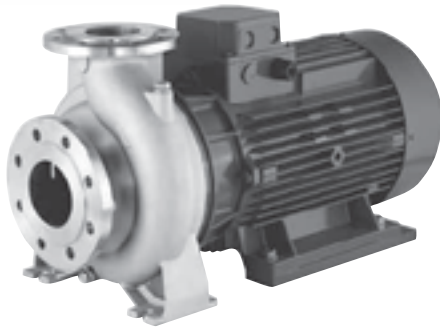


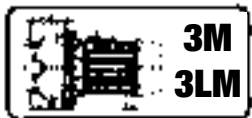
# 3 - 3L SERIES

## CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

Standardised centrifugal electric pumps built in stainless steel AISI 304 (3 SERIES) and AISI 316 (3L SERIES).



Available in 4 versions with 2 and 4 pole motors



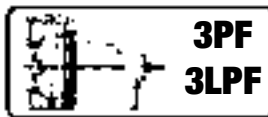
Monobloc with extended motor shaft



Monobloc with standard motor and rigid joint



On base, with standard motor and flexible coupling



Pump with bare shaft

### SPECIAL VERSIONS

- 3Z SERIES: electropump inclusive of rotary bracket and body without supporting foot.

### ACCESSORIES (On request)

- Counter-flanges available in the following materials:
  - galvanised
  - AISI 304
  - AISI 316

### APPLICATIONS

- Water supply to civil, agricultural and industrial plants
- Pressure boosting
- Fire-fighting, heating and air conditioning systems
- Pumping industrial liquids
- Irrigation
- Refrigeration towers
- Swimming pools
- Emptying
- Washing plants

### TECHNICAL DETAILS

- Highly resistant structure
- Hydroforming process EBARA patent

### PUMP TECHNICAL DATA

- Maximum working pressure: 10 bar
- Temperature of the liquid:
  - 10°C ÷ +90°C
  - 10°C ÷ +110°C (L-H-HS-HW-HSW versions)
  - 20°C ÷ +120°C (E-ES versions)
- MEI > 0.4

For further information please see our Data Book on the web site [www.ebara-europe.com](http://www.ebara-europe.com)

### MOTOR TECHNICAL DATA

- IE3 high energy-efficiency motors starting from 0.75kW
- Self-ventilated 2 and 4 poles asynchronous motor
- Class of insulation F (B for high temperatures)
- IP 55 protection degree
- 230V ±10% 50Hz single phase voltage, 230/400V ±10% (up 4 kW included) three phase voltage, 50 Hz, 400/690V ±10% (from 5.5 kW and above) three phase voltage, 50 Hz
- Protection is user's responsibility

### MATERIALS

- Pump casing and casing cover in:
  - AISI 304 for 3 SERIES 32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200
  - AISI 316L for 3L SERIES 32-125/160/200 40-125/160/200 50-125/160/200 65-125/160/200
  - AISI 316 microcasted for 3L SERIES 65-250 80-160/200/250
- Impeller in:
  - AISI 304 for 3 SERIES 32-125/160/200 40-125/160/200 50-125/160/200
  - AISI 316L for 3L SERIES 32-125/160/200 40-125/160/200 50-125/160/200
  - AISI 316 microcasted for 3 SERIES 65-125/160/200 3L SERIES 65-125/160/200 65-250 80-160/200/250

- Mechanical seal standard in:

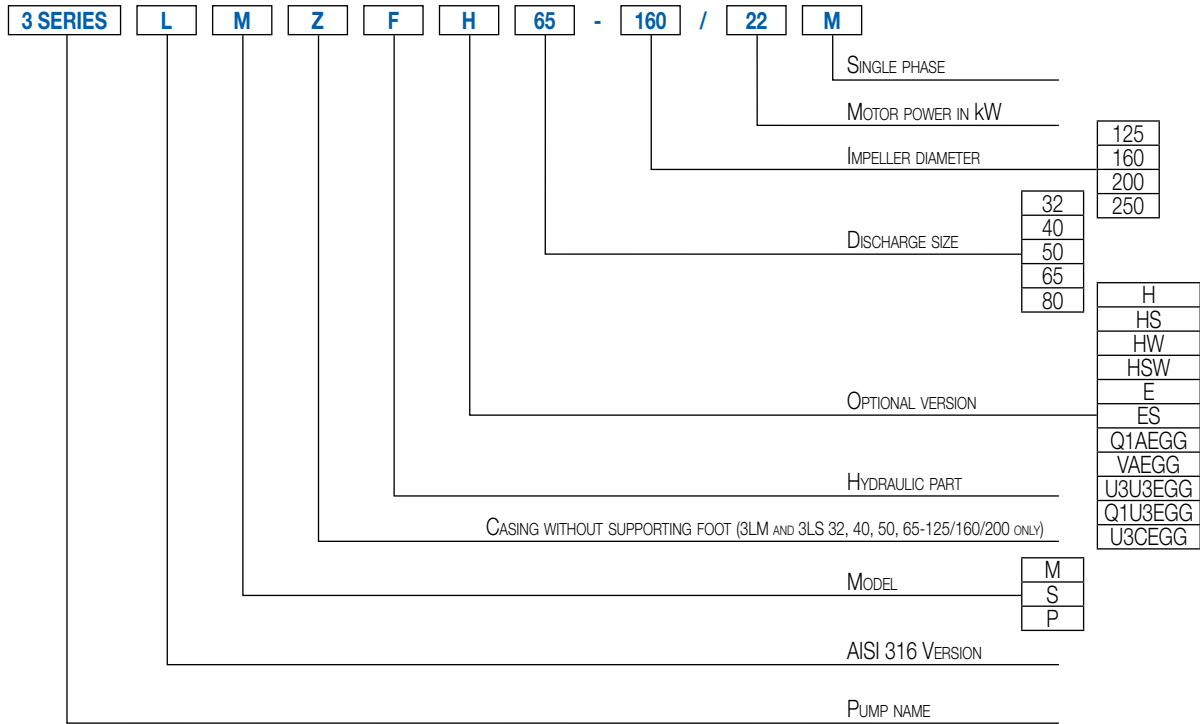
- Carbon/Ceramic/NBR for 3 SERIES
- Silicon Carbide/Silicon Carbide/FKM for 3L SERIES
- special mechanical seals available on request, see p. 92 for 3-3L SERIES 2 poles, p.130 for 3-3L SERIES 4 poles



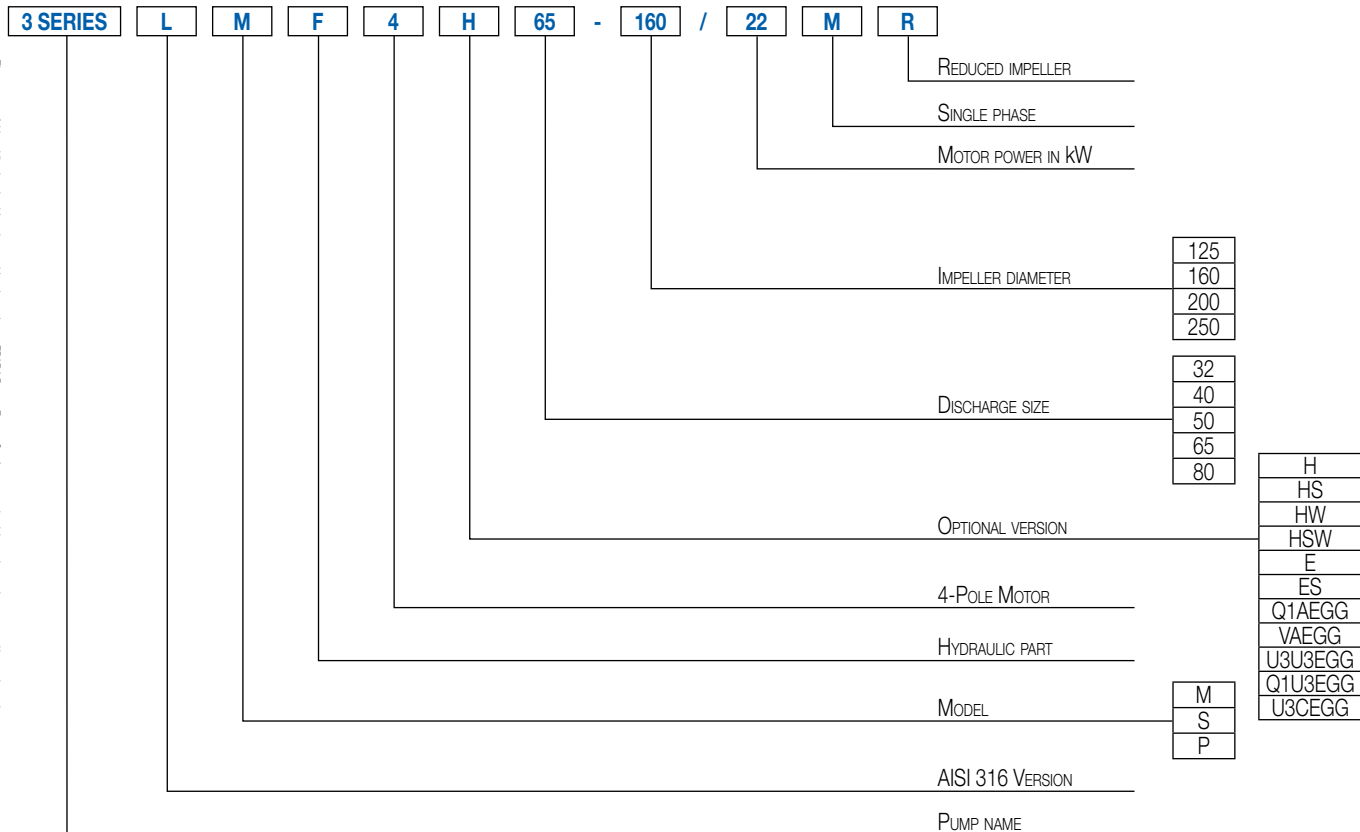
# 3 - 3L SERIES

**CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)**

## IDENTIFICATION CODE - 2 Poles



## IDENTIFICATION CODE - 4 Poles



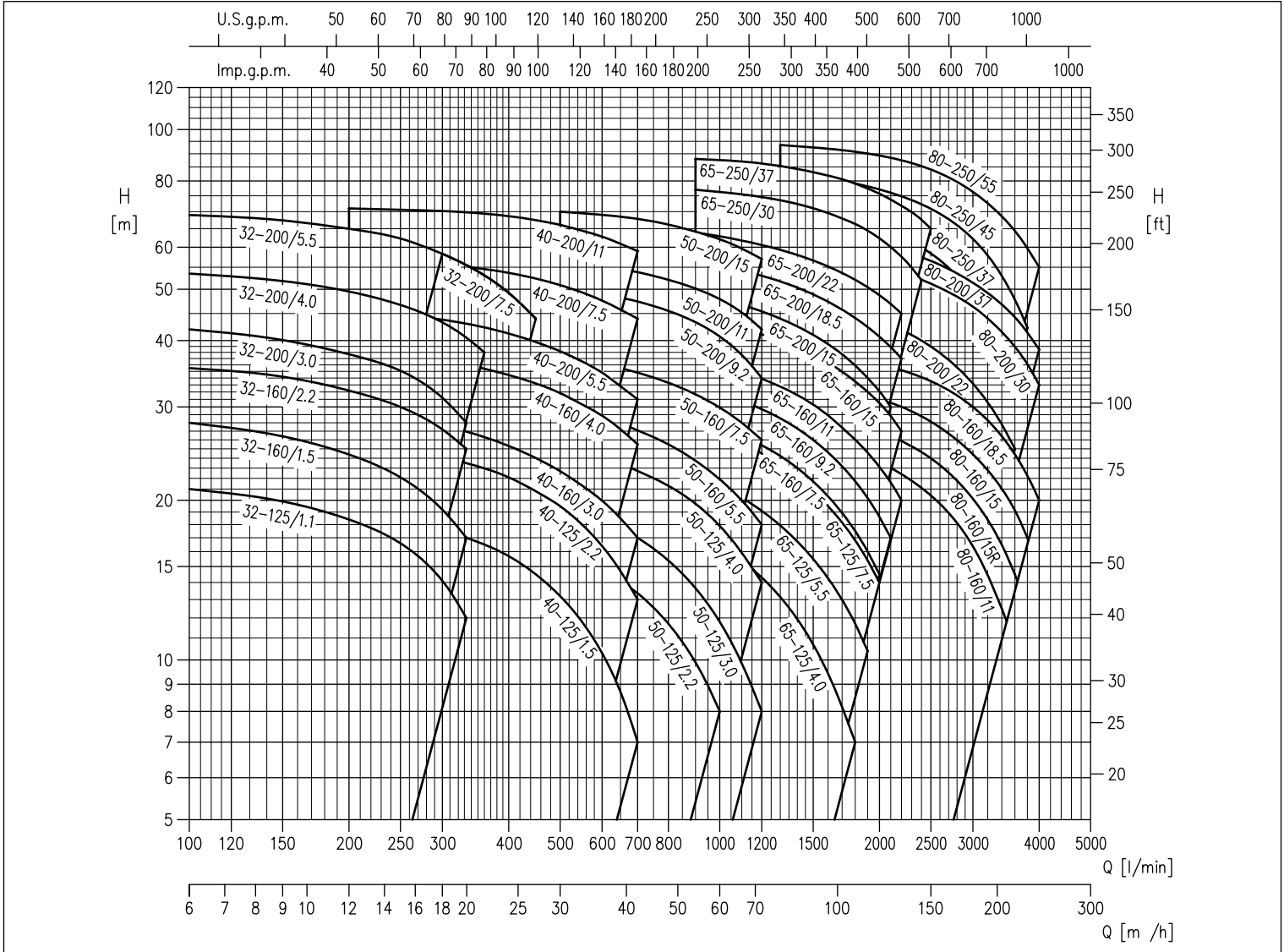
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# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE RANGE 3(L) SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



| Versions | 3M | 3S | 3P | 3LM | 3LMZ | 3LS | 3LSZ | 3LP |
|----------|----|----|----|-----|------|-----|------|-----|
| 32-125   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 32-160   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 32-200   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 40-125   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 40-160   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 40-200   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 50-125   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 50-160   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 50-200   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 65-125   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 65-160   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 65-200   | ■  | ■  | ■  | ■   | ◆    | ■   | ◆    | ■   |
| 65-250   | -  | -  | -  | -   | -    | ●   | -    | ●   |
| 80-160   | -  | -  | -  | ●   | -    | ●   | -    | ●   |
| 80-200   | -  | -  | -  | -   | -    | ●   | -    | ●   |
| 80-250   | -  | -  | -  | -   | -    | ▲   | -    | ▲   |

- = Models also available in H-HS-HW-HSW-E version
- = Models also available in H-HW-HSW-E version
- ▲ = Models also available in H-HW-HSW-ES version
- ◆ = Models available only in standard version

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# 3 - 3L SERIES

**CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)**

**PERFORMANCE CHART 32-40-50**

**2 Poles**

| Model                     | P <sub>2</sub> |      | Q = Flow Rate     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------------------------|----------------|------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                           | [HP]           | [kW] | l/min             | 100        | 150  | 200  | 300  | 333  | 360  | 400  | 450  | 500  | 600  | 700  | 800  | 1000 | 1200 |
|                           |                |      | m <sup>3</sup> /h | 6          | 9    | 12   | 18   | 20   | 22   | 24   | 27   | 30   | 36   | 42   | 48   | 60   | 72   |
|                           |                |      |                   | H=Head [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3(.) SERIES 32-125/1.1(M) | 1.5            | 1.1  | 21.0              | 19.9       | 18.4 | 14.1 | 12.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-160/1.5(M) | 2              | 1.5  | 28.0              | 26.5       | 24.5 | 19.2 | 17.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-160/2.2(M) | 3              | 2.2  | 35.5              | 34.0       | 32.0 | 27.0 | 25.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-200/3.0    | 4              | 3    | 42.0              | 40.0       | 37.5 | 31.0 | 28.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-200/4.0    | 5.5            | 4    | 53.5              | 52.0       | 49.5 | 43.5 | 40.5 | 38.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-200/5.5    | 7.5            | 5.5  | 69.0              | 67.5       | 65.0 | 58.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 32-200/7.5    | 10             | 7.5  | 69.0              | 67.5       | 65.0 | 58.5 | 55.5 | 53.0 | 49.0 | 44.0 | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 40-125/1.5(M) | 2              | 1.5  | -                 | -          | 19.0 | 17.6 | 17.0 | 16.5 | 15.7 | 14.5 | 13.2 | 10.3 | 7.0  | -    | -    | -    | -    |
| 3(.) SERIES 40-125/2.2(M) | 3              | 2.2  | -                 | -          | 25.5 | 24.0 | 23.5 | 23.0 | 22.0 | 21.0 | 19.5 | 16.4 | 13.0 | -    | -    | -    | -    |
| 3(.) SERIES 40-160/3.0    | 4              | 3    | -                 | -          | 29.5 | 27.5 | 27.0 | 26.5 | 25.5 | 24.0 | 22.5 | 20.0 | 17.0 | -    | -    | -    | -    |
| 3(.) SERIES 40-160/4.0    | 5.5            | 4    | -                 | -          | 38.5 | 37.0 | 36.0 | 35.5 | 34.5 | 33.0 | 32.0 | 29.0 | 25.5 | -    | -    | -    | -    |
| 3(.) SERIES 40-200/5.5    | 7.5            | 5.5  | -                 | -          | 45.5 | 44.0 | 43.0 | 42.5 | 41.0 | 39.5 | 38.0 | 35.0 | 31.0 | -    | -    | -    | -    |
| 3(.) SERIES 40-200/7.5    | 10             | 7.5  | -                 | -          | 57.0 | 55.5 | 55.0 | 54.5 | 53.5 | 52.5 | 51.0 | 47.5 | 44.0 | -    | -    | -    | -    |
| 3(.) SERIES 40-200/11     | 15             | 11   | -                 | -          | 71.0 | 70.0 | 70.0 | 69.5 | 68.5 | 67.5 | 66.0 | 63.0 | 59.0 | -    | -    | -    | -    |
| 3(.) SERIES 50-125/2.2(M) | 3              | 2.2  | -                 | -          | -    | -    | -    | -    | 17.5 | 17.0 | 16.3 | 14.9 | 13.4 | 11.7 | 8.0  | -    | -    |
| 3(.) SERIES 50-125/3.0    | 4              | 3    | -                 | -          | -    | -    | -    | -    | 20.5 | 20.0 | 19.6 | 18.4 | 17.0 | 15.4 | 11.8 | 8.0  | -    |
| 3(.) SERIES 50-125/4.0    | 5.5            | 4    | -                 | -          | -    | -    | -    | -    | 26.0 | 25.5 | 25.0 | 24.0 | 22.5 | 21.5 | 17.9 | 14.0 | -    |
| 3(.) SERIES 50-160/5.5    | 7.5            | 5.5  | -                 | -          | -    | -    | -    | -    | 31.0 | 30.5 | 30.0 | 28.5 | 27.0 | 25.5 | 22.0 | 18.0 | -    |
| 3(.) SERIES 50-160/7.5    | 10             | 7.5  | -                 | -          | -    | -    | -    | -    | 38.5 | 38.0 | 37.5 | 36.0 | 35.0 | 33.5 | 30.0 | 26.0 | -    |
| 3(.) SERIES 50-200/9.2    | 12.5           | 9.2  | -                 | -          | -    | -    | -    | -    | -    | -    | 50.0 | 49.0 | 47.5 | 45.5 | 40.5 | 34.0 | -    |
| 3(.) SERIES 50-200/11     | 15             | 11   | -                 | -          | -    | -    | -    | -    | -    | -    | 56.0 | 55.0 | 54.0 | 52.0 | 48.0 | 42.0 | -    |
| 3(.) SERIES 50-200/15     | 20             | 15   | -                 | -          | -    | -    | -    | -    | -    | -    | 70.0 | 69.0 | 68.0 | 66.0 | 62.0 | 57.0 | -    |

(M) Single phase version only for 3M SERIES

**PERFORMANCE CHART 65-80**

**2 Poles**

| Model                   | P <sub>2</sub> |      | Q = Flow Rate     |            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|----------------|------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                         | [HP]           | [kW] | l/min             | 600        | 700  | 900  | 1300 | 1500 | 1700 | 1900 | 2100 | 2200 | 2300 | 2400 | 2500 | 3000 | 3400 | 3600 | 3800 | 4000 |
|                         |                |      | m <sup>3</sup> /h | 36         | 42   | 54   | 78   | 90   | 102  | 114  | 126  | 132  | 138  | 144  | 150  | 180  | 204  | 216  | 228  | 240  |
|                         |                |      |                   | H=Head [m] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 3(.) SERIES 65-125/4.0  | 5.5            | 4    | 19.8              | 19.0       | 17.3 | 13.3 | 11.0 | 8.6  | 6.3  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-125/5.5  | 7.5            | 5.5  | -                 | 24.0       | 22.2 | 18.0 | 15.7 | 13.3 | 10.8 | 8.0  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-125/7.5  | 10             | 7.5  | -                 | 29.5       | 27.8 | 23.5 | 21.1 | 18.7 | 16.1 | 13.4 | 12.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-160/7.5  | 10             | 7.5  | -                 | 30.0       | 28.6 | 24.8 | 22.5 | 19.9 | 17.1 | 14.2 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-160/9.2  | 12.5           | 9.2  | -                 | 34.5       | 32.8 | 28.8 | 26.5 | 23.9 | 21.1 | 18.3 | 16.8 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-160/11   | 15             | 11   | -                 | 38.5       | 37.1 | 33.1 | 30.9 | 28.4 | 25.8 | 23.0 | 21.5 | 20.0 | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-160/15   | 20             | 15   | -                 | 45.5       | 44.0 | 40.0 | 37.8 | 35.3 | 32.6 | 29.6 | 28.0 | 26.5 | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-200/15   | 20             | 15   | -                 | 51.0       | 49.0 | 44.0 | 41.5 | 38.4 | 35.3 | 31.8 | 30.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-200/18.5 | 25             | 18.5 | -                 | 58.5       | 56.5 | 51.5 | 49.0 | 46.0 | 43.0 | 39.7 | 38.0 | 36.3 | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-200/22   | 30             | 22   | -                 | 65.5       | 64.0 | 59.5 | 57.0 | 54.0 | 51.0 | 48.0 | 46.5 | 45.0 | -    | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-250/30   | 40             | 30   | -                 | -          | 77.0 | 73.5 | 71.0 | 68.0 | 64.5 | 60.0 | 57.5 | 55.0 | 52.0 | -    | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 65-250/37   | 50             | 37   | -                 | -          | 88.0 | 85.5 | 83.0 | 80.5 | 77.5 | 74.0 | 72.0 | 70.0 | 67.5 | 65.0 | -    | -    | -    | -    | -    | -    |
| 3(.) SERIES 80-160/11   | 15             | 11   | -                 | -          | -    | 27.3 | 26.4 | 25.4 | 24.2 | 23.0 | 22.4 | 21.8 | 21.1 | 20.4 | 16.4 | 12.5 | -    | -    | -    | -    |
| 3(.) SERIES 80-160/15R  | 20             | 15   | -                 | -          | -    | 30.5 | 29.7 | 28.8 | 27.7 | 26.5 | 25.9 | 25.3 | 24.6 | 24.0 | 20.1 | 16.5 | 14.5 | -    | -    | -    |
| 3(.) SERIES 80-160/15   | 20             | 15   | -                 | -          | -    | 34.0 | 33.3 | 32.5 | 31.5 | 30.5 | 30.0 | 29.4 | 28.8 | 28.1 | 24.4 | 21.0 | 19.1 | 17.0 | -    | -    |
| 3(.) SERIES 80-160/18.5 | 25             | 18.5 | -                 | -          | -    | 39.0 | 38.4 | 37.6 | 36.7 | 35.7 | 35.2 | 34.7 | 34.1 | 33.5 | 30.0 | 26.4 | 24.4 | 22.3 | 20.0 | -    |
| 3(.) SERIES 80-200/22   | 30             | 22   | -                 | -          | -    | 48.0 | 47.0 | 45.5 | 44.5 | 43.0 | 42.0 | 41.0 | 40.0 | 39.0 | 33.2 | 27.8 | 25.0 | -    | -    | -    |
| 3(.) SERIES 80-200/30   | 40             | 30   | -                 | -          | -    | 58.5 | 58.0 | 57.0 | 56.0 | 54.5 | 54.0 | 53.0 | 52.0 | 51.0 | 46.5 | 41.5 | 39.0 | 36.1 | 33.0 | -    |
| 3(.) SERIES 80-200/37   | 50             | 37   | -                 | -          | -    | 64.0 | 63.0 | 62.0 | 61.0 | 59.5 | 59.0 | 58.0 | 57.5 | 56.5 | 51.5 | 47.0 | 44.5 | 41.5 | 38.5 | -    |
| 3(.) SERIES 80-250/37   | 50             | 37   | -                 | -          | -    | 71.5 | 70.5 | 68.5 | 66.5 | 64.0 | 63.0 | 61.5 | 60.0 | 58.5 | 48.5 | 38.0 | -    | -    | -    | -    |
| 3(.) SERIES 80-250/45   | 60             | 45   | -                 | -          | -    | 82.5 | 81.5 | 80.0 | 78.0 | 76.0 | 75.0 | 73.5 | 72.5 | 71.0 | 62.0 | 53.0 | 48.0 | 42.5 | -    | -    |
| 3(.) SERIES 80-250/55   | 75             | 55   | -                 | -          | -    | 93.5 | 92.5 | 91.5 | 90.0 | 88.5 | 87.5 | 86.5 | 85.5 | 84.0 | 76.5 | 68.5 | 64.5 | 60.0 | 55.0 | -    |

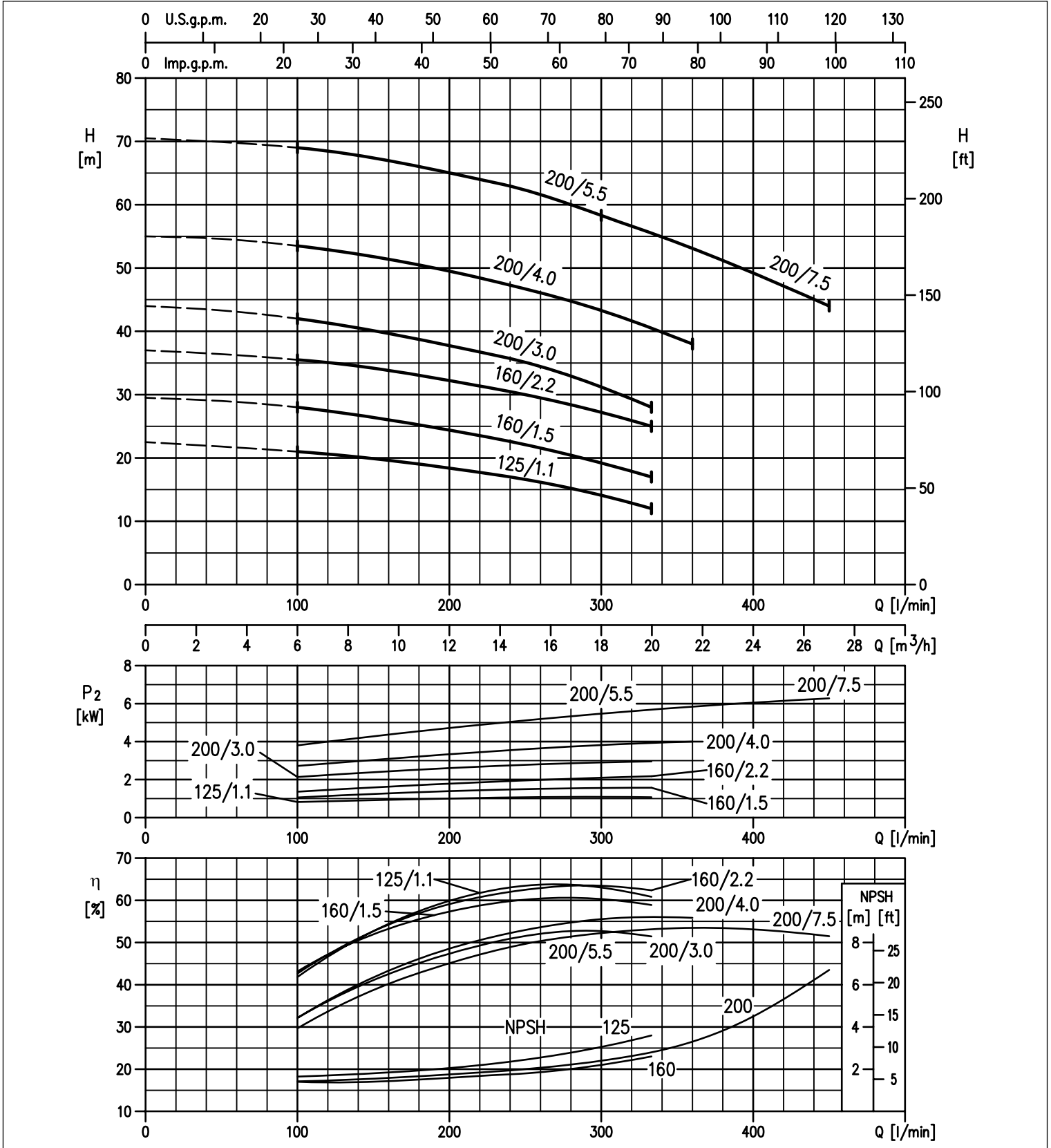


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 32 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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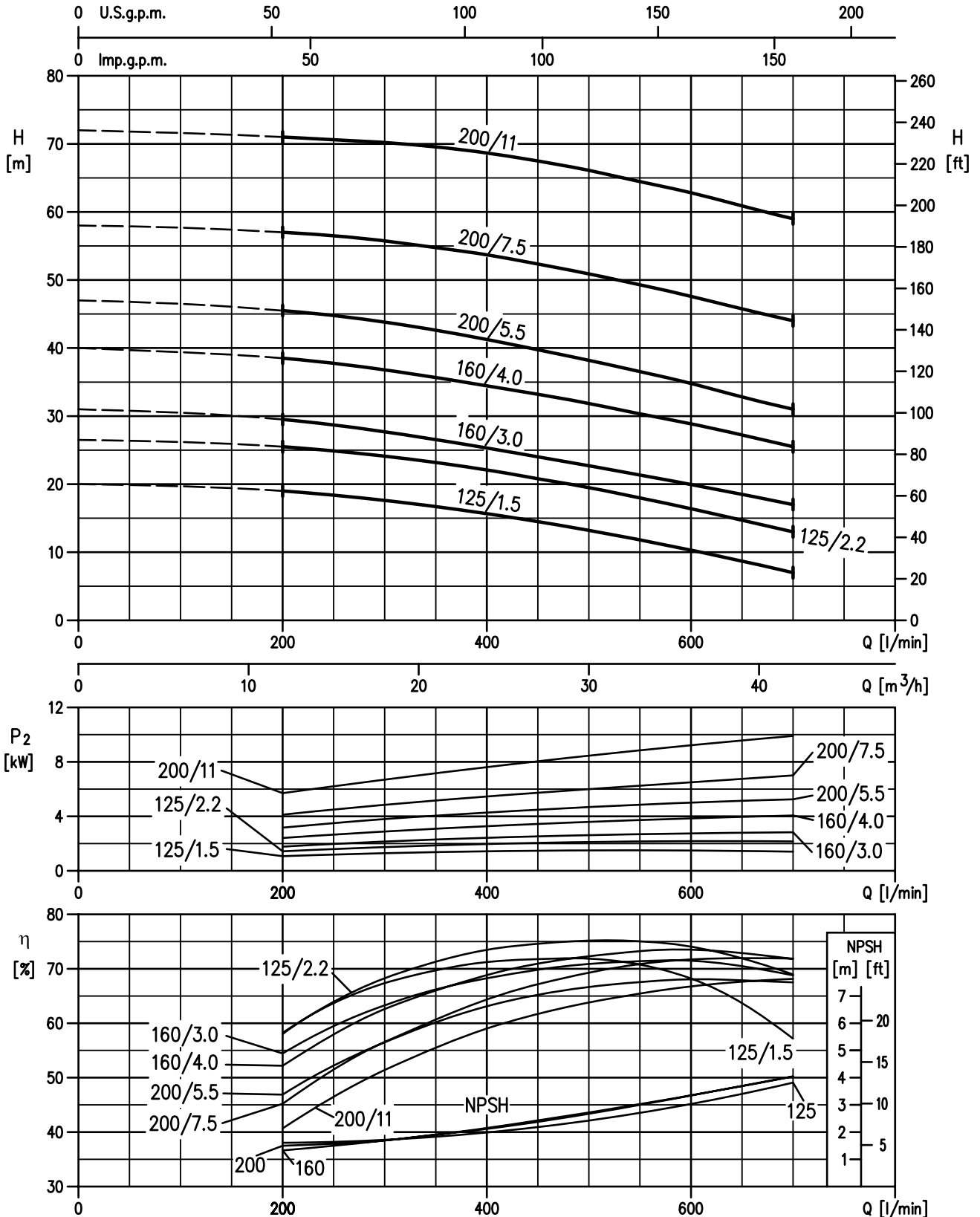


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 40 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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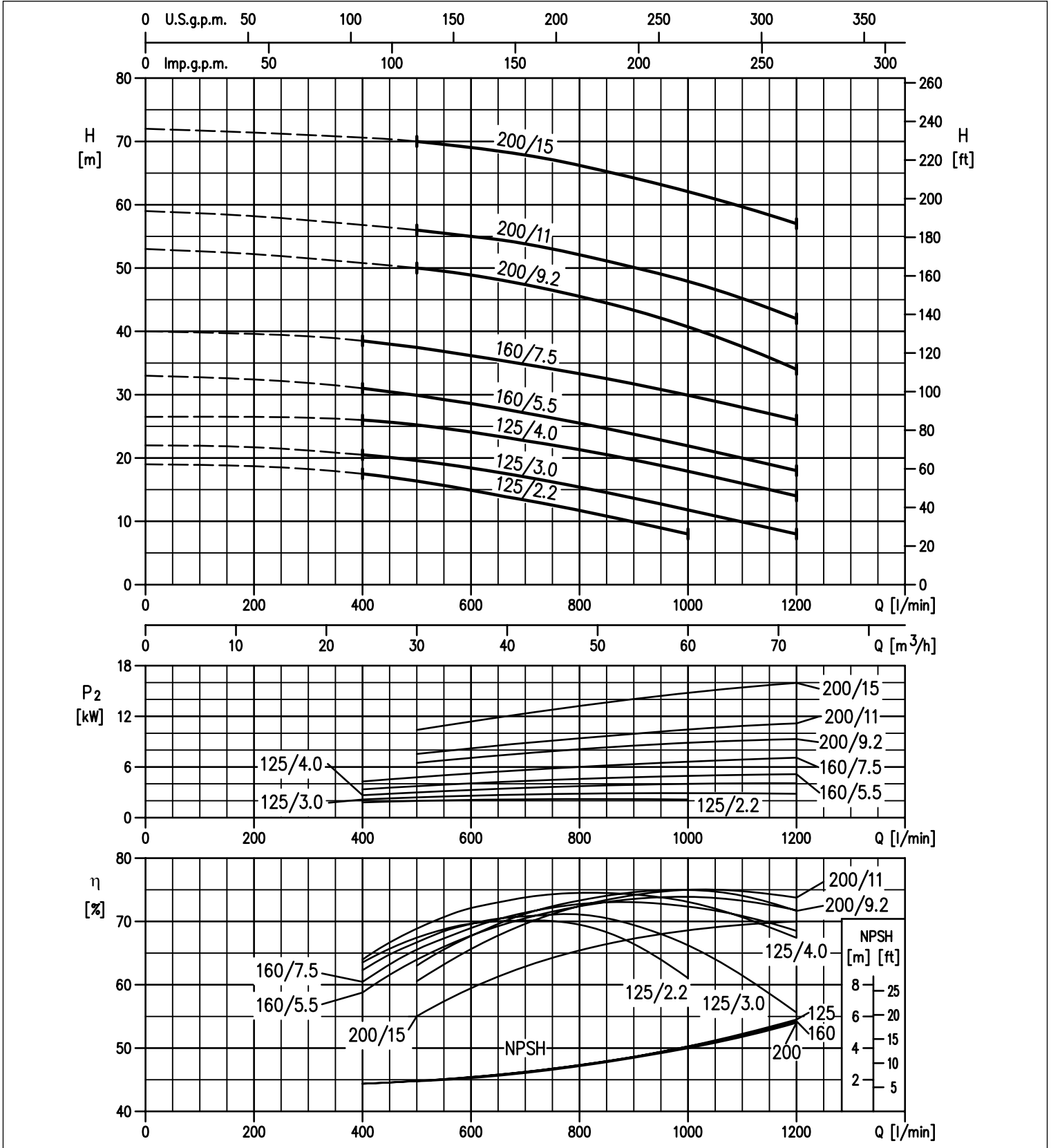


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(LP) 50 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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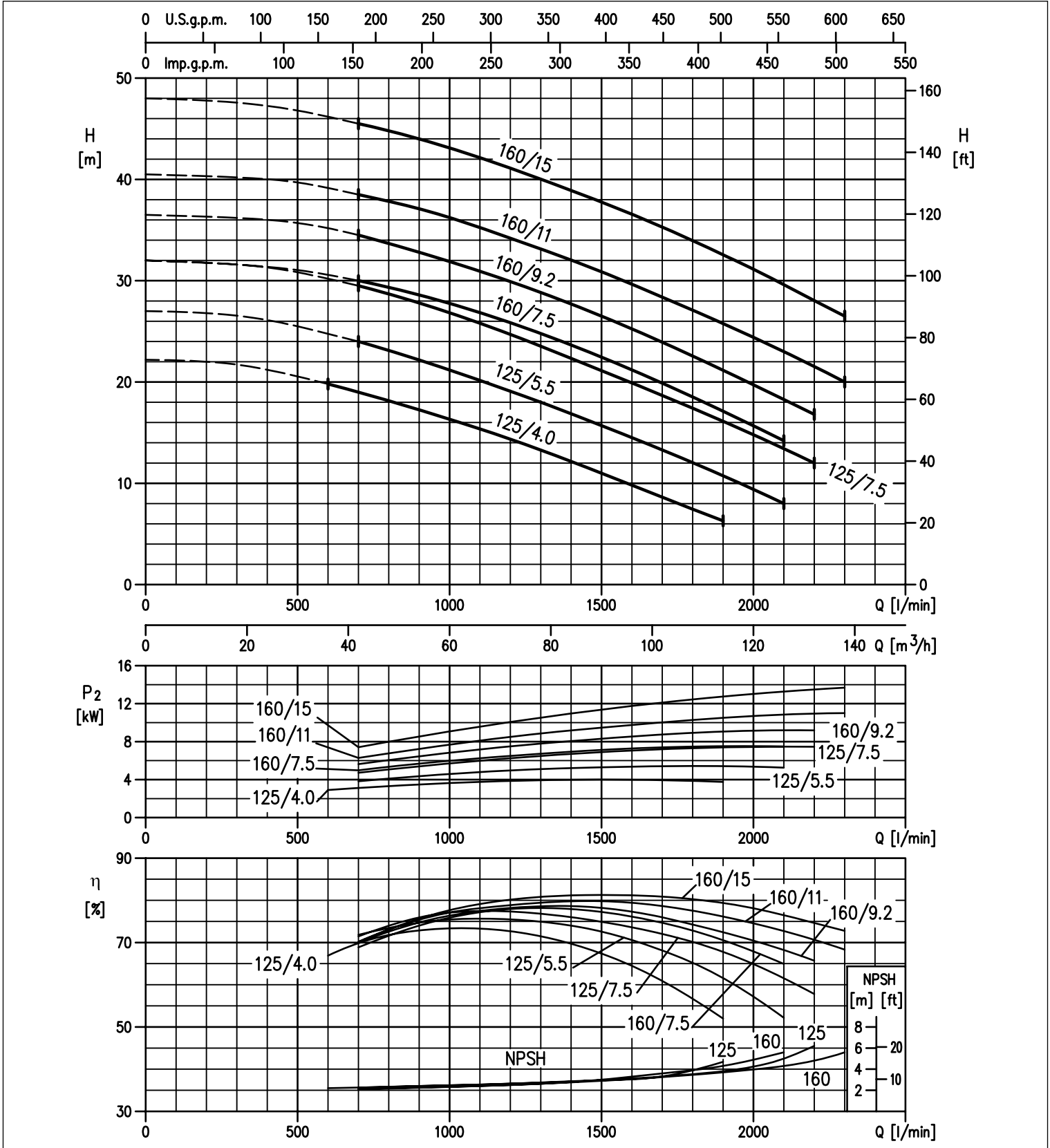


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3(L)M-3(L)S-3(L)P 65 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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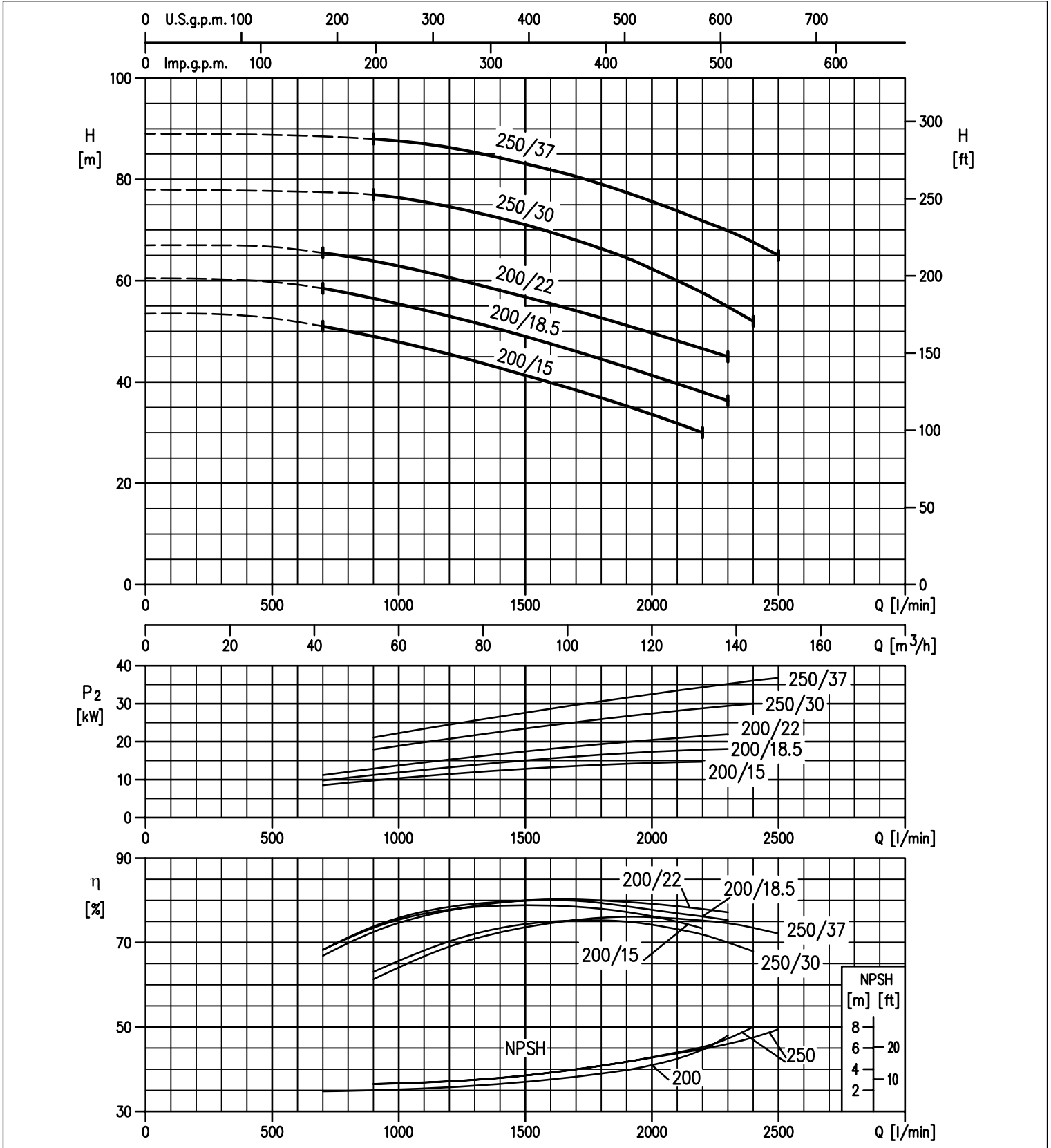


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 65 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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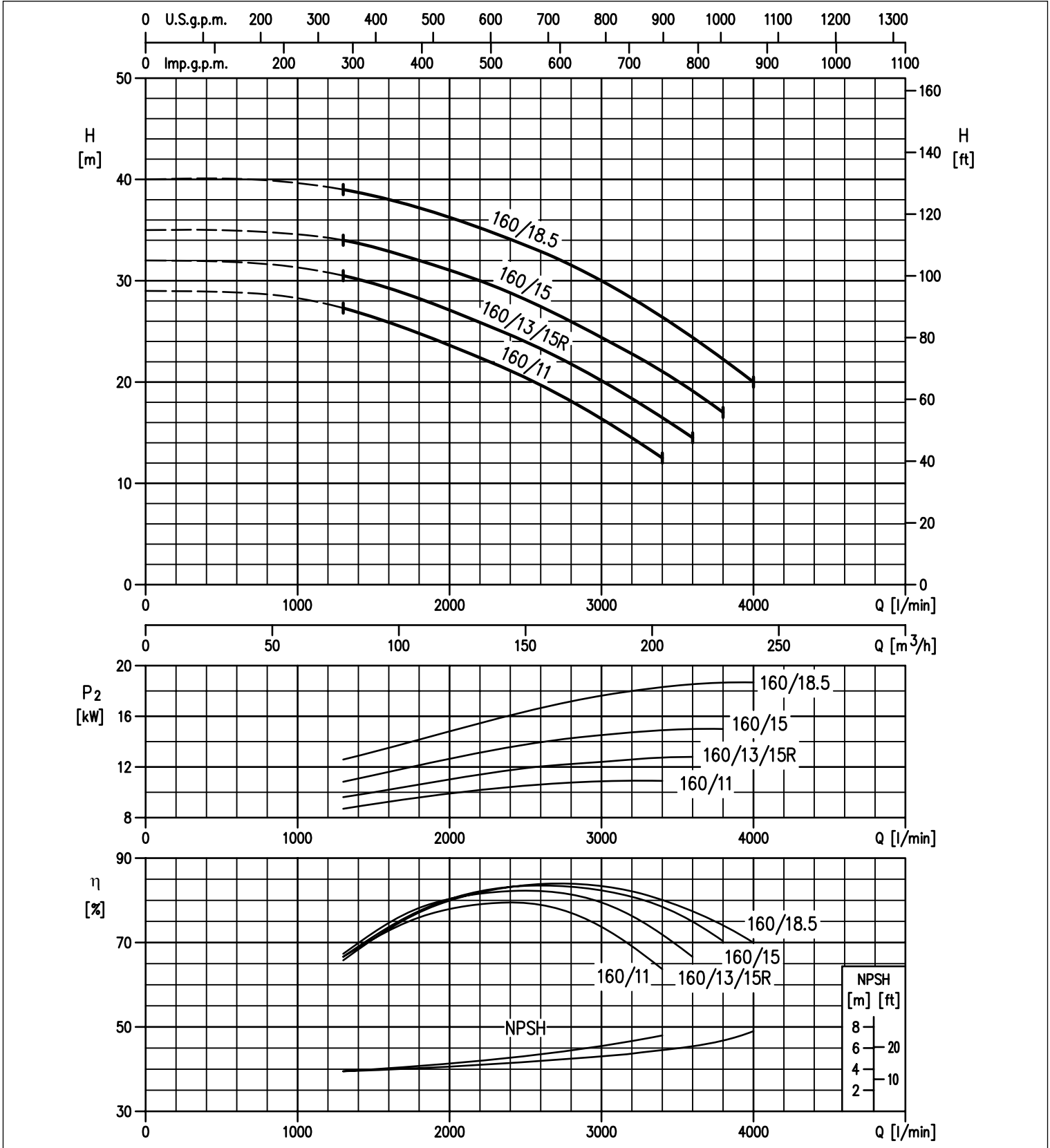


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 80 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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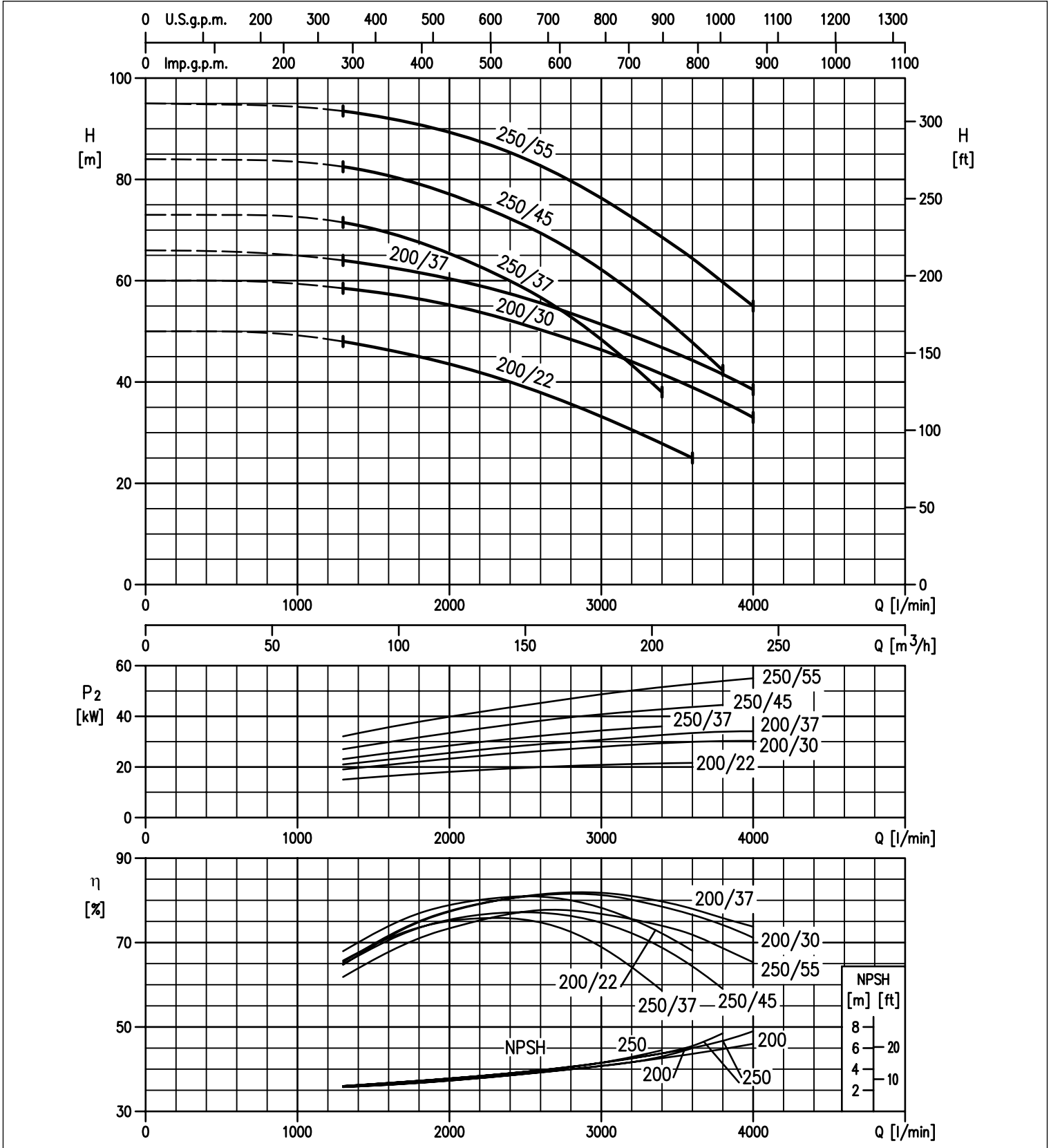


# 3 - 3L SERIES

CENTRIFUGAL ELECTRIC PUMPS STANDARDISED IN COMPLIANCE WITH EN 733 (EX DIN 24255)

PERFORMANCE CURVES 3L 80 SERIES at 2900 min<sup>-1</sup> (according to ISO 9906 Attachment A)

2 Poles



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