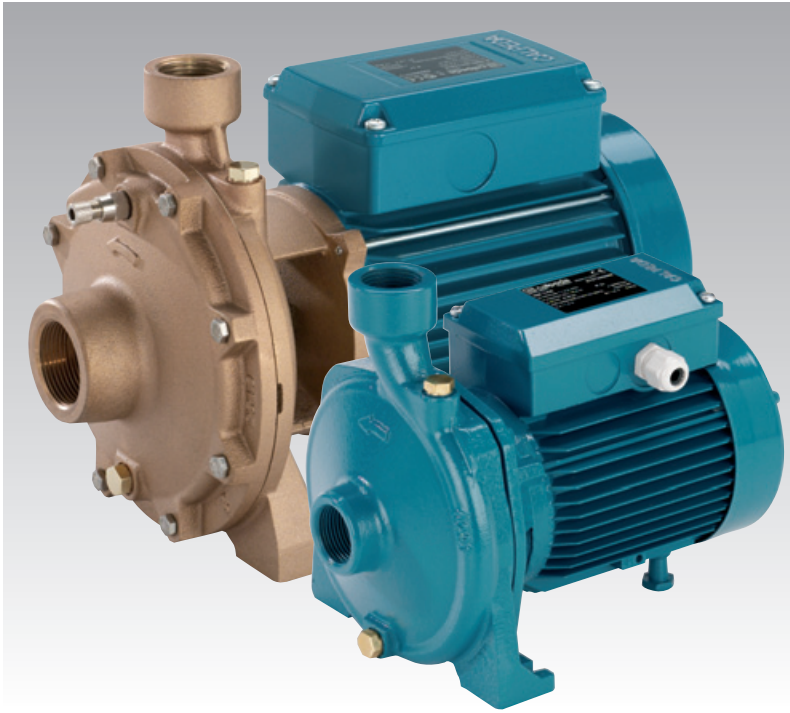


# NM, NMD

## 60 Hz

Close Coupled Centrifugal Pumps with threaded ports



### Construction

Close-coupled, centrifugal pumps; electric motor with extended shaft directly connected to the pump.

**NM:** single-impeller

**NMD:** with two back-to-back impellers (with axial thrust balancing).

**Connections:** threaded ports ISO 228/1 (BS 2779).

The pumps in bronze are supplied fully painted.

### Applications

- For clean liquids without abrasives, which are, non-aggressive for the pump materials (solids content up to 0.2%).
- For water supply.
- For heating, air-conditioning, cooling and circulation plants.
- For civil and industrial applications.
- For fire fighting applications.
- 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 (16 bar for pumps NMD 25/190; NMD 32/210; NMD 40/180). Continuous duty.

### Motor

2-pole induction motor, 60 Hz (n = 3450 rpm).

**NM, NMD:** three-phase 220/380 V, 380/660 V.

**NMM, NMDM:** single-phase 220 V.

With thermal protector up to 1.1 kW.

Insulation class F.

Protection IP 54.

**Classification scheme IE2 for three-phase motors from 0,75 kW.**

Constructed in accordance with EN 60034-1; EN 60034-30. EN 60335-1, EN 60335-2-41.

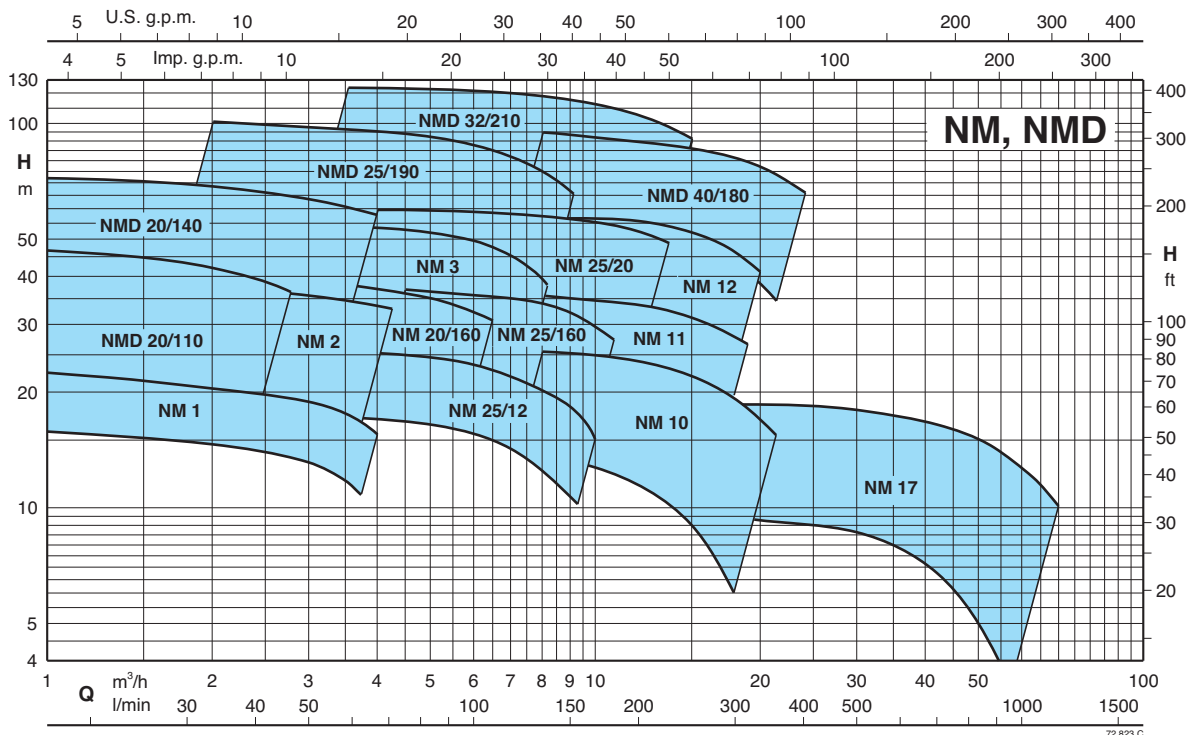
### Materials

| Components      | NM, NMD                                   | B-NM, B-NMD                |
|-----------------|---|----------------------------|
| Pump casing     | Cast iron                                 | Bronze                     |
| Lantern bracket | GJL 200 EN 1561                           | G-Cu Sn 10 EN 1982         |
| Impeller        | Brass P- Cu Zn 40 Pb 2 UNI 5705           |                            |
| NM 17           | Cast iron                                 | Bronze                     |
|                 | GJL 200 EN 1561                           | G-Cu Sn 10 EN 1982         |
| Shaft           | Cr steel AISI 430                         | Cr Ni Mo steel<br>AISI 316 |
|                 | Cr Ni steel AISI 303<br>1,1 -1,5 - 2,2 kW |                            |
| Mechanical seal | Carbon - Ceramic - NBR                    |                            |

### Special features on request

- Other voltages.
- Protection IP 55.
- Special mechanical seal
- Higher or lower liquid or ambient temperatures.

### Coverage chart n = 3450 rpm



### Performance $n \approx 3450$ rpm

|  | NM           | P <sub>2</sub> |      | Q<br>m³/h<br>l/min |      |      |      |      |      |      |      |      |      |     |       |       |     |     |
|--|--------------|----------------|------|--------------------|------|------|------|------|------|------|------|------|------|-----|-------|-------|-----|-----|
|  |              | kW             | HP   |                    | 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 |
|  |              |                |      |                    | 16   | 20   | 25   | 31,5 | 40   | 50   | 60   | 70   | 80   | 90  | 100   | 110   | 125 | 140 |
|  |              |                |      | H<br>m             | 22   | 21,8 | 21,5 | 21   | 20,3 | 19,4 | 18,1 | 16,3 | 14,2 |     |       |       |     |     |
|  | NM 1/AE-60●  | 0,37           | 0,5  |                    | 27   | 26,5 | 26   | 25,5 | 25   | 24   | 23   | 22   | 20   |     |       |       |     |     |
|  | NM 2/B-60/A● | 0,55           | 0,75 |                    | 32   | 31,5 | 31   | 30,5 | 30   | 28   | 25,5 | 23   | 19,5 |     |       |       |     |     |
|  | NM 2/S-60/A● | 0,55           | 0,75 |                    | 36   | 35,5 | 35   | 34,5 | 34   | 32,5 | 31,5 | 30   | 28,5 | 27  |       |       |     |     |
|  | NM 2/A-60/A● | 0,75           | 1    |                    |      |      |      |      |      |      |      |      |      |     |       |       |     |     |
|  | NMM 3/CE-60  | 1,1            | 1,5  |                    |      | 39,5 | 39   | 39   | 38   | 37   | 36,5 | 35   | 33,5 |     |       |       |     |     |
|  | NM 3/CE-60   | 1,1            | 1,5  |                    |      | 40   | 39,5 | 39,5 | 39   | 38   | 37   | 36   | 34   | 32* | 29*   |       |     |     |
|  | NMM 3/BE-60  | 1,5            | 2    |                    |      | 45,5 | 45   | 45   | 44,5 | 44   | 43   | 42   | 41   | 39* | 36*   | 32*   |     |     |
|  | NM 3/BE-60   | 1,5            | 2    |                    |      | 47   | 46,5 | 46   | 45,5 | 45   | 44,5 | 43,5 | 42   | 40* | 37*   | 33,5* | 28* |     |
|  | NM 3/A-60/A  | 2,2            | 3    |                    | 55,5 | 55   | 54,5 | 54   | 53,5 | 53   | 52,5 | 52   | 51*  | 49* | 46,5* | 42*   | 35* |     |

| B-NM<br>B-NMD       | NM<br>NMD         | P <sub>2</sub> |      | Q<br>m³/h<br>l/min |      |      |     |      |      |    |      |       |      |      |     |     |     |     |
|---------------------|-------------------|----------------|------|--------------------|------|------|-----|------|------|----|------|-------|------|------|-----|-----|-----|-----|
|                     |                   | kW             | HP   |                    | 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 |
|                     |                   |                |      |                    | 16   | 20   | 25  | 31,5 | 40   | 50 | 60   | 70    | 80   | 90   | 100 | 110 | 125 | 140 |
| B-NMD 20/110B-60/A● | NMD 20/110B-60/A● | 0,45           | 0,6  | H<br>m             | 36,5 | 35,5 | 34  | 32   | 28,5 | 24 | 19*  |       |      |      |     |     |     |     |
| B-NMD 20/110Z-60/A● | NMD 20/110Z-60/A● | 0,55           | 0,75 |                    | 41   | 40   | 38  | 36   | 32,5 | 28 | 23   | 17*   |      |      |     |     |     |     |
| B-NMD 20/110A-60/A● | NMD 20/110A-60/A● | 0,75           | 1    |                    | 47   | 46,5 | 45  | 42,5 | 39   | 34 | 29   | 23,5* |      |      |     |     |     |     |
| B-NMDM 20/140BE-60  | NMDM 20/140BE-60  | 1,1            | 1,5  |                    | 59   | 58,5 | 58  | 57   | 55   | 52 | 47,5 |       |      |      |     |     |     |     |
| B-NMD 20/140BE-60   | NMD 20/140BE-60   | 1,1            | 1,5  |                    | 60   | 59,5 | 59  | 58   | 56   | 53 | 49   | 45    |      |      |     |     |     |     |
| B-NMDM 20/140AE-60  | NMDM 20/140AE-60  | 1,5            | 2    |                    | 66,5 | 65,5 | 65  | 64   | 62,5 | 60 | 57,5 | 55    | 51   | 47,5 |     |     |     |     |
| B-NMD 20/140AE-60   | NMD 20/140AE-60   | 1,5            | 2    |                    | 77   | 76,5 | 76  | 75   | 73,5 | 71 | 69   | 66    | 63   | 59   | 54  |     |     |     |
| B-NM 20/160BE-60●   | NM 20/160BE-60●   | 0,75           | 1    |                    |      |      |     | 33   | 33   | 32 | 31   | 30    | 28,5 | 26,5 | 25  | 23* |     |     |
| B-NM 20/160AE-60●   | NM 20/160AE-60●   | 1,1            | 1,5  |                    |      |      |     | 39   | 38,5 | 38 | 37   | 36    | 35   | 34   | 33  | 31* |     |     |

| B-NM<br>B-NMD      | NM<br>NMD        | P <sub>2</sub> |      | Q<br>m³/h<br>l/min |      |      |      |      |      |      |      |      |      |       |      |       |     |      |
|--------------------|------------------|----------------|------|--------------------|------|------|------|------|------|------|------|------|------|-------|------|-------|-----|------|
|                    |                  | kW             | HP   |                    | 2,4  | 3    | 3,6  | 4,8  | 6    | 6,6  | 7,5  | 8,4  | 9,6  | 10,8  | 12   | 13,2  | 15  | 16,8 |
|                    |                  |                |      |                    | 40   | 50   | 60   | 80   | 100  | 110  | 125  | 140  | 160  | 180   | 200  | 220   | 250 | 280  |
| B-NM 25/12B-60/A●  | NM 25/12B-60/A●  | 0,55           | 0,75 | H<br>m             | 20,8 | 20,8 | 20,7 | 20,3 | 19,6 | 19,2 | 18,4 | 17,6 | 16,1 | 14,3  | 12   | 9,3   |     |      |
| B-NM 25/12A-60/A●  | NM 25/12A-60/A●  | 0,75           | 1    |                    | 24,5 | 24,6 | 24,6 | 24,3 | 23,6 | 23,1 | 22,4 | 21,6 | 20,4 | 19    | 17   | 14,5  |     |      |
| B-NM 25/160BE-60●  | NM 25/160BE-60●  | 1,1            | 1,5  |                    |      |      | 32   | 31,5 | 31   | 30   | 29   | 28   | 26,5 | 23,5* |      |       |     |      |
| B-NM 25/160AE-60●  | NM 25/160AE-60●  | 1,5            | 2    |                    |      |      | 38   | 37,5 | 37   | 36   | 35,5 | 34,5 | 33   | 31    | 27,5 | 22,5* |     |      |
| B-NM 25/200B-60/A  | NM 25/200B-60/A  | 2,2            | 3    |                    |      |      | 46   | 45,5 | 45   | 44   | 43,5 | 42,5 | 41,5 | 39    | 36,5 | 33*   |     |      |
| B-NM 25/200A-60/A  | NM 25/200A-60/A  | 3              | 4    |                    |      |      | 53   | 52,5 | 52   | 51,5 | 48,5 | 50   | 49   | 47,5  | 45,5 | 43    | 40* |      |
| B-NM 25/200S-60/A  | NM 25/200S-60/A  | 4              | 5,5  |                    |      |      | 60   | 59,5 | 59   | 58,5 | 58   | 57,5 | 56,5 | 55    | 54   | 52    | 50  | 45,5 |
| B-NMD 25/190C-60/A | NMD 25/190C-60/A | 2,2            | 3    |                    |      | 69   | 67   | 65   | 60   | 53   | 50   | 42   |      |       |      |       |     |      |
| B-NMD 25/190B-60/A | NMD 25/190B-60/A | 3              | 4    |                    |      | 81   | 80   | 78   | 73   | 67,5 | 64   | 58   | 51,5 | 41*   |      |       |     |      |
| B-NMD 25/190A-60/A | NMD 25/190A-60/A | 4              | 5,5  |                    | 98   | 97   | 95   | 92   | 87   | 84   | 79   | 72,5 | 63*  |       |      |       |     |      |

|  | NM           | P <sub>2</sub> |      | Q<br>m³/h<br>l/min |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|--|--------------|----------------|------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
|  |              | kW             | HP   |                    | 6,6  | 7,5  | 8,4  | 9,6  | 10,8 | 12   | 13,2 | 15   | 16,8 | 18,9 | 21   | 24   | 27  | 30  |
|  |              |                |      |                    | 110  | 125  | 140  | 160  | 180  | 200  | 220  | 250  | 280  | 315  | 350  | 400  | 450 | 500 |
|  |              |                |      | H<br>m             | 14   | 13,5 | 13   | 12,5 | 12   | 11,5 | 10,5 | 9    |      |      |      |      |     |     |
|  | NM 10/FE-60● | 0,55           | 0,75 |                    | 19,5 | 19   | 19   | 18,5 | 18   | 17,5 | 16,5 | 15,5 |      |      |      |      |     |     |
|  | NM 10/DE-60● | 0,75           | 1    |                    | 24,5 | 24   | 24   | 23,5 | 23   | 22   | 21,5 | 20   |      |      |      |      |     |     |
|  | NM 10/AE-60● | 1,1            | 1,5  |                    | 26   | 26   | 25,5 | 25,5 | 25   | 24,5 | 24   | 22,5 | 21   | 19   | 16,5 | 12,5 |     |     |
|  | NM 10/SE-60● | 1,5            | 2    |                    |      |      |      |      |      |      |      |      |      |      |      |      |     |     |
|  | NMM 11/BE-60 | 1,5            | 2    |                    |      | 29,5 | 29   | 28,5 | 28   | 27   | 26   | 25   | 22,5 | 20   |      |      |     |     |
|  | NM 11/BE-60  | 1,5            | 2    |                    |      | 31   | 30,5 | 30   | 29,5 | 29   | 28   | 27   | 25   | 23*  |      |      |     |     |
|  | NM 11/A-60/A | 2,2            | 3    |                    |      | 36,5 | 36   | 35,5 | 35   | 34   | 33   | 32,5 | 31   | 29*  |      |      |     |     |
|  | NM 12/D-60/A | 2,2            | 3    |                    |      | 39   | 38   | 37,5 | 36,5 | 35   | 34   | 32*  |      |      |      |      |     |     |
|  | NM 12/C-60/A | 3              | 4    |                    | 45   | 44,5 | 44   | 43   | 42   | 41   | 40   | 37   | 34*  |      |      |      |     |     |
|  | NM 12/A-60/A | 4              | 5,5  |                    | 57   | 56,5 | 56   | 55,5 | 55   | 54   | 53   | 51   | 49*  |      |      |      |     |     |

#### Performance n ≈ 3450 rpm

1

| B-NMD              | NMD              | P <sub>2</sub> |      | Q<br>m <sup>3</sup> /h<br>l/min | 5,4 | 6   | 6,6 | 7,5  | 8,4  | 9,6  | 10,8 | 12   | 13,2 | 15   | 16,8 | 18,9 | 21   | 24  |
|--------------------|------------------|----------------|------|---------------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|
|                    |                  | kW             | HP   |                                 | 90  | 100 | 110 | 125  | 140  | 160  | 180  | 200  | 220  | 250  | 280  | 315  | 350  | 400 |
| B-NMD 32/210D-60/A | NMD 32/210D-60/A | 4              | 5,5  | H<br>m                          | 68  | 67  | 65  | 63   | 60   | 55   | 50   | 45   | 40*  |      |      |      |      |     |
| B-NMD 32/210C-60/A | NMD 32/210C-60/A | 5,5            | 7,5  |                                 | 89  | 88  | 87  | 85   | 83   | 79   | 74   | 68   | 63   | 52*  |      |      |      |     |
| B-NMD 32/210B-60/A | NMD 32/210B-60/A | 7,5            | 10   |                                 | 110 | 109 | 108 | 106  | 104  | 100  | 96   | 91   | 86   | 78*  |      |      |      |     |
| B-NMD 32/210A-60/A | NMD 32/210A-60/A | 9,2            | 12,5 |                                 | 121 | 120 | 119 | 118  | 117  | 114  | 110  | 105  | 99   | 89*  |      |      |      |     |
| B-NMD 40/180D-60/A | NMD 40/180D-60/A | 4              | 5,5  |                                 |     |     |     | 60   | 58,5 | 57   | 55,5 | 53,5 | 51,5 | 47,5 | 43,5 | 38,5 | 33,5 |     |
| B-NMD 40/180C-60/A | NMD 40/180C-60/A | 5,5            | 7,5  |                                 |     |     |     | 68   | 67,5 | 66,5 | 65,5 | 64   | 63   | 59,5 | 57   | 50   | 47,5 |     |
| B-NMD 40/180B-60/A | NMD 40/180B-60/A | 7,5            | 10   |                                 |     |     |     | 86,5 | 86   | 84,5 | 83,5 | 82   | 80   | 77,5 | 74   | 68   | 65,5 | 58* |
| B-NMD 40/180A-60/A | NMD 40/180A-60/A | 9,2            | 12,5 |                                 |     |     |     | 93,5 | 92,5 | 91,5 | 90,5 | 89   | 87   | 84,5 | 83   | 75,5 | 73,5 | 66* |

| B-NM           | NM           | P <sub>2</sub> |     | Q<br>m <sup>3</sup> /h<br>l/min | 21  | 24   | 27   | 30   | 33   | 37,8 | 42  | 48   | 54   | 60   | 66   | 75   | 84   | 96   |
|----------------|--------------|----------------|-----|---------------------------------|-----|------|------|------|------|------|-----|------|------|------|------|------|------|------|
|                |              | kW             | HP  |                                 | 350 | 400  | 450  | 500  | 550  | 630  | 700 | 800  | 900  | 1000 | 1100 | 1250 | 1400 | 1600 |
| B-NM 17/HE-60● | NM 17/HE-60● | 1,1            | 1,5 | H<br>m                          | 9,2 | 9    | 8,7  | 8,5  | 8    | 7,5  | 6,5 | 5    | 3,5* |      |      |      |      |      |
| B-NM 17/GE-60● | NM 17/GE-60● | 1,5            | 2   |                                 | 12  | 11,8 | 11,6 | 11,5 | 11   | 10,5 | 9,5 | 8    | 6,5  | 4,5* |      |      |      |      |
| B-NM 17/F-60/A | NM 17/F-60/A | 2,2            | 3   |                                 |     | 16   | 15,8 | 15,5 | 15   | 14,5 | 14  | 12,7 | 11,5 | 10   | 8*   |      |      |      |
| B-NM 17/D-60/A | NM 17/D-60/A | 3              | 4   |                                 |     |      |      | 18   | 17,7 | 17,5 | 17  | 16,5 | 15,5 | 14   | 12,5 | 11*  |      |      |

**NM, NMD** Standard construction.  
**B-NM, B-NMD** Bronze construction.

P<sub>2</sub> Rated motor power output.  
**H** Total head in m.

● With single-phase motor = NMM - NMDM.  
 \* Maximum suction lift 1-2 m.  
 Tolerances according to ISO 9906, annex A.

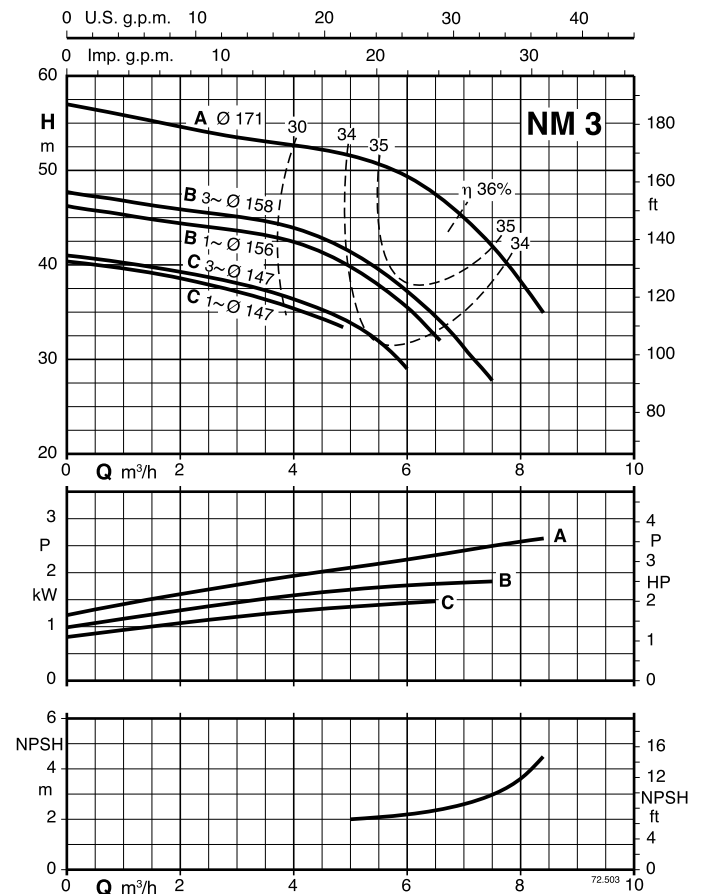
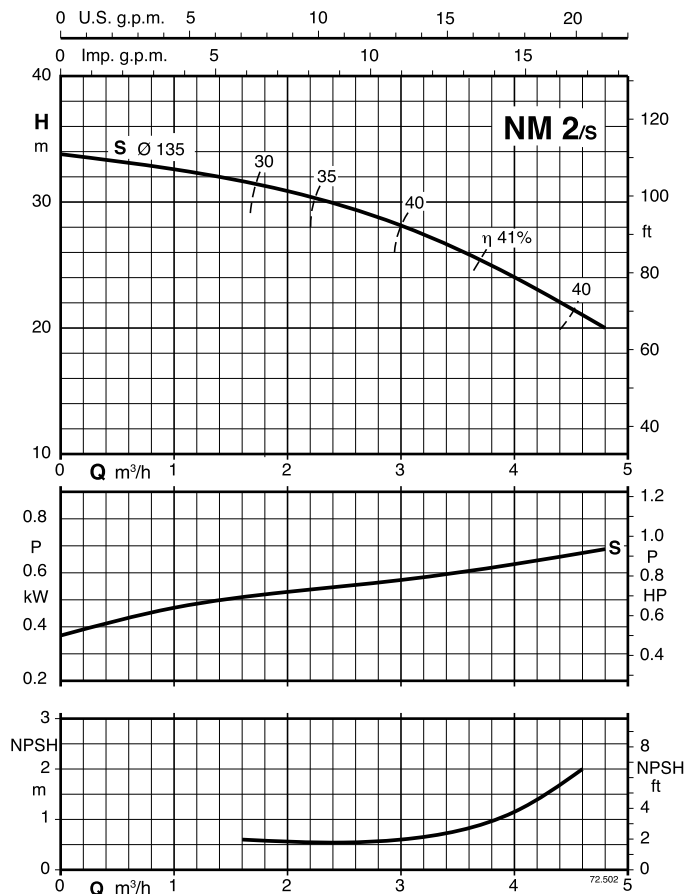
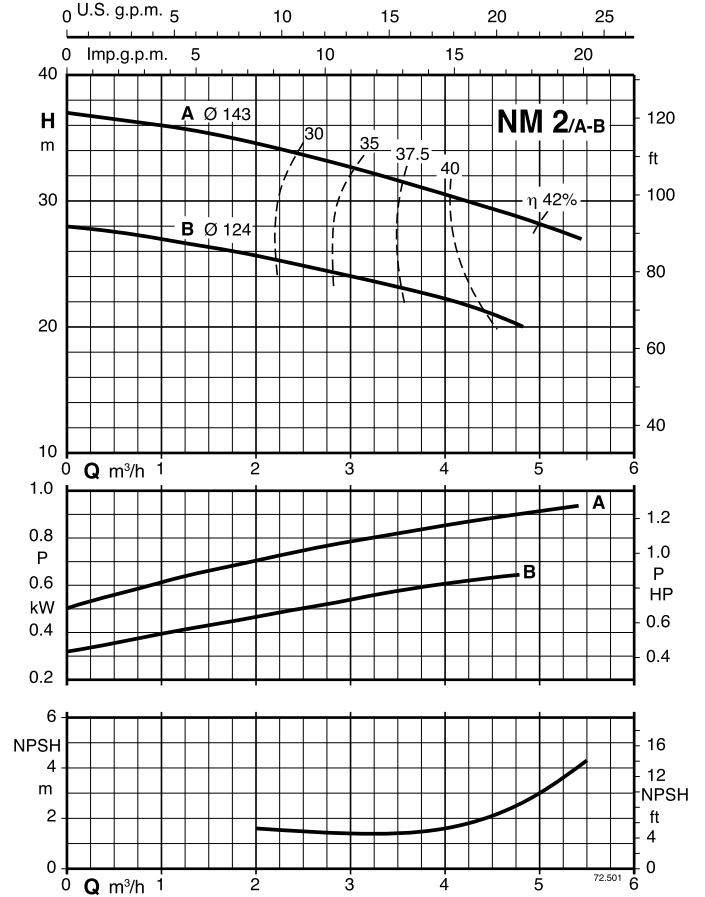
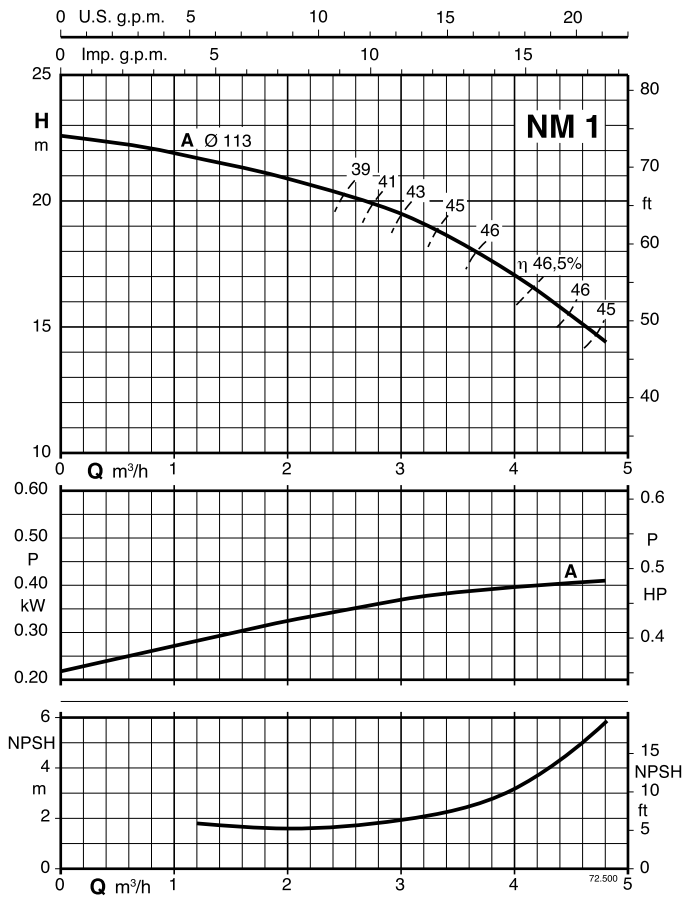
#### Rated currents

| P <sub>2</sub> |      | 220 V<br>1~<br>IN A |     | IA/IN |
|----------------|------|---------------------|-----|-------|
| kW             | HP   |                     |     |       |
| 0,37           | 0,5  | 3,4                 | 2,3 |       |
| 0,45           | 0,6  | 4,1                 | 2,5 |       |
| 0,55           | 0,75 | 5,2                 | 3,1 |       |
| 0,75           | 1    | 6,5                 | 2,9 |       |
| 1,1            | 1,5  | 8,5                 | 3   |       |
| 1,5            | 2    | 10,6                | 3,8 |       |

| P <sub>2</sub> |      | 220 V Δ / 380 V Y<br>380 V Δ / 660 V Y |      |      | IA/IN |
|----------------|------|--|------|------|-------|
| kW             | HP   | IN A                                   | IN A | IN A |       |
| 0,37           | 0,5  | 3                                      | 1,7  |      | 3,8   |
| 0,45           | 0,6  | 2,6                                    | 1,5  |      | 3,5   |
| 0,55           | 0,75 | 3,3                                    | 1,9  |      | 4,3   |
| 0,75           | 1    | 4,5                                    | 2,6  |      | 6,8   |
| 1,1            | 1,5  | 5,7                                    | 3,3  |      | 5,5   |
| 1,5            | 2    | 9                                      | 5,2  |      | 5,4   |
| 2,2            | 3    | 11,1                                   | 6,5  |      | 7,3   |
| 3              | 4    | 13,4                                   | 7,7  |      | 8,4   |
| 4              | 5,5  |  | 11,2 | 6,5  | 7,8   |
| 5,5            | 7,5  |  | 13,7 | 7,9  | 8,7   |
| 7,5            | 10   |  | 17   | 9,8  | 9,2   |
| 9,2            | 12,5 |  | 22   | 12,7 | 8,2   |

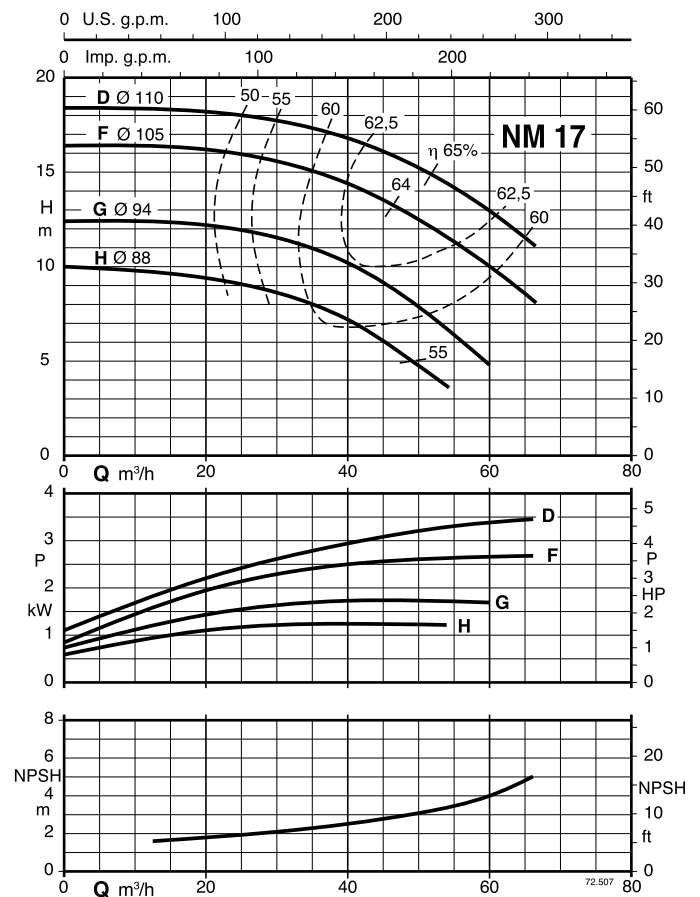
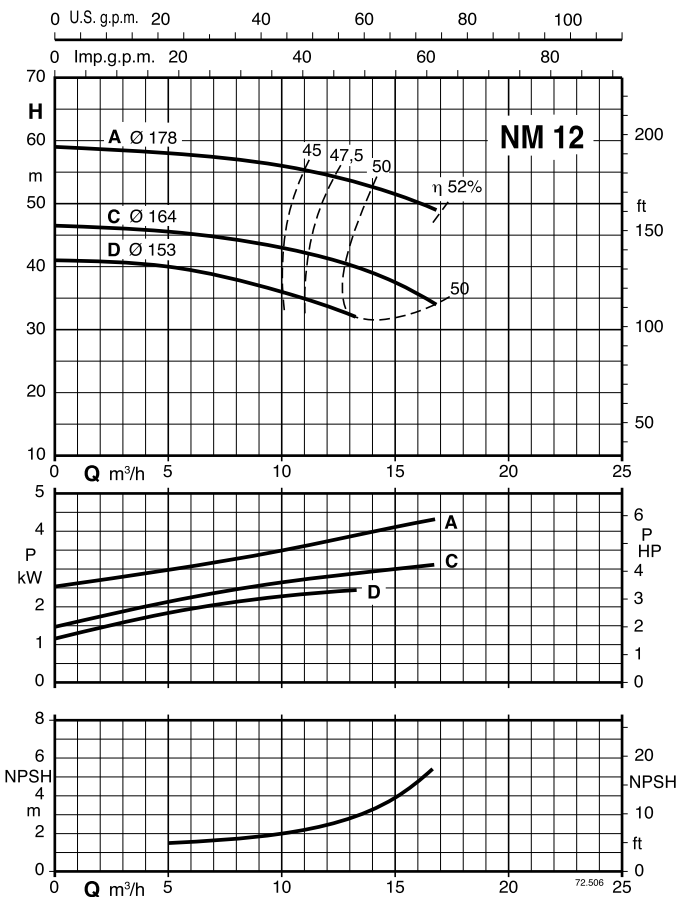
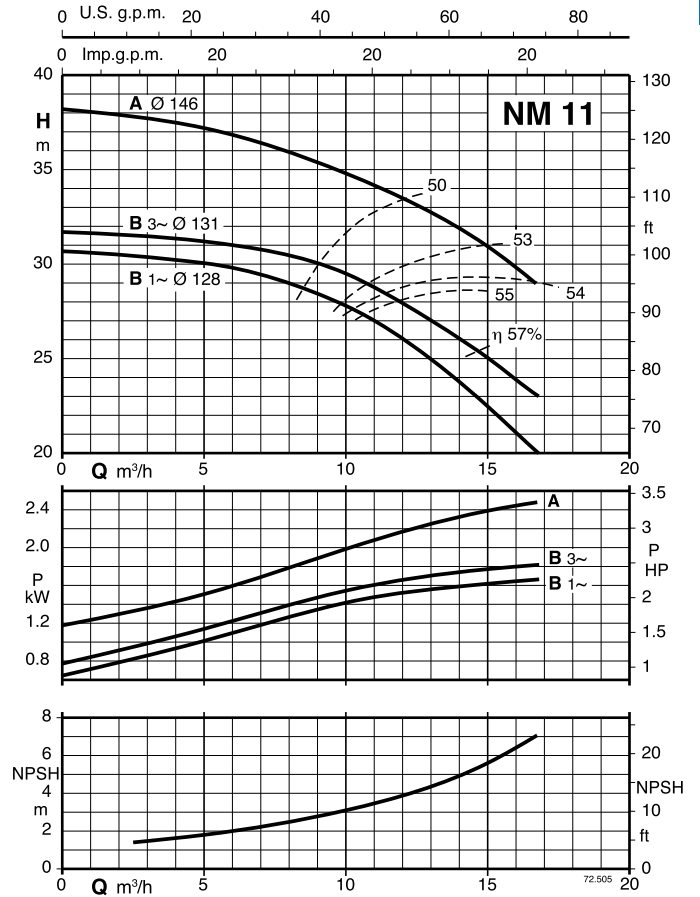
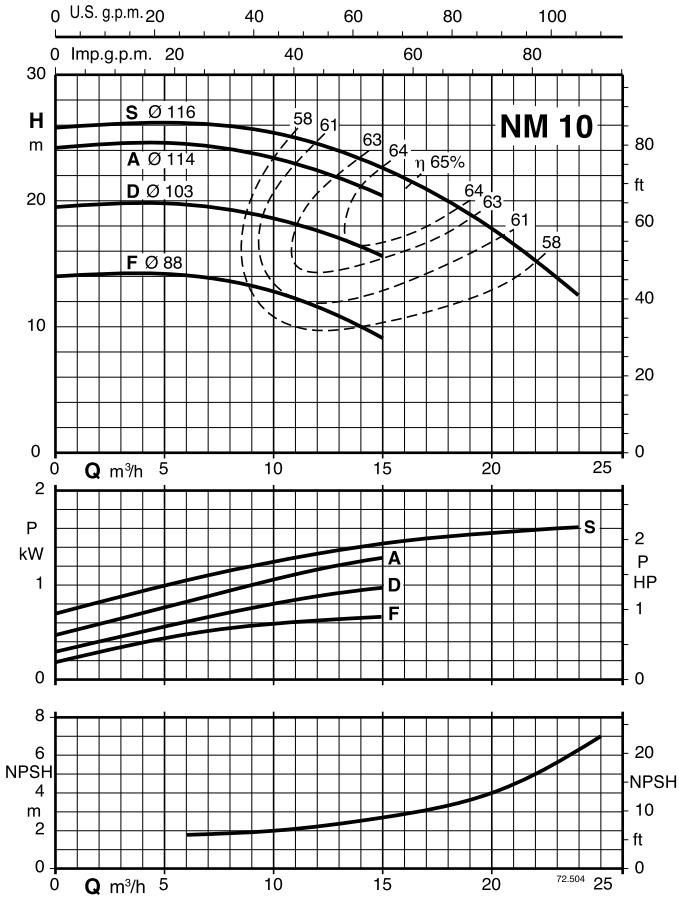
P<sub>2</sub> Rated motor power output.  
 IA/IN D.O.L. starting current / Rated current

Characteristic curves n = 3450 rpm

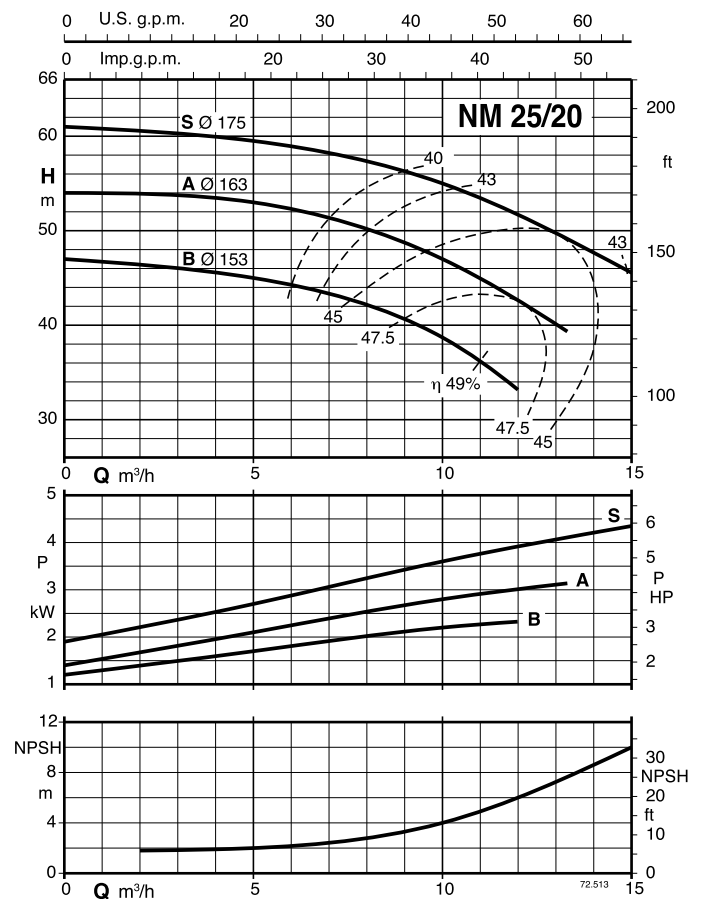
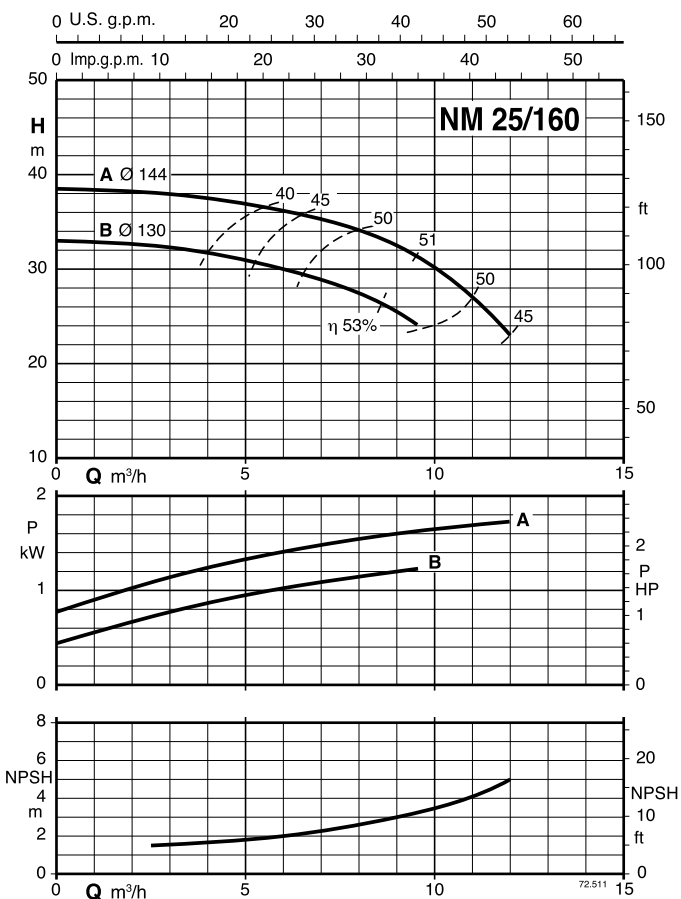
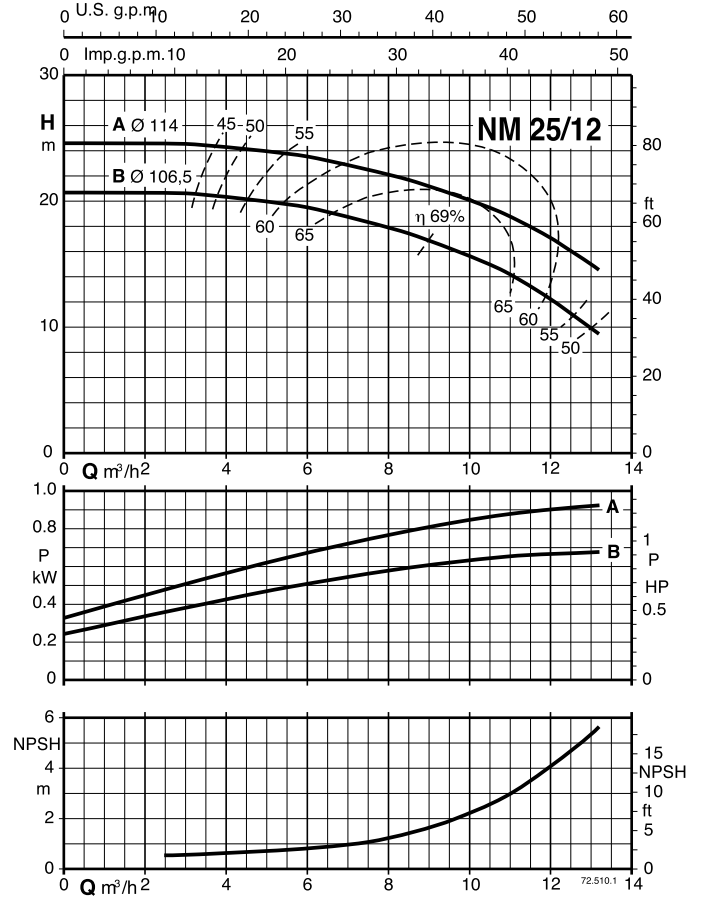
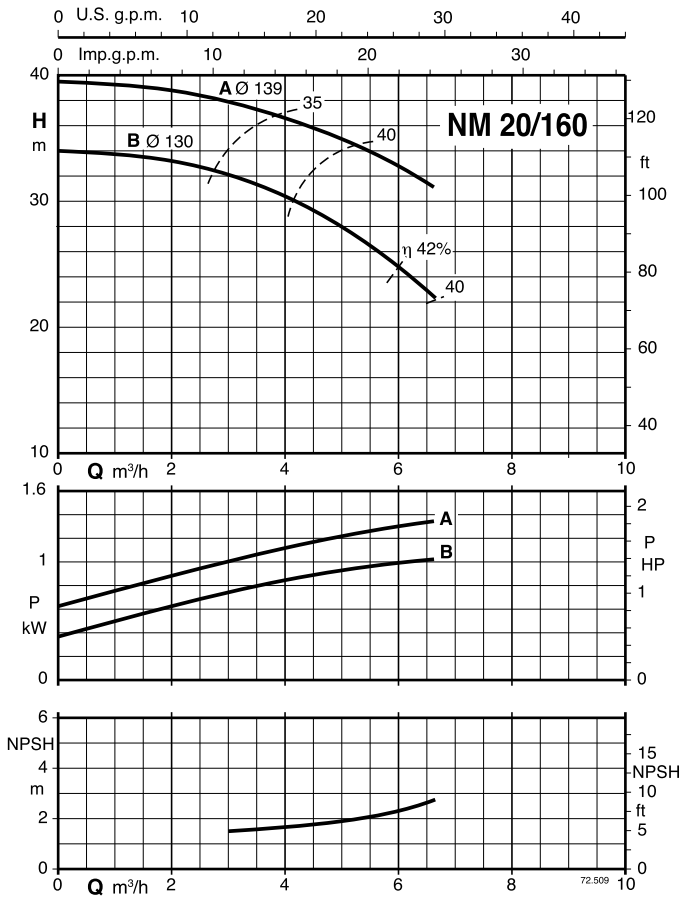


### Characteristic curves n = 3450 rpm

1

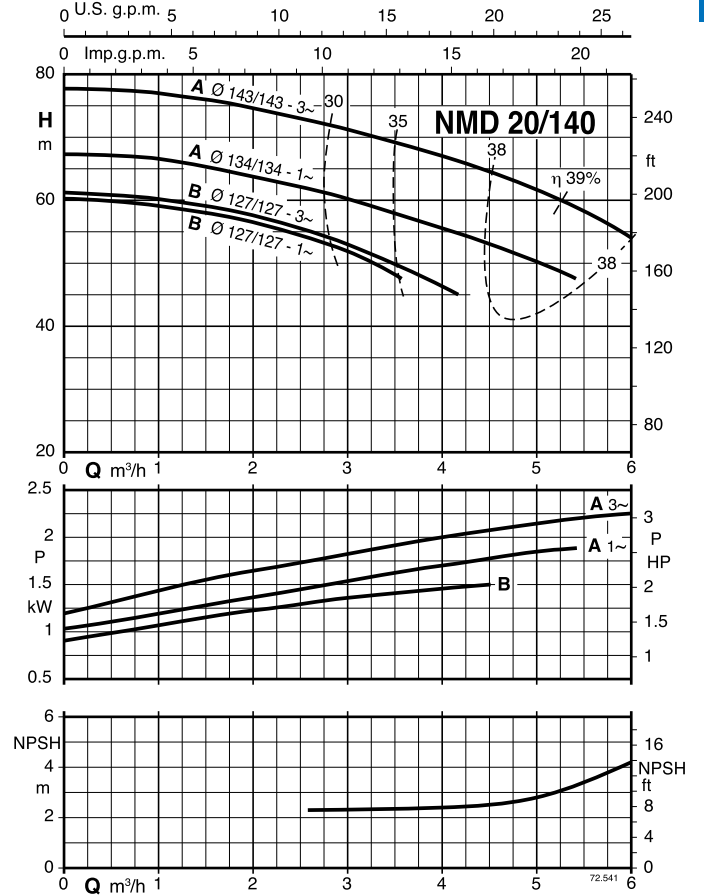
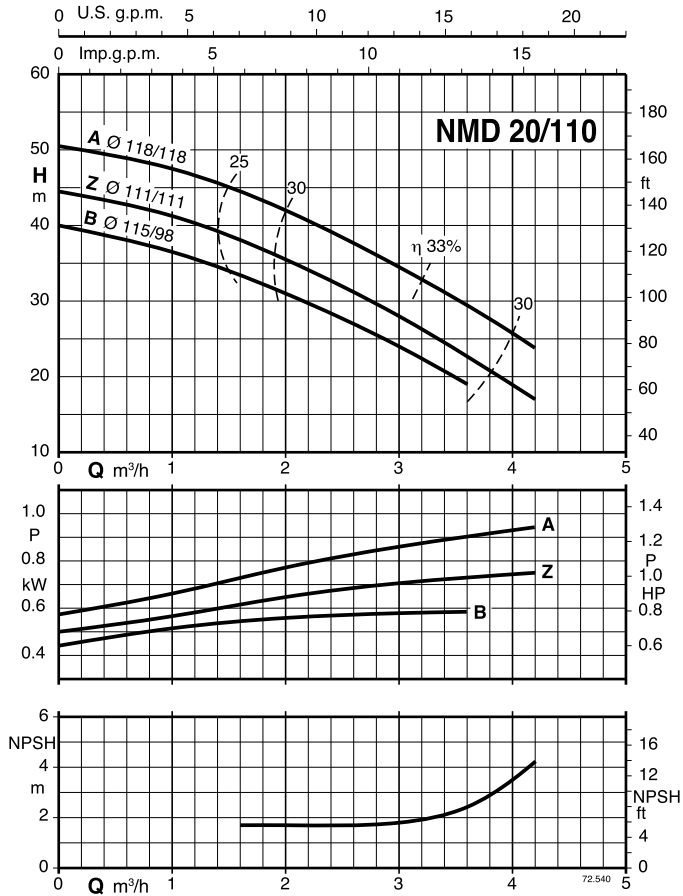


Characteristic curves n = 3450 rpm

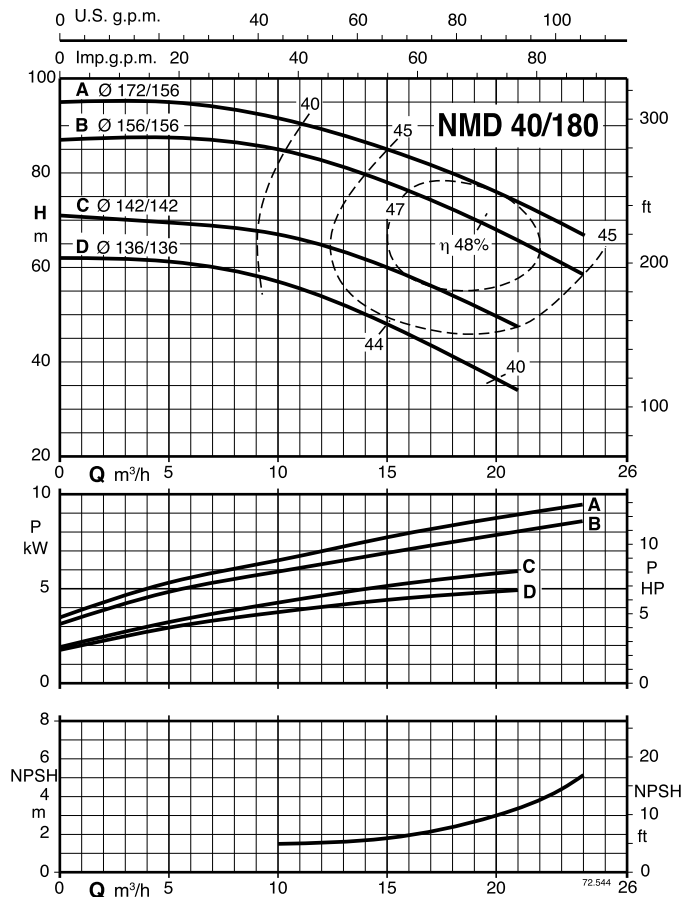
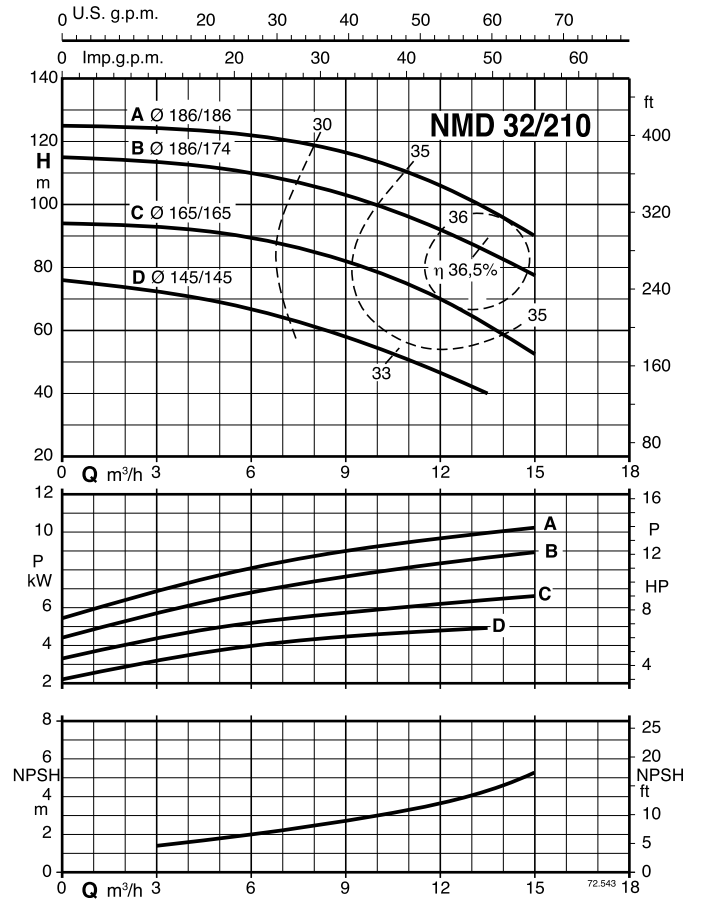
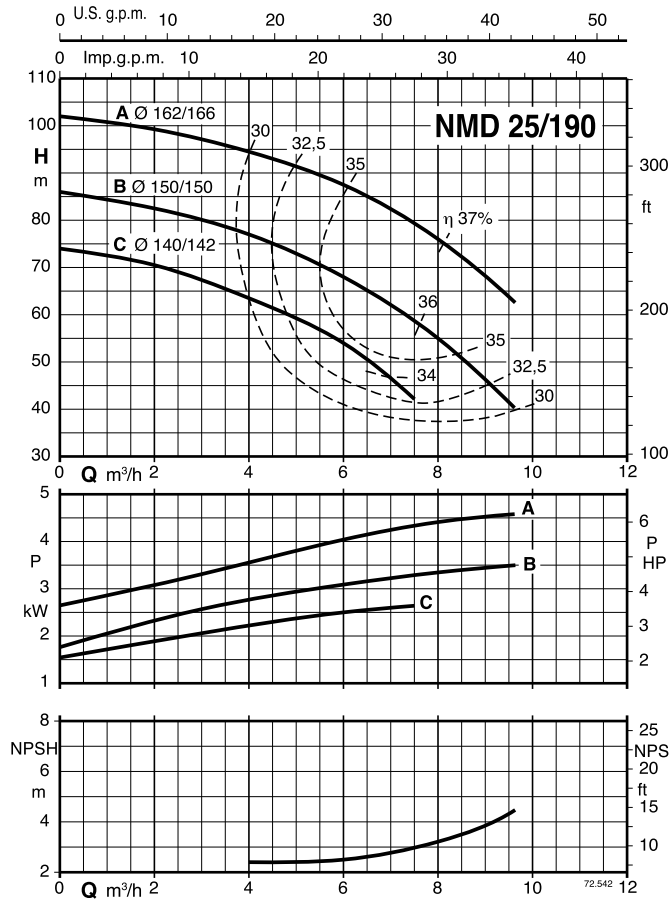


#### Characteristic curves n = 3450 rpm

1



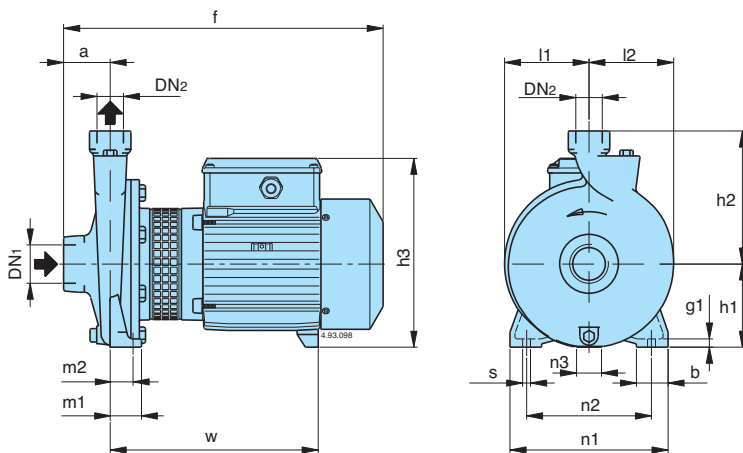
### Characteristic curves n = 3450 rpm





### Dimensions and weights

1

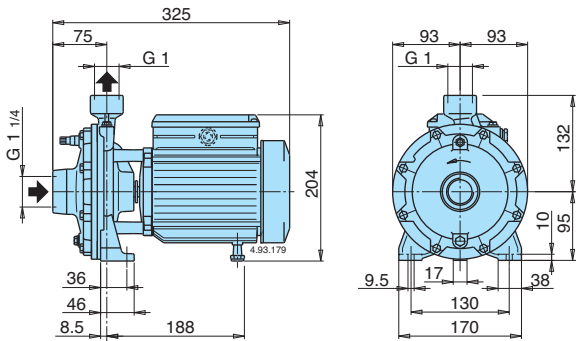


|                    | NMM<br>kg | NM<br>kg | B-NM<br>kg |
|--------------------|-----------|----------|------------|
| NM 1/AE-60         | 8,7       | 8,6      |            |
| NM 2/B-60/A        | 14        | 13,1     |            |
| NM 2/S-60/A        | 14,2      | 13,3     |            |
| NM 2/A-60/A        | 15,1      | 14,2     |            |
| NM 3/CE-60         | 24        | 22,9     |            |
| NM 3/BE-60         | 26        | 25,1     |            |
| NM 3/A-60/A        |           | 29,1     |            |
| B- NM 20/160BE-60  | 19,9      | 18,4     | 21         |
| B- NM 20/160AE-60  | 20,7      | 19,7     | 22,5       |
| B- NM 25/12B-60/A  | 13,2      | 12,3     | 13,5       |
| B- NM 25/12A-60/A  | 14,2      | 13,3     | 14,5       |
| B- NM 25/160BE-60  | 20,4      | 19,7     | 22,8       |
| B- NM 25/160AE-60  | 22,5      | 21,5     | 24         |
| NM 25/20B-60/A     |           | 31,6     |            |
| NM 25/20A-60/A     |           | 40,9     |            |
| NM 25/20S-60/A     |           | 42,2     |            |
| B- NM 25/200B-60/A |           |          | 35,7       |
| B- NM 25/200A-60/A |           |          | 43,7       |
| B- NM 25/200S-60/A |           |          | 45,2       |
| NM 10/FE-60        | 19,3      | 18,5     |            |
| NM 10/DE-60        | 19,4      | 18,8     |            |
| NM 10/AE-60        | 20,2      | 19,3     |            |
| NM 10/SE-60        | 22,1      | 21,5     |            |
| NM 11/BE-60        | 24,7      | 24,1     |            |
| NM 11/A-60/A       |           | 28,1     |            |
| NM 12/D-60/A       |           | 33,5     |            |
| NM 12/C-60/A       |           | 42       |            |
| NM 12/A-60/A       |           | 43,5     |            |
| B- NM 17/HE-60     | 23        | 22,2     | 29,2       |
| B- NM 17/GE-60     | 24,2      | 23,2     | 30,2       |
| B- NM 17/F-60/A    |           | 28,2     | 35,2       |
| B- NM 17/D-60/A    |           | 36,2     | 43,2       |

| B-NM                     | NM                            | DN1<br>ISO 228 | DN2<br>ISO 228 | mm  |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    |     |
|--------------------------|-------------------------------|----------------|----------------|-----|-----|-----|-----|-----|------|------|-----|-----|----|----|------|-----|-----|-----|----|-----|
|                          |                               |                |                | a   | f   | h1  | h2  | h3  | m1   | m2   | n1  | n2  | n3 | b  | s    | l1  | l2  | w   | g1 |     |
|                          | NM 1/AE-60                    | G 1            | G 1            | 40  | 261 | 80  | 132 | 176 | 40   | 32   | 170 | 140 | 17 | 35 | 9,5  | 77  | 81  | 171 | 10 |     |
|                          | NM 2/A-60/A,S-60/A,B-60/A     | G 1            | G 1            | 45  | 305 | 95  | 150 | 207 | 40   | 32   | 190 | 160 | 17 | 35 | 9,5  | 87  | 90  | 203 | 10 |     |
|                          | NM 3/BE-60,CE-60              | G 1            | G 1            | 50  | 375 | 112 | 180 | 240 | 55   | 43   | 245 | 205 | 37 | 45 | 11,5 | 110 | 113 | 244 | 12 |     |
|                          | NM 3/A-60/A                   |                |                | 415 |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    | 284 |
| B-NM 20/160AE-60,BE-60   | NM 20/160AE-60,BE-60          | G 1 1/4        | G 3/4          | 53  | 375 | 100 | 150 | 228 | 37,5 | 27,5 | 190 | 150 | 30 | 38 | 9,5  | 102 | 102 | 246 | 10 |     |
| B-NM 25/12A-60/A,B-60/A  | NM 25/12A-60/A,B-60/A         | G 1 1/2        | G 1            | 56  | 313 | 90  | 140 | 199 | 37,5 | 27,5 | 170 | 130 | 9  | 38 | 9,5  | 85  | 88  | 195 | 10 |     |
| B-NM 25/160AE-60,BE-60   | NM 25/160AE-60,BE-60          | G 1 1/2        | G 1            | 56  | 380 | 100 | 160 | 228 | 37,5 | 27,5 | 190 | 150 | 30 | 38 | 9,5  | 102 | 102 | 246 | 10 |     |
|                          | NM 25/20B-60/A                | G 1 1/2        | G 1            | 63  | 433 | 125 | 180 | 253 | 45   | 32,5 | 245 | 200 | 49 | 45 | 11,5 | 125 | 125 | 291 | 11 |     |
|                          | NM 25/20A-60/A,S-60/A         |                |                | 460 |     |     |     |     |      |      |     |     |    |    | 42   |     |     |     |    | 295 |
| B-NM 25/200B-60/A        |                               | G 1 1/2        | G 1            | 63  | 445 | 125 | 180 | 253 | 45   | 32,5 | 245 | 200 | 49 | 45 | 11,5 | 125 | 125 | 303 | 11 |     |
| B-NM 25/200A-60/A,S-60/A |                               |                |                | 460 |     |     |     |     |      |      |     |     |    |    | 42   |     |     |     |    | 295 |
|                          | NM 10/SE-60,AE-60,DE-60,FE-60 | G 2            | G 1 1/4        | 63  | 382 | 100 | 150 | 228 | 50   | 35   | 190 | 140 | 30 | 50 | 13   | 90  | 97  | 239 | 14 |     |
|                          | NM 11/BE-60                   | G 2            | G 1 1/4        | 70  | 400 | 112 | 170 | 240 | 50   | 35   | 210 | 160 | 37 | 50 | 15   | 103 | 110 | 247 | 14 |     |
|                          | NM 11/A-60/A                  |                |                | 440 |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    | 287 |
|                          | NM 12/D-60/A                  | G 2            | G 1 1/4        | 70  | 440 | 132 | 190 | 260 | 50   | 35   | 240 | 190 | 47 | 50 | 15   | 125 | 127 | 287 | 14 |     |
|                          | NM 12/A-60/A,C-60/A           |                |                | 470 |     |     |     |     |      |      |     |     |    |    | 45   |     |     |     |    | 300 |
| B-NM 17/GE-60,HE-60      | NM 17/GE-60,HE-60             | G 2 1/2        | G 2 1/2        | 80  | 417 | 112 | 160 | 240 | 50   | 35   | 210 | 160 | 37 | 50 | 14   | 96  | 113 | 257 | 14 |     |
| B-NM 17/F-60/A           | NM 17/F-60/A                  |                |                | 457 |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    | 287 |
| B-NM 17/D-60/A           | NM 17/D-60/A                  |                |                | 480 |     |     |     |     |      |      |     |     |    |    |      |     |     |     |    | 295 |

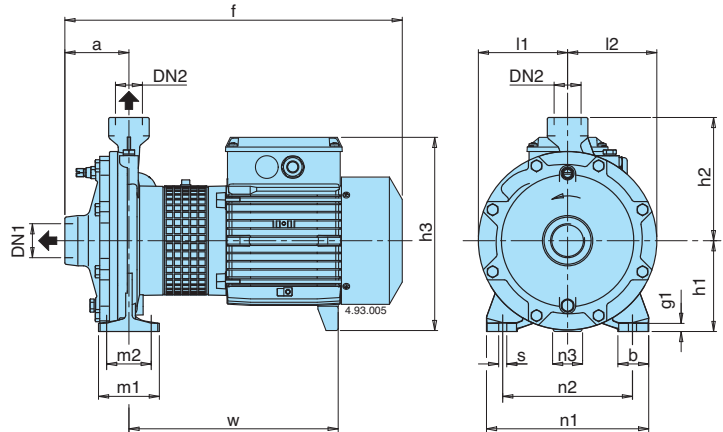
### Dimensions and weights

#### NMD 20/110



|                     | NMDM<br>kg | NMD<br>kg | B-NMD<br>kg |
|---------------------|------------|-----------|-------------|
| B- NMD 20/110B-60/A | 13         | 12,1      | 13,4        |
| B- NMD 20/110Z-60/A | 14         | 13        | 14,2        |
| B- NMD 20/110A-60/A | 15,1       | 14,2      | 17,4        |

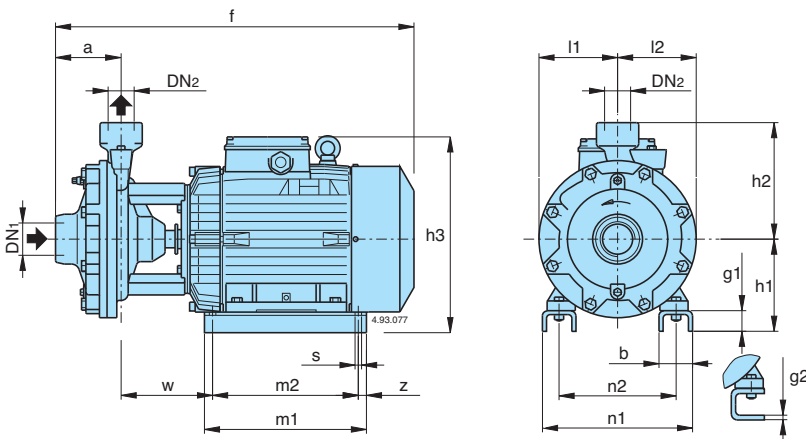
#### NMD 20/140 NMD 25/190



|                     | NMDM<br>kg | NMD<br>kg | B-NMD<br>kg |
|---------------------|------------|-----------|-------------|
| B- NMD 20/140B-60/A | 23,9       | 22,7      | 25,2        |
| B- NMD 20/140A-60/A | 25,2       | 24,8      | 27,6        |
| B- NMD 25/190C-60/A |            | 42        | 45,7        |
| B- NMD 25/190B-60/A |            | 49,7      | 54          |
| B- NMD 25/190A-60/A |            | 51,5      | 55,5        |

| B-NMD                      | NMD                      | DN1<br>ISO 228 | DN2<br>ISO 228 | mm |     |     |     |     |     |    |     |     |    |    |     |     |     |     |     |    |
|----------------------------|--------------------------|----------------|----------------|----|-----|-----|-----|-----|-----|----|-----|-----|----|----|-----|-----|-----|-----|-----|----|
|                            |                          |                |                | a  | f   | h1  | h2  | h3  | m1  | m2 | n1  | n2  | n3 | b  | s   | l1  | l2  | w   | g1  |    |
| B-NMD 20/140AE-60, BE-60   | NMD 20/140AE-60, BE-60   | G 1 1/4        | G 1            | 80 | 417 | 112 | 152 | 243 | 75  | 55 | 200 | 160 | 37 | 38 | 9,5 | 110 | 110 | 256 | 10  |    |
| B-NMD 25/190C-60/A         | NMD 25/190C-60/A         | G 1 1/2        | G 1            | 97 | 487 | 140 | 180 | 268 | 100 | 70 | 240 | 190 | 50 | 49 | 50  | 14  | 133 | 133 | 314 | 13 |
| B-NMD 25/190A-60/A, B-60/A | NMD 25/190A-60/A, B-60/A |                |                |    | 500 |     |     | 278 |     |    |     |     |    |    |     |     |     |     | 306 |    |

#### NMD 32/210 NMD 40/180



|                     | NMD<br>kg | B-NMD<br>kg |
|---------------------|-----------|-------------|
| B- NMD 32/210D-60/A | 60,5      | 66,5        |
| B- NMD 32/210C-60/A | 71        | 77          |
| B- NMD 32/210B-60/A | 77        | 82,5        |
| B- NMD 32/210A-60/A | 99        | 105         |
| B- NMD 40/180D-60/A | 59,5      | 65,5        |
| B- NMD 40/180C-60/A | 70        | 76          |
| B- NMD 40/180B-60/A | 76        | 81,5        |
| B- NMD 40/180A-60/A | 97        | 102         |

| B-NMD                      | NMD                      | DN1<br>ISO 228 | DN2<br>ISO 228 | mm  |     |     |     |     |     |     |     |     |    |    |    |     |     |     |    |    |
|----------------------------|--------------------------|----------------|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|----|----|
|                            |                          |                |                | a   | f   | h1  | h2  | h3  | m1  | m2  | n1  | n2  | z  | b  | s  | l1  | l2  | w   | g1 | g2 |
| B-NMD 32/210D-60/A         | NMD 32/210D-60/A         |                |                | 110 | 530 | 155 | 215 | 293 | 205 | 175 | 194 | 140 |    | 54 | 10 |     |     | 139 | -  | 6  |
| B-NMD 32/210B-60/A, C-60/A | NMD 32/210B-60/A, C-60/A | G 2            | G 1 1/4        | 110 | 550 | 150 | 215 | 310 | 280 | 250 | 258 | 190 | 15 | 68 | 12 | 150 | 150 | 108 | 38 | -  |
| B-NMD 32/210A-60/A         | NMD 32/210A-60/A         |                |                |     | 625 | 170 |     | 355 | 298 | 268 | 286 | 216 |    | 70 | 12 |     |     | 152 | 38 | -  |
| B-NMD 40/180D-60/A         | NMD 40/180D-60/A         |                |                |     | 535 | 155 |     | 293 | 205 | 175 | 194 | 140 |    | 54 | 10 |     |     | 133 | -  | 6  |
| B-NMD 40/180B-60/A, C-60/A | NMD 40/180B-60/A, C-60/A | G 2            | G 1 1/2        | 121 | 555 | 150 | 215 | 310 | 280 | 250 | 258 | 190 | 15 | 68 | 12 | 145 | 145 | 102 | 38 | -  |
| B-NMD 40/180A-60/A         | NMD 40/180A-60/A         |                |                |     | 630 | 170 |     | 355 | 298 | 268 | 286 | 216 |    | 70 | 12 |     |     | 145 | 38 | -  |

## Features

1

### Compact Design

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

### Robustness

The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistance to mechanical stress.

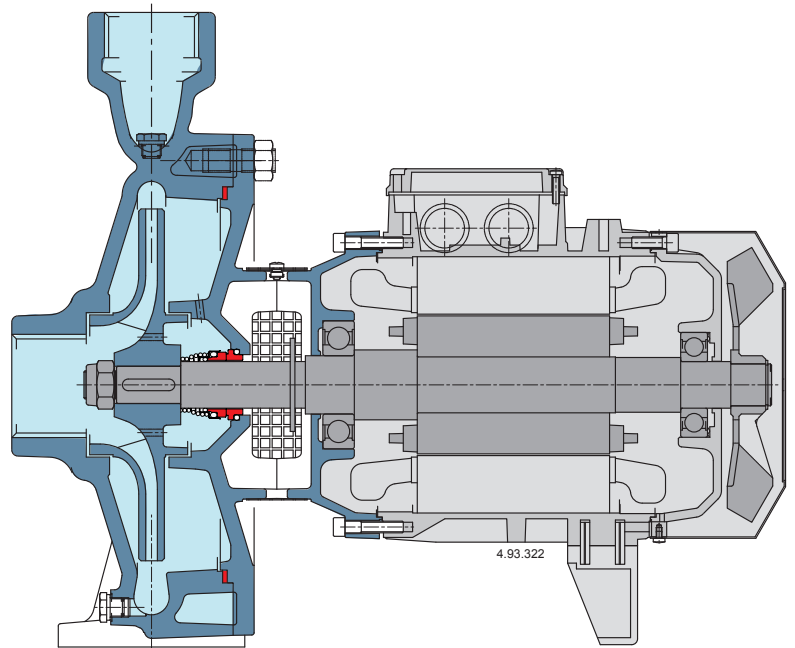
### A unique design

The lantern bracket design prevents contact with the pumps rotating parts, providing protection to the end user whilst allowing for inspection of the mechanical seal.

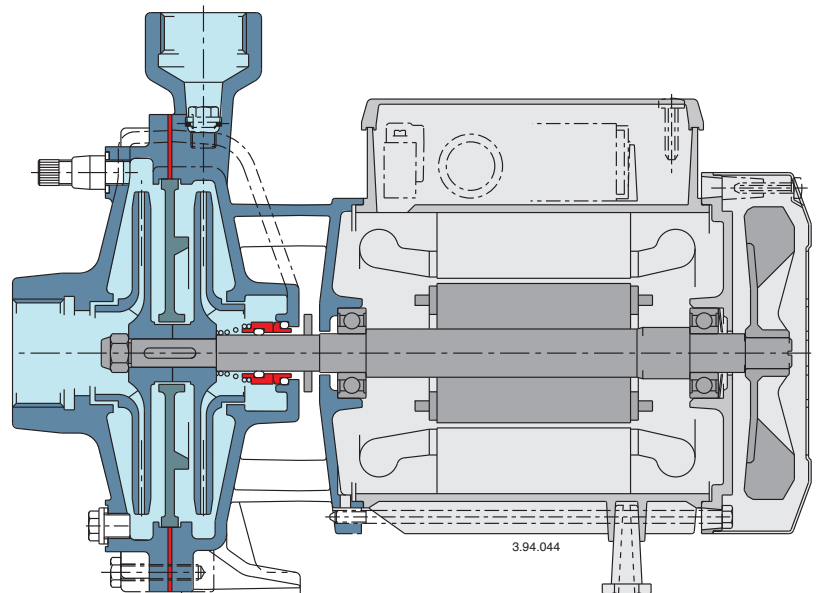
### Reliability

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

NM



NMD



### Flexibility

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

### Robustness

The mechanical structure of the hydraulic parts in contact with the pumped liquid are dimensioned to guarantee the maximum resistance to mechanical stress.

### Reliability

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