


## Electropompes centrifuges normalisées "EN 733"

 Eaux claires

 Usage industriel



### PLAGE DES PERFORMANCES

- Débit jusqu'à **3000 l/min** (180 m<sup>3</sup>/h)
- Hauteur manométrique totale jusqu'à **24 m**

### LIMITES D'UTILISATION

- Hauteur manométrique d'aspiration jusqu'à **7 m**
- Température du liquide de **-10 °C à +90 °C**
- Température ambiante jusqu'à **-10 °C à +40 °C**
- Pression maxi dans le corps de pompe **10 bar** (PN10)
- Service continu **S1**

### EXÉCUTION ET NORMES DE SÉCURITÉ

EN 60335-1  
IEC 60335-1  
CEI 61-150

EN 60034-1  
IEC 60034-1  
CEI 2-3



Dimensions corps de pompe selon: **EN 733**

**REGLEMENT (UE) N. 547/2012**

### CERTIFICATIONS

Société avec système de gestion certifié DNV  
ISO 9001: QUALITE  
ISO 14001: ENVIRONNEMENT ET SECURITE



### UTILISATIONS ET INSTALLATIONS

- Approvisionnement en eau
- Surpression
- Irrigation
- Circulation d'eau dans des installations de climatisation
- Installations de lavage
- Installations anti-incendie
- Industrie
- Agriculture

Elles doivent être installées dans des lieux fermés ou à l'abri des intempéries.

### EXÉCUTIONS SUR DEMANDE

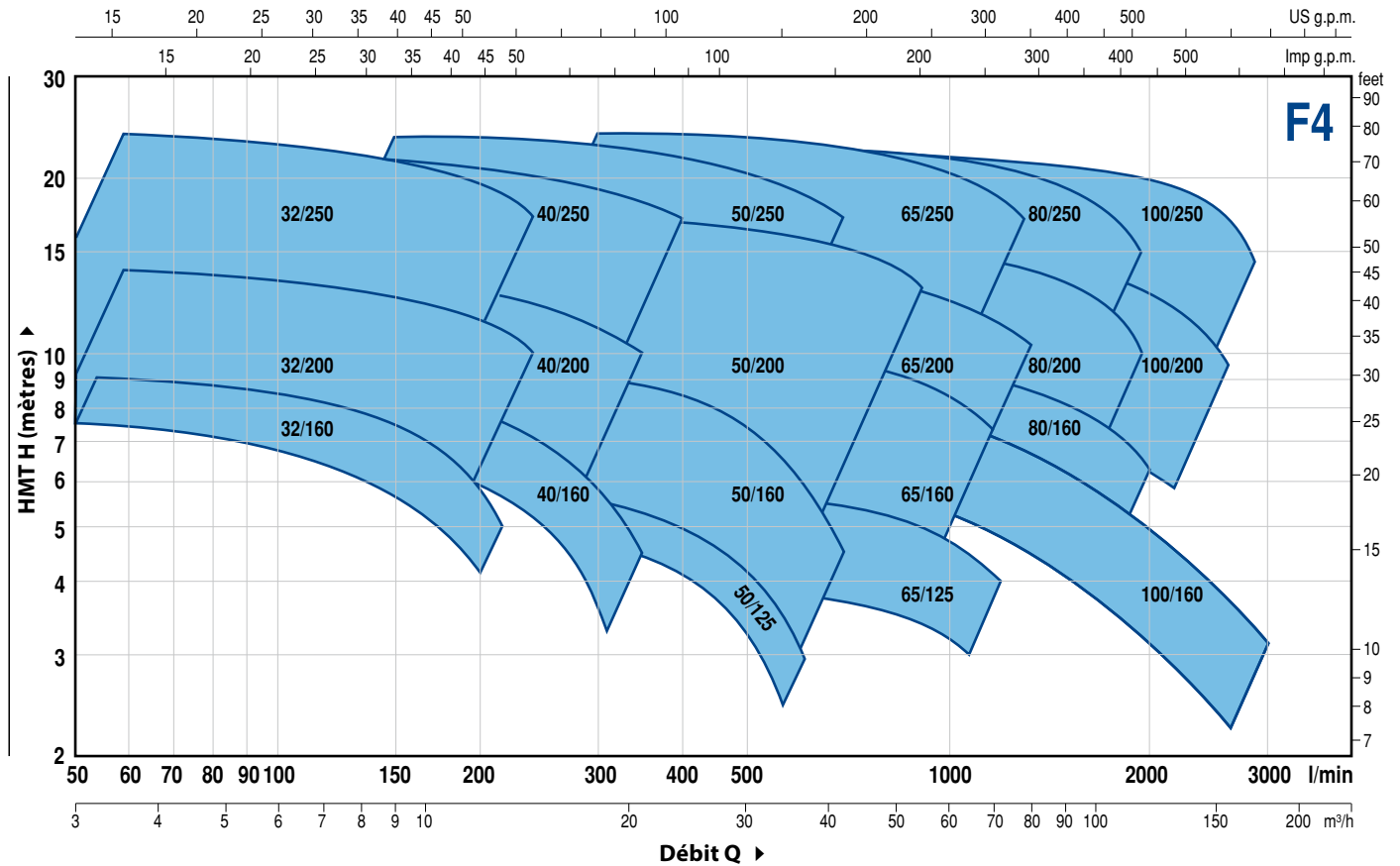
- KIT contrebrides avec vis, écrous et joints
- Autres tensions ou fréquence à 60 Hz
- Pour liquides avec températures plus élevées ou plus basses
- Pour environnements avec températures plus élevées ou plus basses

### GARANTIE

2 ans selon nos conditions générales de vente

## PLAGES DES PERFORMANCES

50 Hz n = 1450 rpm



## CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n = 1450 rpm

| TYPE               | PUISSANCE (P <sub>2</sub> ) |      |     | PERFORMANCES |             |
|--------------------|-----------------------------|------|-----|--------------|-------------|
|                    | kW                          | HP   | ▲   | Q l/min      | H mètres    |
| <b>F4-32/160B</b>  | 0.37                        | 0.5  | IE2 | 50 ÷ 200     | 7.5 ÷ 4.5   |
| <b>F4-32/160A</b>  | 0.37                        | 0.5  |     | 50 ÷ 225     | 9 ÷ 5       |
| <b>F4-32/200B</b>  | 0.75                        | 1    | IE2 | 50 ÷ 250     | 12.5 ÷ 9    |
| <b>F4-32/200A</b>  | 1.1                         | 1.5  |     | 50 ÷ 250     | 14 ÷ 10.5   |
| <b>F4-32/200BH</b> | 0.75                        | 1    | IE2 | 50 ÷ 150     | 11.3 ÷ 9.2  |
| <b>F4-32/200AH</b> | 0.75                        | 1    |     | 50 ÷ 160     | 13.8 ÷ 11   |
| <b>F4-32/250C</b>  | 1.1                         | 1.5  | IE2 | 50 ÷ 200     | 18.5 ÷ 13.5 |
| <b>F4-32/250B</b>  | 1.5                         | 2    |     | 50 ÷ 225     | 21.5 ÷ 15.5 |
| <b>F4-32/250A</b>  | 2.2                         | 3    | IE3 | 50 ÷ 250     | 24 ÷ 16.5   |
| <b>F4-40/160B</b>  | 0.37                        | 0.5  | IE2 | 50 ÷ 320     | 7.5 ÷ 3.5   |
| <b>F4-40/160A</b>  | 0.55                        | 0.75 |     | 50 ÷ 350     | 9 ÷ 4.5     |
| <b>F4-40/200B</b>  | 0.75                        | 1    | IE2 | 50 ÷ 350     | 11.5 ÷ 7    |
| <b>F4-40/200A</b>  | 1.1                         | 1.5  |     | 50 ÷ 350     | 13.8 ÷ 10   |
| <b>F4-40/250C</b>  | 1.1                         | 1.5  | IE2 | 50 ÷ 400     | 15.5 ÷ 10   |
| <b>F4-40/250B</b>  | 1.5                         | 2    |     | 50 ÷ 400     | 17.5 ÷ 12   |
| <b>F4-40/250A</b>  | 2.2                         | 3    | IE3 | 50 ÷ 400     | 22 ÷ 17     |
| <b>F4-50/125B</b>  | 0.55                        | 0.75 | IE2 | 150 ÷ 600    | 5 ÷ 2       |
| <b>F4-50/125A</b>  | 0.55                        | 0.75 |     | 150 ÷ 600    | 6 ÷ 3       |
| <b>F4-50/160B</b>  | 0.75                        | 1    | IE2 | 150 ÷ 650    | 8 ÷ 3.8     |
| <b>F4-50/160A</b>  | 1.1                         | 1.5  |     | 150 ÷ 700    | 9.3 ÷ 4.5   |
| <b>F4-50/200C</b>  | 1.5                         | 2    | IE3 | 200 ÷ 850    | 11 ÷ 7.5    |
| <b>F4-50/200B</b>  | 2.2                         | 3    |     | 200 ÷ 850    | 13 ÷ 9.5    |
| <b>F4-50/200A</b>  | 2.2                         | 3    |     | 200 ÷ 900    | 15 ÷ 11.2   |
| <b>F4-50/200AR</b> | 3                           | 4    |     | 200 ÷ 900    | 17 ÷ 13.2   |
| <b>F4-50/250D</b>  | 1.1                         | 1.5  | IE2 | 150 ÷ 650    | 12.5 ÷ 5    |
| <b>F4-50/250C</b>  | 1.5                         | 2    |     | 150 ÷ 700    | 14 ÷ 5      |
| <b>F4-50/250B</b>  | 2.2                         | 3    | IE3 | 150 ÷ 700    | 18 ÷ 10.5   |
| <b>F4-50/250A</b>  | 2.2                         | 3    |     | 150 ÷ 700    | 20 ÷ 13     |
| <b>F4-50/250AR</b> | 3                           | 4    |     | 150 ÷ 700    | 23.5 ÷ 17   |

| TYPE                 | PUISSANCE (P <sub>2</sub> ) |      |     | PERFORMANCES |             |
|----------------------|-----------------------------|------|-----|--------------|-------------|
|                      | kW                          | HP   | ▲   | Q l/min      | H mètres    |
| <b>F4-65/125B</b>    | 0.75                        | 1    | IE2 | 300 ÷ 1100   | 4.7 ÷ 3     |
| <b>F4-65/125A</b>    | 1.1                         | 1.5  |     | 300 ÷ 1200   | 5.7 ÷ 4     |
| <b>F4-65/160C</b>    | 1.1                         | 1.5  | IE2 | 300 ÷ 1100   | 8 ÷ 5.5     |
| <b>F4-65/160B</b>    | 1.5                         | 2    |     | 300 ÷ 1200   | 9.1 ÷ 5.7   |
| <b>F4-65/160A</b>    | 2.2                         | 3    | IE3 | 300 ÷ 1200   | 10.1 ÷ 7    |
| <b>F4-65/200A</b>    | 2.2                         | 3    |     | 300 ÷ 1250   | 12 ÷ 8.5    |
| <b>F4-65/200AR</b>   | 3                           | 4    | IE3 | 300 ÷ 1300   | 14 ÷ 10     |
| <b>F4-65/250B</b>    | 4                           | 5.5  | IE3 | 200 ÷ 1250   | 21.8 ÷ 15.5 |
| <b>F4-65/250A</b>    | 5.5                         | 7.5  |     | 200 ÷ 1300   | 23.5 ÷ 17   |
| <b>F4-80/160D</b>    | 1.5                         | 2    | IE3 | 300 ÷ 2000   | 6.3 ÷ 2.5   |
| <b>F4-80/160C</b>    | 2.2                         | 3    |     | 300 ÷ 2000   | 7.5 ÷ 3.8   |
| <b>F4-80/160B</b>    | 2.2                         | 3    |     | 300 ÷ 2000   | 8.8 ÷ 5     |
| <b>F4-80/160A</b>    | 3                           | 4    |     | 300 ÷ 2000   | 10 ÷ 6.2    |
| <b>F4-80/200B</b>    | 4                           | 5.5  | IE3 | 300 ÷ 1800   | 14 ÷ 9      |
| <b>F4-80/200A</b>    | 5.5                         | 7.5  |     | 300 ÷ 1900   | 15.5 ÷ 10.5 |
| <b>F4-80/250B</b>    | 5.5                         | 7.5  | IE3 | 300 ÷ 1800   | 19.5 ÷ 13.5 |
| <b>F4-80/250A</b>    | 7.5                         | 10   |     | 300 ÷ 1950   | 22 ÷ 15     |
| <b>F4-100/160B-N</b> | 2.2                         | 3    | IE3 | 400 ÷ 2750   | 8.1 ÷ 2.7   |
| <b>F4-100/160A-N</b> | 3                           | 4    |     | 400 ÷ 3000   | 9.2 ÷ 3.2   |
| <b>F4-100/200C</b>   | 4                           | 5.5  | IE3 | 400 ÷ 2300   | 12.7 ÷ 7    |
| <b>F4-100/200B</b>   | 5.5                         | 7.5  |     | 400 ÷ 2400   | 14.2 ÷ 8.5  |
| <b>F4-100/200A</b>   | 5.5                         | 7.5  |     | 400 ÷ 2600   | 15.8 ÷ 9.5  |
| <b>F4-100/250B</b>   | 7.5                         | 10   | IE3 | 400 ÷ 2600   | 18.5 ÷ 11.5 |
| <b>F4-100/250A</b>   | 9.2                         | 12.5 |     | 400 ÷ 2900   | 22 ÷ 13.5   |

Q = Débit

H = Hauteur manométrique totale

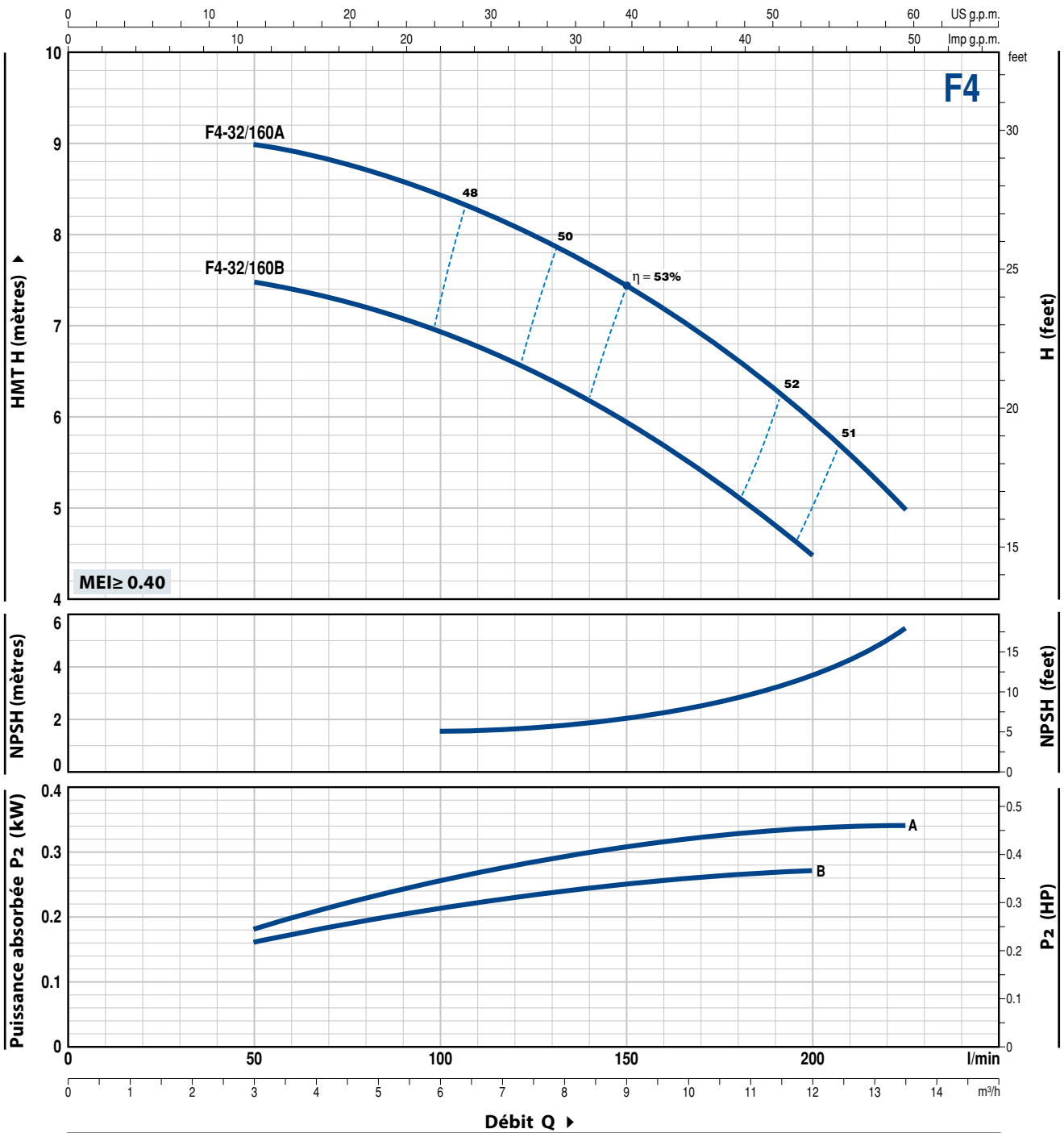
Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

▲ Classe de rendement du moteur triphasé (IEC 60034-30)

# F4-32/160

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



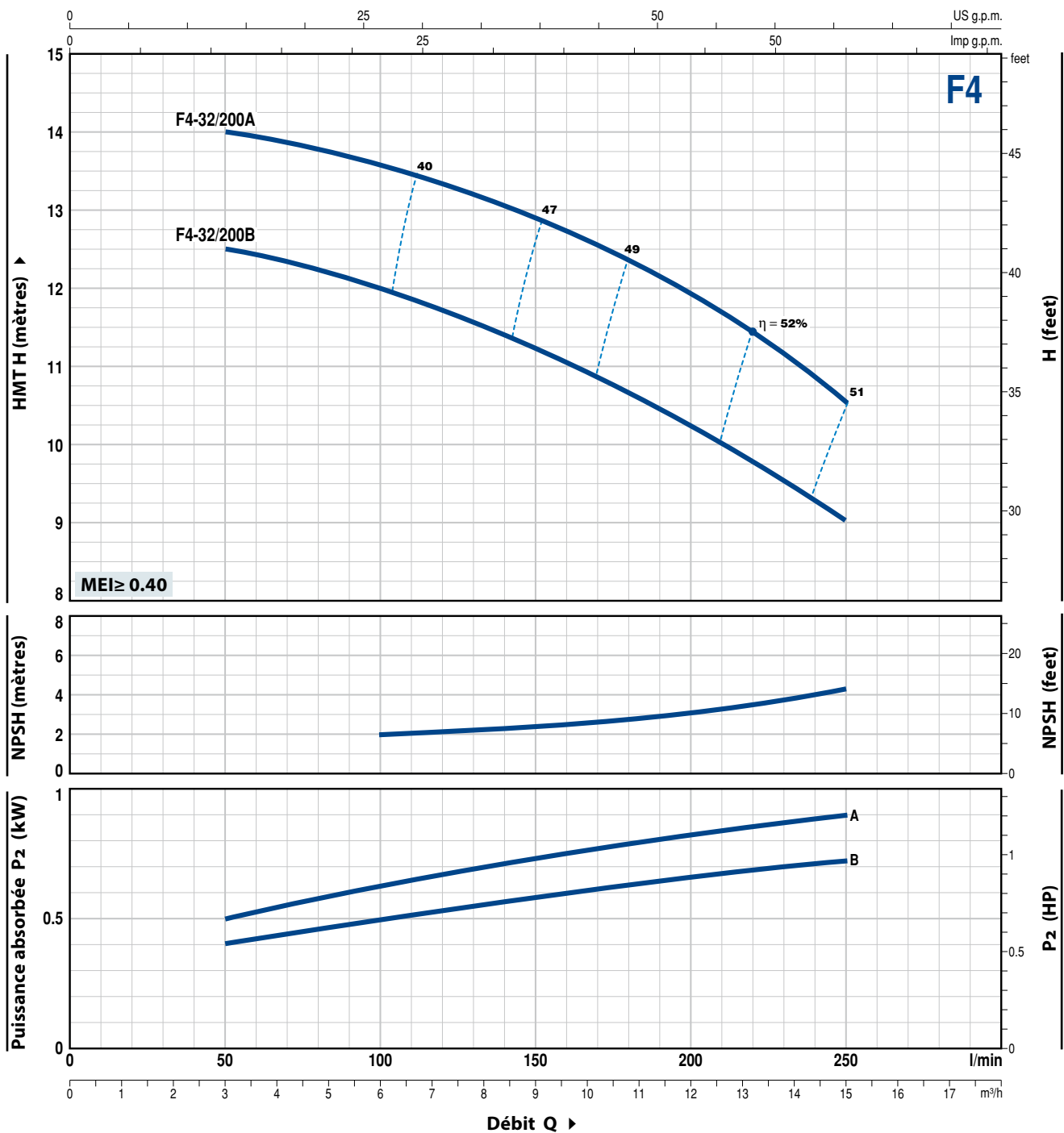
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | H    |     |     |     |     |     |      |     |      |
|------------|-----------------------------|-----|----------|------|-----|-----|-----|-----|-----|------|-----|------|
|            | kW                          | HP  |          | m³/h | 3   | 4.5 | 6   | 7.5 | 9   | 10.8 | 12  | 13.5 |
| Triphasé   |                             |     | l/min    | 50   | 75  | 100 | 125 | 150 | 180 | 200  | 225 |      |
| F4-32/160B | 0.37                        | 0.5 | H mètres | 7.5  | 7.3 | 6.9 | 6.5 | 6   | 5.1 | 4.5  |     |      |
| F4-32/160A | 0.37                        | 0.5 |          | 9    | 8.8 | 8.4 | 8   | 7.5 | 6.6 | 6    | 5   |      |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | H                 |       |        |      |      |
|------------|-----------------------------|-----|----------|-------------------|-------|--------|------|------|
|            | kW                          | HP  |          | m <sup>3</sup> /h | l/min | mètres | feet | feet |
| Triphasé   |                             |     |          | 3                 | 6     | 9      | 12   | 15   |
|            |                             |     |          | 50                | 100   | 150    | 200  | 250  |
| F4-32/200B | 0.75                        | 1   | H mètres | 12.5              | 12    | 11.2   | 10.3 | 9    |
| F4-32/200A | 1.1                         | 1.5 | H mètres | 14                | 13,6  | 12.8   | 11.9 | 10.5 |

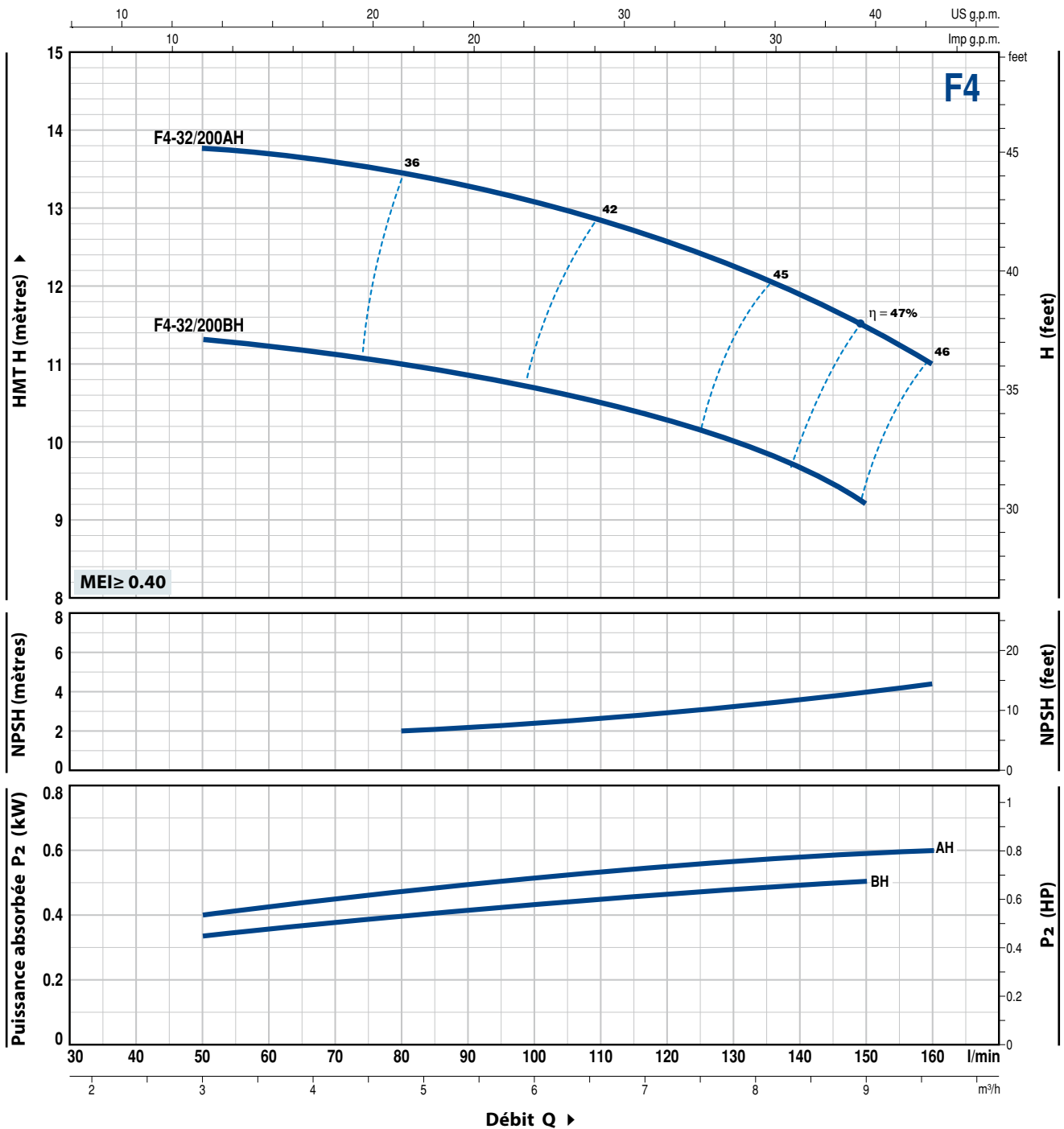
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-32/200H

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



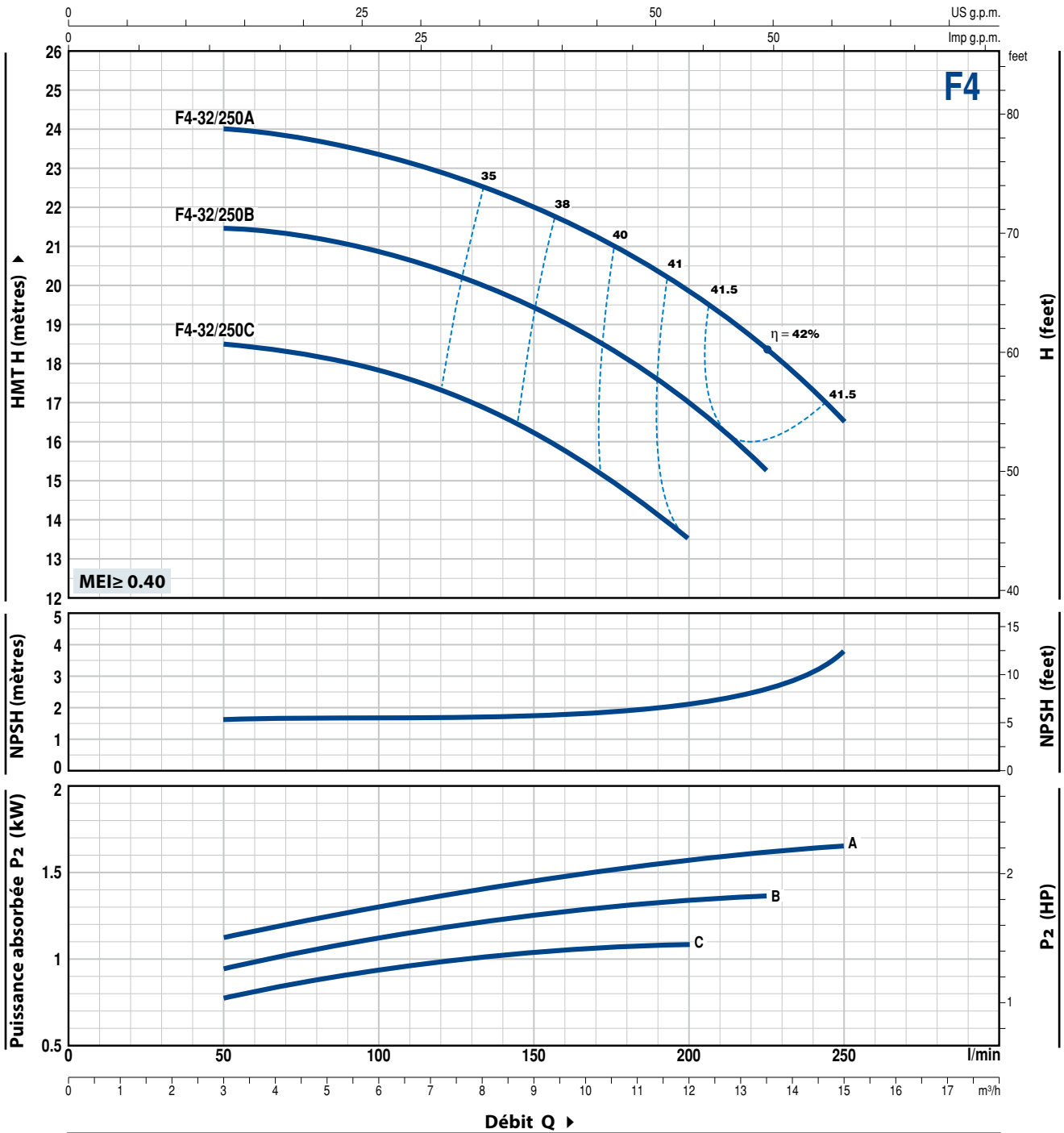
| TYPE        | PUISSANCE (P <sub>2</sub> ) |    | Q        | H                 |      |      |      |      |      |     |     |
|-------------|-----------------------------|----|----------|-------------------|------|------|------|------|------|-----|-----|
|             | kW                          | HP |          | m <sup>3</sup> /h | 3    | 4.2  | 5.4  | 6.6  | 7.8  | 9   | 9.6 |
| Triphasé    |                             |    | l/min    | 50                | 70   | 90   | 110  | 130  | 150  | 160 |     |
| F4-32/200BH | 0.75                        | 1  | H mètres | 11.3              | 11.1 | 10.8 | 10.5 | 10   | 9.2  |     |     |
| F4-32/200AH | 0.75                        | 1  |          | 13.8              | 13.6 | 13.3 | 12.8 | 12.2 | 11.5 | 11  |     |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | m <sup>3</sup> /h |      |      |      |      |      |      |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
|            | kW                          | HP  |          | 3                 | 4.5  | 6    | 7.5  | 9    | 10.5 | 12   | 13.5 | 15   |  |  |  |  |  |  |  |  |  |  |  |  |
| Triphasé   |                             |     | l/min    | 50                | 75   | 100  | 125  | 150  | 175  | 200  | 225  | 250  |  |  |  |  |  |  |  |  |  |  |  |  |
| F4-32/250C | 1.1                         | 1.5 | H mètres | 18.5              | 18.2 | 17.8 | 17.2 | 16.2 | 15   | 13.5 |      |      |  |  |  |  |  |  |  |  |  |  |  |  |
| F4-32/250B | 1.5                         | 2   |          | 21.5              | 21.2 | 20.8 | 20.2 | 19.5 | 18.2 | 17   | 15.5 |      |  |  |  |  |  |  |  |  |  |  |  |  |
| F4-32/250A | 2.2                         | 3   |          | 24                | 23.7 | 23.3 | 22.7 | 22   | 21   | 19.8 | 18.3 | 16.5 |  |  |  |  |  |  |  |  |  |  |  |  |

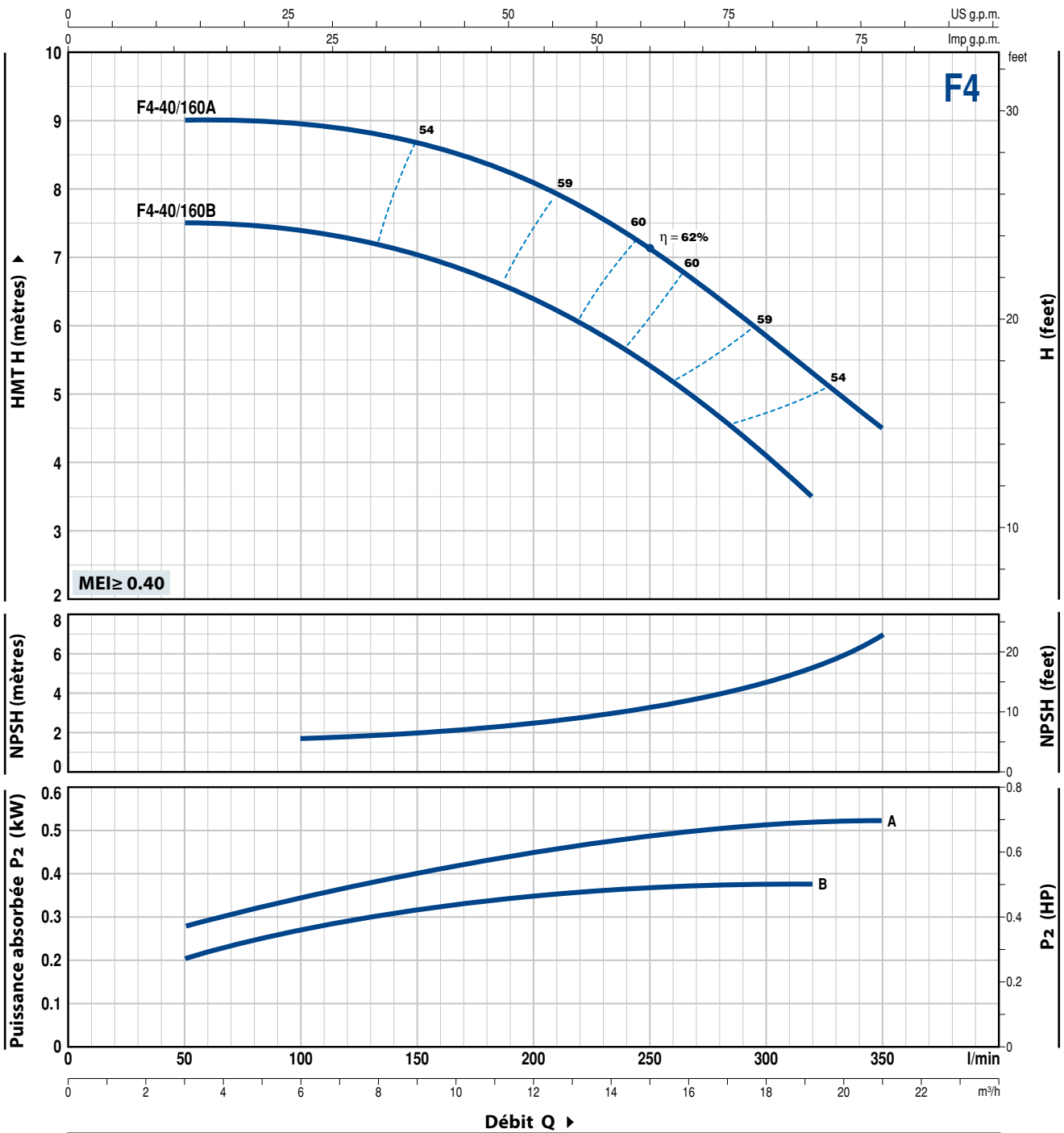
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-40/160

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



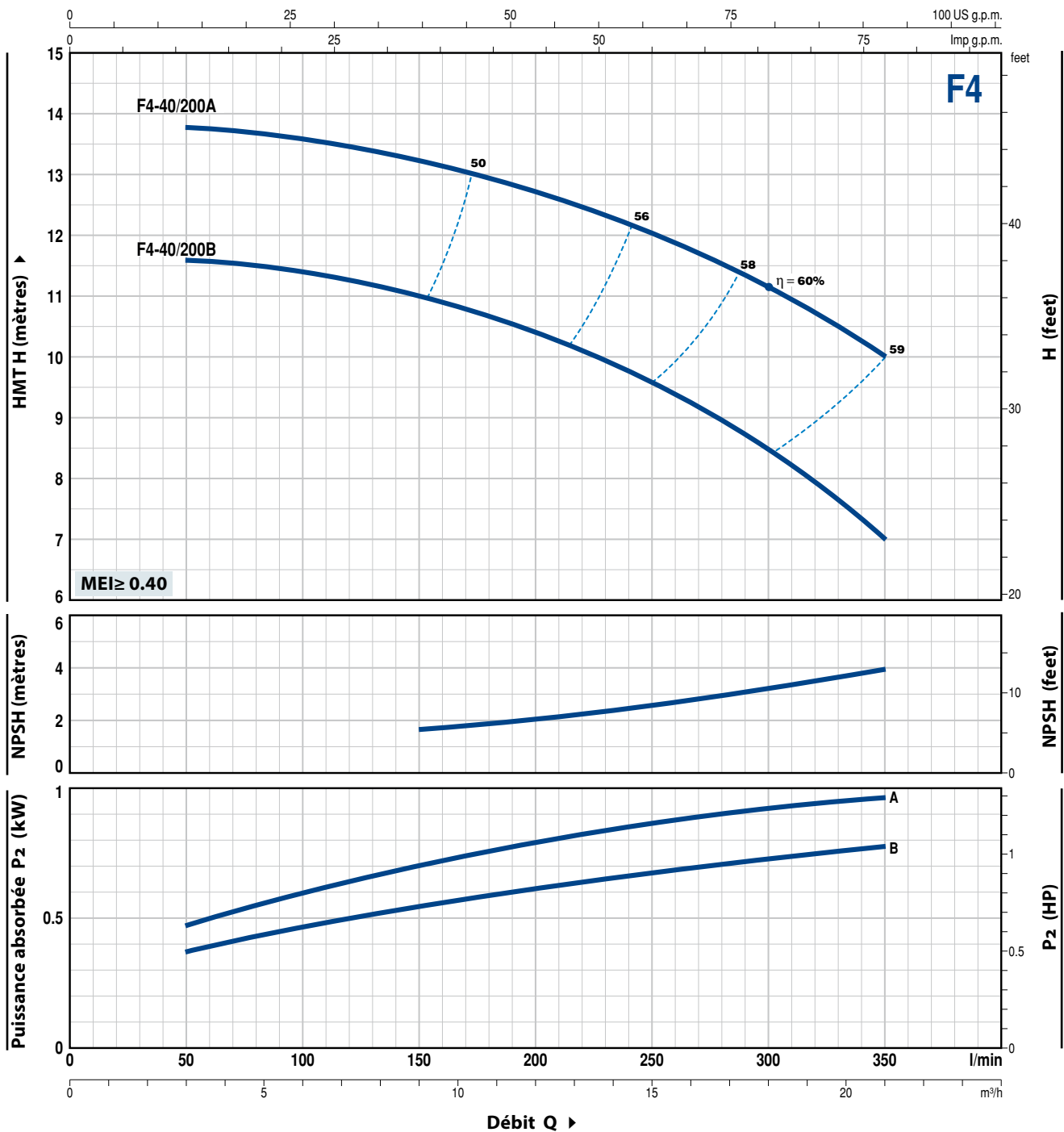
| TYPE       | PUISSANCE (P <sub>2</sub> ) |      | Q        | H                 |     |     |     |     |     |     |      |    |
|------------|-----------------------------|------|----------|-------------------|-----|-----|-----|-----|-----|-----|------|----|
|            | kW                          | HP   |          | m <sup>3</sup> /h | 3   | 6   | 9   | 12  | 15  | 18  | 19.2 | 21 |
| Triphasé   |                             |      | l/min    | 50                | 100 | 150 | 200 | 250 | 300 | 320 | 350  |    |
| F4-40/160B | 0.37                        | 0.5  | H mètres | 7.5               | 7.4 | 7   | 6.4 | 5.4 | 4.1 | 3.5 |      |    |
| F4-40/160A | 0.55                        | 0.75 |          | 9                 | 8.9 | 8.7 | 8.1 | 7.1 | 5.8 | 5.3 | 4.5  |    |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE              | PUISSANCE (P <sub>2</sub> ) |     | Q        | H                 |      |      |      |     |      |     |    |
|-------------------|-----------------------------|-----|----------|-------------------|------|------|------|-----|------|-----|----|
|                   | kW                          | HP  |          | m <sup>3</sup> /h | 3    | 6    | 9    | 12  | 15   | 18  | 21 |
| Triphasé          |                             |     | l/min    | 50                | 100  | 150  | 200  | 250 | 300  | 350 |    |
| <b>F4-40/200B</b> | 0.75                        | 1   | H mètres | 11.5              | 11.4 | 11   | 10.4 | 9.5 | 8.5  | 7   |    |
| <b>F4-40/200A</b> | 1.1                         | 1.5 |          | 13.8              | 13.6 | 13.2 | 12.7 | 12  | 11.1 | 10  |    |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

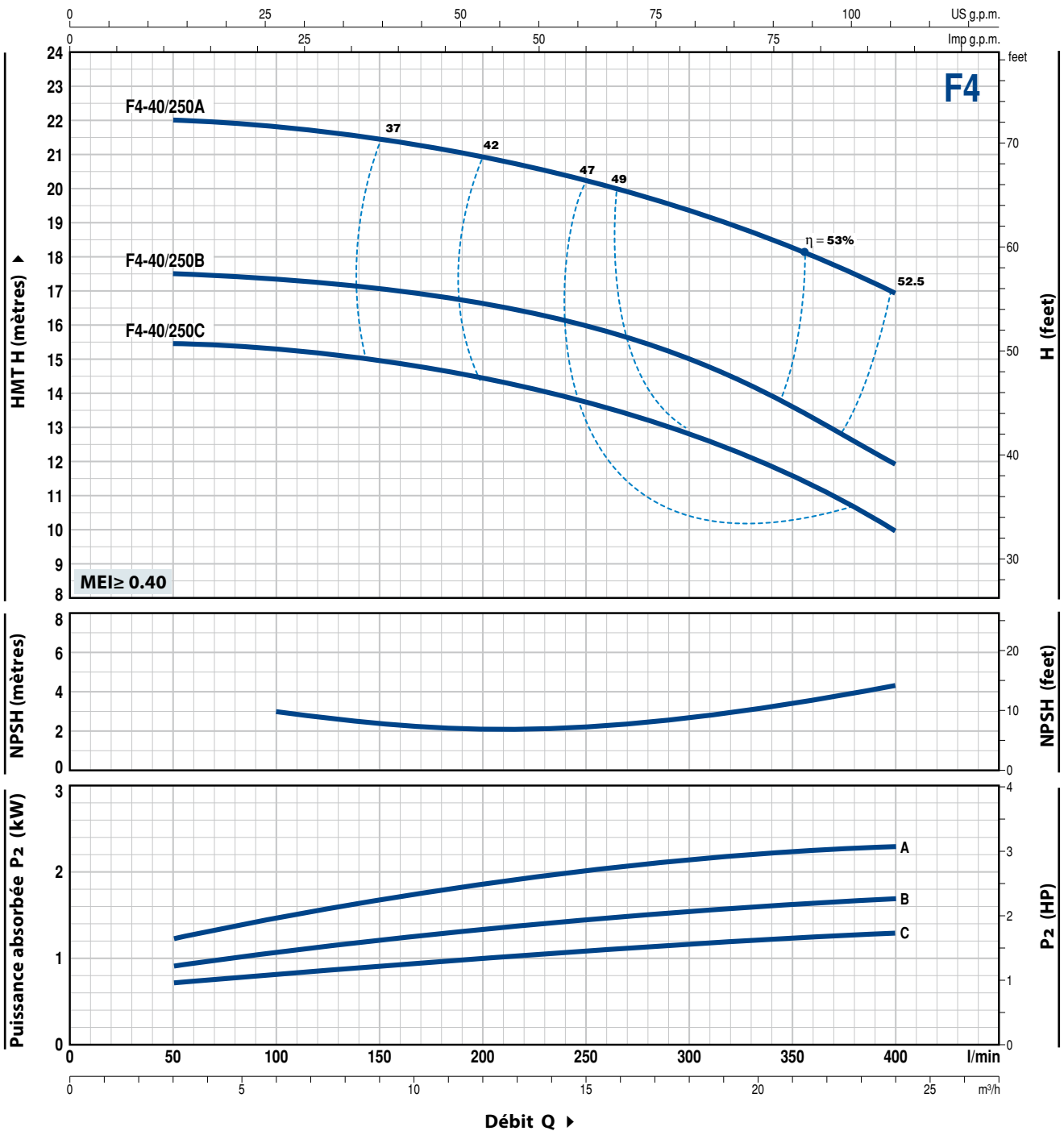
Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.



# F4-40/250

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



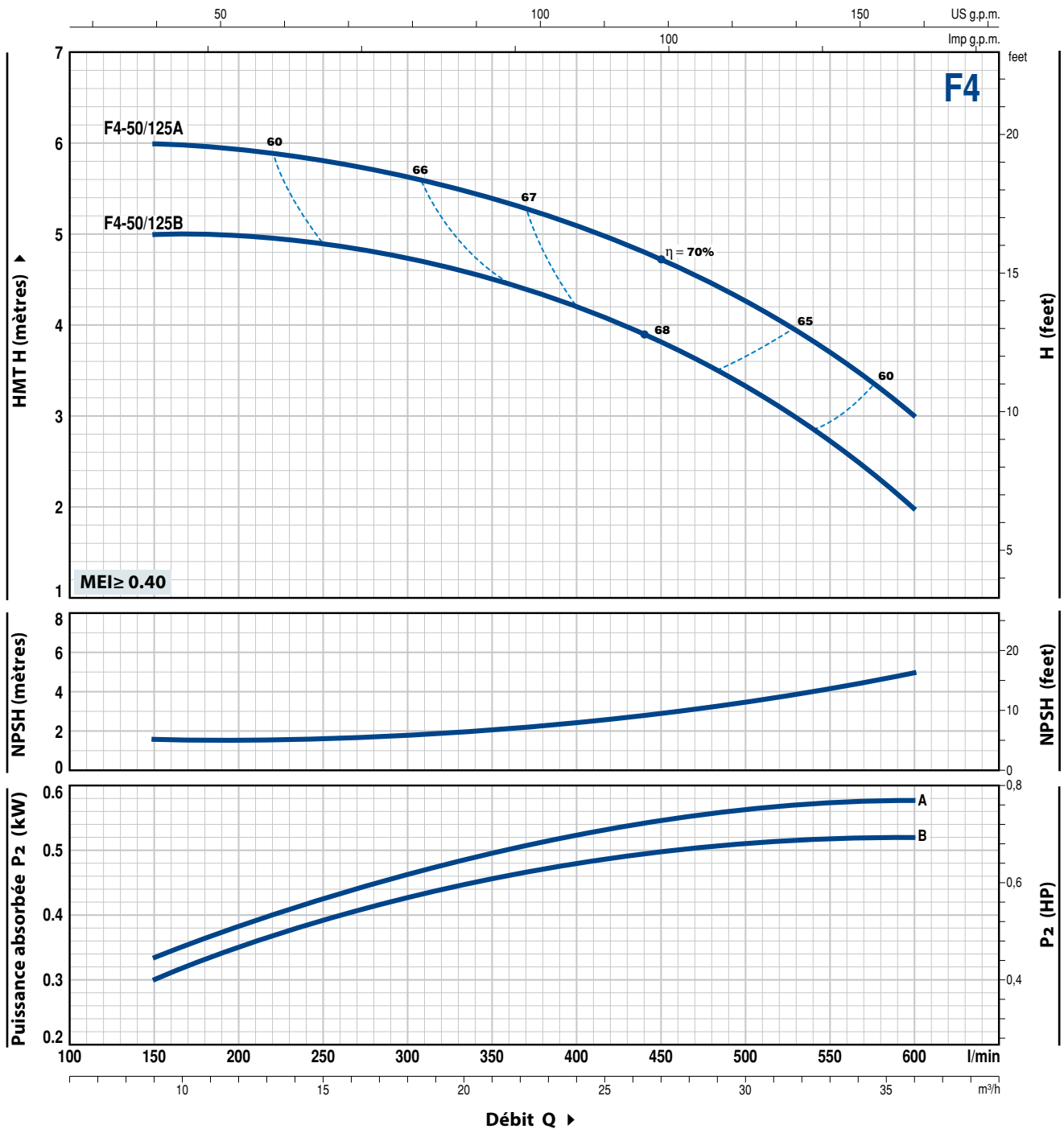
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | m <sup>3</sup> /h |      |      |      |      |      |      |     |  |  |  |
|------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|-----|--|--|--|
|            | kW                          | HP  |          | 3                 | 6    | 9    | 12   | 15   | 18   | 21   | 24  |  |  |  |
| Triphasé   |                             |     | l/min    | 50                | 100  | 150  | 200  | 250  | 300  | 350  | 400 |  |  |  |
| F4-40/250C | 1.1                         | 1.5 | H mètres | 15.5              | 15.2 | 15   | 14.5 | 13.6 | 12.9 | 11.5 | 10  |  |  |  |
| F4-40/250B | 1.5                         | 2   |          | 17.5              | 17.2 | 17   | 16.5 | 16   | 15   | 13.5 | 12  |  |  |  |
| F4-40/250A | 2.2                         | 3   |          | 22                | 21.9 | 21.5 | 21   | 20.2 | 19.2 | 18.2 | 17  |  |  |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |      | Q        | Flow Rate (Q)     |     |     |     |     |     |     |     |     |     |    |  |
|------------|-----------------------------|------|----------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|
|            | kW                          | HP   |          | m <sup>3</sup> /h | 9   | 12  | 15  | 17  | 21  | 24  | 27  | 30  | 33  | 36 |  |
| Triphasé   |                             |      | l/min    | 150               | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 |    |  |
| F4-50/125B | 0.55                        | 0.75 | H mètres | 5                 | 5   | 4.9 | 4.7 | 4.5 | 4.2 | 3.8 | 3.3 | 2.7 | 2   |    |  |
| F4-50/125A | 0.55                        | 0.75 |          | 6                 | 5.9 | 5.8 | 5.6 | 5.4 | 5.1 | 4.7 | 4.2 | 3.7 | 3   |    |  |

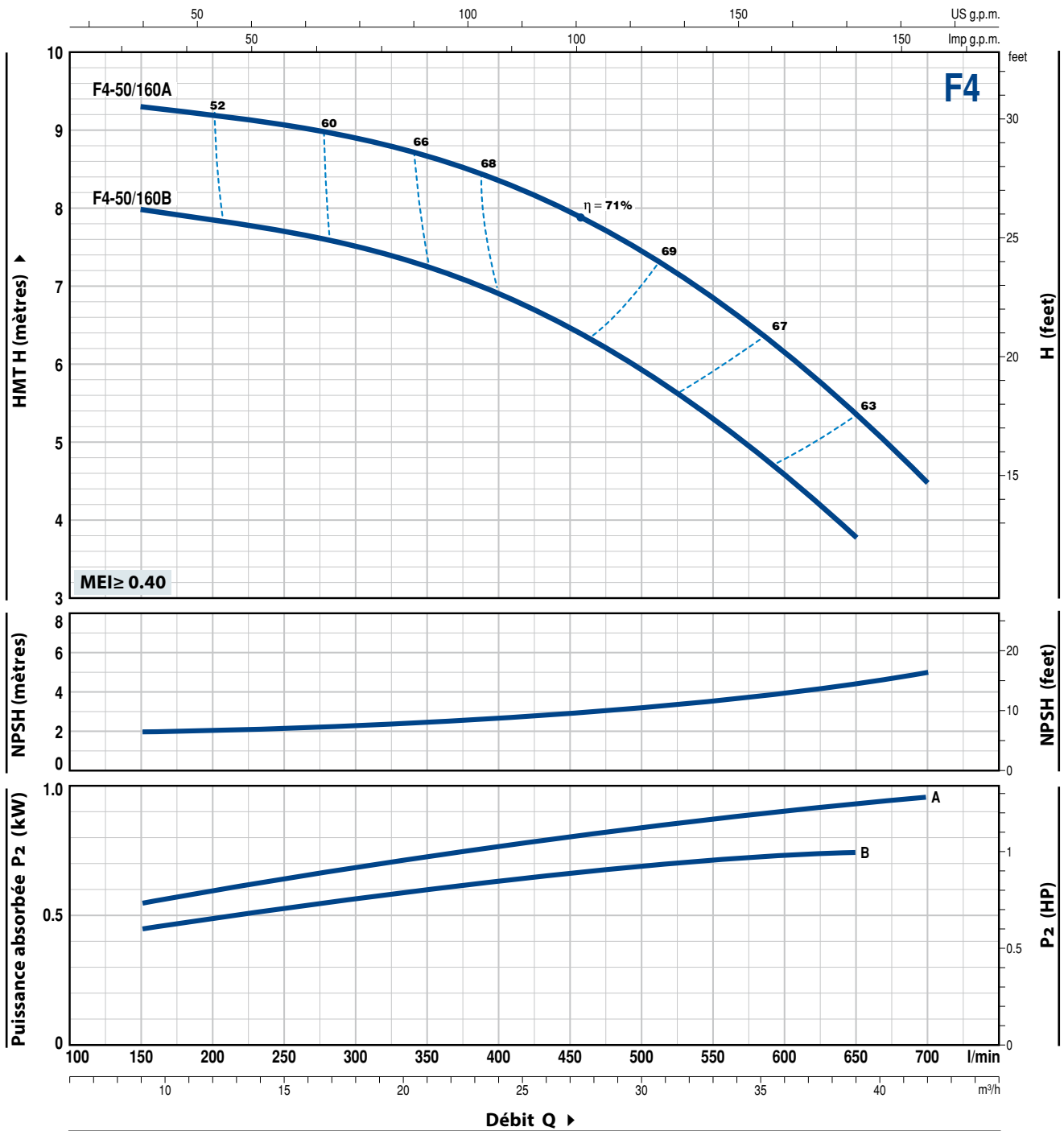
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-50/160

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



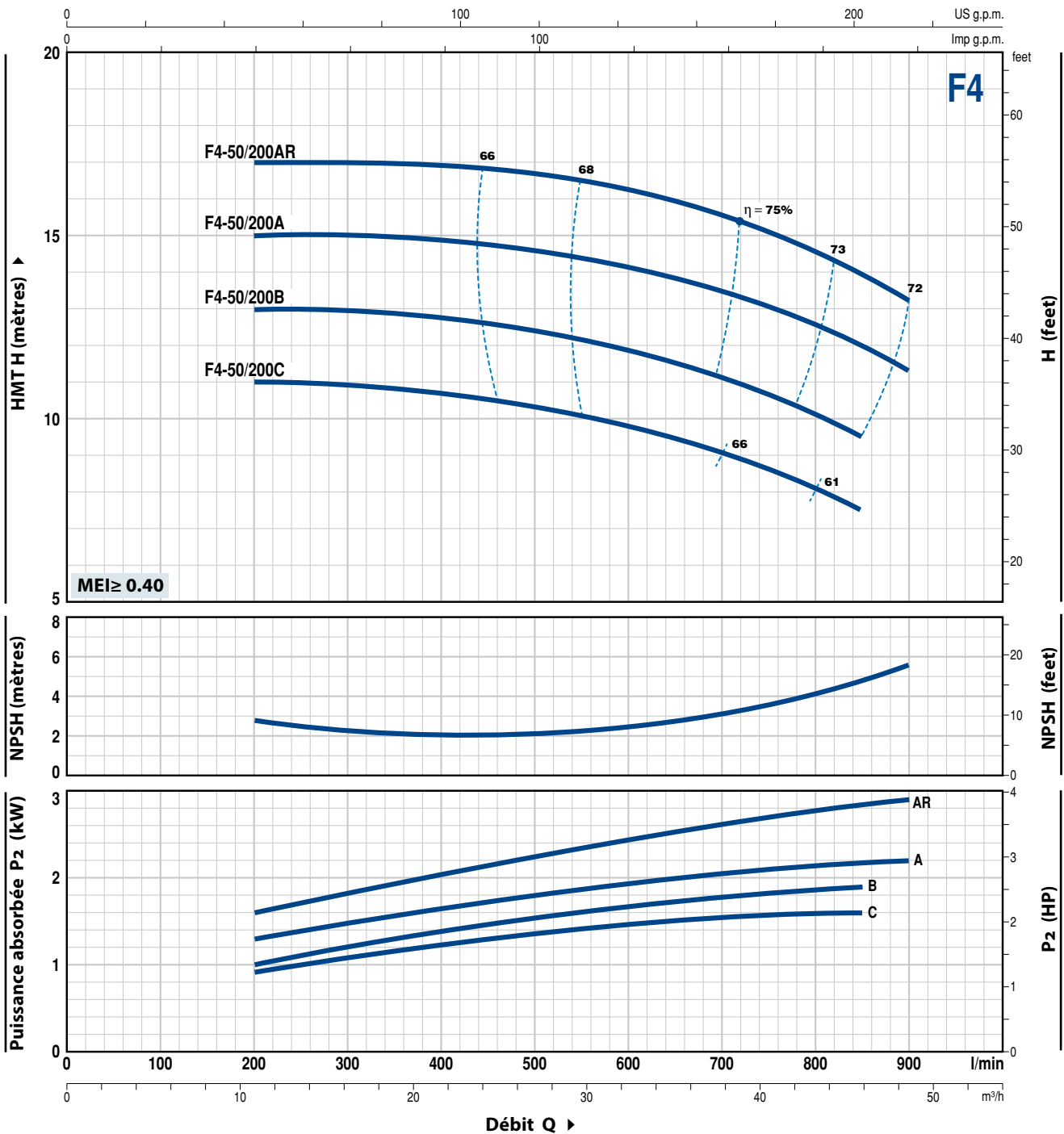
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | m <sup>3</sup> /h |     |     |     |     |     |     |     |     |     |     |     |  |  |
|------------|-----------------------------|-----|----------|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|            | kW                          | HP  |          | 9                 | 12  | 15  | 17  | 21  | 24  | 27  | 30  | 33  | 36  | 39  | 42  |  |  |
| Triphasé   |                             |     | l/min    | 150               | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 |  |  |
| F4-50/160B | 0.75                        | 1   | H mètres | 8                 | 7.8 | 7.7 | 7.5 | 7.2 | 6.9 | 6.5 | 5.9 | 5.3 | 4.6 | 3.8 |     |  |  |
| F4-50/160A | 1.1                         | 1.5 | H mètres | 9.3               | 9.2 | 9.1 | 8.9 | 8.7 | 8.4 | 8   | 7.4 | 6.8 | 6.2 | 5.4 | 4.5 |  |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE        | PUISSANCE (P <sub>2</sub> ) |    | Q        | H                 |     |      |      |      |      |      |     |      |    |  |  |
|-------------|-----------------------------|----|----------|-------------------|-----|------|------|------|------|------|-----|------|----|--|--|
|             | kW                          | HP |          | m <sup>3</sup> /h | 12  | 17   | 24   | 30   | 36   | 42   | 48  | 51   | 54 |  |  |
| Triphasé    |                             |    | l/min    | 200               | 300 | 400  | 500  | 600  | 700  | 800  | 850 | 900  |    |  |  |
| F4-50/200C  | 1.5                         | 2  | H mètres | 11                | 11  | 10.8 | 10.3 | 9.8  | 9    | 8    | 7.5 |      |    |  |  |
| F4-50/200B  | 2.2                         | 3  |          | 13                | 13  | 12.8 | 12.4 | 11.9 | 11.1 | 10.1 | 9.5 |      |    |  |  |
| F4-50/200A  | 2.2                         | 3  |          | 15                | 15  | 14.9 | 14.6 | 14.1 | 13.5 | 12.5 | 12  | 11.2 |    |  |  |
| F4-50/200AR | 3                           | 4  |          | 17                | 17  | 16.9 | 16.7 | 16.2 | 15.5 | 14.5 | 14  | 13.2 |    |  |  |

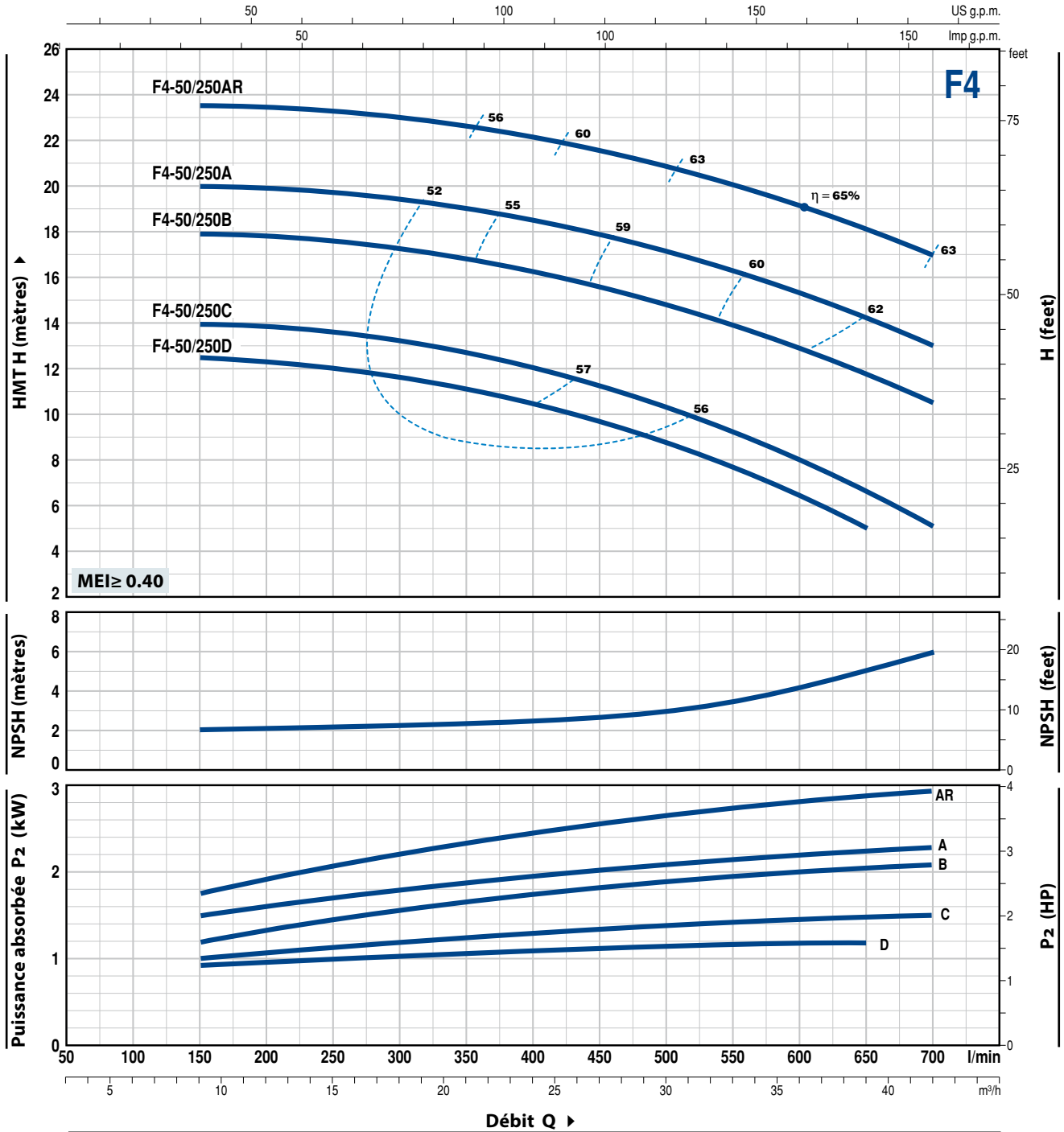
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-50/250

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



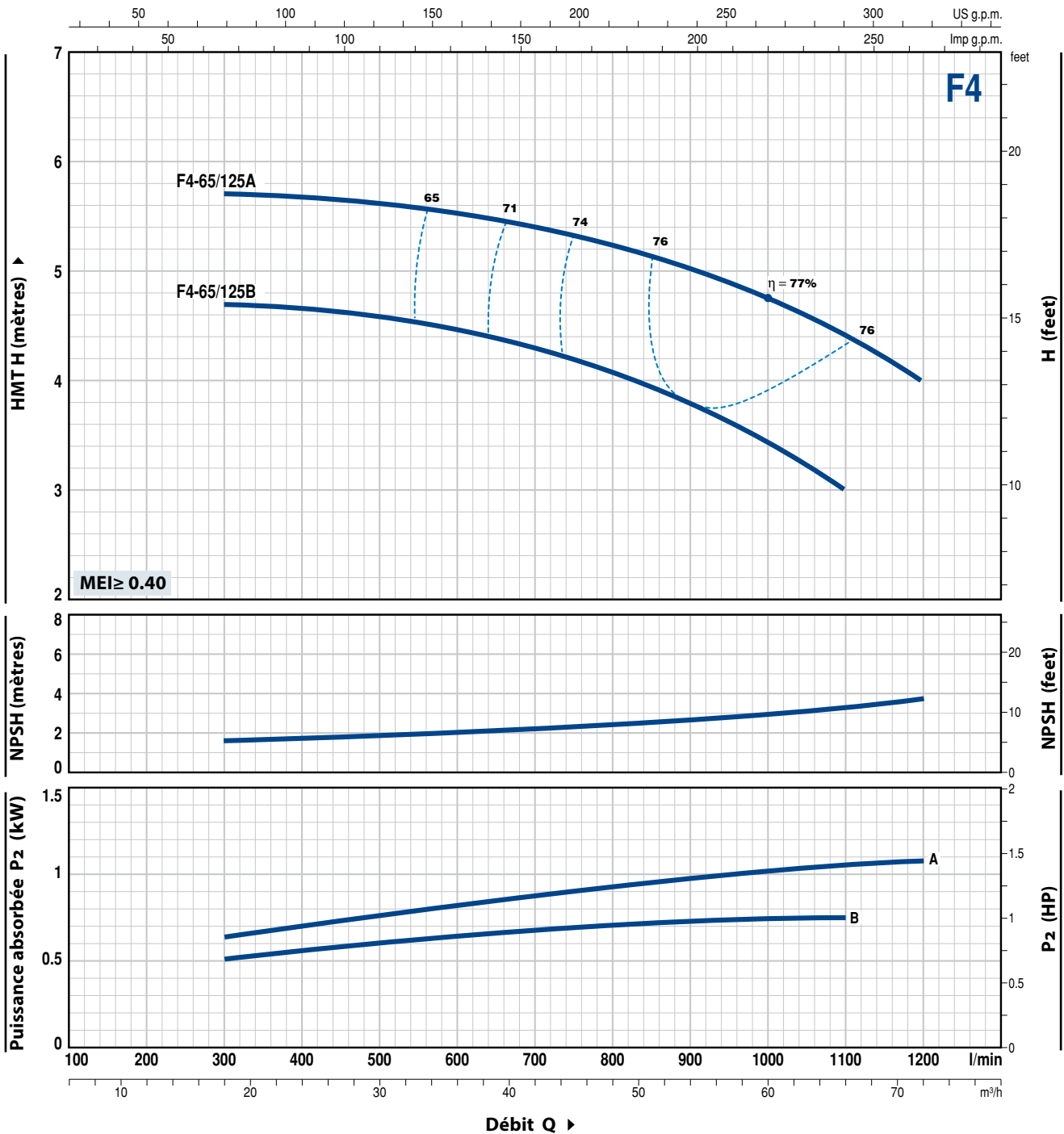
| TYPE        | PUISSANCE (P <sub>2</sub> ) |     | Q        | Débit             |      |      |      |      |      |      |      |      |      |      |      |    |  |
|-------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|----|--|
|             | kW                          | HP  |          | m <sup>3</sup> /h | 9    | 12   | 15   | 18   | 21   | 24   | 27   | 30   | 33   | 36   | 39   | 42 |  |
| Triphasé    |                             |     | l/min    | 150               | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 550  | 600  | 650  | 700  |    |  |
| F4-50/250D  | 1.1                         | 1.5 | H mètres | 12.5              | 12.3 | 12   | 11.5 | 11.1 | 10.5 | 9.8  | 8.8  | 7.8  | 6.5  | 5    |      |    |  |
| F4-50/250C  | 1.5                         | 2   |          | 14                | 13.9 | 13.6 | 13.2 | 12.8 | 12   | 11.2 | 10.2 | 9.2  | 8    | 6.6  | 5    |    |  |
| F4-50/250B  | 2.2                         | 3   |          | 18                | 17.9 | 17.6 | 17.2 | 16.8 | 16.2 | 15.5 | 14.8 | 14   | 13   | 11.8 | 10.5 |    |  |
| F4-50/250A  | 2.2                         | 3   |          | 20                | 19.9 | 19.7 | 19.5 | 19   | 18.5 | 18   | 17.2 | 16.2 | 15.3 | 14.2 | 13   |    |  |
| F4-50/250AR | 3                           | 4   |          | 23.5              | 23.4 | 23.2 | 23   | 22.6 | 22.1 | 21.6 | 21   | 20   | 19   | 18   | 17   |    |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | Flow Rate (m³/h) |     |     |     |     |     |     |      |      |      |  |  |  |
|------------|-----------------------------|-----|----------|------------------|-----|-----|-----|-----|-----|-----|------|------|------|--|--|--|
|            | kW                          | HP  |          | 18               | 24  | 30  | 36  | 42  | 48  | 54  | 60   | 66   | 72   |  |  |  |
| Triphasé   |                             |     | l/min    | 300              | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |  |  |  |
| F4-65/125B | 0.75                        | 1   | H mètres | 4.7              | 4.7 | 4.6 | 4.5 | 4.3 | 4.1 | 3.8 | 3.4  | 3    |      |  |  |  |
| F4-65/125A | 1.1                         | 1.5 |          | 5.7              | 5.7 | 5.6 | 5.5 | 5.4 | 5.2 | 5   | 4.7  | 4.4  | 4    |  |  |  |

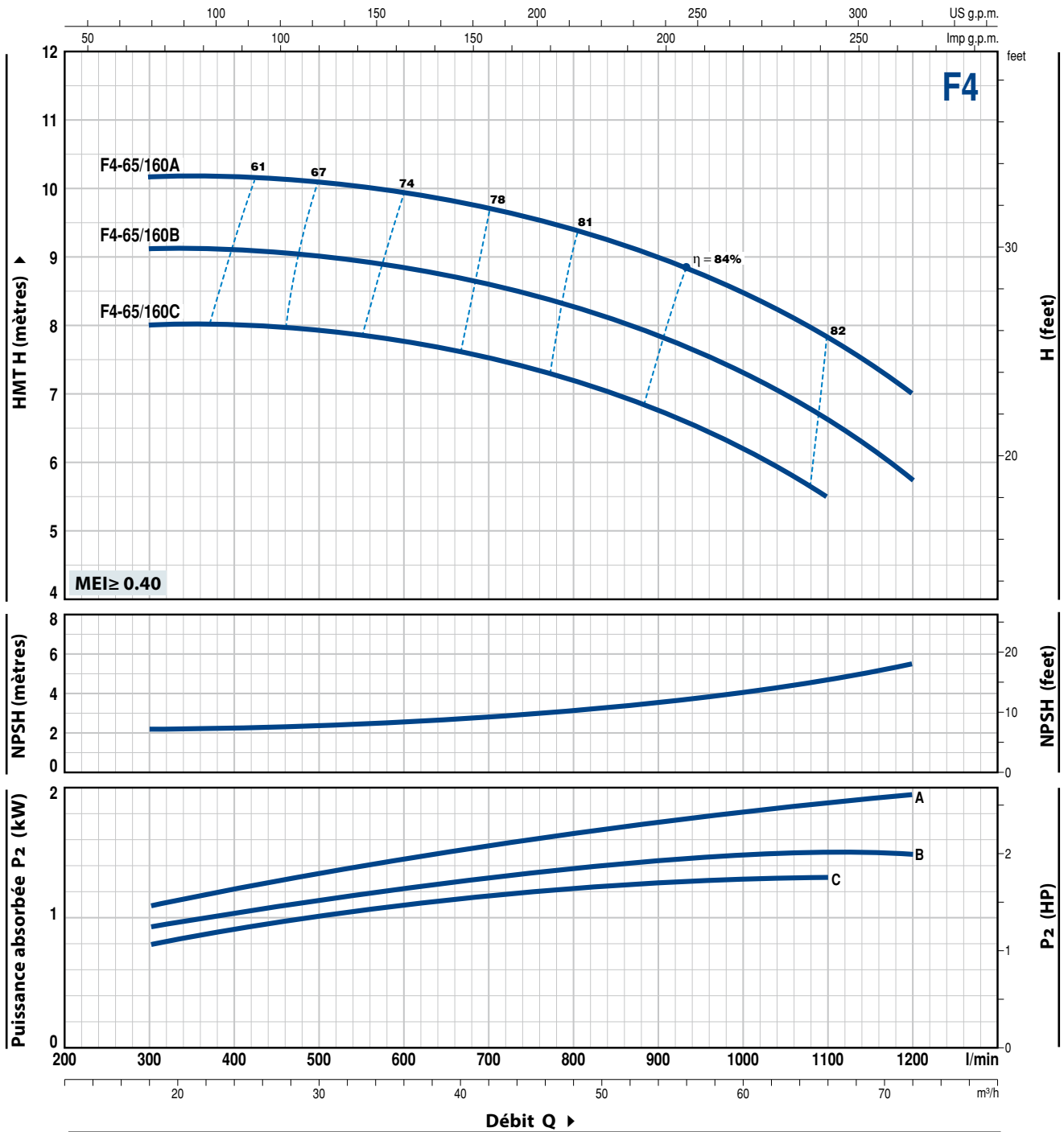
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-65/160

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



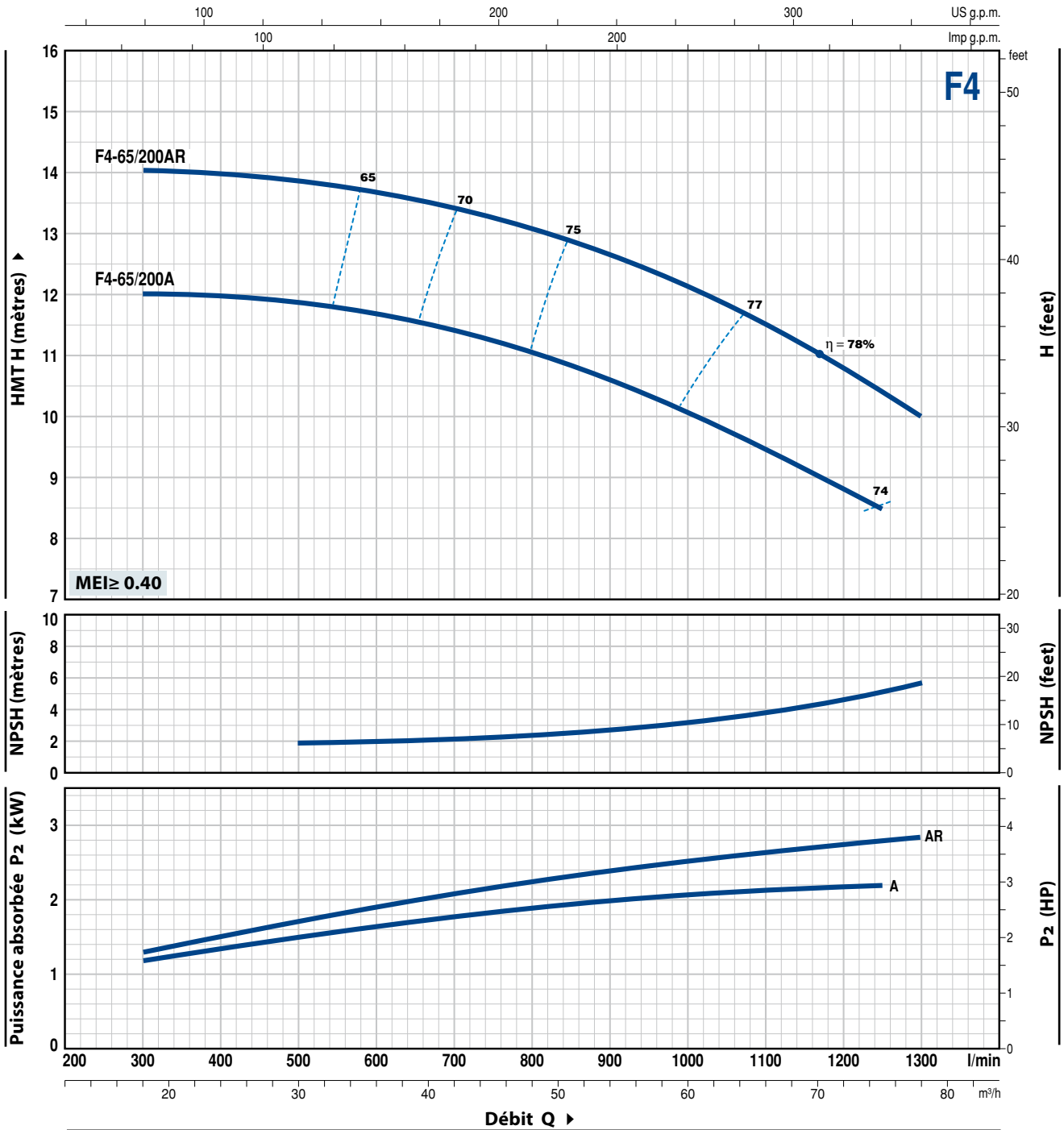
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | m <sup>3</sup> /h |      |      |     |     |     |     |      |      |      |  |  |  |
|------------|-----------------------------|-----|----------|-------------------|------|------|-----|-----|-----|-----|------|------|------|--|--|--|
|            | kW                          | HP  |          | 18                | 24   | 30   | 36  | 42  | 48  | 54  | 60   | 66   | 72   |  |  |  |
| Triphasé   |                             |     | l/min    | 300               | 400  | 500  | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 |  |  |  |
| F4-65/160C | 1.1                         | 1.5 | H mètres | 8                 | 8    | 7.9  | 7.7 | 7.5 | 7.2 | 6.7 | 6.2  | 5.5  |      |  |  |  |
| F4-65/160B | 1.5                         | 2   |          | 9.1               | 9.1  | 9    | 8.8 | 8.6 | 8.3 | 7.8 | 7.3  | 6.6  | 5.7  |  |  |  |
| F4-65/160A | 2.2                         | 3   |          | 10.1              | 10.1 | 10.1 | 9.9 | 9.7 | 9.4 | 9   | 8.5  | 7.8  | 7    |  |  |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE        | PUISSANCE (P <sub>2</sub> ) |    | Q        | Flow Rate (m³/h) |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
|-------------|-----------------------------|----|----------|------------------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
|             | kW                          | HP |          | 18               | 24   | 30   | 36   | 42   | 48   | 54   | 60   | 66   | 72   | 75   | 78   |  |  |  |
| Triphasé    |                             |    | l/min    | 300              | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1250 | 1300 |  |  |  |
| F4-65/200A  | 2.2                         | 3  | H mètres | 12               | 12   | 11.9 | 11.6 | 11.4 | 11   | 10.6 | 10.1 | 9.5  | 8.8  | 8.5  |      |  |  |  |
| F4-65/200AR | 3                           | 4  | H mètres | 14               | 13.9 | 13.8 | 13.6 | 13.4 | 13.1 | 12.7 | 12.1 | 11.5 | 10.8 | 10.3 | 10   |  |  |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

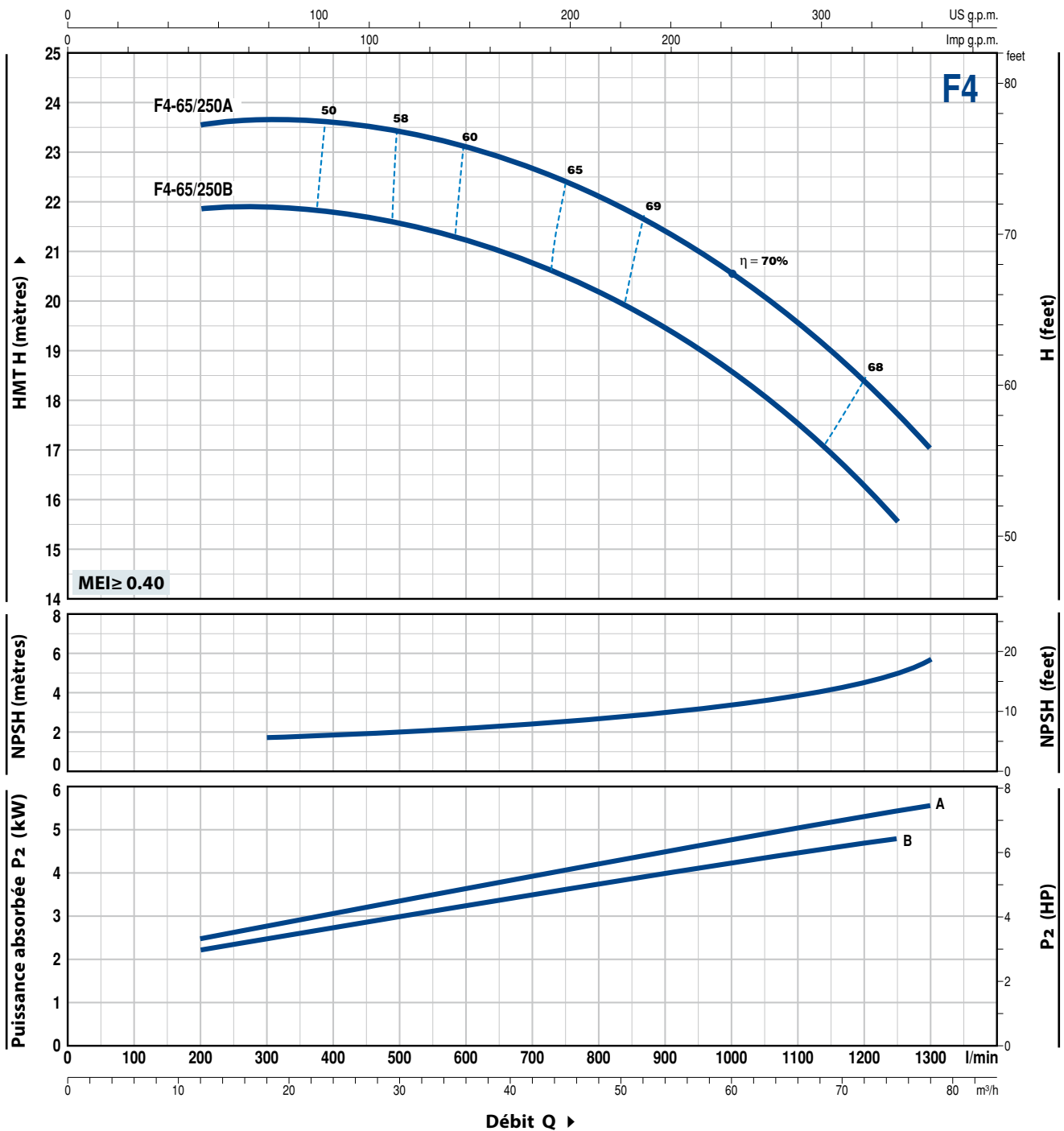
Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.



# F4-65/250

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



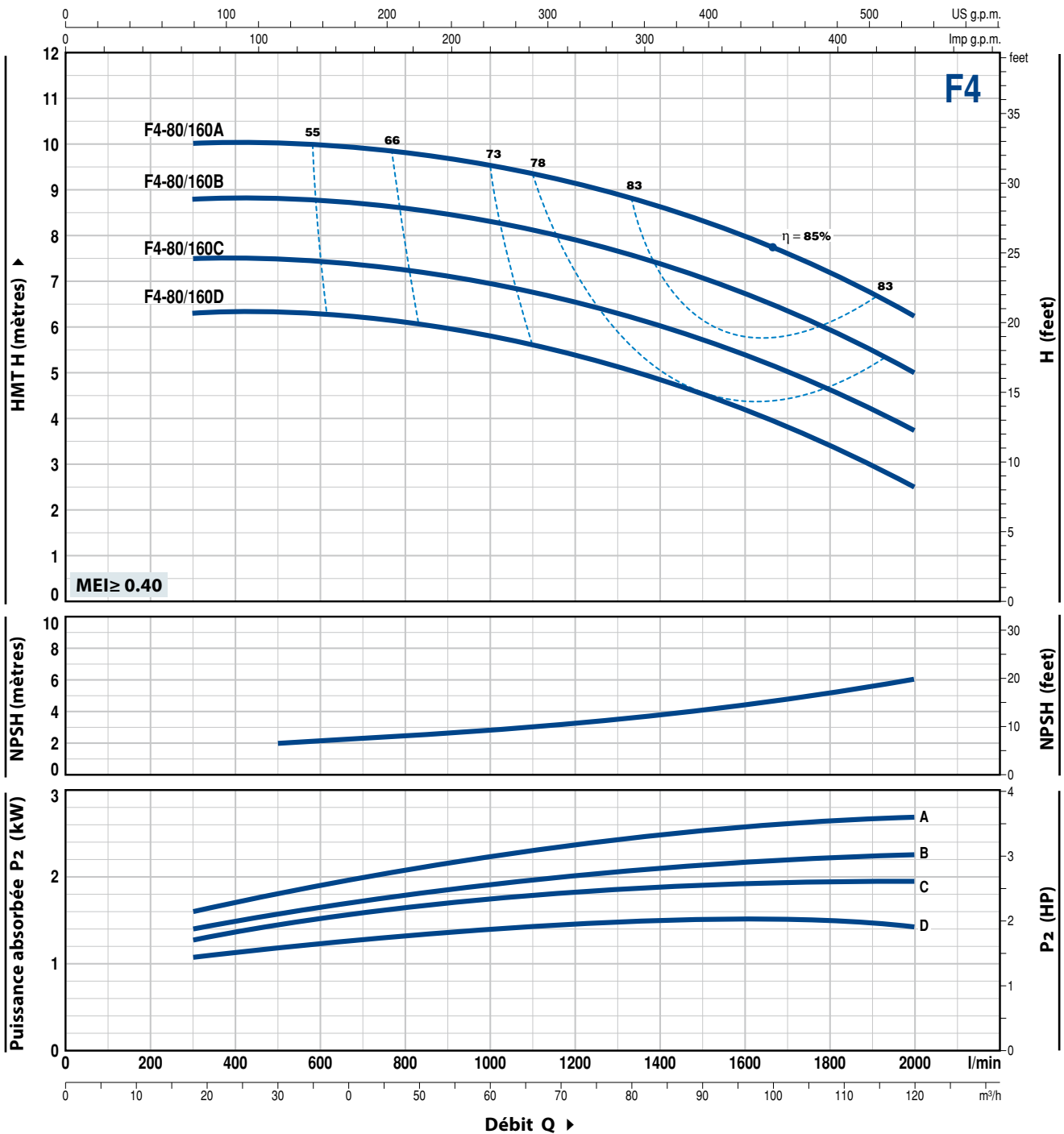
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | H                 |      |      |      |      |      |      |      |      |      |      |      |      |    |
|------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|            | kW                          | HP  |          | m <sup>3</sup> /h | 12   | 18   | 24   | 30   | 36   | 42   | 48   | 54   | 60   | 66   | 72   | 75   | 78 |
| Triphasé   |                             |     | l/min    | 200               | 300  | 400  | 500  | 600  | 700  | 800  | 900  | 1000 | 1100 | 1200 | 1250 | 1300 |    |
| F4-65/250B | 4                           | 5.5 | H mètres | 21.8              | 21.8 | 21.7 | 21.5 | 21.2 | 20.7 | 20.2 | 19.5 | 18.6 | 17.5 | 16.2 | 15.5 |      |    |
| F4-65/250A | 5.5                         | 7.5 |          | 23.5              | 23.5 | 23.5 | 23.4 | 23.1 | 22.6 | 22.1 | 21.5 | 20.5 | 19.6 | 18.5 | 17.8 | 17   |    |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |    | Q        | H    |     |     |     |      |      |      |      |      |      |     |  |
|------------|-----------------------------|----|----------|------|-----|-----|-----|------|------|------|------|------|------|-----|--|
|            | kW                          | HP |          | m³/h | 18  | 24  | 36  | 48   | 60   | 72   | 84   | 96   | 108  | 120 |  |
| Triphasé   |                             |    | l/min    | 300  | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 |     |  |
| F4-80/160D | 1.5                         | 2  | H mètres | 6.3  | 6.3 | 6.3 | 6.1 | 5.8  | 5.4  | 4.8  | 4.2  | 3.4  | 2.5  |     |  |
| F4-80/160C | 2.2                         | 3  |          | 7.5  | 7.5 | 7.4 | 7.3 | 6.9  | 6.5  | 6    | 5.4  | 4.6  | 3.8  |     |  |
| F4-80/160B | 2.2                         | 3  |          | 8.8  | 8.8 | 8.8 | 8.6 | 8.3  | 7.9  | 7.4  | 6.7  | 5.9  | 5    |     |  |
| F4-80/160A | 3                           | 4  |          | 10   | 10  | 10  | 9.8 | 9.5  | 9.1  | 8.6  | 8    | 7.2  | 6.2  |     |  |

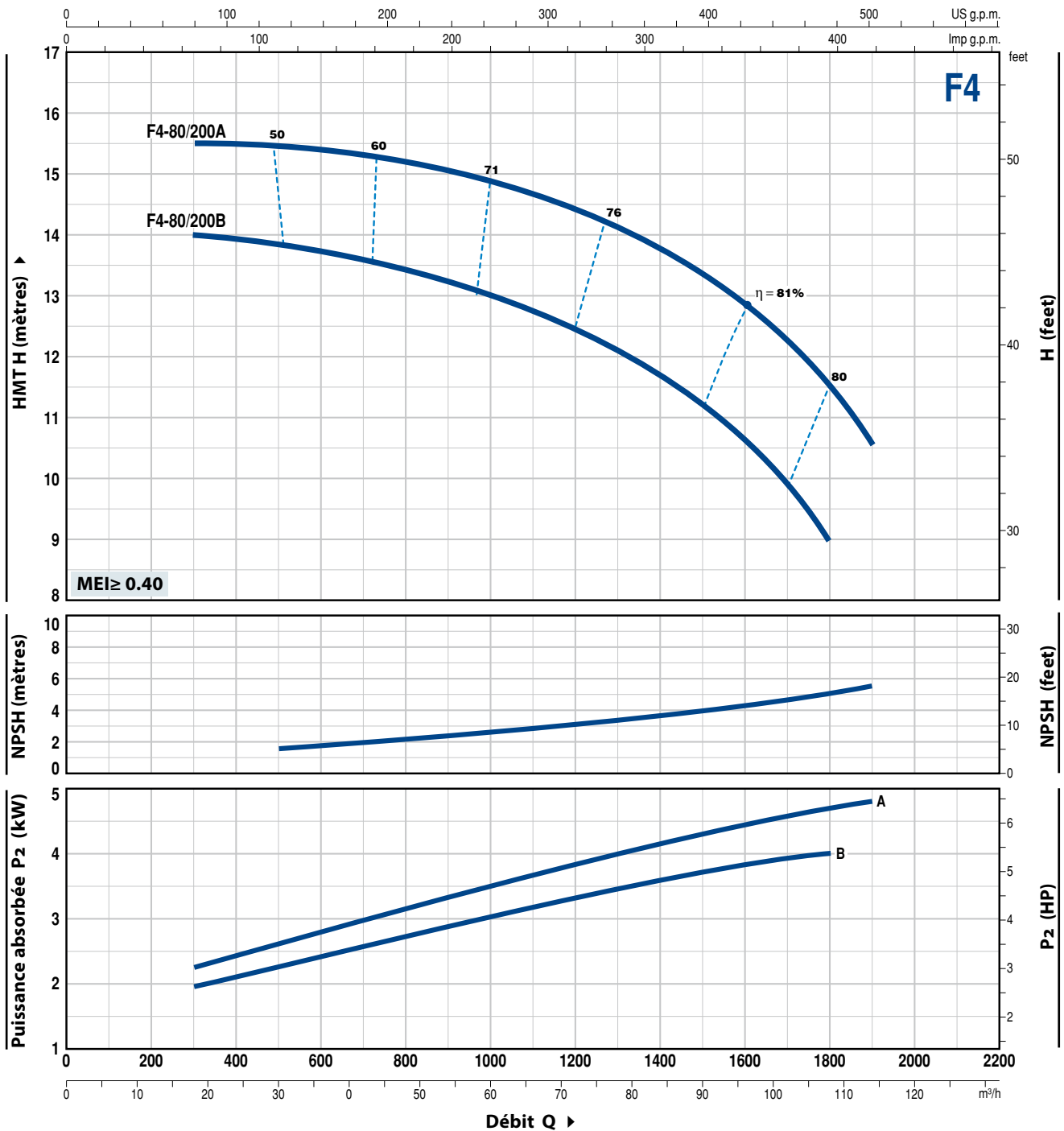
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-80/200

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



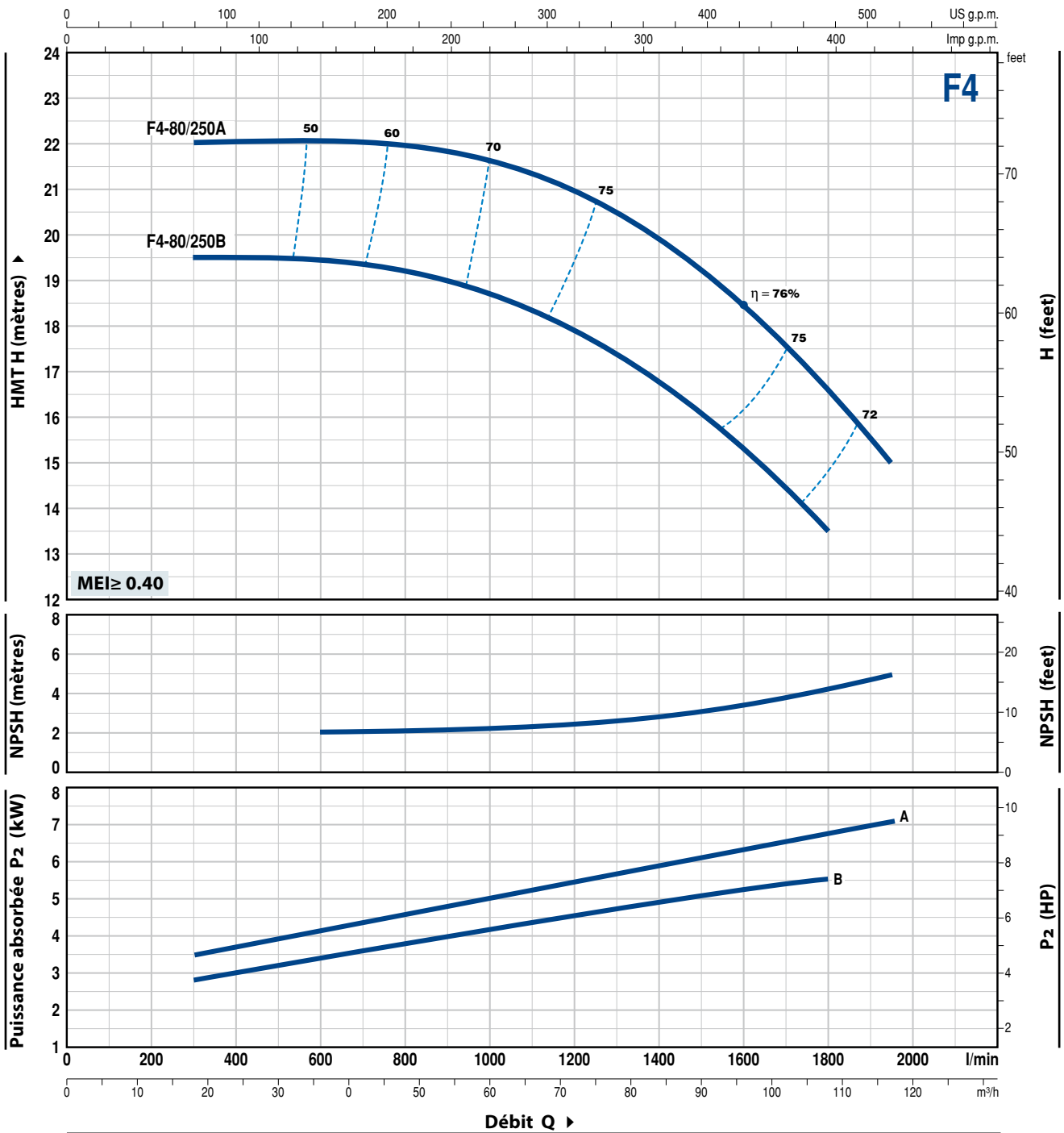
| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | Débit (m³/h) |      |      |      |      |      |      |      |      |      |  |  |
|------------|-----------------------------|-----|----------|--------------|------|------|------|------|------|------|------|------|------|--|--|
|            | kW                          | HP  |          | 18           | 24   | 36   | 48   | 60   | 72   | 84   | 96   | 108  | 114  |  |  |
| Triphasé   |                             |     | l/min    | 300          | 400  | 600  | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 1900 |  |  |
| F4-80/200B | 4                           | 5.5 | H mètres | 14           | 13.9 | 13.7 | 13.4 | 13   | 12.5 | 11.7 | 10.6 | 9    |      |  |  |
| F4-80/200A | 5.5                         | 7.5 |          | 15.5         | 15.5 | 15.4 | 15.2 | 14.8 | 14.5 | 13.7 | 12.8 | 11.5 | 10.5 |  |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE       | PUISSANCE (P <sub>2</sub> ) |     | Q        | Flow Rate (Q)     |      |      |      |      |      |      |      |      |      |     |  |
|------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|------|------|------|-----|--|
|            | kW                          | HP  |          | m <sup>3</sup> /h | 18   | 24   | 36   | 48   | 60   | 72   | 84   | 96   | 108  | 117 |  |
| Triphasé   |                             |     | l/min    | 300               | 400  | 600  | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 1950 |     |  |
| F4-80/250B | 5.5                         | 7.5 | H mètres | 19.5              | 19.5 | 19.5 | 19.2 | 18.7 | 17.9 | 16.7 | 15.3 | 13.5 |      |     |  |
| F4-80/250A | 7.5                         | 10  |          | 22                | 22   | 22   | 21.9 | 21.6 | 21   | 20   | 18.5 | 16.5 | 15   |     |  |

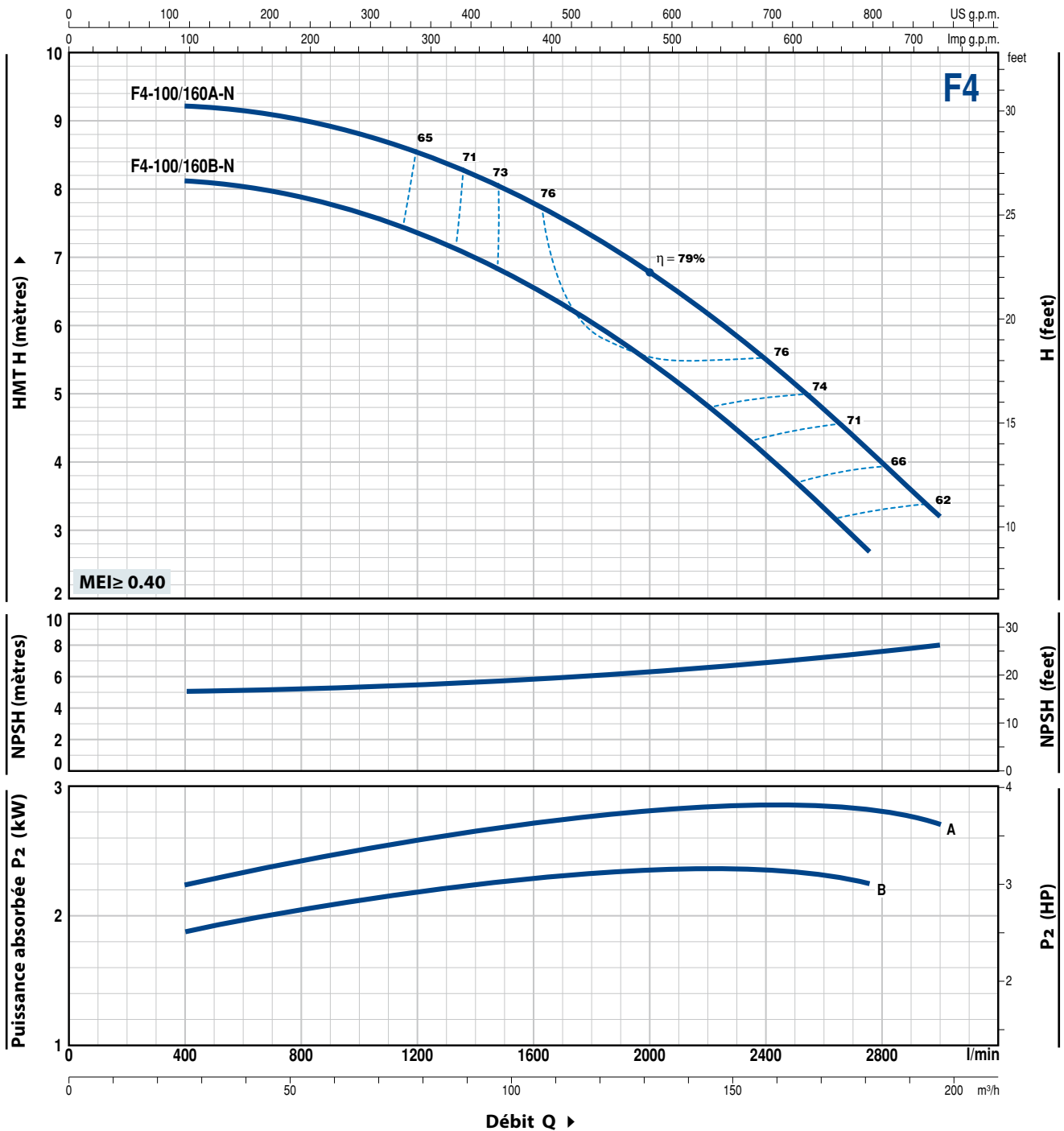
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-100/160

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



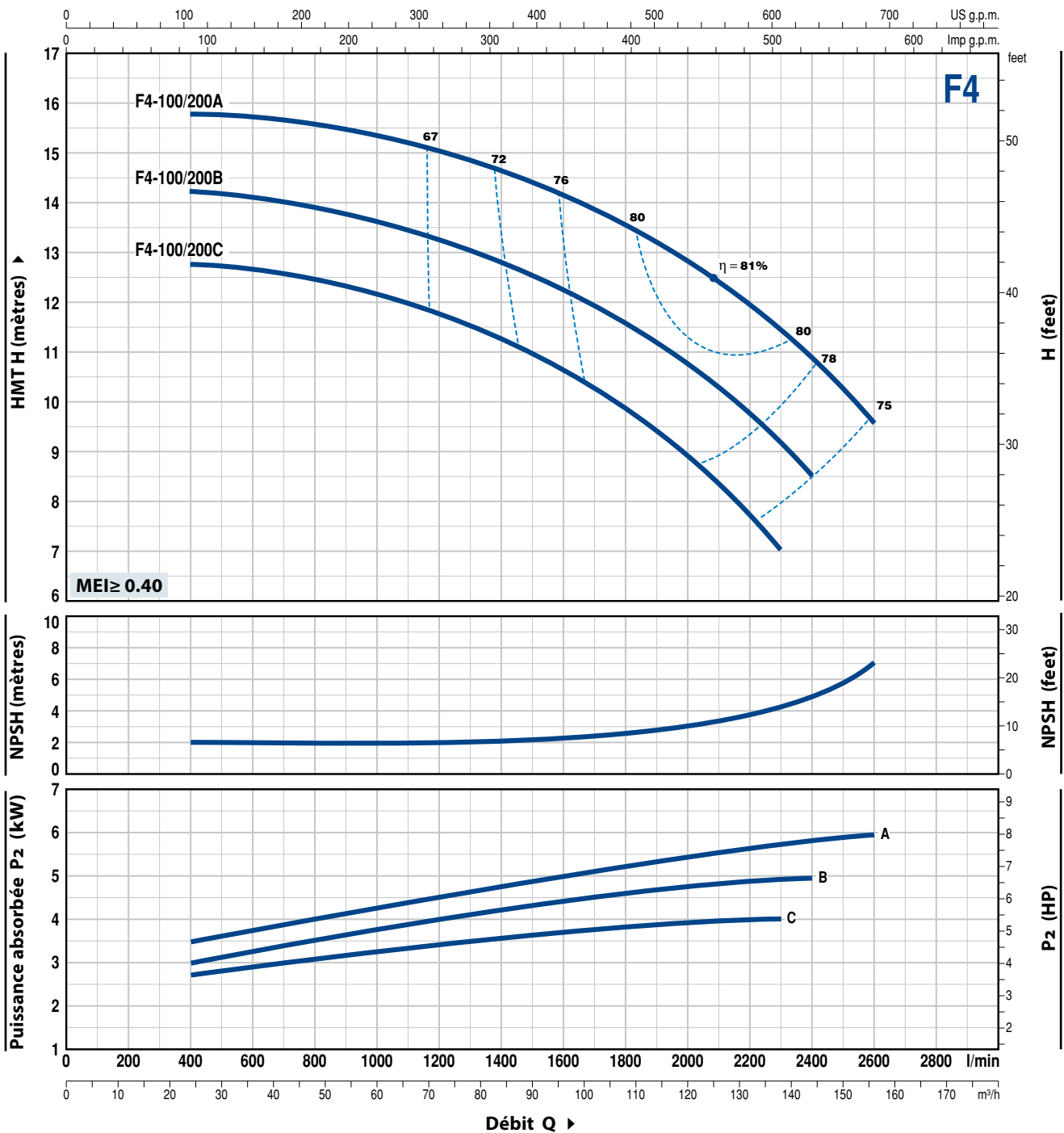
| TYPE          | PUISSANCE (P <sub>2</sub> ) |    | Q        | Débit             |     |      |      |      |      |      |      |     |  |
|---------------|-----------------------------|----|----------|-------------------|-----|------|------|------|------|------|------|-----|--|
|               | kW                          | HP |          | m <sup>3</sup> /h | 24  | 48   | 72   | 96   | 120  | 144  | 165  | 180 |  |
| Triphasé      |                             |    | l/min    | 400               | 800 | 1200 | 1600 | 2000 | 2400 | 2750 | 3000 |     |  |
| F4-100/160B-N | 2.2                         | 3  | H mètres | 8.1               | 7.9 | 7.3  | 6.5  | 5.5  | 4.1  | 2.7  |      |     |  |
| F4-100/160A-N | 3                           | 4  |          | 9.2               | 9   | 8.5  | 7.8  | 6.8  | 5.5  | 4.2  | 3.2  |     |  |

Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE<br>Triphasé | PUISSANCE (P <sub>2</sub> ) |     | Q        | m <sup>3</sup> /h |      |      |      |      |      |      |      |      |      |      |      |  |  |  |
|------------------|-----------------------------|-----|----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
|                  | kW                          | HP  |          | 24                | 36   | 48   | 60   | 72   | 84   | 96   | 108  | 120  | 138  | 144  | 156  |  |  |  |
|                  |                             |     | l/min    | 400               | 600  | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2300 | 2400 | 2600 |  |  |  |
| F4-100/200C      | 4                           | 5.5 | H mètres | 12.7              | 12.6 | 12.5 | 12.2 | 11.8 | 11.3 | 10.6 | 9.9  | 8.9  | 7    |      |      |  |  |  |
| F4-100/200B      | 5.5                         | 7.5 |          | 14.2              | 14.1 | 13.9 | 13.6 | 13.3 | 12.8 | 12.2 | 11.6 | 10.7 | 9.2  | 8.5  |      |  |  |  |
| F4-100/200A      | 5.5                         | 7.5 |          | 15.8              | 15.7 | 15.6 | 15.4 | 15   | 14.6 | 14.2 | 13.5 | 12.8 | 12   | 11.4 | 9.5  |  |  |  |

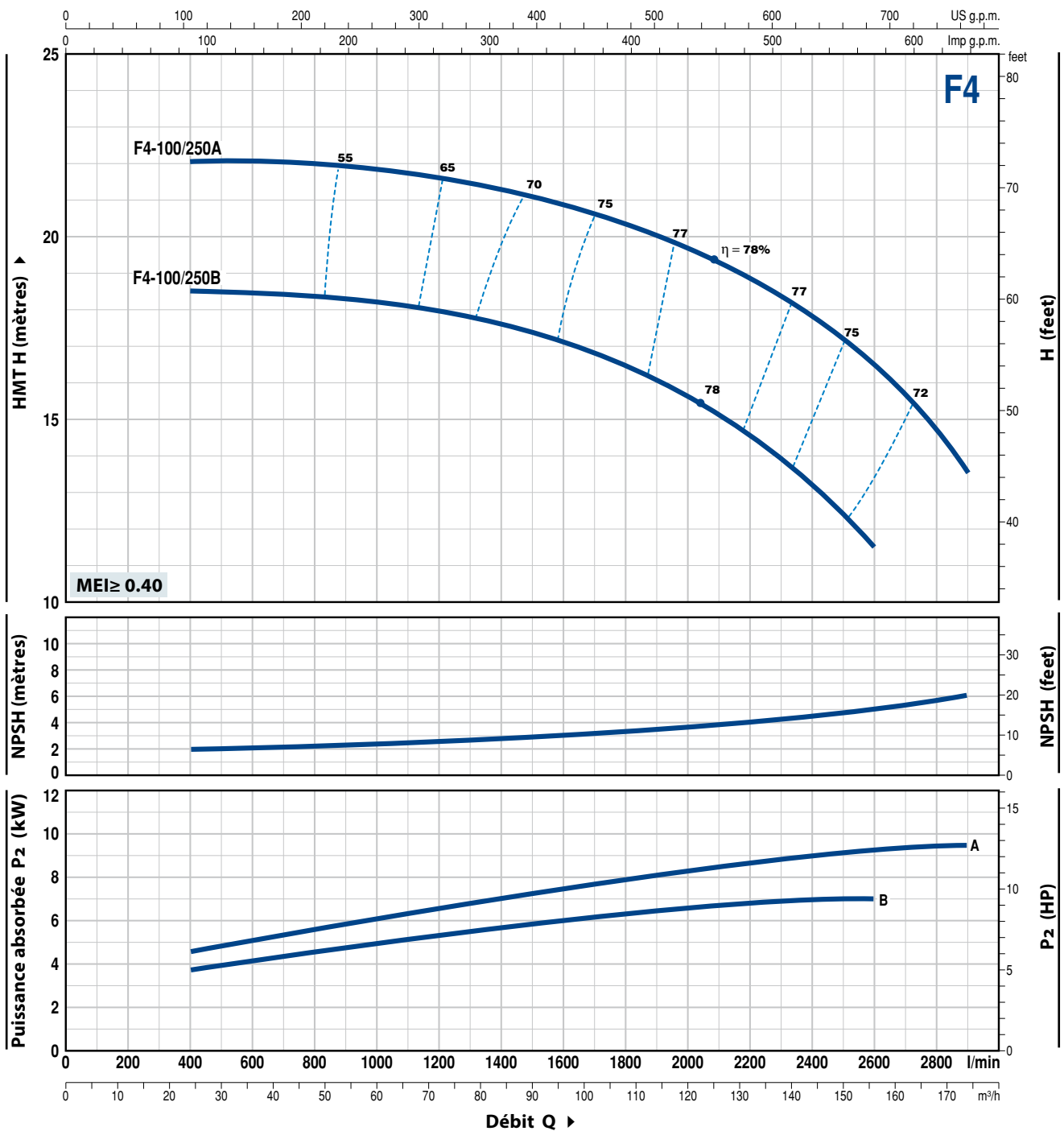
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

# F4-100/250

## COURBES ET CARACTÉRISTIQUES DE PERFORMANCE

50 Hz n= 1450 rpm HS= 0 m



| TYPE        | PUISSANCE (P <sub>2</sub> ) |      | Q        | Débit             |      |      |      |      |      |      |      |      |      |      |      |      |     |  |
|-------------|-----------------------------|------|----------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|
|             | kW                          | HP   |          | m <sup>3</sup> /h | 24   | 36   | 48   | 60   | 72   | 84   | 96   | 108  | 120  | 132  | 144  | 156  | 174 |  |
| Triphasé    |                             |      | l/min    | 400               | 600  | 800  | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2600 | 2900 |     |  |
| F4-100/250B | 7.5                         | 10   | H mètres | 18.5              | 18.5 | 18.3 | 18.2 | 18   | 17.5 | 17.1 | 16.5 | 15.7 | 14.5 | 13.2 | 11.5 |      |     |  |
| F4-100/250A | 9.2                         | 12.5 |          | 22                | 22   | 22   | 21.8 | 21.6 | 21.2 | 20.9 | 20.3 | 19.7 | 18.9 | 17.9 | 16.5 | 13.5 |     |  |

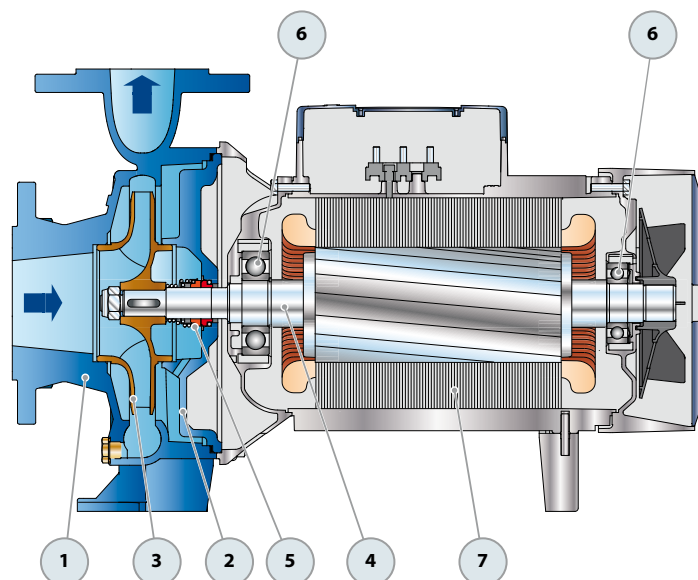
Q = Débit H = Hauteur manométrique totale HS = Hauteur d'aspiration

Tolérance des courbes de prestation selon EN ISO 9906 Degré 3B.

## REP. COMPOSANT

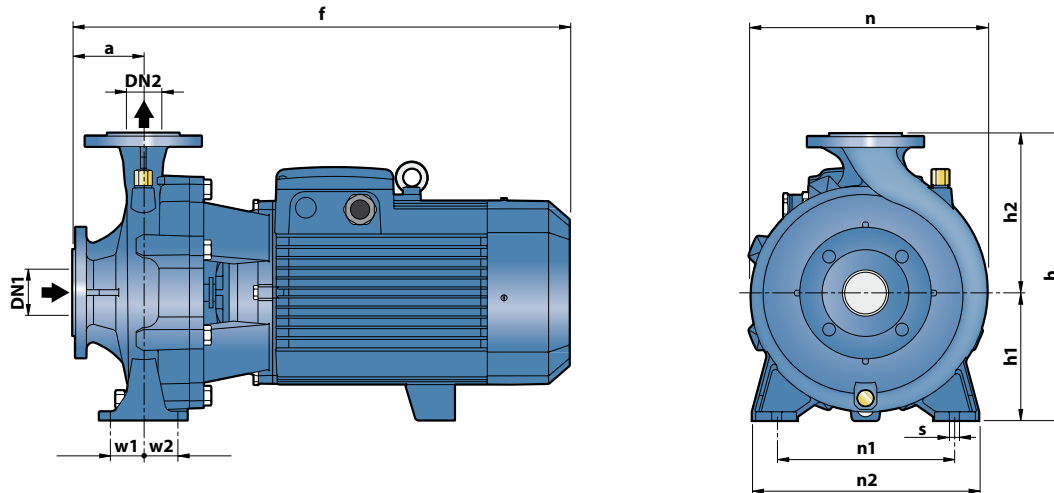
## CARACTÉRISTIQUES DE CONSTRUCTION

|                              |   |                                |  |                                |                     |                   |     |
|------------------------------|---|--------------------------------|--|--------------------------------|---------------------|-------------------|-----|
| <b>1 CORPS DE POMPE</b>      | Fonte, avec orifices d'aspiration et de refoulement à bride   |                                |  |                                |                     |                   |     |
| <b>2 COUVERCLE</b>           | Fonte   |                                |  |                                |                     |                   |     |
| <b>3 ROUE</b>                | Laiton pour F4-32/160, 32/200, 40/160, 40/200, 50/125, 50/160   |                                |  |                                |                     |                   |     |
| <b>4 ARBRE MOTEUR</b>        | Acier inox EN 10088-3 - 1.4104  |                                |  |                                |                     |                   |     |
| <b>5 GARNITURE MÉCANIQUE</b> | <b>Électropompe</b>   | <b>Garniture</b>               | <b>Arbre</b>   | <b>Matériaux</b>               |                     |                   |     |
|                              | <i>Type</i>   | <i>Type</i>                    | <i>Diamètre</i>  | <i>Bague fixe</i>              | <i>Bague mobile</i> | <i>Élastomère</i> |     |
|                              | F4-32/160 F4-40/160   | F4-50/125                      | <b>FN-20</b>   | Ø 20 mm                        | Graphite            | Céramique         | NBR |
|                              | F4-32/200 F4-40/200   | F4-50/160 F4-65/125            | <b>FN-24</b>   | Ø 24 mm                        | Graphite            | Céramique         | NBR |
|                              | F4-50/200 F4-65/200   | F4-80/160 F4-100/160           | <b>FN-32 NU</b>  | Ø 32 mm                        | Graphite            | Céramique         | NBR |
|                              | F4-32/250 F4-40/250   | F4-50/250                      | <b>FN-38</b>   | Ø 38 mm                        | Graphite            | Céramique         | NBR |
|                              | F4-65/250 F4-80/200   | F4-100/200                     | <b>FN-40 NU</b>  | Ø 40 mm                        | Graphite            | Céramique         | NBR |
|                              | F4-80/250   | F4-100/250                     | <b>FN-45 NU</b>  | Ø 45 mm                        | Graphite            | Céramique         | NBR |
| <b>6 ROULEMENTS</b>          | <b>Électropompe</b>   | <b>Type</b>                    | <b>Électropompe</b>  | <b>Type</b>                    |                     |                   |     |
|                              | F4-32/160 F4-40/160 F4-50/125   | <b>6206 ZZ-C3 / 6204 ZZ</b>    | F4-32/250 F4-40/250 F4-50/200 F4-50/250 F4-65/160 F4-65/200 F4-80/160 F4-100/160 | <b>6208 ZZ-C3 / 6206 ZZ-C3</b> |                     |                   |     |
|                              | F4-32/200 F4-40/200 F4-50/160 F4-65/125   | <b>6307 ZZ-C3 / 6206 ZZ-C3</b> | F4-65/250 F4-80/200 F4-80/250 F4-100/200 F4-100/250                              | <b>6310 ZZ-C3 / 6308 ZZ-C3</b> |                     |                   |     |
| <b>7 MOTEUR ÉLECTRIQUE</b>   | <b>F4:</b> à 4 pôles 230/400 -50 Hz   |                                |  |                                |                     |                   |     |
|                              | <p>➡ <b>Les électropompes sont équipées de moteurs à haut rendement en classe IE2 jusqu'à P<sub>2</sub>=1.1 kW et en classe IE3 à partir de P<sub>2</sub>=1.5 kW (IEC 60034-30)</b></p> <p>– Isolation: classe F</p> <p>– Protection: IP 55</p> |                                |  |                                |                     |                   |     |



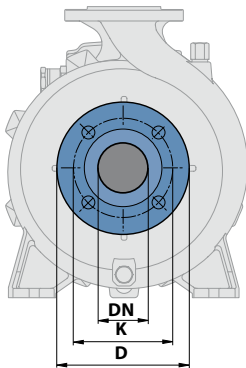


## DIMENSIONS ET POIDS



| TYPE            | DIMENSIONS mm |     |     |     |     |     |     |     |     |     |     |      |       | kg   |      |       |       |      |      |      |      |      |
|-----------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-------|------|------|-------|-------|------|------|------|------|------|
|                 | DN1           | DN2 | a   | f   | h   | h1  | h2  | n   | n1  | n2  | w1  | w2   | s     |      |      |       |       |      |      |      |      |      |
| <b>Triphasé</b> |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       |       |      |      |      |      |      |
| F4-32/160B      | 50            | 32  | 80  | 412 | 292 | 132 | 160 | 242 | 190 | 240 | 35  | 35   | 14    | 31.2 |      |       |       |      |      |      |      |      |
| F4-32/160A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 31.3  |       |      |      |      |      |      |
| F4-32/200B      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 43.4  |      |      |      |      |      |
| F4-32/200A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 43.5  |      |      |      |      |      |
| F4-32/200BH     |               |     |     |     | 100 | 469 | 340 | 160 | 180 | 270 |     |      |       |      |      |       | 42.3  |      |      |      |      |      |
| F4-32/200AH     |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 42.4  |      |      |      |      |      |
| F4-32/250C      |               |     |     |     |     | 522 | 405 | 180 | 225 | 330 | 250 | 320  |       | 405  | 47.5 |       | 59.7  |      |      |      |      |      |
| F4-32/250B      |               |     |     |     |     | 568 |     |     |     |     |     |      |       |      |      |       | 63.1  |      |      |      |      |      |
| F4-32/250A      |               |     |     |     |     |     |     |     |     |     |     |      | 68.7  |      |      |       |       |      |      |      |      |      |
| F4-40/160B      | 65            | 40  | 80  | 412 | 292 | 132 | 160 | 240 | 190 | 240 | 35  | 35   | 14    | 32.5 |      |       |       |      |      |      |      |      |
| F4-40/160A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 32.9  |       |      |      |      |      |      |
| F4-40/200B      |               |     |     |     | 100 | 489 | 340 | 160 | 180 | 275 | 212 | 265  |       |      |      | 46.0  |       |      |      |      |      |      |
| F4-40/200A      |               |     |     |     |     | 522 | 405 | 180 | 225 | 328 | 250 | 320  |       | 47.5 | 47.5 | 63.1  |       |      |      |      |      |      |
| F4-40/250C      |               |     |     |     |     | 568 |     |     |     |     |     |      |       |      |      |       | 68.7  |      |      |      |      |      |
| F4-40/250B      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 63.1  |      |      |      |      |      |
| F4-40/250A      |               |     |     |     |     |     |     |     |     |     |     |      | 68.7  |      |      |       |       |      |      |      |      |      |
| F4-50/125B      | 65            | 50  | 100 | 431 | 292 | 132 | 160 | 242 | 190 | 240 | 35  | 35   | 14    | 32.2 |      |       |       |      |      |      |      |      |
| F4-50/125A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       |       | 32.3 |      |      |      |      |
| F4-50/160B      |               |     |     |     |     | 489 | 340 | 160 | 180 | 269 |     |      |       | 212  | 265  |       |       | 44.4 |      |      |      |      |
| F4-50/160A      |               |     |     |     |     |     |     |     | 529 |     |     |      |       |      |      |       |       |      |      | 44.5 |      |      |
| F4-50/200C      |               |     |     |     | 576 | 360 | 200 | 316 | 316 | 212 | 265 |      |       |      | 59.2 |       |       |      |      |      |      |      |
| F4-50/200B      |               |     |     |     |     |     |     |     |     |     |     | 576  |       |      |      |       |       |      | 64.4 |      |      |      |
| F4-50/200A      |               |     |     |     | 522 | 405 | 180 | 225 | 337 | 250 | 320 | 47.5 |       | 47.5 | 18   | 64.7  |       |      |      |      |      |      |
| F4-50/200AR     |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 522   |       |      |      |      |      | 68.8 |
| F4-50/250D      |               |     |     |     | 568 | 405 | 180 | 225 | 337 | 250 | 320 | 47.5 |       | 47.5 | 18   | 59.9  |       |      |      |      |      |      |
| F4-50/250C      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 568   |       |      |      |      |      | 63.3 |
| F4-50/250B      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 568   |       |      |      |      |      | 68.7 |
| F4-50/250A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 568   |       |      |      |      |      | 69.1 |
| F4-50/250AR     |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 73.2  |       |      |      |      |      |      |
| F4-65/125B      |               |     | 80  | 65  | 100 | 511 | 340 | 160 | 180 | 291 | 212 | 280  |       | 47.5 | 47.5 | 14    | 51.0  |      |      |      |      |      |
| F4-65/125A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       |       |      |      | 51.1 |      |      |
| F4-65/160C      |               |     |     |     |     | 533 | 360 | 180 | 200 | 300 | 280 | 345  |       |      | 55.5 |       |       |      |      |      |      |      |
| F4-65/160B      |               |     |     |     |     |     |     |     | 579 |     |     |      |       |      |      |       |       | 63.7 |      |      |      |      |
| F4-65/160A      |               |     |     |     |     | 582 | 405 | 180 | 225 | 340 | 250 | 320  | 60    | 60   | 18   |       | 69.0  |      |      |      |      |      |
| F4-65/200A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 582   |      |      |      |      |      |
| F4-65/200AR     |               |     |     |     |     | 627 | 450 | 200 | 250 | 373 | 280 | 360  | 60    | 60   | 18   |       | 123.8 |      |      |      |      |      |
| F4-65/250B      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 722   |      |      |      |      |      |
| F4-80/160D      | 100           | 80  |     |     |     | 125 | 565 | 405 | 180 | 225 | 330 | 250  | 320   | 47.5 | 47.5 |       | 14    | 62.1 |      |      |      |      |
| F4-80/160C      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       |       |      |      |      |      |      |
| F4-80/160B      |               |     |     |     | 611 |     | 430 | 200 | 250 | 360 | 280 | 345  |       |      | 67.5 |       |       |      |      |      |      |      |
| F4-80/160A      |               |     |     |     |     |     |     |     | 750 |     |     |      |       |      |      | 114.4 |       |      |      |      |      |      |
| F4-80/200B      |               |     |     |     | 768 |     | 480 | 200 | 280 | 405 | 315 | 400  | 60    | 60   | 18   | 149.5 |       |      |      |      |      |      |
| F4-80/200A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 768   |       |      |      |      |      |      |
| F4-80/250B      |               |     |     |     | 768 |     | 480 | 200 | 280 | 405 | 315 | 400  | 60    | 60   | 18   | 166.0 |       |      |      |      |      |      |
| F4-80/250A      |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      | 768   |       |      |      |      |      |      |
| F4-100/160B-N   | 125           | 100 | 125 | 622 | 480 | 200 | 280 | 362 | 280 | 360 | 60  | 60   | 18    | 70.7 |      |       |       |      |      |      |      |      |
| F4-100/160A-N   |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       |       |      |      |      | 78.1 |      |
| F4-100/200C     |               |     |     |     |     | 657 | 480 | 200 | 280 | 391 | 280 | 360  |       | 60   | 60   | 18    | 124.1 |      |      |      |      |      |
| F4-100/200B     |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 752   |      |      |      |      |      |
| F4-100/200A     |               |     |     |     |     | 789 | 505 | 225 | 280 | 422 | 315 | 400  |       | 60   | 60   | 18    | 140.1 |      |      |      |      |      |
| F4-100/250B     |               |     |     |     |     |     |     |     |     |     |     |      |       |      |      |       | 821   |      |      |      |      |      |
| F4-100/250A     |               |     |     |     |     |     |     |     |     |     |     |      | 182.9 |      |      |       |       |      |      |      |      |      |

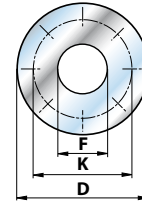
## BRIDES DES ORIFICES



| DN BRIDES<br>mm | D<br>mm | K<br>mm | TROUS |        |
|-----------------|---------|---------|-------|--------|
|                 |         |         | N°    | Ø (mm) |
| 32              | 140     | 100     | 4     | 18     |
| 40              | 150     | 110     |       |        |
| 50              | 165     | 125     |       |        |
| 65              | 185     | 145     |       |        |
| 80              | 200     | 160     | 8     |        |
| 100             | 220     | 180     |       |        |
| 125             | 250     | 210     |       |        |

## CONTRE-BRIDES

(A COMMANDER A PART)



| DN BRIDES<br>mm | F<br>CONTRE-BRIDES | D<br>mm | K<br>mm | TROUS |        |
|-----------------|--------------------|---------|---------|-------|--------|
|                 |                    |         |         | N°    | Ø (mm) |
| 32              | 1¼"                | 140     | 100     | 4     | 18     |
| 40              | 1½"                | 150     | 110     |       |        |
| 50              | 2"                 | 165     | 125     |       |        |
| 65              | 2½"                | 185     | 145     |       |        |
| 80              | 3"                 | 200     | 160     | 8     |        |
| 100             | 4"                 | 220     | 180     |       |        |
| 125             | 5"                 | 250     | 210     |       |        |

## INTENSITES

| TYPE        | TENSION   |           |
|-------------|-----------|-----------|
|             | 230÷240 V | 400÷415 V |
| Triphasé    |           |           |
| F4-32/160B  | 1.9 A     | 1.1 A     |
| F4-32/160A  | 2.3 A     | 1.3 A     |
| F4-32/200B  | 3.6 A     | 2.1 A     |
| F4-32/200A  | 4.0 A     | 2.3 A     |
| F4-32/200BH | 3.1 A     | 1.8 A     |
| F4-32/200AH | 3.5 A     | 2.0 A     |
| F4-32/250C  | 4.5 A     | 2.6 A     |
| F4-32/250B  | 5.7 A     | 3.3 A     |
| F4-32/250A  | 9.0 A     | 5.2 A     |
| F4-40/160B  | 2.1 A     | 1.2 A     |
| F4-40/160A  | 2.8 A     | 1.6 A     |
| F4-40/200B  | 3.6 A     | 2.1 A     |
| F4-40/200A  | 4.2 A     | 2.4 A     |
| F4-40/250C  | 4.5 A     | 2.6 A     |
| F4-40/250B  | 6.1 A     | 3.5 A     |
| F4-40/250A  | 9.0 A     | 5.2 A     |
| F4-50/125B  | 2.4 A     | 1.4 A     |
| F4-50/125A  | 2.6 A     | 1.5 A     |
| F4-50/160B  | 3.6 A     | 2.1 A     |
| F4-50/160A  | 4.2 A     | 2.4 A     |
| F4-50/200C  | 6.1 A     | 3.5 A     |
| F4-50/200B  | 8.0 A     | 4.6 A     |
| F4-50/200A  | 9.0 A     | 5.2 A     |
| F4-50/200AR | 11.8 A    | 6.8 A     |
| F4-50/250D  | 4.5 A     | 2.6 A     |
| F4-50/250C  | 5.9 A     | 3.4 A     |
| F4-50/250B  | 8.5 A     | 4.9 A     |
| F4-50/250A  | 9.9 A     | 5.7 A     |
| F4-50/250AR | 11.8 A    | 6.8 A     |

| TYPE          | TENSION   |           |
|---------------|-----------|-----------|
|               | 230÷240 V | 400÷415 V |
| Triphasé      |           |           |
| F4-65/125B    | 3.6 A     | 2.1 A     |
| F4-65/125A    | 4.5 A     | 2.6 A     |
| F4-65/160C    | 4.7 A     | 2.7 A     |
| F4-65/160B    | 5.9 A     | 3.4 A     |
| F4-65/160A    | 7.8 A     | 4.5 A     |
| F4-65/200A    | 9.0 A     | 5.2 A     |
| F4-65/200AR   | 11.8 A    | 6.8 A     |
| F4-65/250B    | 16.4 A    | 9.5 A     |
| F4-65/250A    | 23.4 A    | 13.5 A    |
| F4-80/160D    | 5.9 A     | 3.4 A     |
| F4-80/160C    | 8.1 A     | 4.7 A     |
| F4-80/160B    | 9.2 A     | 5.3 A     |
| F4-80/160A    | 11.8 A    | 6.8 A     |
| F4-80/200B    | 16.4 A    | 9.5 A     |
| F4-80/200A    | 22.2 A    | 12.8 A    |
| F4-80/250B    | 23.4 A    | 13.5 A    |
| F4-80/250A    | 25.6 A    | 14.8 A    |
| F4-100/160B-N | 9.0 A     | 5.2 A     |
| F4-100/160A-N | 11.8 A    | 6.8 A     |
| F4-100/200C   | 16.4 A    | 9.5 A     |
| F4-100/200B   | 21.0 A    | 12.1 A    |
| F4-100/200A   | 23.4 A    | 13.5 A    |
| F4-100/250B   | 27.5 A    | 15.9 A    |
| F4-100/250A   | 34.1 A    | 19.7 A    |