# NM, NMD

## 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).
NM, NMD: version with pump casing and lanter bracket in cast iron.
B-NM, B-NMD: version with pump casing and lanter bracket in bronze. (the pumps 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.

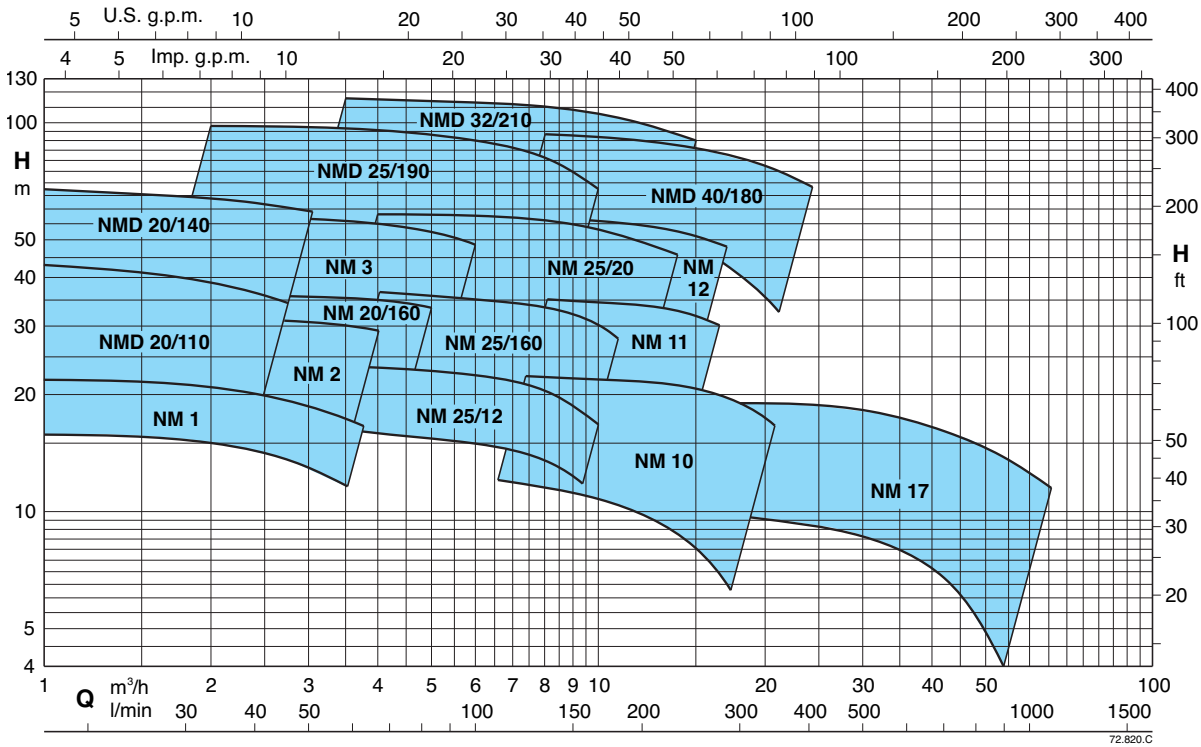
## Motor
2-pole induction motor, 50 Hz (n = 2900 rpm).
**NM, NMD**: three-phase 230/400 V ± 10% up to 3 kW; 400/690 V ± 10% from 4 to 9,2 kW;
**NMM, NMDM**: single-phase 230 V ± 10%, with thermal protector.
Insulation class F. Protection IP 54.
**Classification scheme IE2 for three-phase motors from 0,75 kW.**
Constructed in accordance with EN 60034-1; EN 60034-30. EN 60335-1, EN 60335-2-41.

## Special features on request
- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55. - Special mechanical seal
- Higher or lower liquid or ambient temperatures.

## Materials

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

## Coverage chart n ≈ 2900 rpm



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**Close Coupled Centrifugal Pumps**
**with threaded ports**

calpeda®

## Performance n ≈ 2900 rpm

| | NM | $P_2$ kW | $P_2$ HP | Q $m^3/h$ | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | l/min | 16 | 20 | 25 | 31,5 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 125 | 140 |
| | NM 1/AE● | 0,37 | 0,5 | | 22 | 21,6 | 21,3 | 20,9 | 20,3 | 19,4 | 18,1 | 16,3 | | | | | | |
| | NM 2/B/A● | 0,55 | 0,75 | | 27 | 26,5 | 26 | 25,5 | 25 | 24 | 23 | 22 | 20 | | | | | |
| | NM 2/S/A● | 0,55 | 0,75 | | 31 | 30,5 | 30 | 29 | 27,5 | 25,5 | 23,5 | 20 | 16 | | | | | |
| | NM 2/A/A● | 0,75 | 1 | H | 33,5 | 33 | 32,5 | 32 | 31,5 | 30,5 | 29,5 | 28,5 | 27 | 26 | 24 | | | |
| | NMM 3/CE | 1,1 | 1,5 | m | | 37,5 | 37,5 | 37 | 36,5 | 36 | 35 | 34 | 32 | | | | | |
| | NM 3/CE | 1,1 | 1,5 | | | 37,5 | 37,5 | 37 | 36,5 | 36 | 35 | 34 | 32 | 30,5* | 28,5* | | | |
| | NMM 3/BE | 1,5 | 2 | | | 42 | 42 | 41,5 | 41 | 40,5 | 40 | 39 | 37 | 35* | 32* | | | |
| | NM 3/BE | 1,5 | 2 | | | 47 | 47 | 46,5 | 46 | 45,5 | 45 | 44 | 43 | 41,5* | 40* | 37,5* | 33* | 26* |
| | NM 3/A/A | 2,2 | 3 | | | 56 | 55,5 | 55,5 | 55 | 54,5 | 53,5 | 52,5 | 51,5 | 50* | 48* | 46* | 42* | 36* |

| B-NM B-NMD | NM NMD | $P_2$ kW | $P_2$ HP | Q $m^3/h$ | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | l/min | 16 | 20 | 25 | 31,5 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 125 | 140 |
| B-NMD 20/110B/A● | NMD 20/110B/A● | 0,45 | 0,6 | | 33 | 32 | 31 | 29 | 26,5 | 23 | 18 | | | | | | | |
| B-NMD 20/110Z/A● | NMD 20/110Z/A● | 0,55 | 0,75 | | 37 | 36 | 35 | 33 | 30,5 | 27,5 | 23 | 18* | | | | | | |
| B-NMD 20/110A/A● | NMD 20/110A/A● | 0,75 | 1 | | 43 | 42 | 40,5 | 39 | 36,5 | 33 | 29 | 25* | | | | | | |
| B-NMDM 20/140BE | NMDM 20/140BE | 1,1 | 1,5 | H | 52 | 51,5 | 51 | 50 | 48,5 | 47 | 45 | | | | | | | |
| B-NMD 20/140BE | NMD 20/140BE | 1,1 | 1,5 | m | 53 | 52,5 | 52 | 51 | 50 | 48 | 46 | 43,5 | 40 | | | | | |
| B-NMDM 20/140AE | NMDM 20/140AE | 1,5 | 2 | | 57,5 | 57 | 56,5 | 55,5 | 54 | 51,5 | 49 | 46 | 43 | 40 | 36 | | | |
| B-NMD 20/140AE | NMD 20/140AE | 1,5 | 2 | | 67 | 66,5 | 66 | 64,5 | 63 | 61,5 | 59 | 57 | 53,5 | 50 | 46 | | | |
| B-NM 20/160BE● | NM 20/160BE● | 0,75 | 1 | | | | | 30,5 | 30 | 29,5 | 28,5 | 27,5 | 26,5 | 25,5 | 24 | 22* | | |
| B-NM 20/160AE● | NM 20/160AE● | 1,1 | 1,5 | | | | | 36 | 35,5 | 35 | 34,5 | 33,5 | 32 | 30,5 | 29 | 27* | | |

| B-NM B-NMD | NM NMD | $P_2$ kW | $P_2$ HP | Q $m^3/h$ | 2,4 | 3 | 3,6 | 4,8 | 6 | 6,6 | 7,5 | 8,4 | 9,6 | 10,8 | 12 | 13,2 | 15 | 16,8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | l/min | 40 | 50 | 60 | 80 | 100 | 110 | 125 | 140 | 160 | 180 | 200 | 220 | 250 | 280 |
| B-NM 25/12B/A● | NM 25/12B/A● | 0,55 | 0,75 | | 20 | 19,9 | 19,8 | 19,3 | 18,5 | 18 | 17,3 | 16,3 | 15* | 13,2* | 11* | | | |
| B-NM 25/12A/A● | NM 25/12A/A● | 0,75 | 1 | | 23,5 | 23,4 | 23,3 | 22,9 | 22,1 | 21,7 | 20,9 | 20 | 18,7* | 17,1* | 15,2* | | | |
| B-NM 25/160BE● | NM 25/160BE● | 1,1 | 1,5 | | | 31 | 30,7 | 30 | 28,5 | 28 | 27 | 26 | 23 | | | | | |
| B-NM 25/160AE● | NM 25/160AE● | 1,5 | 2 | | | 36,5 | 36,2 | 35,5 | 34,5 | 34 | 33,5 | 32,5 | 31 | 28,5* | 26* | | | |
| B-NM 25/200B/A | NM 25/20B/A | 2,2 | 3 | H | | 42,5 | 42 | 41 | 40 | 39,5 | 38,5 | 37,5 | 36 | 33* | 29* | | | |
| B-NM 25/200A/A | NM 25/20A/A | 3 | 4 | m | | 50 | 49,7 | 49 | 48 | 47,5 | 47 | 46,5 | 45,5 | 44* | 42* | 39* | | |
| B-NM 25/200S/A | NM 25/20S/A | 4 | 5,5 | | | 59 | 58,5 | 58 | 57,5 | 57 | 56,5 | 55,5 | 54,5 | 53 | 51,5 | 49* | 44,5* | 37* |
| B-NMD 25/190C/A | NMD 25/190C/A | 2,2 | 3 | | 62 | 60,5 | 59 | 55,5 | 51 | 48,5 | 44 | 38* | | | | | | |
| B-NMD 25/190B/A | NMD 25/190B/A | 3 | 4 | | 76 | 75 | 74 | 70 | 66 | 64 | 60 | 54 | 46* | | | | | |
| B-NMD 25/190A/A | NMD 25/190A/A | 4 | 5,5 | | 98 | 97 | 96 | 93,5 | 90 | 88 | 84 | 79 | 70* | | | | | |

| | NM | $P_2$ kW | $P_2$ HP | Q $m^3/h$ | 6,6 | 7,5 | 8,4 | 9,6 | 10,8 | 12 | 13,2 | 15 | 16,8 | 18,9 | 21 | 24 | 27 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | l/min | 110 | 125 | 140 | 160 | 180 | 200 | 220 | 250 | 280 | 315 | 350 | 400 | 450 | 500 |
| | NM 10/FE● | 0,55 | 0,75 | | 12,5 | 12,5 | 12 | 11,5 | 11 | 10 | 9 | 7,5 | | | | | | |
| | NM 10/DE● | 0,75 | 1 | | 18 | 18 | 17,5 | 17 | 16,5 | 16 | 15,5 | 14 | | | | | | |
| | NM 10/AE● | 1,1 | 1,5 | | 23 | 23 | 22,5 | 22 | 21,5 | 21 | 20,5 | 19 | | | | | | |
| | NM 10/SE● | 1,5 | 2 | | 23,5 | 23,5 | 23 | 22,5 | 22 | 21,5 | 21 | 20,5 | 19* | 18,5* | 16,5* | 13* | | |
| | NMM 11/BE | 1,5 | 2 | H | 26,5 | 25,5 | 25 | 24 | 23 | 22,5 | 21,5 | 19,5 | 17,5 | | | | | |
| | NM 11/BE | 1,5 | 2 | m | 29,5 | 29,5 | 29 | 28,5 | 27,5 | 27 | 26 | 25* | 22,5* | | | | | |
| | NM 11/A/A | 2,2 | 3 | | 35,5 | 35,5 | 35 | 34,5 | 34 | 33,5 | 33 | 32* | 30* | | | | | |
| | NM 12/D/A | 2,2 | 3 | | 38 | 37,5 | 37 | 36 | 35 | 33,5 | 32 | | | | | | | |
| | NM 12/C/A | 3 | 4 | | 45 | 44,5 | 44 | 43,5 | 42,5 | 41 | 40 | 38 | 36* | | | | | |
| | NM 12/A/A | 4 | 5,5 | | 57,5 | 57 | 56 | 55,5 | 55 | 54,5 | 53,5 | 51,5 | 49* | | | | | |

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## Performance n ≈ 2900 rpm

| B-NMD | NMD | P2 | | Q m³/h | 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 | l/min | 90 | 100 | 110 | 125 | 140 | 160 | 180 | 200 | 220 | 250 | 280 | 315 | 350 | 400 |
| B-NMD 32/210D/A | NMD 32/210D/A | 4 | 5,5 | | 71 | 69 | 67,5 | 65 | 62,5 | 58 | 53 | 46 | 37* | | | | | |
| B-NMD 32/210C/A | NMD 32/210C/A | 5,5 | 7,5 | | 84 | 83 | 82 | 81 | 79 | 76 | 73 | 69 | 64* | 54* | | | | |
| B-NMD 32/210B/A | NMD 32/210B/A | 7,5 | 10 | | 104 | 103 | 102 | 100 | 98 | 95 | 92 | 88 | 84* | 76* | | | | |
| B-NMD 32/210A/A | NMD 32/210A/A | 9,2 | 12,5 | H | 114 | 113 | 112 | 110 | 108 | 105 | 103 | 99 | 96* | 90* | | | | |
| B-NMD 40/180D/A | NMD 40/180D/A | 4 | 5,5 | m | | | | 60 | 59,5 | 57 | 56 | 53 | 51,5 | 48 | 44 | 39 | 34* | 25* |
| B-NMD 40/180C/A | NMD 40/180C/A | 5,5 | 7,5 | | | | | 69 | 68 | 67 | 66 | 64,5 | 63 | 60 | 57 | 53 | 48* | 40* |
| B-NMD 40/180B/A | NMD 40/180B/A | 7,5 | 10 | | | | | 87 | 86 | 85 | 84 | 82,5 | 81 | 78 | 75 | 71 | 66* | 59* |
| B-NMD 40/180A/A | NMD 40/180A/A | 9,2 | 12,5 | | | | | 94 | 93 | 92 | 91 | 89,5 | 88 | 85 | 82 | 78 | 74* | 67* |

| B-NM | NM | P2 | | Q m³/h | 21 | 24 | 27 | 30 | 33 | 37,8 | 42 | 48 | 54 | 60 | 66 | 75 | 84 | 96 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | kW | HP | l/min | 350 | 400 | 450 | 500 | 550 | 630 | 700 | 800 | 900 | 1000 | 1100 | 1250 | 1400 | 1600 |
| B-NM 17/HE● | NM 17/HE● | 1,1 | 1,5 | | 9,5 | 9,2 | 9 | 8,6 | 8,2 | 7,5 | 6,7 | 5,5 | 3,5* | | | | | |
| B-NM 17/GE● | NM 17/GE● | 1,5 | 2 | H | 12 | 11,7 | 11,5 | 11,2 | 11 | 10,3 | 9,7 | 8,5 | 7* | 4* | | | | |
| B-NM 17/F/A | NM 17/F/A | 2,2 | 3 | m | | 16 | 16 | 15,5 | 15 | 14,5 | 14 | 13 | 11,5* | 10* | 8* | | | |
| B-NM 17/D/A | NM 17/D/A | 3 | 4 | | | | 18 | 18 | 17,5 | 17 | 16,5 | 15,5 | 14* | 13* | 11,5* | | | |

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

P2 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.

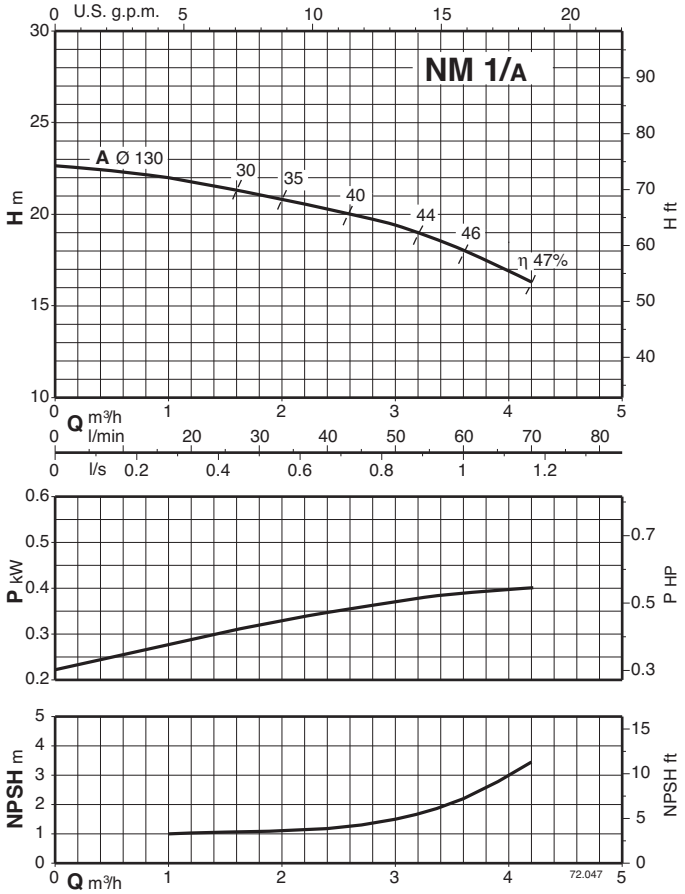
## Rated currents

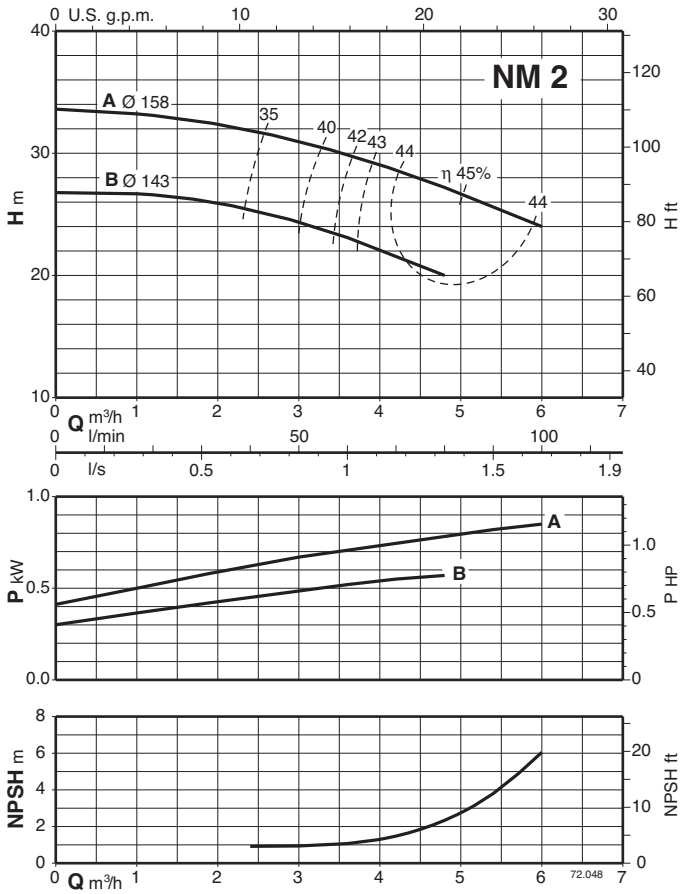
| P1 | P2 | | 230 V 1~ | |
|---|---|---|---|---|
| kW | kW | HP | IN A | IA/IN |
| 0,62 | 0,37 | 0,5 | 3 | 2,7 |
| 0,72 | 0,45 | 0,6 | 3,6 | 2,9 |
| 0,91 | 0,55 | 0,75 | 4,5 | 3,1 |
| 1,2 | 0,75 | 1 | 5,8 | 3 |
| 1,6 | 1,1 | 1,5 | 7,4 | 3 |
| 2 | 1,5 | 2 | 9,2 | 3,8 |

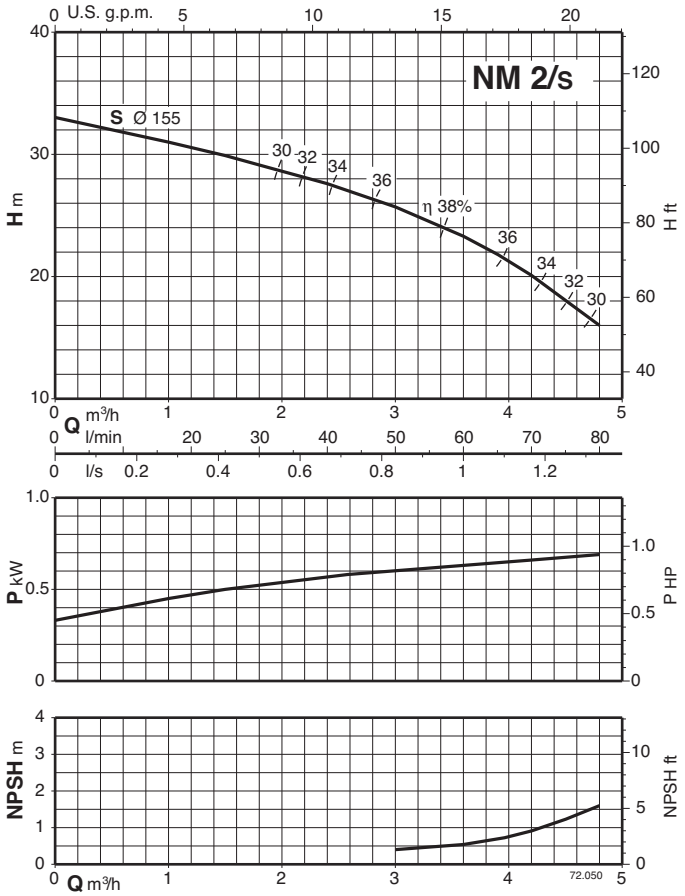
| P2 | | 230 V Δ / 400 V Y | | | |
|---|---|---|---|---|---|
| | | | 400 V Δ / 690 V Y | | |
| kW | HP | IN A | IN A | IN A | IA/IN |
| 0,37 | 0,5 | 2,3 | 1,3 | | 3,8 |
| 0,45 | 0,6 | 2,3 | 1,3 | | 3,5 |
| 0,55 | 0,75 | 3 | 1,7 | | 4,3 |
| 0,75 | 1 | 3,8 | 2,2 | | 3,9 |
| 1,1 | 1,5 | 4,7 | 2,7 | | 5,6 |
| 1,5 | 2 | 7,5 | 4,3 | | 5,5 |
| 2,2 | 3 | 9,2 | 5,3 | | 7,4 |
| 3 | 4 | 11,5 | 6,6 | | 8,2 |
| 4 | 5,5 | | 9,6 | 5,5 | 7,6 |
| 5,5 | 7,5 | | 10,9 | 6,3 | 9,1 |
| 7,5 | 10 | | 14,3 | 8,3 | 9,1 |
| 9,2 | 12,5 | | 18,5 | 10,7 | 8,2 |

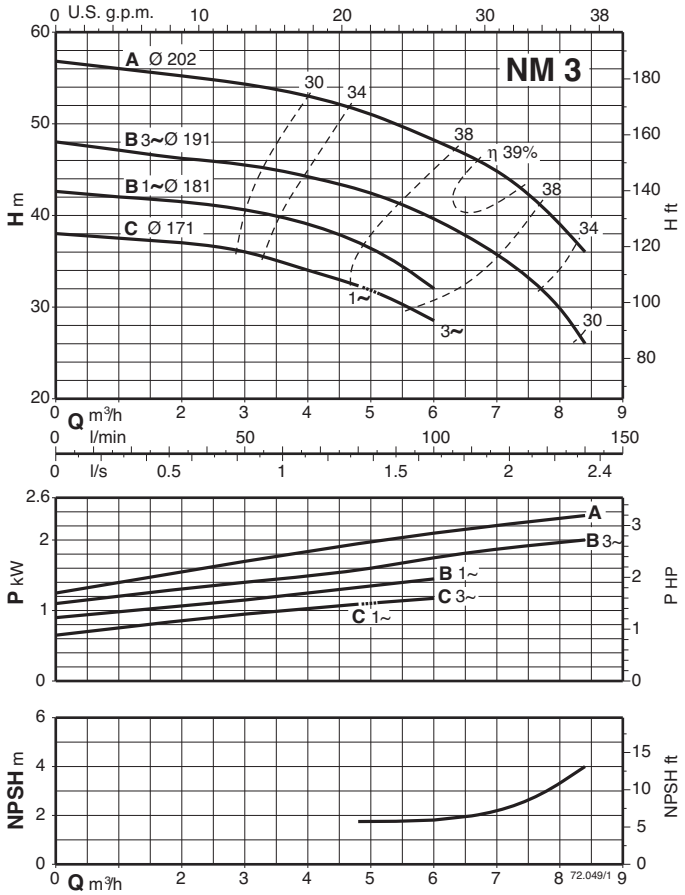
P1 Maximum power input.
P2 Rated motor power output.
IA/IN D.O.L. starting current / Nominal current

## Characteristic curves n ≈ 2900 rpm



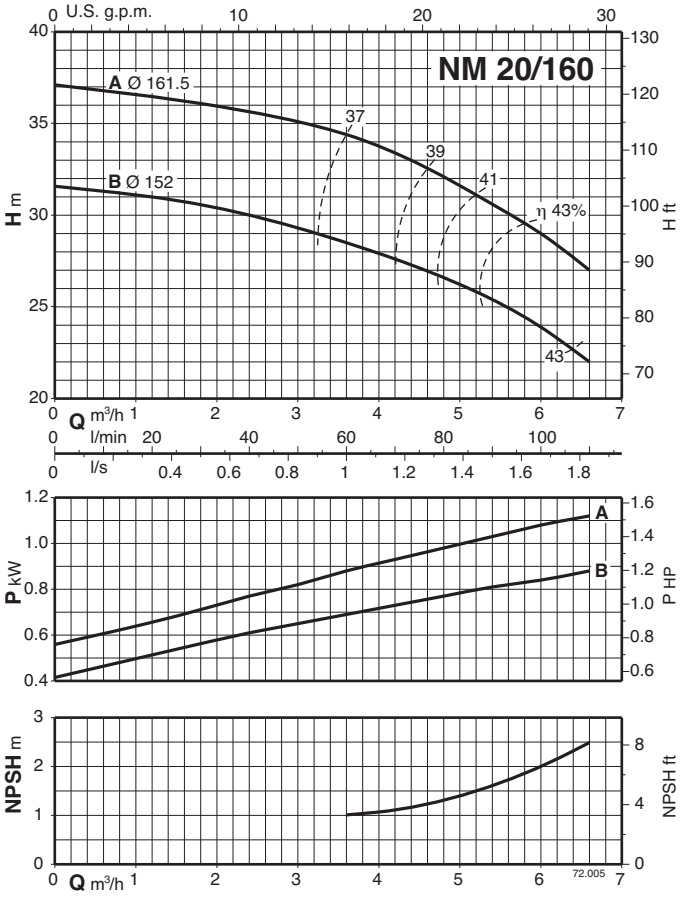



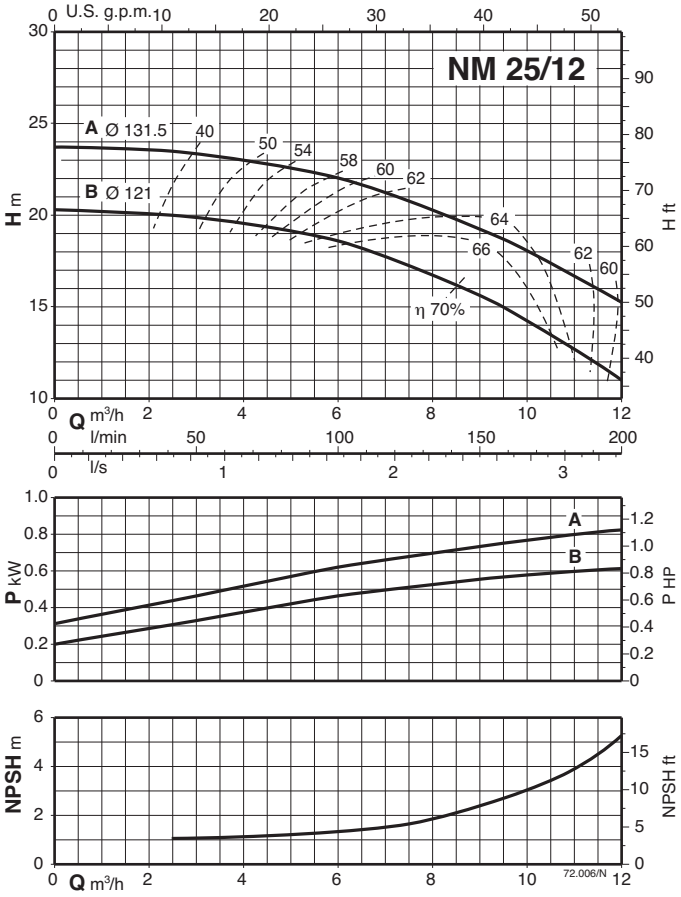



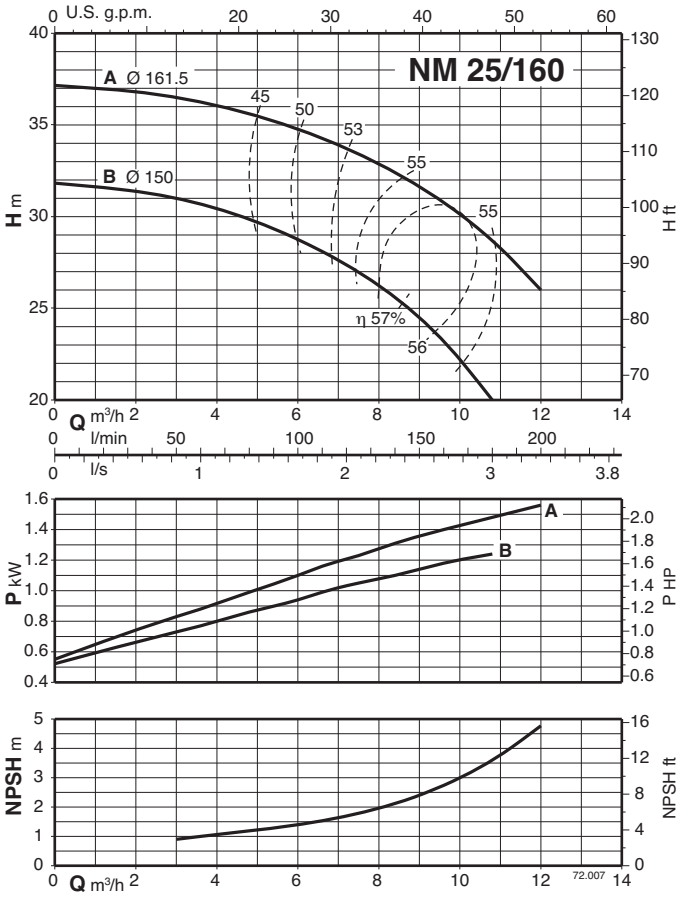



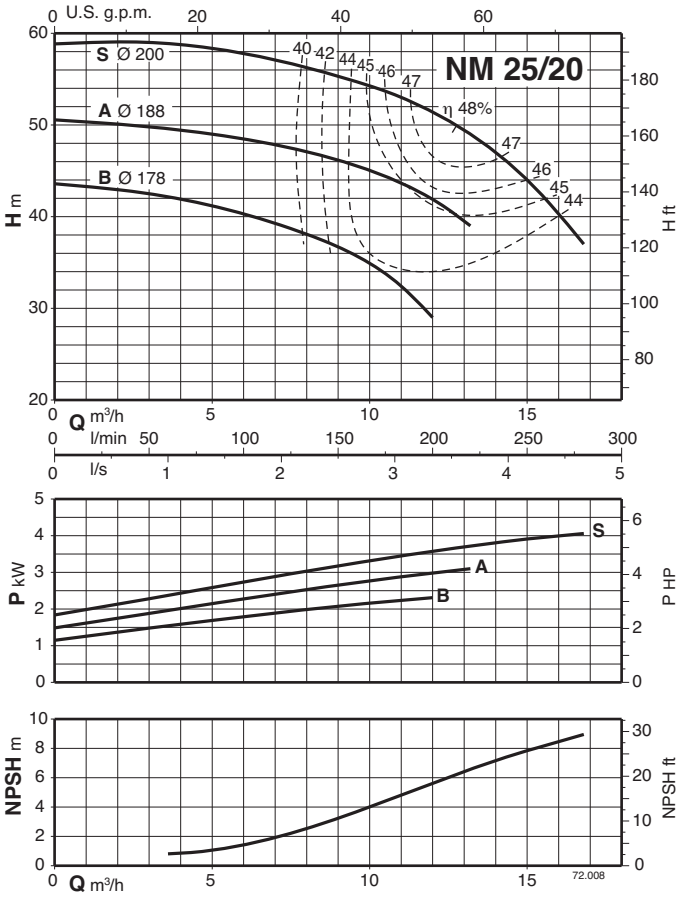
## Characteristic curves n ≈ 2900 rpm



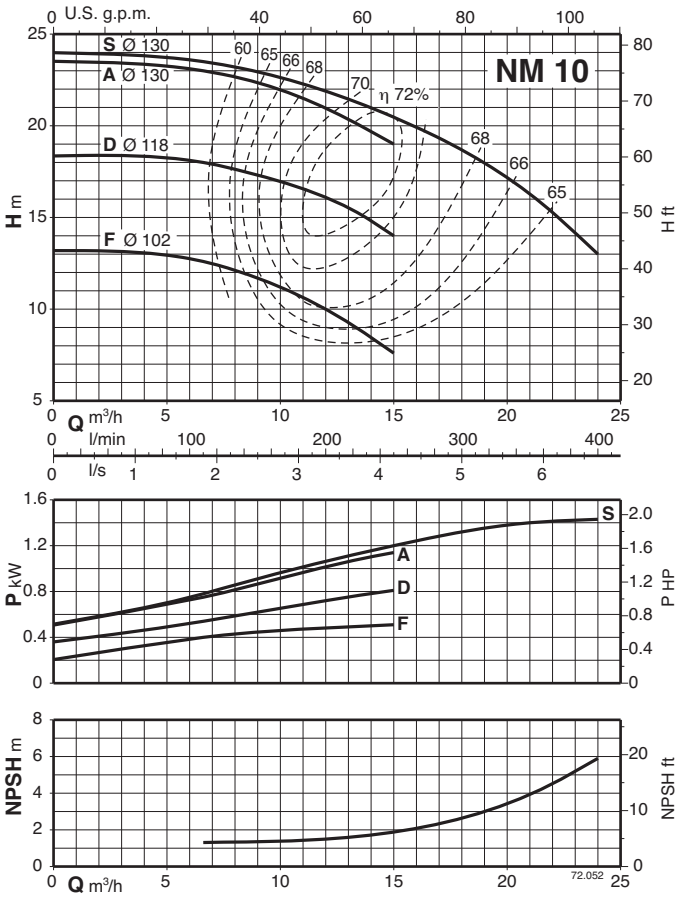


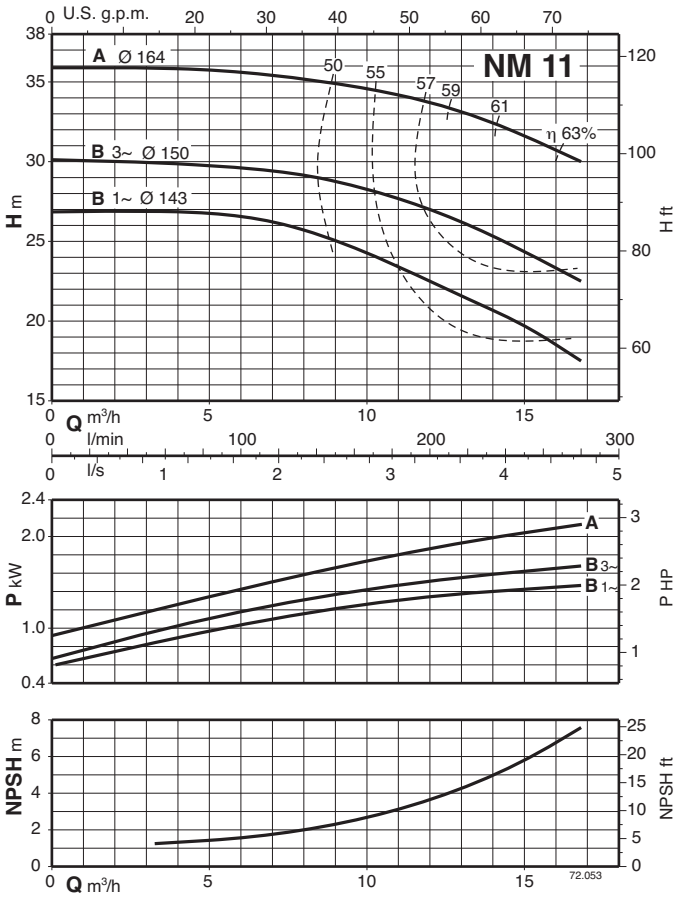



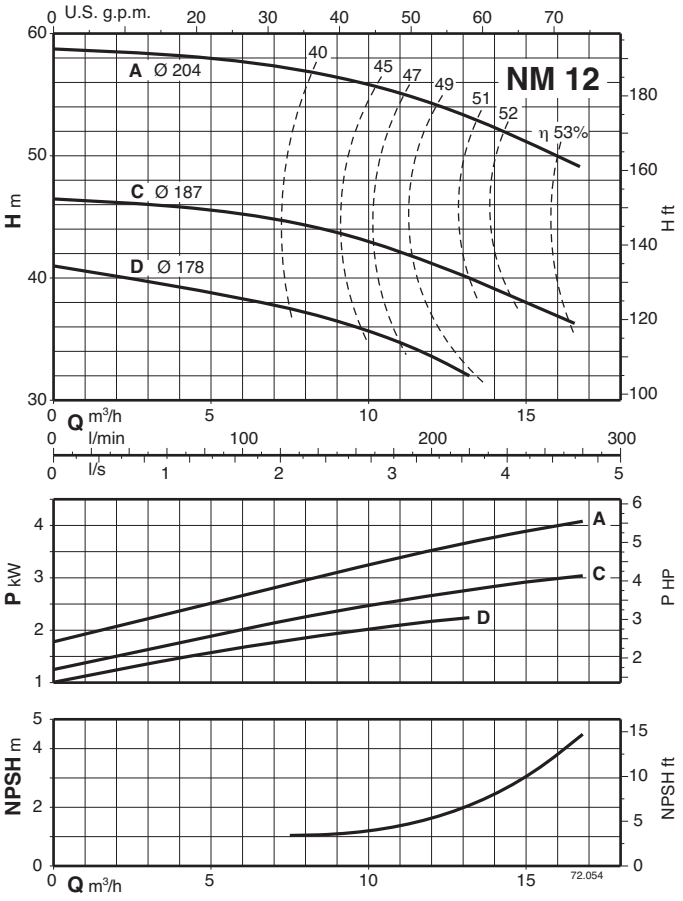



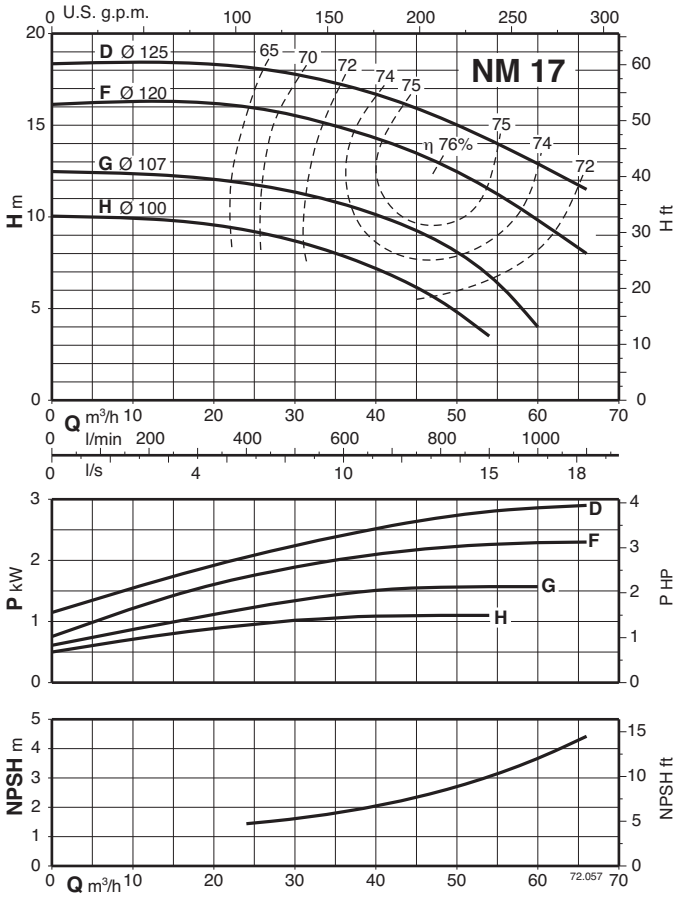



## Characteristic curves n ≈ 2900 rpm



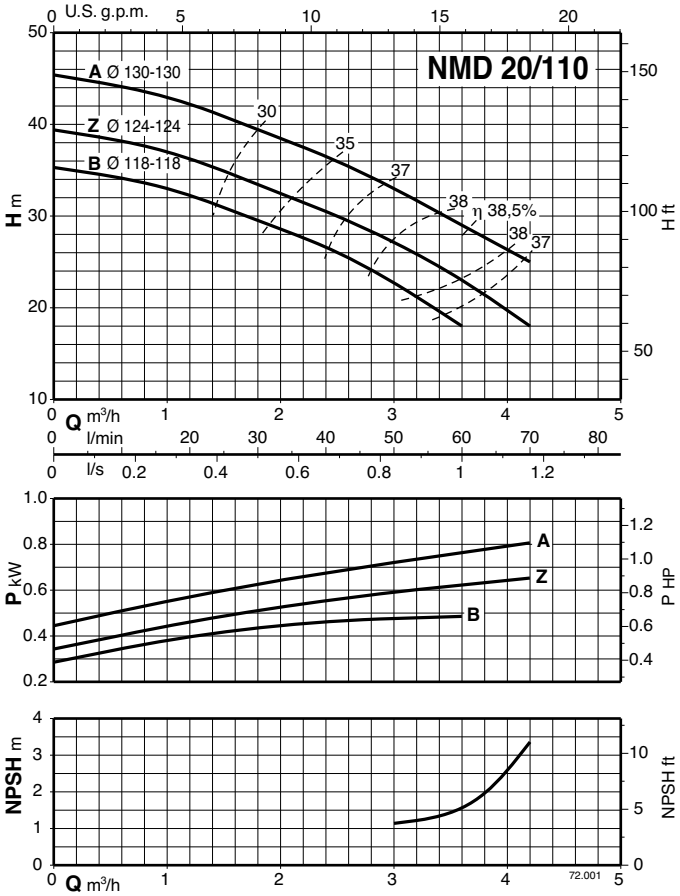



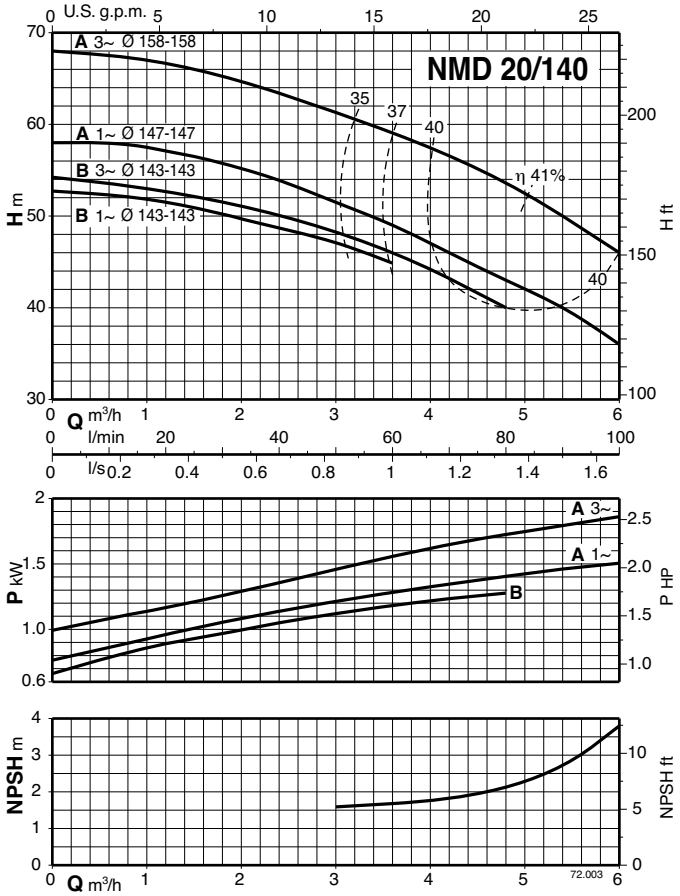



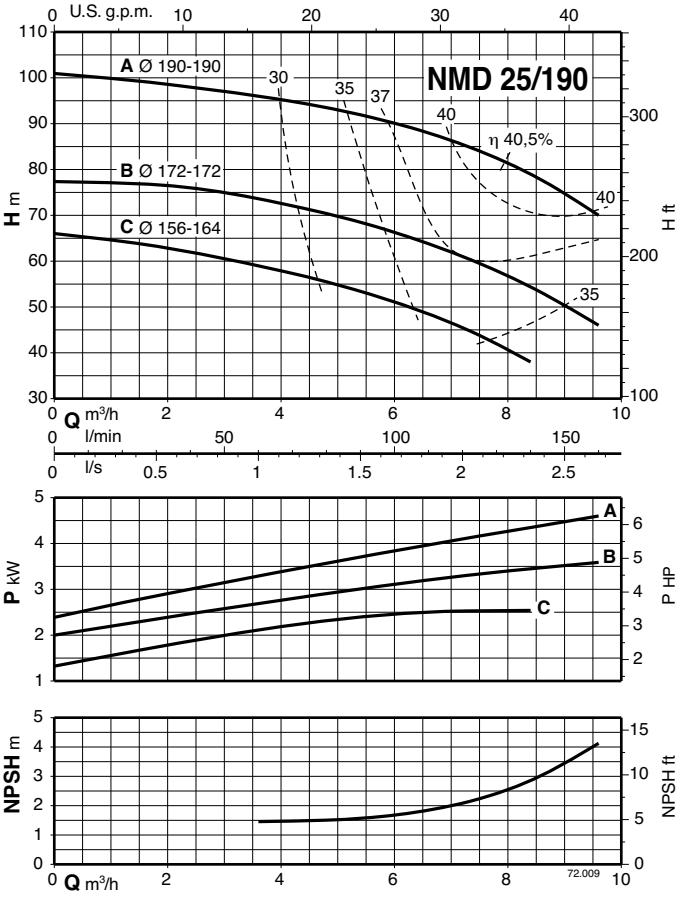



## Characteristic curves n ≈ 2900 rpm

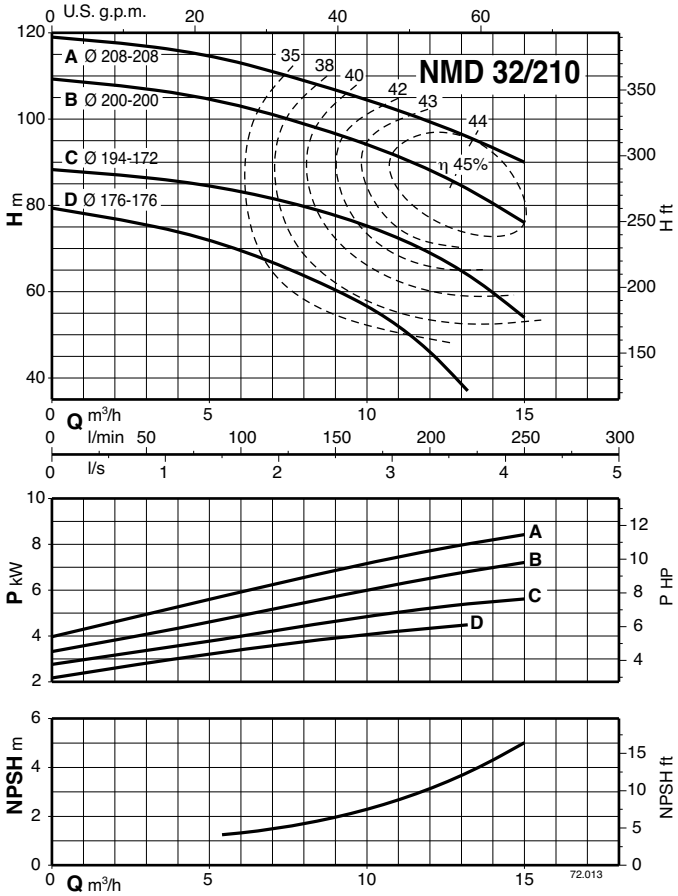


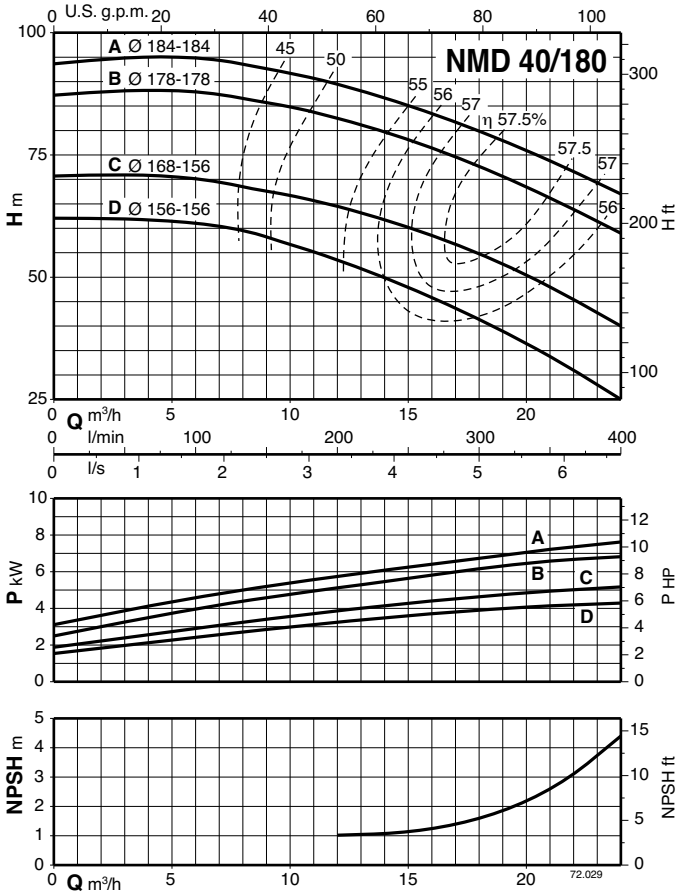


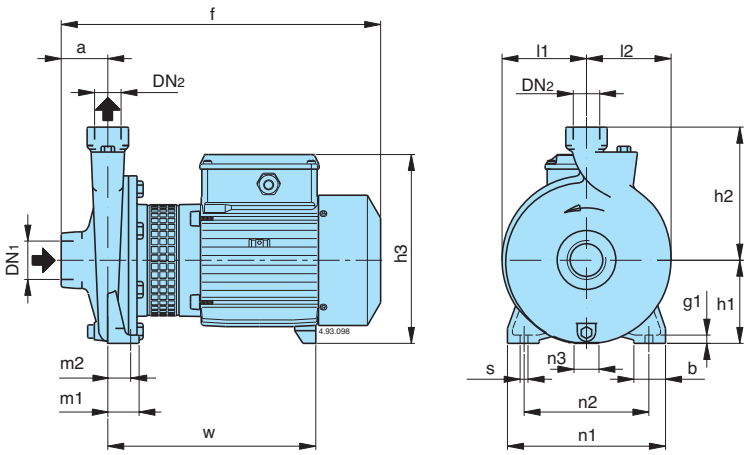
## Characteristic curves n ≈ 2900 rpm



## Dimensions and weights



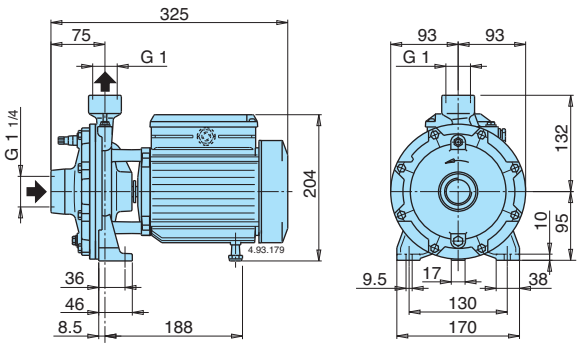



| TYPE | NMM kg | NM kg | B-NM kg |
|---|---|---|---|
| **NM 1/AE** | 8,7 | 8,6 | |
| **NM 2/B/A** | 14 | 13,1 | |
| **NM 2/S/A** | 14,2 | 13,3 | |
| **NM 2/A/A** | 15,1 | 14,2 | |
| **NM 3/CE** | 24 | 22,9 | |
| **NM 3/BE** | 26 | 25,1 | |
| **NM 3/A/A** | | 29,1 | |
| B- **NM 20/160BE** | 19,9 | 18,4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

| B-NM | NM | DN1 ISO 228 | DN2 ISO 228 | mm | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | b | s | l1 | l2 | w | g1 |
| | **NM 1/AE** | G 1 | G 1 | 40 | 261 | 80 | 132 | 176 | 40 | 32 | 170 | 140 | 17 | 35 | 9,5 | 77 | 81 | 171 | 10 |
| | **NM 2/A/A-S/A-B/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-CE**<br>**NM 3/A/A** | G 1 | G 1 | 50 | 375<br>415 | 112 | 180 | 240 | 55 | 43 | 245 | 205 | 37 | 45 | 11,5 | 110 | 113 | 244<br>284 | 12 |
| **B-NM 20/160AE-BE** | **NM 20/160AE-BE** | 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/A-B/A** | **NM 25/12A/A-B/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-BE** | **NM 25/160AE-BE** | 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/A**<br>**NM 25/20A/A-S/A** | G 1 1/2 | G 1 | 63 | 433<br>460 | 125 | 180 | 253<br>263 | 45 | 32,5 | 245 | 200 | 49<br>42 | 45 | 11,5 | 125 | 125 | 291<br>295 | 11 |
| **B-NM 25/200B/A**<br>**B-NM 25/200A/A-S/A** | | G 1 1/2 | G 1 | 63 | 445<br>460 | 125 | 180 | 253<br>263 | 45 | 32,5 | 245 | 200 | 49<br>42 | 45 | 11,5 | 125 | 125 | 303<br>295 | 11 |
| | **NM 10/SE-AE-DE-FE** | 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**<br>**NM 11/A/A** | G 2 | G 1 1/4 | 70 | 400<br>440 | 112 | 170 | 240 | 50 | 35 | 210 | 160 | 37 | 50 | 15 | 103 | 110 | 247<br>287 | 14 |
| | **NM 12/D/A**<br>**NM 12/A/A-C/A** | G 2 | G 1 1/4 | 70 | 440<br>470 | 132 | 190 | 260<br>270 | 50 | 35 | 240 | 190 | 47<br>45 | 50 | 15 | 125 | 127 | 287<br>300 | 14 |
| **B-NM 17/GE-HE**<br>**B-NM 17F/A**<br>**B-NM 17/D/A** | **NM 17/GE-HE**<br>**NM 17/F/A**<br>**NM 17/D/A** | G 2 1/2 | G 2 1/2 | 80 | 417<br>457<br>480 | 112 | 160 | 240<br>240<br>250 | 50 | 35 | 210 | 160 | 37<br>37<br>20 | 50 | 14 | 96 | 113 | 257<br>287<br>295 | 14 |

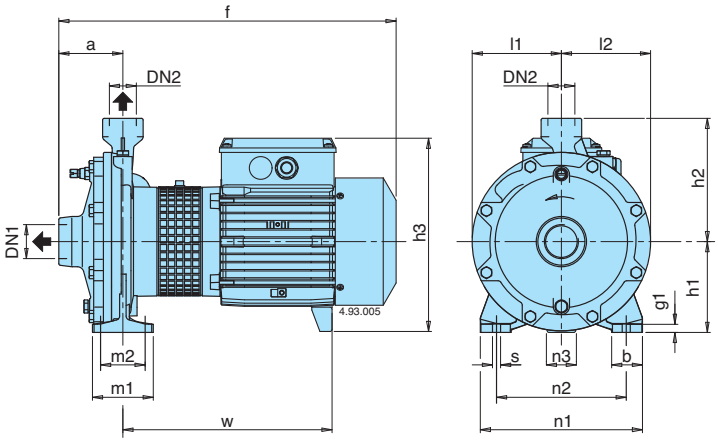
## Dimensions and weights

### NMD 20/110




| TYPE | NMDM kg | NMD kg | B-NMD kg |
|---|---|---|---|
| B- **NMD 20/110B/A** | 13 | 12,1 | 13,4 |
| B- **NMD 20/110Z/A** | 14 | 13 | 14,2 |
| B- **NMD 20/110A/A** | 15,1 | 14,2 | 17,4 |

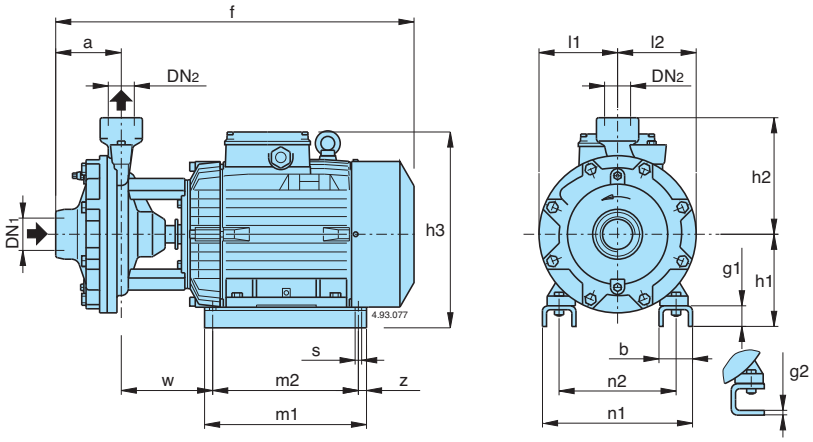
### NMD 20/140
### NMD 25/190




| TYPE | NMDM kg | NMD kg | B-NMD kg |
|---|---|---|---|
| B- **NMD 20/140BE** | 23,9 | 22,7 | 25,2 |
| B- **NMD 20/140AE** | 25,2 | 24,8 | 27,6 |
| B- **NMD 25/190C/A** | | 42 | 45,7 |
| B- **NMD 25/190B/A** | | 49,7 | 54 |
| B- **NMD 25/190A/A** | | 51,5 | 55,5 |

| B-NMD | NMD | DN1 ISO 228 | DN2 ISO 228 | mm | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | a | f | h1 | h2 | h3 | m1 | m2 | n1 | n2 | n3 | b | s | l1 | l2 | w | g1 |
| B-NMD 20/140AE-BE | NMD 20/140AE-BE | 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/A | NMD 25/190C/A | G 1 1/2 | G 1 | 97 | 487 | 140 | 180 | 268 | 100 | 70 | 240 | 190 | 50 | 50 | 14 | 133 | 133 | 314 | 13 |
| B-NMD 25/190A/A-B/A | NMD 25/190A/A-B/A | | | | 500 | | | 278 | | | | | 49 | | | | | 306 | |

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




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

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