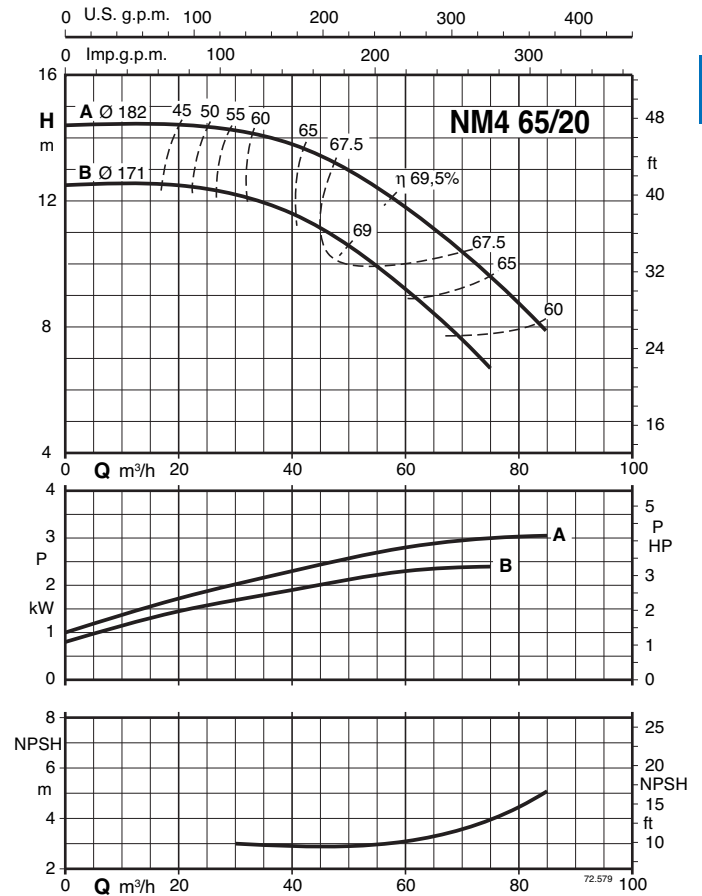
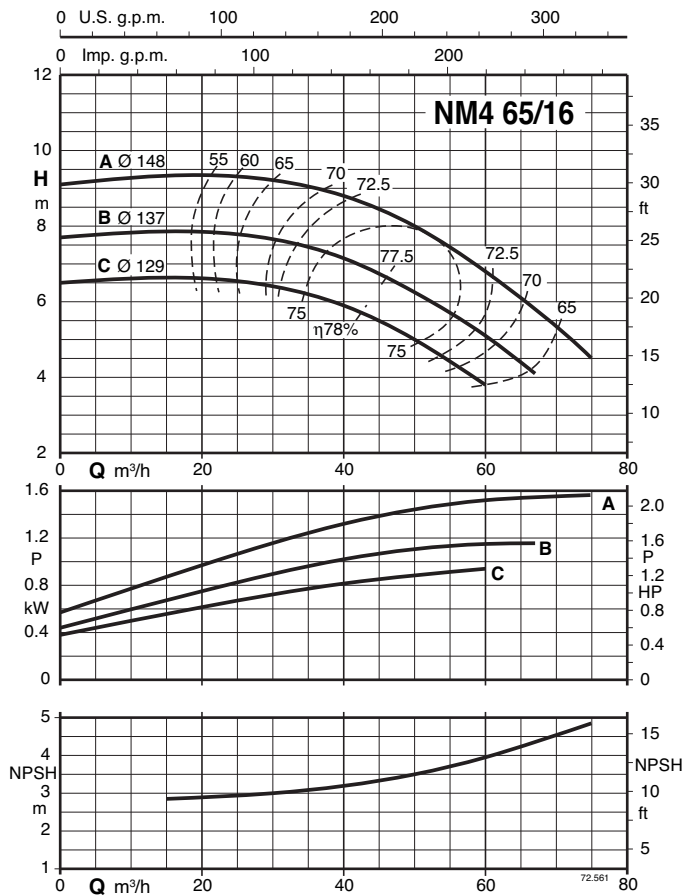
Close Coupled Centrifugal Pumps  
with flanged connections



## Characteristic curves n = 1750 rpm



## Characteristic curves n = 1750 rpm

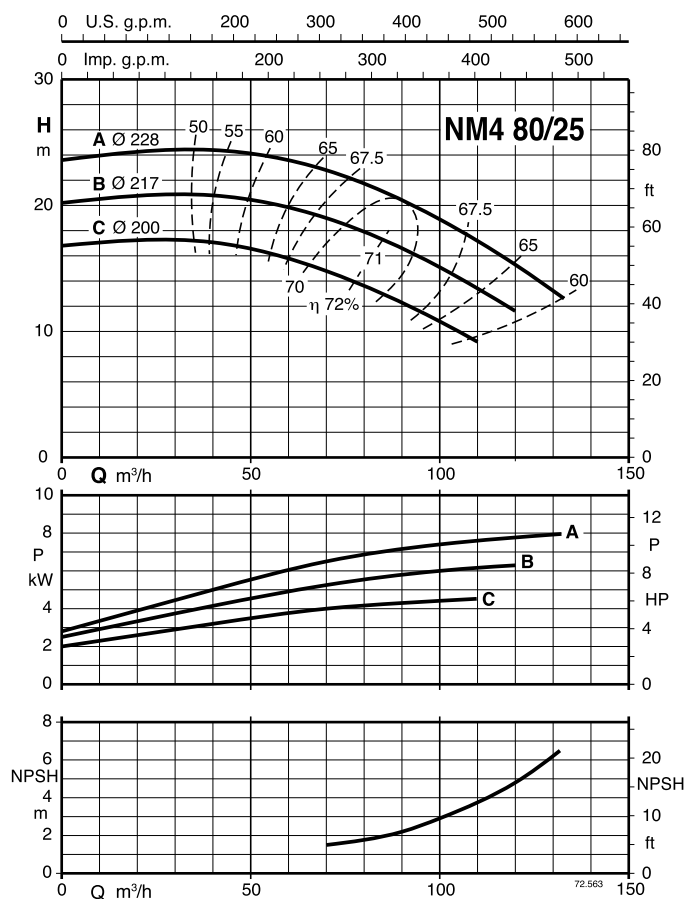
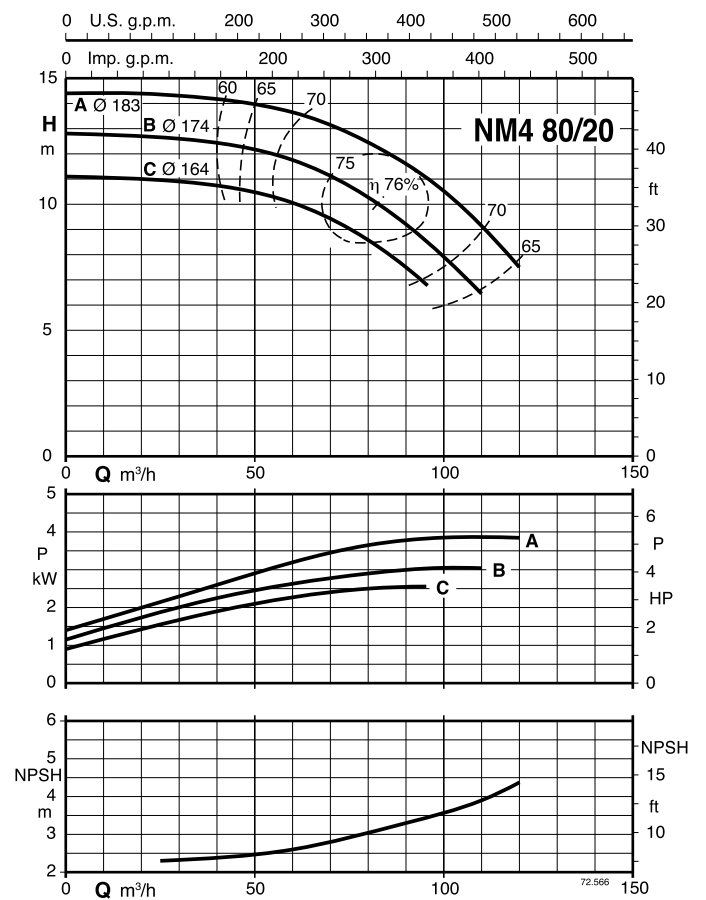
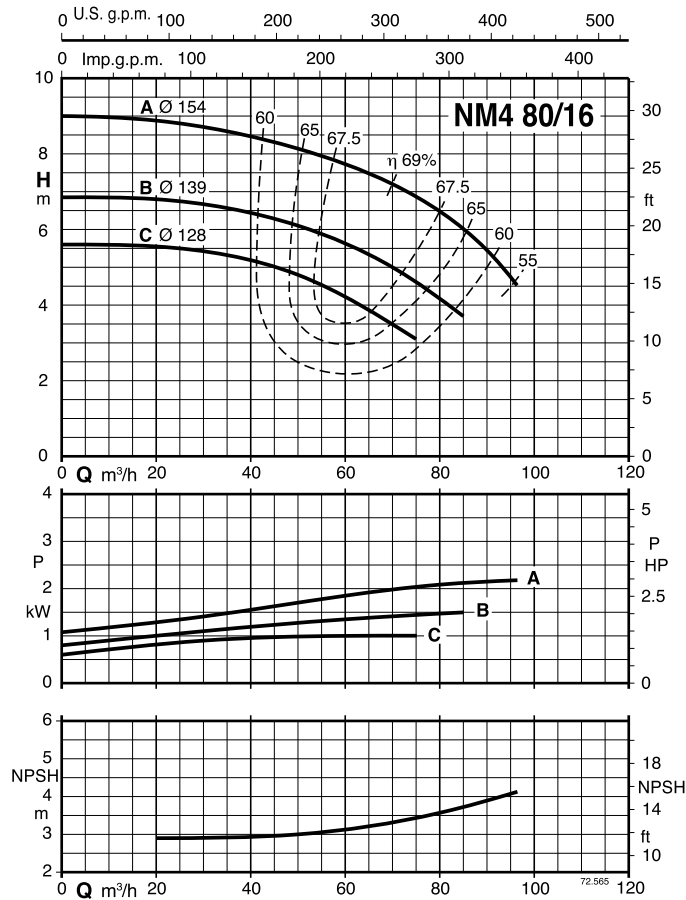


# NM4, NMS4 60 Hz

Close Coupled Centrifugal Pumps  
with flanged connections



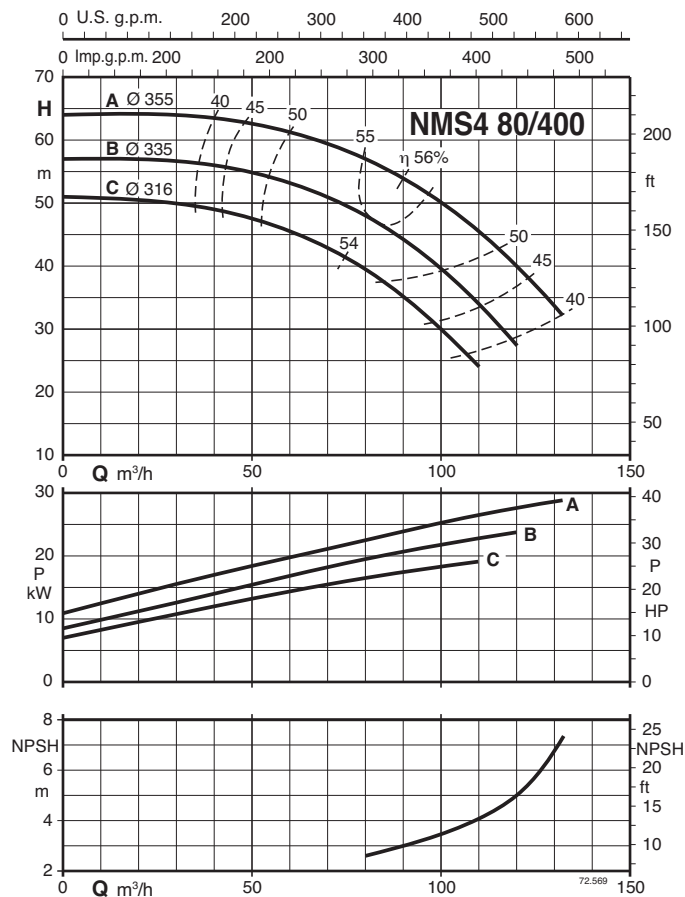
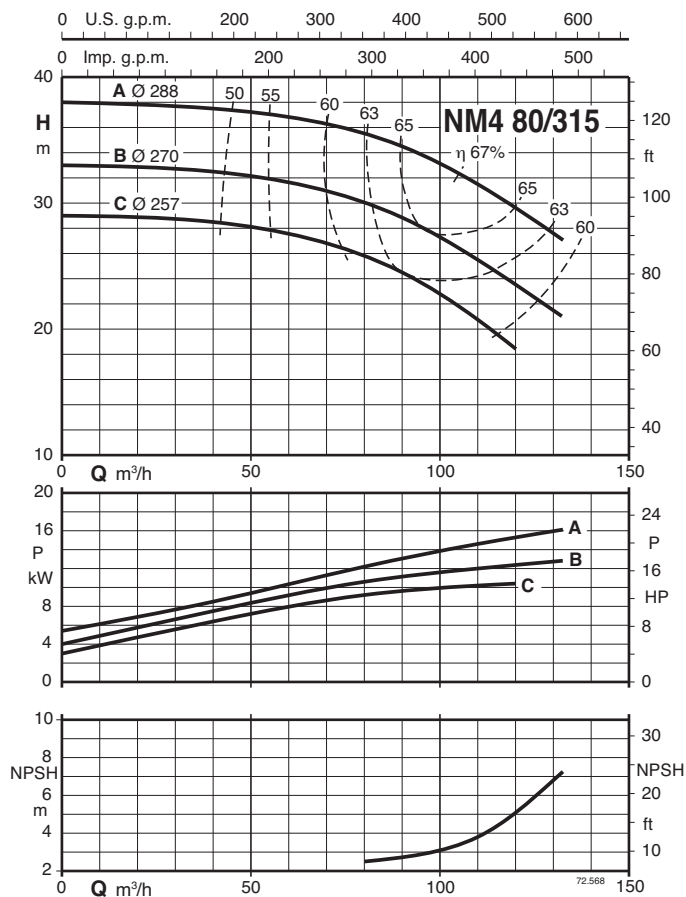
## Characteristic curves n = 1750 rpm



# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps with flanged connections

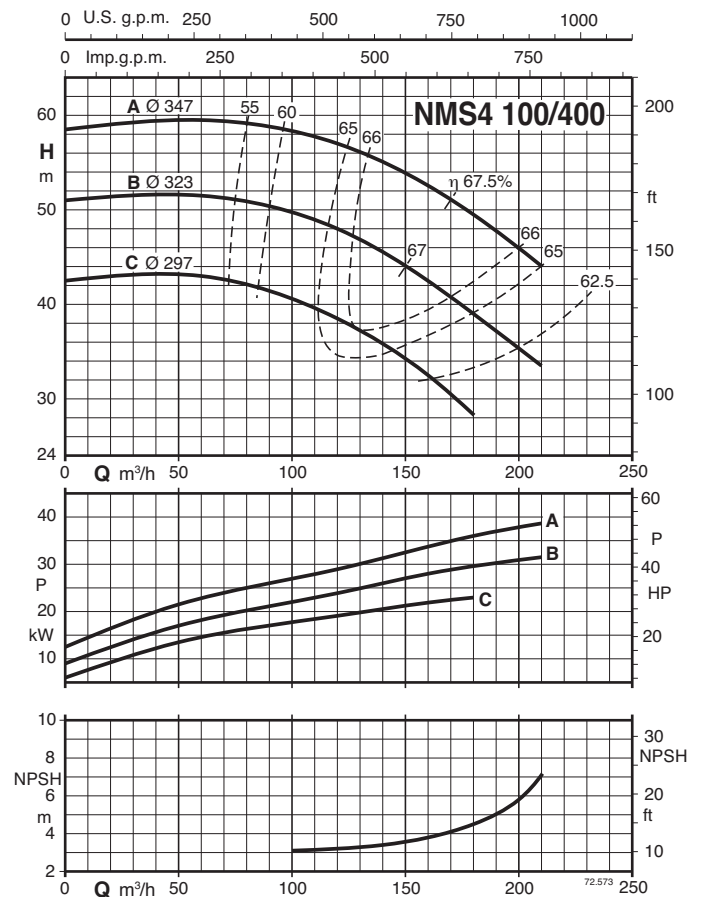
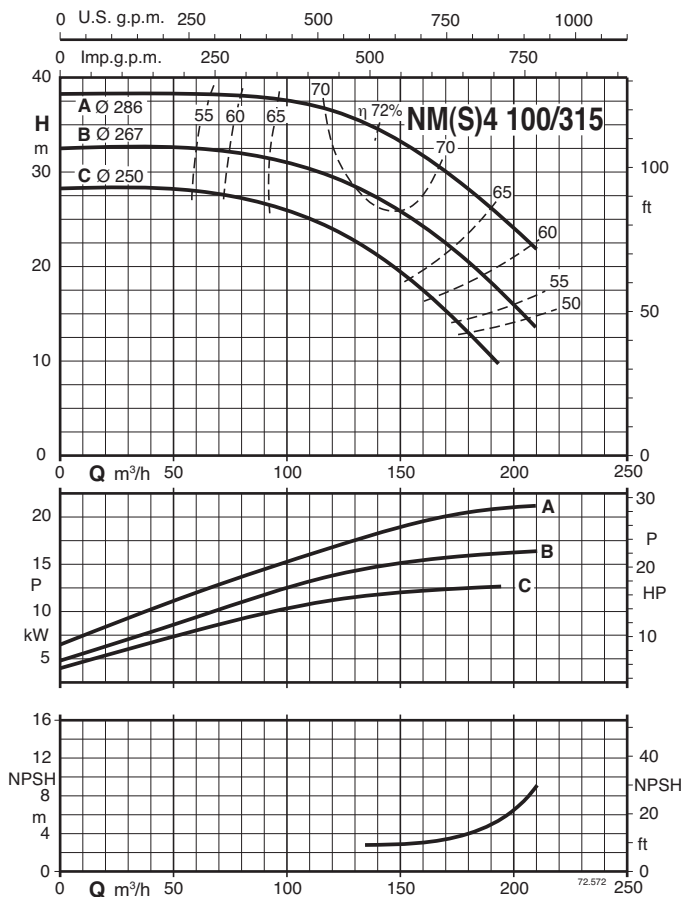
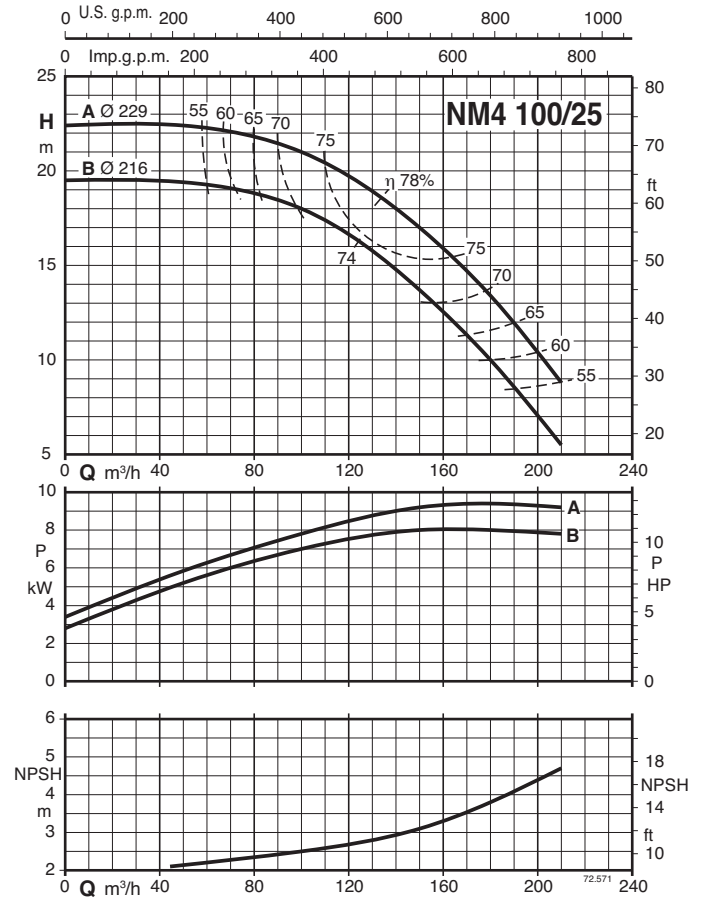
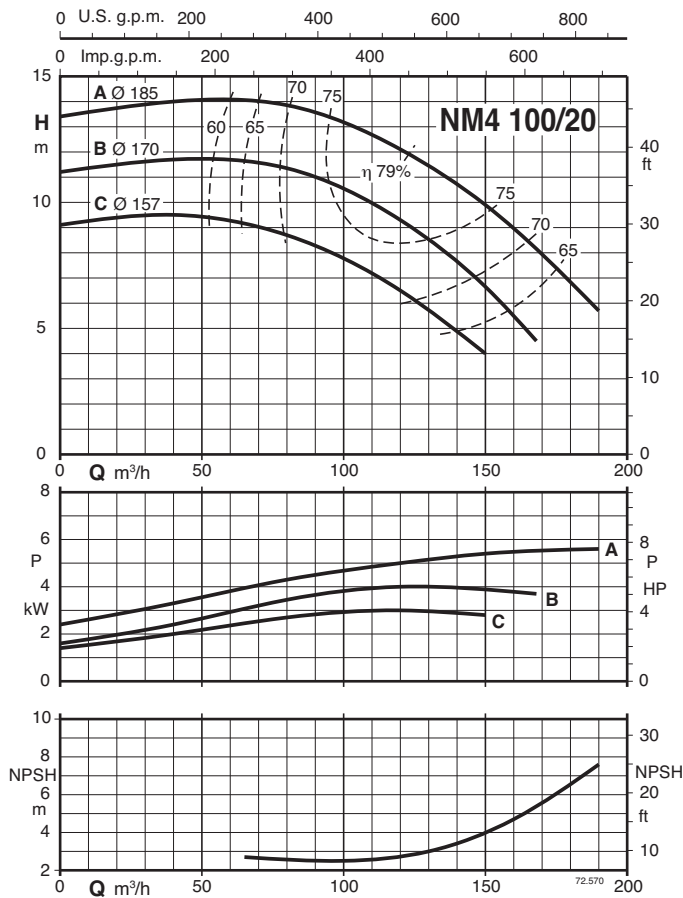


## Characteristic curves n = 1750 rpm

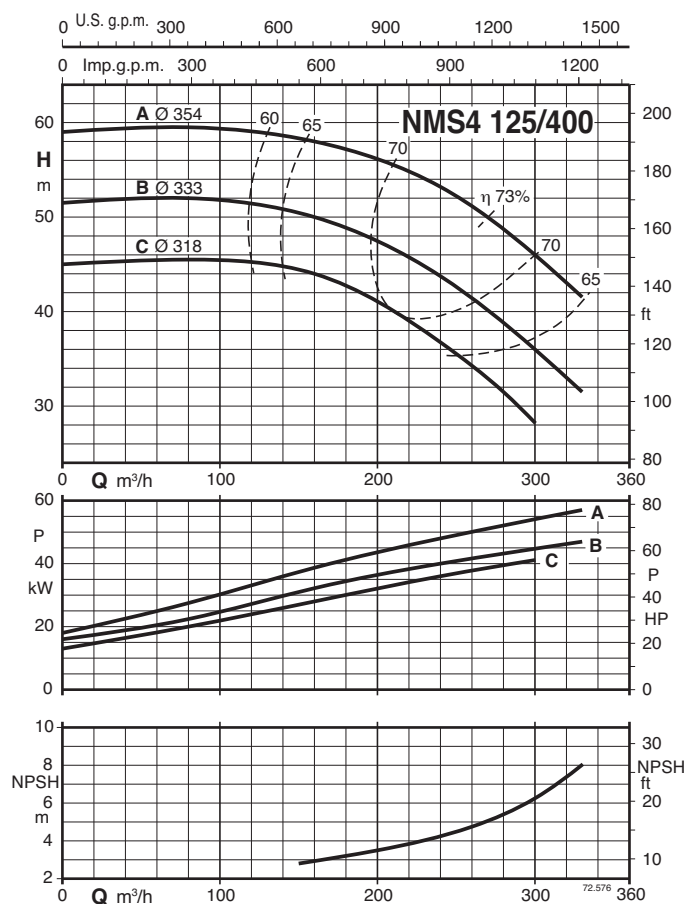
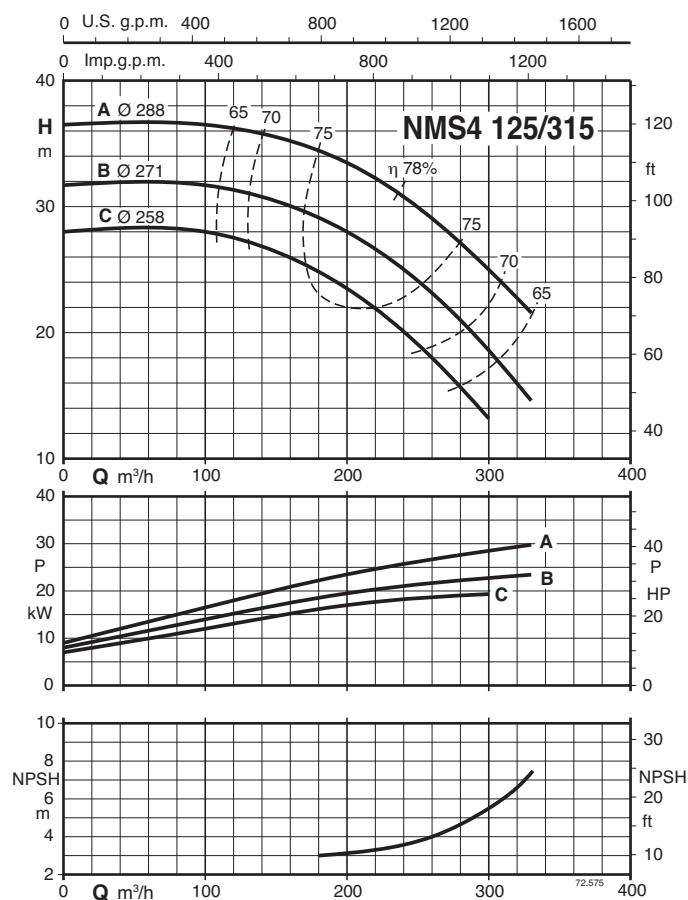
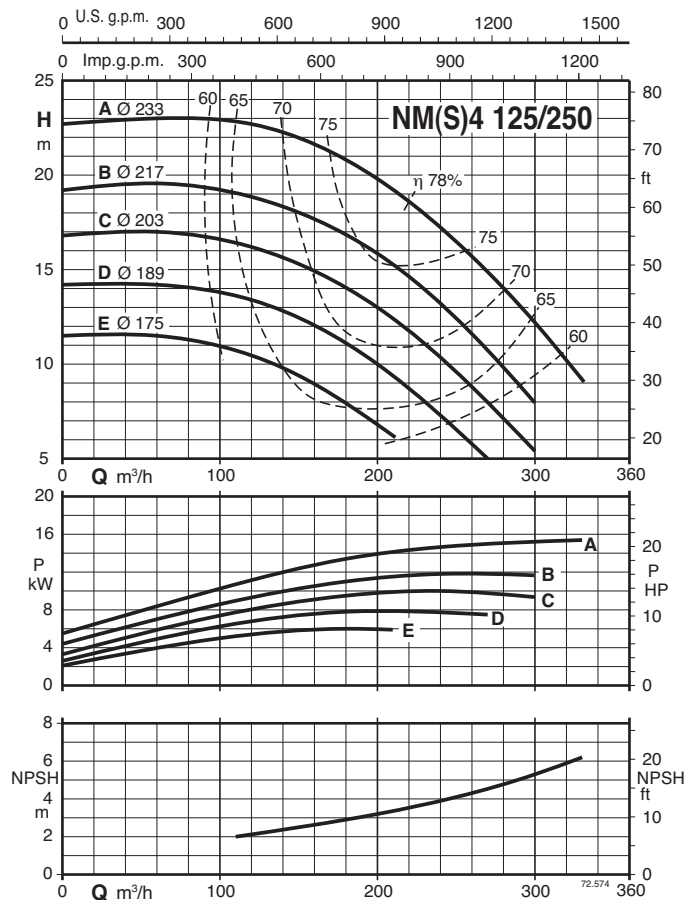


3

## Characteristic curves n = 1750 rpm



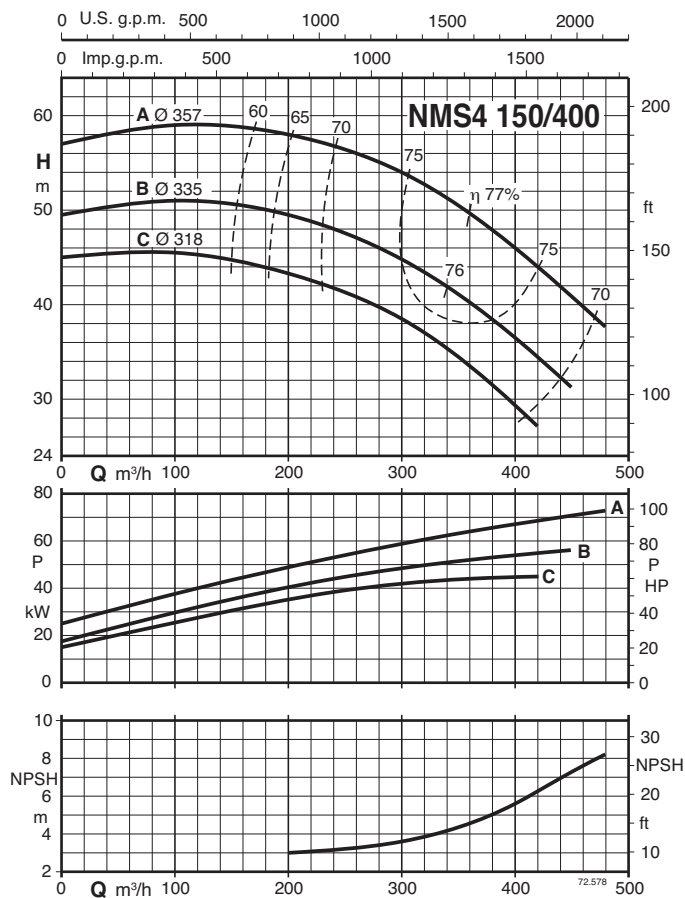
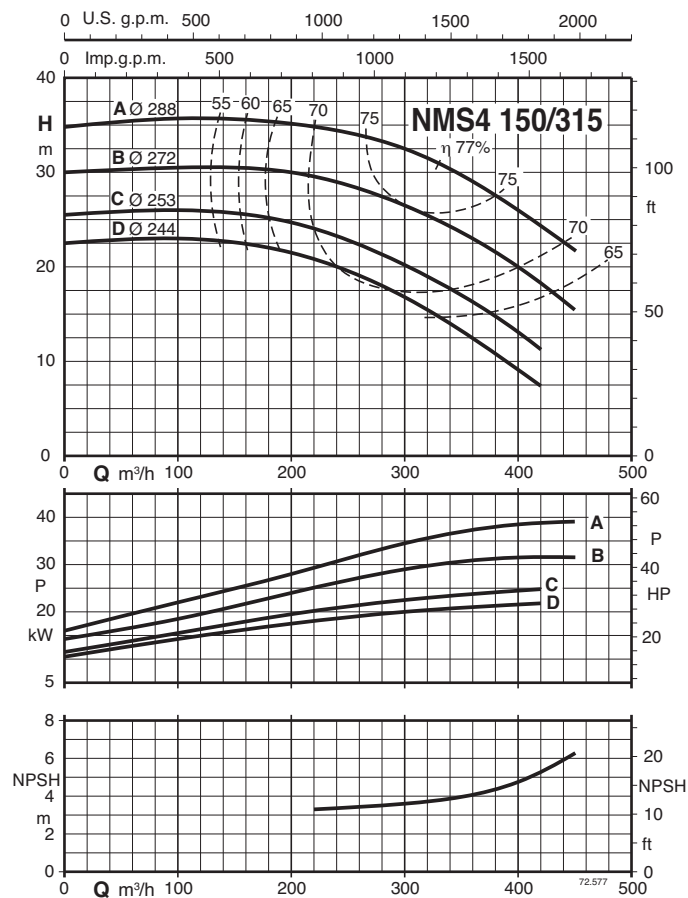
## Characteristic curves n = 1750 rpm



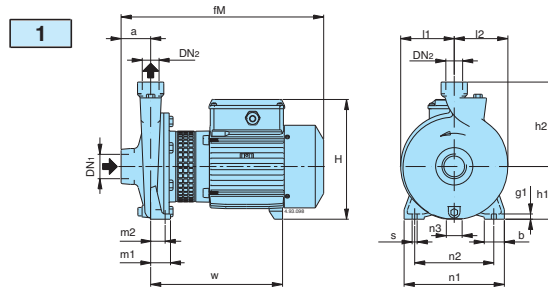
# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps with flanged connections



## Characteristic curves n = 1750 rpm



## Dimensions and weights

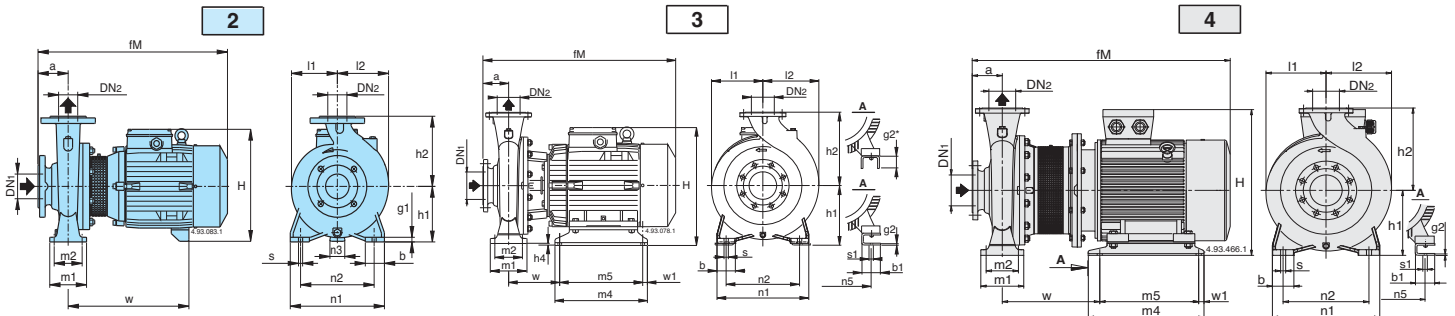


### Standard construction

| Picture | NM4             | DN1     | DN2 | mm  |     |     |     |      |      |      |     |     |    |      |     |     |     |     |          | kg   |
|---------|-----------------|---------|-----|-----|-----|-----|-----|------|------|------|-----|-----|----|------|-----|-----|-----|-----|----------|------|
|         |                 |         |     |     |     |     |     |      |      |      |     |     |    |      |     |     |     |     |          |      |
|         |                 | ISO 228 | a   | fM  | h1  | h2  | H   | m1   | m2   | n1   | n2  | n3  | b  | s    | l1  | l2  | w   | g   |          |      |
| 1       | NM4 25/12A-60/A | G 1½    | G 1 | 56  | 313 | 90  | 140 | 199  | 37,5 | 27,5 | 170 | 130 | 9  | 38   | 9,5 | 85  | 88  | 250 | 10       | 13,5 |
|         | 56              |         |     | 380 | 100 | 160 | 228 | 37,5 | 27,5 | 190  | 150 | 30  | 38 | 9,5  | 102 | 102 | 250 | 10  | 17,5     |      |
|         | 63              |         |     | 385 | 125 | 180 | 253 | 45   | 32,5 | 245  | 200 | 49  | 45 | 11,5 | 125 | 125 | 250 | 11  | 27-23,21 |      |

Bronze construction **B-NM4**

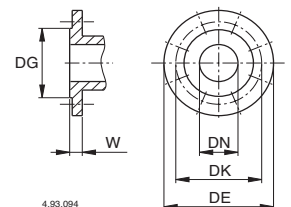
| Picture | B-NM4                          | DN1  | DN2 | mm |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    | kg       |
|---------|--------------------------------|------|-----|----|-----|-----|-----|-----|------|------|-----|-----|----|----|------|-----|-----|-----|----|----------|
|         |                                | ISO  | 228 | a  | fM  | h1  | h2  | H   | m1   | m2   | n1  | n2  | n3 | b  | s    | l1  | l2  | w   | g  |          |
|         |                                |      |     |    |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    |          |
| 1       | B-NM4 25/160AE-60-BE-60        | G 1½ | G 1 | 56 | 380 | 100 | 160 | 228 | 37,5 | 27,5 | 190 | 150 | 30 | 38 | 9,5  | 102 | 102 | 250 | 10 | 19-19    |
|         | B-NM4 25/200A-60/A-BE-60-CE-60 |      |     | 63 | 400 | 125 | 180 | 253 | 45   | 32,5 | 245 | 200 | 49 | 45 | 11,5 | 125 | 125 | 250 | 11 | 29-25-23 |



| Picture | B-NM4                                                | mm  |     |     |            |     |     |            |    |     |    |     |     |          |           |    |          |    |          |     |     |            |            |            |    | kg |    |                |
|---------|------------------------------------------------------|-----|-----|-----|------------|-----|-----|------------|----|-----|----|-----|-----|----------|-----------|----|----------|----|----------|-----|-----|------------|------------|------------|----|----|----|----------------|
|         |                                                      | DN1 | DN2 | a   | fM         | h1  | h2  | H          | h4 | m1  | m2 | n1  | n2  | n3       | n5        | w1 | b        | b1 | s        | s1  | l1  | l2         | w          | w4         | w5 |    | g1 | g2             |
| 2       | B-NM4 32/16A-60-B-60                                 | 50  | 32  | 80  | 410        | 132 | 160 | 260        | -  | 100 | 70 | 240 | 190 | 47       | -         | -  | 50       | -  | 14       | -   | 120 | 120        | 255        | -          | -  | 12 | -  | 38-38          |
|         | B-NM4 32/20A-60/A-B-60                               | 50  | 32  | 80  | 410        | 160 | 180 | 288        | -  | 100 | 70 | 240 | 190 | 62       | -         | -  | 50       | -  | 14       | -   | 140 | 140        | 255        | -          | -  | 12 | -  | 45-41          |
|         | B-NM4 40/16A-60/A-B-60-C-60                          | 65  | 40  | 80  | 410        | 132 | 160 | 260        | -  | 100 | 70 | 240 | 190 | 47       | -         | -  | 50       | -  | 14       | -   | 119 | 119        | 255        | -          | -  | 12 | -  | 43-40-38       |
|         | B-NM4 40/20A-60/A-B-60/A                             | 65  | 40  | 100 | 470        | 160 | 180 | 288        | -  | 100 | 70 | 265 | 212 | 62       | -         | -  | 50       | -  | 14       | -   | 140 | 140        | 255        | -          | -  | 12 | -  | 55-55          |
| 3       | B-NM4 4025/B-60/B-C-60/B<br>B-NM4 4025/A-60/B        | 65  | 40  | 100 | 535<br>560 | 190 | 225 | 318<br>350 | 10 | 125 | 95 | 320 | 250 | -<br>190 | 140<br>15 | 65 | 54<br>60 | 14 | 10<br>12 | 175 | 175 | 156<br>125 | 205<br>280 | 175<br>250 | -  | -  | 6  | 73-73<br>89    |
| 2       | B-NM4 50/16A-60/A-B-60/A                             | 65  | 50  | 100 | 470        | 160 | 180 | 288        | -  | 100 | 70 | 265 | 212 | 62       | -         | -  | 50       | -  | 14       | -   | 127 | 141        | 255        | -          | -  | 12 | -  | 55-55          |
| 3       | B-NM4 5025/C-60/B-D-60/A<br>B-NM4 5025/A-60/B-B-60/B | 65  | 50  | 100 | 535<br>560 | 190 | 225 | 318<br>350 | 10 | 125 | 95 | 320 | 250 | -<br>190 | 140<br>15 | 65 | 54<br>60 | 14 | 10<br>12 | 175 | 175 | 156<br>125 | 205<br>280 | 175<br>250 | -  | -  | 6  | 79,5<br>105-92 |
| 2       | B-NM4 65/16B-60/A-C-60/A<br>B-NM4 65/16A-60/A        | 80  | 65  | 100 | 470<br>495 | 160 | 200 | 288<br>306 | -  | 125 | 95 | 280 | 212 | 62<br>60 | -         | -  | 65       | -  | 14       | -   | 150 | 172        | 255<br>300 | -          | -  | 15 | -  | 63-63<br>71    |

## Flanges EN 1092-2

| Picture            | B-NMS4                  | mm  |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |    |  | kg |
|--------------------|-------------------------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|----|--|----|
|                    |                         | DN1 | DN2 | a    | fM   | h1  | h2  | H   | m1  | m2  | n1  | n2  | n5  | w1  | b   | b1  | s  | s1  | l1  | l2  | w   | m4  | m5  | g2 |  |    |
| 4                  | B-NMS4 80/315A-60-B-60  | 100 | 80  | 125  | 948  | 250 | 315 | 457 | 160 | 120 | 400 | 315 | 254 | 20  | 80  | 60  | 18 | 15  | 220 | 232 | 271 | 435 | 395 | 6  |  |    |
|                    | B-NMS4 80/400C-60       | 125 | 80  | 125  | 974  | 280 | 355 | 542 | 160 | 120 | 435 | 355 | 279 | 25  | 80  | 70  | 18 | 15  | 268 | 268 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 80/400B-60       | 125 | 80  | 125  | 1025 | 280 | 355 | 542 | 160 | 120 | 435 | 355 | 279 | 25  | 80  | 70  | 18 | 15  | 268 | 268 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 80/400A-60       | 125 | 80  | 125  | 1025 | 280 | 355 | 580 | 160 | 120 | 435 | 355 | 318 | 25  | 80  | 83  | 18 | 19  | 268 | 268 | 334 | 540 | 455 | 6  |  |    |
|                    | B-NMS4 100/315B-60-C-60 | 125 | 100 | 140  | 963  | 250 | 315 | 457 | 160 | 120 | 400 | 315 | 254 | 20  | 80  | 60  | 18 | 15  | 230 | 250 | 271 | 435 | 395 | 6  |  |    |
|                    | B-NMS4 100/315A-60      | 125 | 100 | 140  | 984  | 250 | 315 | 512 | 160 | 120 | 400 | 315 | 279 | 25  | 80  | 70  | 18 | 15  | 230 | 250 | 312 | 432 | 382 | 6  |  |    |
|                    | B-NMS4 100/400C-60      | 125 | 100 | 140  | 1040 | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 268 | 280 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 100/400B-60      | 125 | 100 | 140  | 1040 | 280 | 355 | 580 | 200 | 150 | 500 | 400 | 318 | 25  | 100 | 83  | 22 | 19  | 268 | 280 | 334 | 540 | 455 | 6  |  |    |
|                    | B-NMS4 100/400A-60      | 125 | 100 | 140  | 1139 | 280 | 355 | 605 | 200 | 150 | 500 | 400 | 356 | 55  | 100 | 103 | 22 | 19  | 268 | 280 | 384 | 540 | 460 | 8  |  |    |
|                    | B-NMS4 125/250A-60-B-60 | 150 | 125 | 140  | 951  | 250 | 355 | 457 | 160 | 120 | 400 | 315 | 254 | 20  | 80  | 60  | 18 | 15  | 235 | 268 | 259 | 435 | 395 | 6  |  |    |
|                    | B-NMS4 125/315C-60      | 150 | 125 | 140  | 989  | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 247 | 278 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 125/315B-60      | 150 | 125 | 140  | 1040 | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 247 | 278 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 125/315A-60      | 150 | 125 | 140  | 1040 | 280 | 355 | 580 | 200 | 150 | 500 | 400 | 318 | 25  | 100 | 83  | 22 | 19  | 247 | 278 | 334 | 540 | 455 | 6  |  |    |
|                    | B-NMS4 125/400C-60      | 150 | 125 | 140  | 1139 | 315 | 400 | 640 | 200 | 150 | 500 | 400 | 356 | 25  | 100 | 103 | 22 | 19  | 280 | 305 | 409 | 540 | 461 | 8  |  |    |
|                    | B-NMS4 125/400B-60      | 150 | 125 | 140  | 1199 | 315 | 400 | 640 | 200 | 150 | 500 | 400 | 356 | 25  | 100 | 103 | 22 | 19  | 280 | 305 | 409 | 540 | 461 | 8  |  |    |
|                    | B-NMS4 125/400A-60      | 150 | 125 | 140  | 1307 | 315 | 400 | 707 | 200 | 150 | 500 | 400 | 406 | 25  | 100 | 100 | 22 | 24  | 280 | 305 | 454 | 540 | 461 | 8  |  |    |
|                    | B-NMS4 150/315D-60      | 200 | 150 | 160  | 1009 | 280 | 400 | 542 | 200 | 150 | 550 | 450 | 279 | 25  | 100 | 70  | 22 | 15  | 260 | 298 | 318 | 520 | 435 | 6  |  |    |
|                    | B-NMS4 150/315C-60      | 200 | 150 | 160  | 1060 | 280 | 400 | 542 | 200 | 150 | 550 | 450 | 279 | 25  | 100 | 70  | 22 | 15  | 260 | 298 | 318 | 520 | 435 | 6  |  |    |
| B-NMS4 150/315B-60 | 200                     | 150 | 160 | 1060 | 280  | 400 | 580 | 200 | 150 | 550 | 450 | 318 | 25  | 100 | 83  | 22  | 19 | 260 | 298 | 334 | 540 | 455 | 6   |    |  |    |
| B-NMS4 150/315A-60 | 200                     | 150 | 160 | 1159 | 280  | 400 | 605 | 200 | 150 | 550 | 450 | 356 | 55  | 100 | 103 | 22  | 19 | 260 | 298 | 384 | 540 | 460 | 8   |    |  |    |
| B-NMS4 150/400C-60 | 200                     | 150 | 160 | 1219 | 315  | 450 | 640 | 200 | 150 | 550 | 450 | 356 | 25  | 100 | 103 | 22  | 19 | 295 | 328 | 409 | 540 | 461 | 8   |    |  |    |
| B-NMS4 150/400B-60 | 200                     | 150 | 160 | 1277 | 315  | 450 | 707 | 200 | 150 | 550 | 450 | 406 | 25  | 100 | 100 | 22  | 24 | 295 | 328 | 404 | 540 | 461 | 8   |    |  |    |
| B-NMS4 150/400A-60 | 200                     | 150 | 160 | 1280 | 315  | 450 | 747 | 200 | 150 | 550 | 450 | 457 | 45  | 100 | 100 | 22  | 24 | 295 | 328 | 432 | 625 | 535 | 6   |    |  |    |

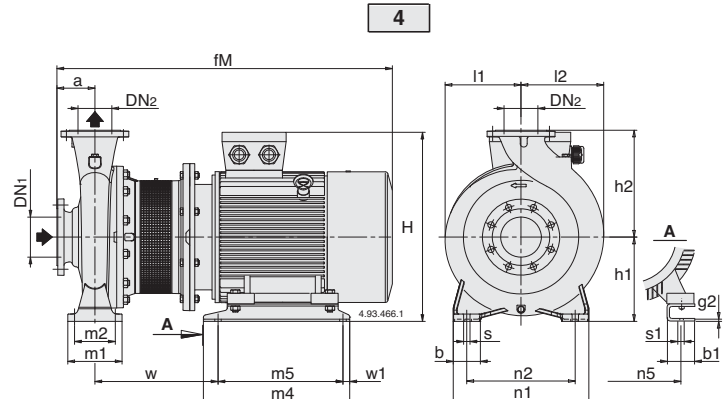
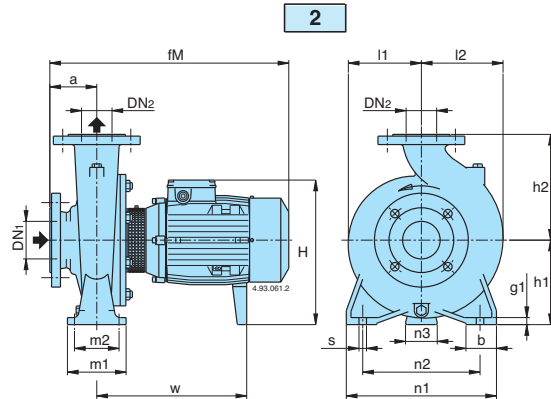


| mm  |     |     |     |       |    |    |
|-----|-----|-----|-----|-------|----|----|
| DN  | DG  | DK  | DE  | Holes |    | W  |
|     |     |     |     | N°    | Ø  |    |
| 32  | 76  | 100 | 140 | 4     | 19 | 18 |
| 40  | 84  | 110 | 150 | 4     | 19 | 18 |
| 50  | 99  | 125 | 165 | 4     | 19 | 20 |
| 65  | 118 | 145 | 185 | 4     | 19 | 20 |
| 80  | 132 | 160 | 200 | 8     | 19 | 22 |
| 100 | 156 | 180 | 220 | 8     | 19 | 24 |
| 125 | 184 | 210 | 250 | 8     | 19 | 24 |
| 150 | 211 | 240 | 285 | 8     | 23 | 26 |
| 200 | 266 | 295 | 340 | 8     | 23 | 30 |

# NM4, NMS4 60 Hz Close Coupled Centrifugal Pumps with flanged connections



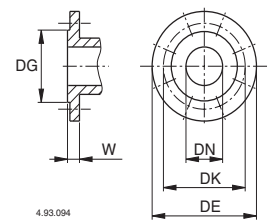
## Dimensions and weights



Standard construction

Flanges EN 1092-2

| Picture                | NM4                           | mm  |     |     |     |     |     |     |     |     |     |     |         |     |     |    |    |    |    |     |     |         |         |     |     | kg |         |            |
|------------------------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-----|-----|----|----|----|----|-----|-----|---------|---------|-----|-----|----|---------|------------|
|                        |                               | DN1 | DN2 | a   | fM  | h1  | h2  | H   | h4  | m1  | m2  | n1  | n2      | n3  | n5  | w1 | b  | b1 | s  | s1  | l1  | l2      | w       | m4  | m5  |    | g1      | g2         |
| 2                      | NM4 32/16AE-60-BE-60          | 50  | 32  | 80  | 410 | 132 | 160 | 260 | -   | 100 | 70  | 240 | 190     | 47  | -   | -  | 50 | -  | 14 | -   | 120 | 120     | 255     | -   | -   | 12 | -       | 30,5-30    |
|                        | NM4 32/20A-60/A-BE-60         | 50  | 32  | 80  | 410 | 160 | 180 | 288 | -   | 100 | 70  | 240 | 190     | 62  | -   | -  | 50 | -  | 14 | -   | 140 | 140     | 255     | -   | -   | 12 | -       | 38-34,5    |
|                        | NM4 40/16A-60/B-B-60/A-C-60/A | 65  | 40  | 80  | 410 | 132 | 160 | 268 | -   | 100 | 70  | 240 | 190     | 47  | -   | -  | 50 | -  | 14 | -   | 119 | 119     | 255     | -   | -   | 12 | -       | 37-33-31   |
|                        | NM4 40/20A-60/A-B-60/A        | 65  | 40  | 100 | 470 | 160 | 180 | 288 | -   | 100 | 70  | 265 | 212     | 62  | -   | -  | 50 | -  | 14 | -   | 140 | 140     | 255     | -   | -   | 12 | -       | 41-40,5    |
|                        | NM4 40/25B-60/B-C-60/B        | 65  | 40  | 100 | 495 | 180 | 225 | 308 | -   | 125 | 95  | 320 | 250     | 60  | -   | -  | 65 | -  | 14 | -   | 175 | 175     | 300     | -   | -   | 15 | -       | 66,5-62,78 |
|                        | 525                           |     |     |     | 340 |     |     | 330 |     |     |     |     |         |     |     |    |    |    |    |     |     |         |         |     |     |    |         |            |
|                        | NM4 50/16A-60/B-B-60/B        | 65  | 50  | 100 | 470 | 160 | 180 | 288 | -   | 100 | 70  | 265 | 212     | 62  | -   | -  | 50 | -  | 14 | -   | 127 | 141     | 255     | -   | -   | 12 | -       | 40-39,5    |
|                        | NM4 50/20C-60/B               | 65  | 50  | 100 | 480 | 160 | 200 | 288 | -   | 100 | 70  | 265 | 212     | 62  | -   | -  | 50 | -  | 14 | -   | 140 | 153     | 265     | -   | -   | 14 | -       | 44,5       |
|                        | 505                           |     |     |     | 60  |     |     |     |     |     |     |     |         | 310 |     |    |    |    |    |     |     |         | 57-52,5 |     |     |    |         |            |
|                        | NM4 50/25C-60/B-D-60/A        | 65  | 50  | 100 | 490 | 180 | 225 | 308 | -   | 125 | 95  | 320 | 250     | 60  | -   | -  | 65 | -  | 14 | -   | 175 | 175     | 300     | -   | -   | 15 | -       | 68         |
|                        | 530                           |     |     |     | 340 |     |     | 330 |     |     |     |     |         |     |     |    |    |    |    |     |     |         | 85-78   |     |     |    |         |            |
|                        | NM4 65/16B-60/A-C-60/A        | 80  | 65  | 100 | 470 | 160 | 200 | 288 | -   | 125 | 95  | 280 | 212     | 62  | -   | -  | 65 | -  | 14 | -   | 150 | 172     | 255     | -   | -   | 15 | -       | 48-48      |
|                        | 495                           |     |     |     | 60  |     |     |     |     |     |     |     |         | 300 |     |    |    |    |    |     |     |         | 54,5    |     |     |    |         |            |
|                        | NM4 65/16A-60/A               | 80  | 65  | 100 | 505 | 180 | 225 | 308 | -   | 125 | 95  | 320 | 250     | 60  | -   | -  | 65 | -  | 14 | -   | 155 | 175     | 310     | -   | -   | 15 | -       | 61         |
|                        | 525                           |     |     |     | 340 |     |     | 330 |     |     |     |     |         |     |     |    |    |    |    |     |     |         | 73,5    |     |     |    |         |            |
|                        | NM4 65/25B-60/A               | 80  | 65  | 100 | 540 | 200 | 250 | 360 | -   | 160 | 120 | 360 | 280     | 60  | -   | -  | 80 | -  | 18 | -   | 175 | 190     | 345     | -   | -   | 18 | -       | 97         |
|                        | 645                           |     |     |     | 385 |     |     | 415 |     |     |     |     |         |     |     |    |    |    |    |     |     |         | 116     |     |     |    |         |            |
|                        | NM4 65/31B-60/A-C-60/A        | 80  | 65  | 125 | 670 | 225 | 280 | 410 | -   | 160 | 120 | 400 | 315     | 75  | -   | -  | 80 | -  | 18 | -   | 220 | 220     | 415     | -   | -   | 20 | -       | 164-153    |
| 720                    | 170                           |     |     |     | 465 |     |     |     |     |     |     |     |         |     |     |    |    |    |    |     |     |         | 176     |     |     |    |         |            |
| NM4 80/16C-60/A        | 100                           | 80  | 125 | 495 | 180 | 225 | 288 | -   | 125 | 95  | 320 | 250 | 62      | -   | -   | 65 | -  | 14 | -  | 165 | 193 | 255     | -       | -   | 15  | -  | 53      |            |
| 520                    |                               |     |     | 308 |     |     | 300 |     |     |     |     |     | 65,5-61 |     |     |    |    |    |    |     |     |         |         |     |     |    |         |            |
| NM4 80/20C-60/A        | 100                           | 80  | 125 | 540 | 180 | 250 | 308 | -   | 125 | 95  | 345 | 280 | 60      | -   | -   | 65 | -  | 14 | -  | 170 | 194 | 320     | -       | -   | 15  | -  | 74,5    |            |
| 560                    |                               |     |     | 340 |     |     | 340 |     |     |     |     |     |         |     |     |    |    |    |    |     |     | 91-82   |         |     |     |    |         |            |
| NM4 80/25C-60/A        | 100                           | 80  | 125 | 565 | 200 | 280 | 360 | -   | 160 | 120 | 400 | 315 | 60      | -   | -   | 80 | -  | 18 | -  | 191 | 210 | 335     | -       | -   | 20  | -  | 102     |            |
| 670                    |                               |     |     | 385 |     |     | 415 |     |     |     |     |     |         |     |     |    |    |    |    |     |     | 135-124 |         |     |     |    |         |            |
| NM4 80/25A-60/A-B-60/A | 100                           | 80  | 125 | 670 | 200 | 280 | 385 | -   | 160 | 120 | 400 | 315 | 60      | -   | -   | 80 | -  | 18 | -  | 191 | 210 | 415     | -       | -   | 20  | -  | 135-124 |            |
| 670                    |                               |     |     | 385 |     |     | 415 |     |     |     |     |     |         |     |     |    |    |    |    |     |     | 135-124 |         |     |     |    |         |            |
| NM4 80/31C-60/A        | 100                           | 80  | 125 | 720 | 250 | 315 | 435 | -   | 160 | 120 | 400 | 315 | 90      | -   | -   | 80 | -  | 18 | -  | 220 | 232 | 465     | -       | -   | 20  | -  | 181     |            |
| 3                      | NM4 80/31A-60/A-B-60/A        | 100 | 80  | 125 | 850 | 260 | 315 | 466 | 10  | 160 | 120 | 400 | 315     | -   | 254 | 20 | 80 | 74 | 18 | 14  | 220 | 232     | 210     | 435 | 395 | -  | 6       | 269-248    |
| 2                      | NM4 100/20B-60/A-C-60/A       | 125 | 100 | 125 | 565 | 200 | 280 | 360 | -   | 160 | 120 | 360 | 280     | 60  | -   | -  | 80 | -  | 18 | -   | 180 | 212     | 330     | -   | -   | 20 | -       | 99-90      |
|                        | NM4 100/20A-60/A              | 125 | 100 | 125 | 665 | 200 | 280 | 385 | -   | 160 | 120 | 360 | 280     | 60  | -   | -  | 80 | -  | 18 | -   | 180 | 212     | 410     | -   | -   | 20 | -       | 109        |
|                        | NM4 100/25B-60/A              | 125 | 100 | 140 | 685 | 225 | 280 | 410 | -   | 160 | 120 | 400 | 315     | 75  | -   | -  | 80 | -  | 18 | -   | 205 | 233     | 415     | -   | -   | 20 | -       | 143        |
| 3                      | NM4 100/25A-60/A              | 125 | 100 | 140 | 735 | 225 | 280 | 410 | -   | 160 | 120 | 400 | 315     | 75  | -   | -  | 80 | -  | 18 | -   | 205 | 233     | 465     | -   | -   | 20 | -       | 152        |
| 3                      | NM4 100/315B-60/A-C-60/A      | 125 | 100 | 140 | 865 | 260 | 315 | 466 | 10  | 160 | 120 | 400 | 315     | -   | 254 | 20 | 80 | 74 | 18 | 14  | 230 | 250     | 210     | 435 | 395 | -  | 6       | 280-261    |
| 2                      | NM4 125/25D-60/A-E-60/A       | 150 | 125 | 140 | 685 | 250 | 355 | 435 | -   | 160 | 120 | 400 | 315     | 90  | -   | -  | 80 | -  | 18 | -   | 235 | 268     | 415     | -   | -   | 20 | -       | 161-149    |
|                        | NM4 125/25C-60/A              | 150 | 125 | 140 | 735 | 250 | 355 | 435 | -   | 160 | 120 | 400 | 315     | 90  | -   | -  | 80 | -  | 18 | -   | 235 | 268     | 465     | -   | -   | 20 | -       | 173        |
| 3                      | NM4 125/250A-60/A-B-60/A      | 150 | 125 | 140 | 865 | 260 | 355 | 466 | 10  | 160 | 120 | 400 | 315     | -   | 254 | 20 | 80 | 74 | 18 | 14  | 235 | 268     | 210     | 435 | 395 | -  | 6       | 261-243    |



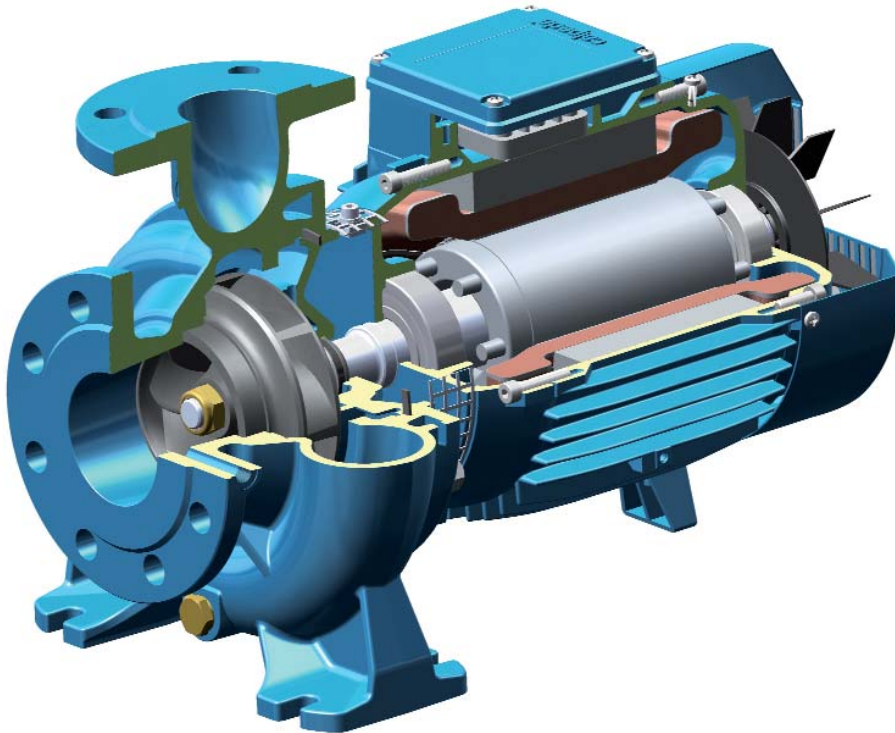
| mm  |     |     |     |       |    |    |
|-----|-----|-----|-----|-------|----|----|
| DN  | DG  | DK  | DE  | Holes |    | W  |
|     |     |     |     | N°    | Ø  |    |
| 32  | 76  | 100 | 140 | 4     | 19 | 18 |
| 40  | 84  | 110 | 150 | 4     | 19 | 18 |
| 50  | 99  | 125 | 165 | 4     | 19 | 20 |
| 65  | 118 | 145 | 185 | 4     | 19 | 20 |
| 80  | 132 | 160 | 200 | 8     | 19 | 22 |
| 100 | 156 | 180 | 220 | 8     | 19 | 24 |
| 125 | 184 | 210 | 250 | 8     | 19 | 24 |
| 150 | 211 | 240 | 285 | 8     | 23 | 26 |
| 200 | 266 | 295 | 340 | 8     | 23 | 30 |

| Picture          | NMS4             | mm  |     |      |      |     |     |     |     |     |     |     |     |     |     |     |    |     |     |     |     |     |     |     | kg  |
|------------------|------------------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
|                  |                  | DN1 | DN2 | a    | fM   | h1  | h2  | H   | m1  | m2  | n1  | n2  | n5  | w1  | b   | b1  | s  | s1  | l1  | l2  | w   | m4  | m5  | g2  |     |
| 4                | NMS4 80/400C-60  | 125 | 80  | 125  | 974  | 280 | 355 | 542 | 160 | 120 | 435 | 355 | 279 | 25  | 80  | 70  | 18 | 15  | 268 | 268 | 318 | 520 | 435 | 6   | -   |
|                  | NMS4 80/400B-60  | 125 | 80  | 125  | 1025 | 280 | 355 | 542 | 160 | 120 | 435 | 355 | 279 | 25  | 80  | 70  | 18 | 15  | 268 | 268 | 318 | 520 | 435 | 6   | -   |
|                  | NMS4 80/400A-60  | 125 | 80  | 125  | 1025 | 280 | 355 | 580 | 160 | 120 | 435 | 355 | 318 | 25  | 80  | 83  | 18 | 19  | 268 | 268 | 334 | 540 | 455 | 6   | 413 |
|                  | NMS4 100/315A-60 | 125 | 100 | 140  | 984  | 250 | 315 | 512 | 160 | 120 | 400 | 315 | 279 | 25  | 80  | 70  | 18 | 15  | 230 | 250 | 312 | 432 | 382 | 6   | 308 |
|                  | NMS4 100/400C-60 | 125 | 100 | 140  | 1040 | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 268 | 280 | 318 | 520 | 435 | 6   | 366 |
|                  | NMS4 100/400B-60 | 125 | 100 | 140  | 1040 | 280 | 355 | 580 | 200 | 150 | 500 | 400 | 318 | 25  | 100 | 83  | 22 | 19  | 268 | 280 | 334 | 540 | 455 | 6   | 419 |
|                  | NMS4 100/400A-60 | 125 | 100 | 140  | 1139 | 280 | 355 | 605 | 200 | 150 | 500 | 400 | 356 | 55  | 100 | 103 | 22 | 19  | 268 | 280 | 384 | 540 | 460 | 8   | 506 |
|                  | NMS4 125/315C-60 | 150 | 125 | 140  | 989  | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 247 | 278 | 318 | 520 | 435 | 6   | 331 |
|                  | NMS4 125/315B-60 | 150 | 125 | 140  | 1040 | 280 | 355 | 542 | 200 | 150 | 500 | 400 | 279 | 25  | 100 | 70  | 22 | 15  | 247 | 278 | 318 | 520 | 435 | 6   | 356 |
|                  | NMS4 125/315A-60 | 150 | 125 | 140  | 1040 | 280 | 355 | 580 | 200 | 150 | 500 | 400 | 318 | 25  | 100 | 83  | 22 | 19  | 247 | 278 | 334 | 540 | 455 | 6   | -   |
|                  | NMS4 125/400C-60 | 150 | 125 | 140  | 1139 | 315 | 400 | 640 | 200 | 150 | 500 | 400 | 356 | 25  | 100 | 103 | 22 | 19  | 280 | 305 | 409 | 540 | 461 | 8   | -   |
|                  | NMS4 125/400B-60 | 150 | 125 | 140  | 1199 | 315 | 400 | 640 | 200 | 150 | 500 | 400 | 356 | 25  | 100 | 103 | 22 | 19  | 280 | 305 | 409 | 540 | 461 | 8   | 524 |
|                  | NMS4 125/400A-60 | 150 | 125 | 140  | 1307 | 315 | 400 | 707 | 200 | 150 | 500 | 400 | 406 | 25  | 100 | 100 | 22 | 24  | 280 | 305 | 454 | 540 | 461 | 8   | -   |
|                  | NMS4 150/315D-60 | 200 | 150 | 160  | 1009 | 280 | 400 | 542 | 200 | 150 | 550 | 450 | 279 | 25  | 100 | 70  | 22 | 15  | 260 | 298 | 318 | 520 | 435 | 6   | 349 |
|                  | NMS4 150/315C-60 | 200 | 150 | 160  | 1060 | 280 | 400 | 542 | 200 | 150 | 550 | 450 | 279 | 25  | 100 | 70  | 22 | 15  | 260 | 298 | 318 | 520 | 435 | 6   | 374 |
| NMS4 150/315B-60 | 200              | 150 | 160 | 1060 | 280  | 400 | 580 | 200 | 150 | 550 | 450 | 318 | 25  | 100 | 83  | 22  | 19 | 260 | 298 | 334 | 540 | 455 | 6   | 421 |     |
| NMS4 150/315A-60 | 200              | 150 | 160 | 1159 | 280  | 400 | 605 | 200 | 150 | 550 | 450 | 356 | 55  | 100 | 103 | 22  | 19 | 260 | 298 | 384 | 540 | 460 | 8   | -   |     |
| NMS4 150/400C-60 | 200              | 150 | 160 | 1219 | 315  | 450 | 640 | 200 | 150 | 550 | 450 | 356 | 25  | 100 | 103 | 22  | 19 | 295 | 328 | 409 | 540 | 461 | 8   | 594 |     |
| NMS4 150/400B-60 | 200              | 150 | 160 | 1277 | 315  | 450 | 707 | 200 | 150 | 550 | 450 | 406 | 25  | 100 | 100 | 22  | 24 | 295 | 328 | 450 | 540 | 461 | 8   | 715 |     |
| NMS4 150/400A-60 | 200              | 150 | 160 | 1280 | 315  | 450 | 747 | 200 | 150 | 550 | 450 | 457 | 45  | 100 | 100 | 22  | 24 | 295 | 328 | 432 | 625 | 535 | 6   | -   |     |

## Features

### NM4

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#### Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

#### Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NM and NM4 series pumps to be selected for use with different types of liquids.

#### Compact Design

The compact design allows for easy installation even in confined spaces.

#### Exclusive design

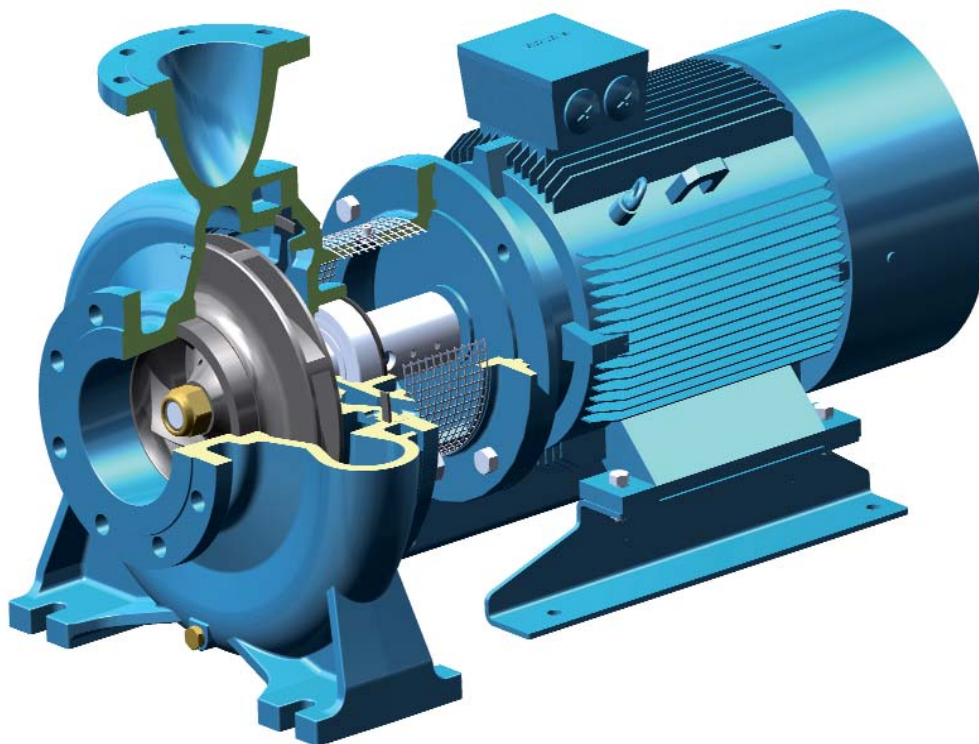
An innovative, patented guard prevents contact with rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

#### Reliability

The bearing and shaft are designed to ensure the reduction of the stress, providing high reliability under all operating conditions.

## Features

### NMS4



#### Cutting edge hydraulics

The geometry of the impeller and the pump casing are optimized to achieve maximum efficiency and the best suction capability.

#### Flexibility

The option to choose between cast iron and bronze materials for the hydraulic parts in contact with the pumped liquid allows NMS and NMS4 series pumps to be selected for use with different types of liquids.

#### New lantern bracket construction

The lantern brackets incorporate a thrust bearing on the hydraulic side which guarantees the elimination of additional loads on the motor bearings. The flange is sized to be used with standard motors B35.

#### Exclusive design

An innovative, patented guard prevents contact with rotating parts, proving protection to the end user whilst allowing for inspection of the mechanical seal.

#### Simplified motor maintenance

The presence of the thrust bearing on the hydraulic side makes it easier to remove the motor, facilitating maintenance operations and eliminating the risks of damage to the hydraulic parts.