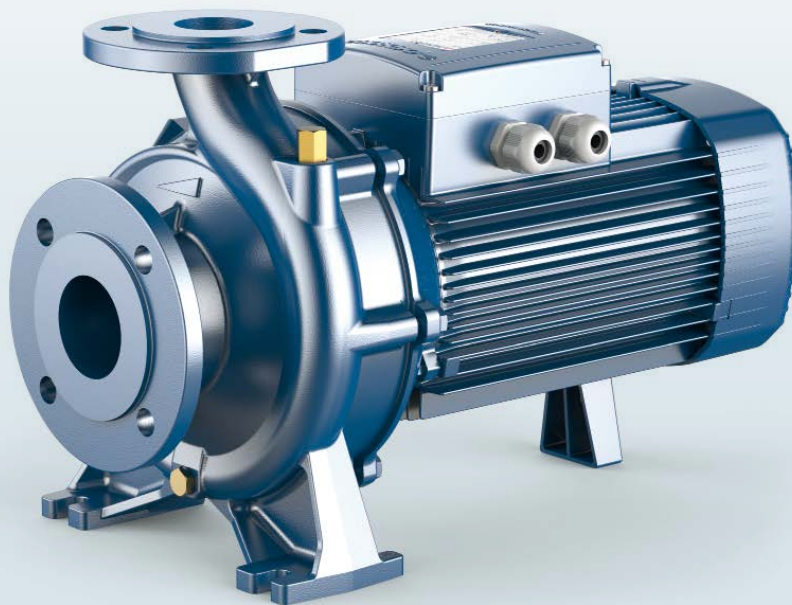




Clean water



Industrial use



### PERFORMANCE RANGE

- Flow rate up to **2900 l/min** (174 m<sup>3</sup>/h)
- Head up to **23.8 m**
- Power from **0.37 to 9.2 kW**

### INSTALLATION AND USE

- Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.
- Water supply
- Pressurization
- Irrigation
- Water circulation in air conditioning systems
- Power washing systems
- Firefighting systems
- Industrial applications
- Agriculture applications

Installation is to be carried out in well-ventilated enclosed locations or otherwise protected from the weather.

### ELECTRIC MOTOR

The three-phase pumps are equipped with newly developed electric motors designed to work with inverters, which guarantee stable and quiet operation.

Efficiency class **IE3** for three-phase motors, **IE2** for single-phase motors, class F insulation and IP55 protection.

### APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar (PN10)**

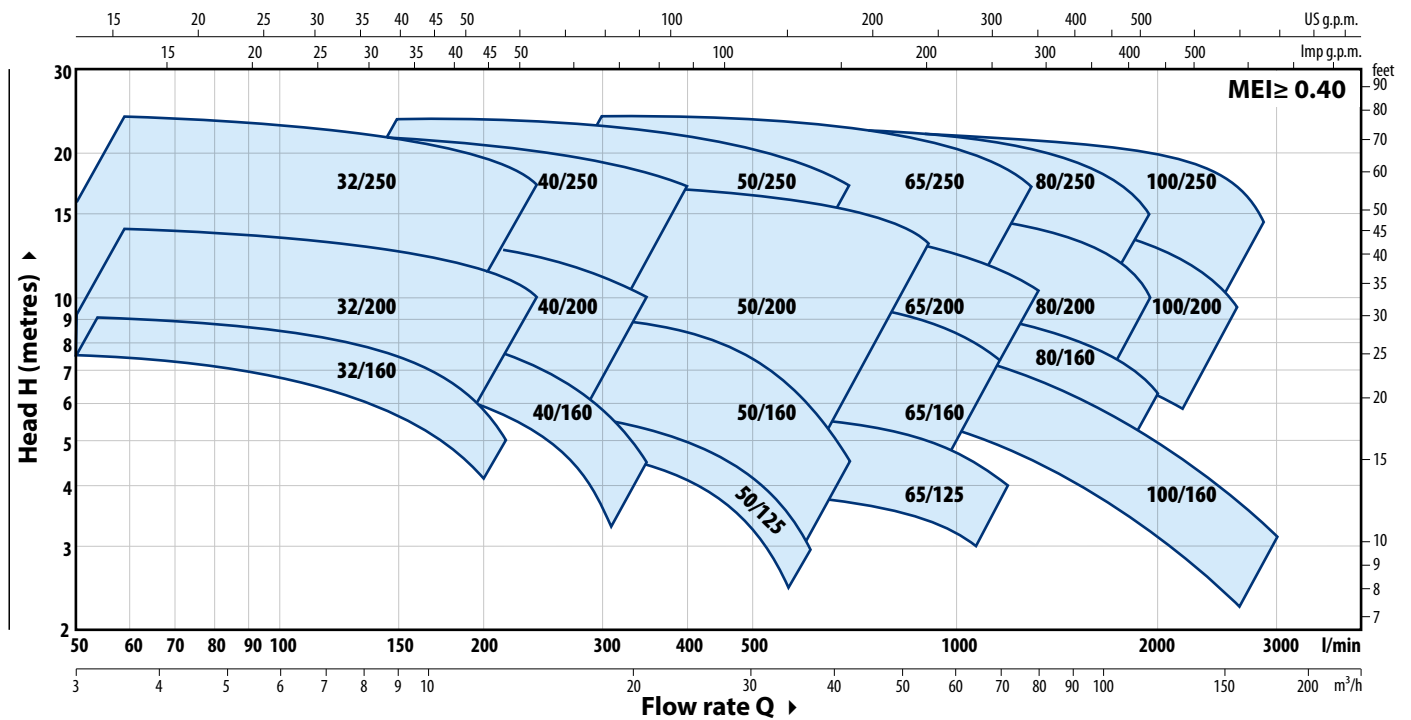
### AVAILABLE UPON REQUEST

- ✘ Different voltage requirements 60 Hz frequency
- ✘ Handling of liquids with higher or lower temperatures
- ✘ Adaptability to operate in high or low temperature environments
- ✘ Counterflange KIT including screws, nuts and gaskets



## PERFORMANCE RANGE – n= 1450 min<sup>-1</sup>

50 Hz



## PERFORMANCE DATA – n= 1450 min<sup>-1</sup>

50 Hz

TYPE	POWER (P <sub>2</sub> )		PERFORMANCE		
	Three-ph.	kW	HP	Q l/min	H m
F4-32/160B	0.37	0.5		50 – 200	7.5 – 4.5
F4-32/160A	0.37	0.5		50 – 225	9 – 5
F4-32/200B	0.75	1		50 – 250	12.5 – 9
F4-32/200A	1.1	1.5		50 – 250	14 – 10.5
F4-32/200BH	0.75	1		50 – 150	11.3 – 9.2
F4-32/200AH	0.75	1		50 – 160	13.8 – 11
F4-32/250C	1.1	1.5		50 – 220	18.4 – 15
F4-32/250B	1.5	2		50 – 250	21.7 – 17.4
F4-32/250A	2.2	3		50 – 270	23.8 – 18.7
F4-40/160B	0.37	0.5		50 – 320	7.5 – 3.5
F4-40/160A	0.55	0.75		50 – 350	9 – 4.5
F4-40/200B	0.75	1		50 – 350	11.5 – 7
F4-40/200A	1.1	1.5		50 – 350	13.8 – 10
F4-40/250C	1.1	1.5		50 – 400	15.5 – 10
F4-40/250B	1.5	2		50 – 400	17.5 – 12
F4-40/250A	2.2	3		50 – 400	22 – 17
F4-50/125B	0.55	0.75		150 – 600	5 – 2
F4-50/125A	0.55	0.75		150 – 600	6 – 3
F4-50/160B	0.75	1		150 – 650	8 – 3.8
F4-50/160A	1.1	1.5		150 – 700	9.3 – 4.5
F4-50/200C	1.5	2		200 – 850	11 – 7.5
F4-50/200B	2.2	3		200 – 850	13 – 9.5
F4-50/200A	2.2	3		200 – 900	15 – 11.2
F4-50/200AR	3	4		200 – 900	17 – 13.2
F4-50/250D	1.1	1.5		150 – 650	12.5 – 5
F4-50/250C	1.5	2		150 – 700	14 – 5
F4-50/250B	2.2	3		150 – 700	18 – 10.5
F4-50/250A	2.2	3		150 – 700	20 – 13
F4-50/250AR	3	4		150 – 700	23.5 – 17

TYPE	POWER (P <sub>2</sub> )		PERFORMANCE		
	Three-ph.	kW	HP	Q l/min	H m
F4-65/125B	0.75	1		300 – 1100	4.7 – 3
F4-65/125A	1.1	1.5		300 – 1200	5.7 – 4
F4-65/160C	1.1	1.5		300 – 1100	8 – 5.5
F4-65/160B	1.5	2		300 – 1200	9.1 – 5.7
F4-65/160A	2.2	3		300 – 1200	10.1 – 7
F4-65/200A	2.2	3		300 – 1250	12 – 8.5
F4-65/200AR	3	4		300 – 1300	14 – 10
F4-65/250B	4	5.5		200 – 1250	21.8 – 15.5
F4-65/250A	5.5	7.5		200 – 1300	23.5 – 17
F4-80/160D	1.5	2		300 – 2000	6.3 – 2.5
F4-80/160C	2.2	3		300 – 2000	7.5 – 3.8
F4-80/160B	2.2	3		300 – 2000	8.8 – 5
F4-80/160A	3	4		300 – 2000	10 – 6.2
F4-80/200B	4	5.5		300 – 1800	14 – 9
F4-80/200A	5.5	7.5		300 – 1900	15.5 – 10.5
F4-80/250B	5.5	7.5		300 – 1800	19.5 – 13.5
F4-80/250A	7.5	10		300 – 1950	22 – 15
F4-100/160B	2.2	3		400 – 2600	8.3 – 3.5
F4-100/160A	3	4		400 – 2800	10 – 4.7
F4-100/200C	4	5.5		400 – 2300	12.7 – 7
F4-100/200B	5.5	7.5		400 – 2400	14.2 – 8.5
F4-100/200A	5.5	7.5		400 – 2600	15.8 – 9.5
F4-100/250B	7.5	10		400 – 2600	18.5 – 11.5
F4-100/250A	9.2	12.5		400 – 2900	22 – 13.5

Q = Flow Rate

H = Total manometric head

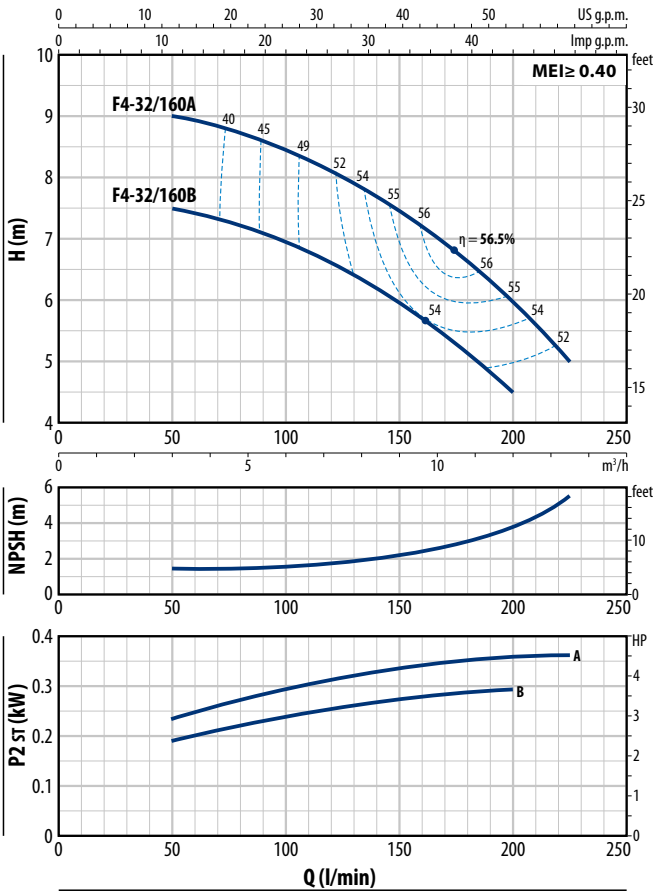
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-32

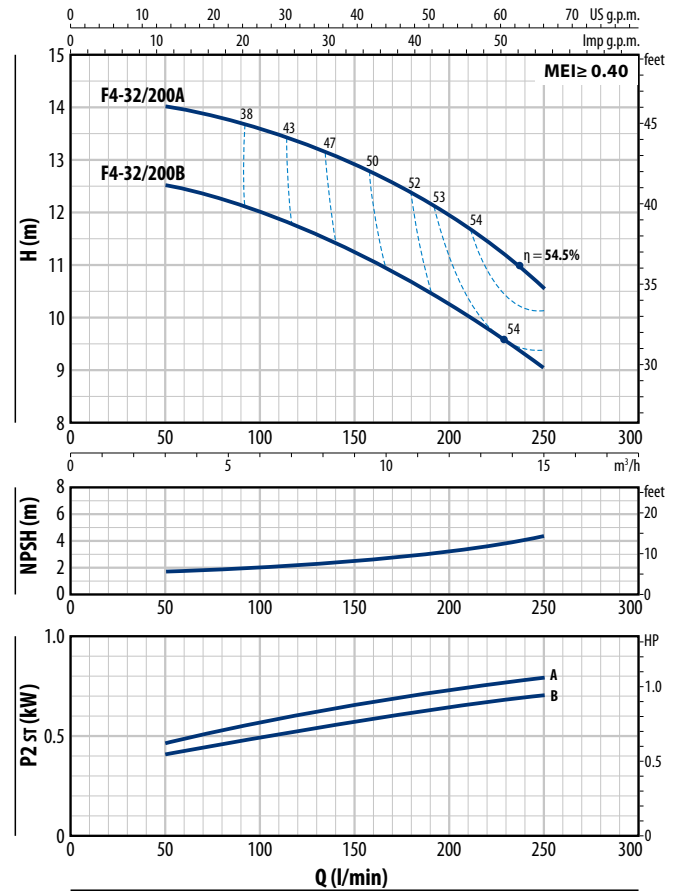
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

## F4-32/160



## F4-32/200



## F4-32/160

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate									
	kW	HP		m <sup>3</sup> /h	l/min	3	4.5	6	7.5	9	10.8	12	13.5
Three-phase				<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>180</b>	<b>200</b>	<b>225</b>		
F4-32/160B	0.37	0.5	H m	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		

## F4-32/200

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate						
	kW	HP		m <sup>3</sup> /h	l/min	3	6	9	12	15
Three-phase				<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>		
F4-32/200B	0.75	1	H m	12.5	12	11.2	10.3	9		
F4-32/200A	1.1	1.5		14	13.6	12.8	11.9	10.5		

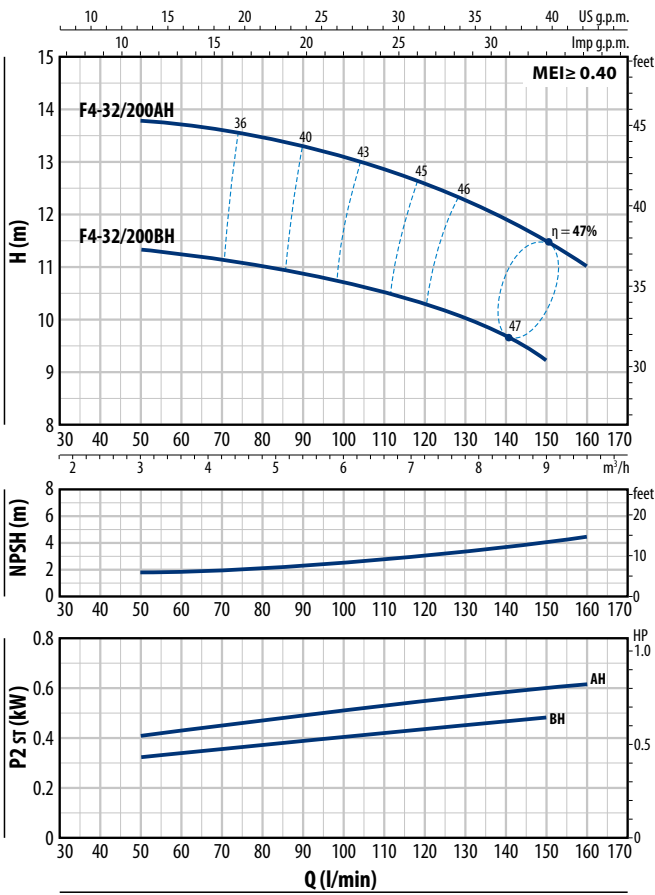
Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

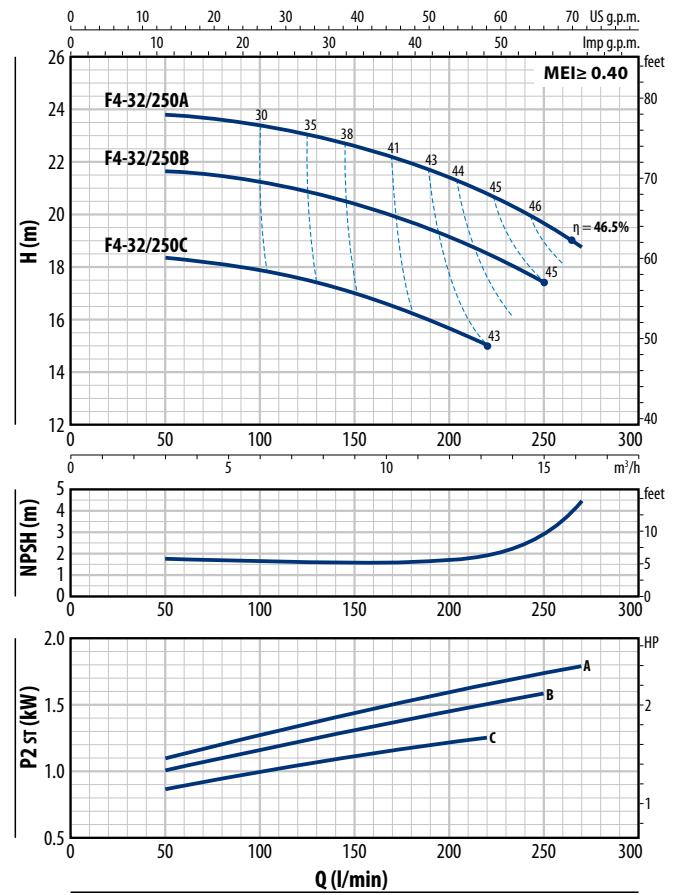
**CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>**

**HS= 0 m 50 Hz**

### F4-32/200H



### F4-32/250



### F4-32/200H

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate (m³/h)								
	kW	HP		3	4.2	5.4	6.6	7.8	9	9.6		
Three-phase			l/min	<b>50</b>	<b>70</b>	<b>90</b>	<b>110</b>	<b>130</b>	<b>150</b>	<b>160</b>		
F4-32/200BH	0.75	1	H m	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		

### F4-32/250

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate (m³/h)										
	kW	HP		3	4.5	6	7.5	9	10.5	13.2	15	16.2		
Three-phase			l/min	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>175</b>	<b>220</b>	<b>250</b>	<b>270</b>		
F4-32/250C	1.1	1.5	H m	18.4	18.1	17.8	17.5	17	16.4	15				
F4-32/250B	1.5	2		21.7	21.5	21.2	20.9	20.4	19.8	18.5	17.4			
F4-32/250A	2.2	3		23.8	23.6	23.4	23	22.6	22.1	20.8	19.6	18.7		

Q = Flow rate H = Total manometric head HS = Suction height

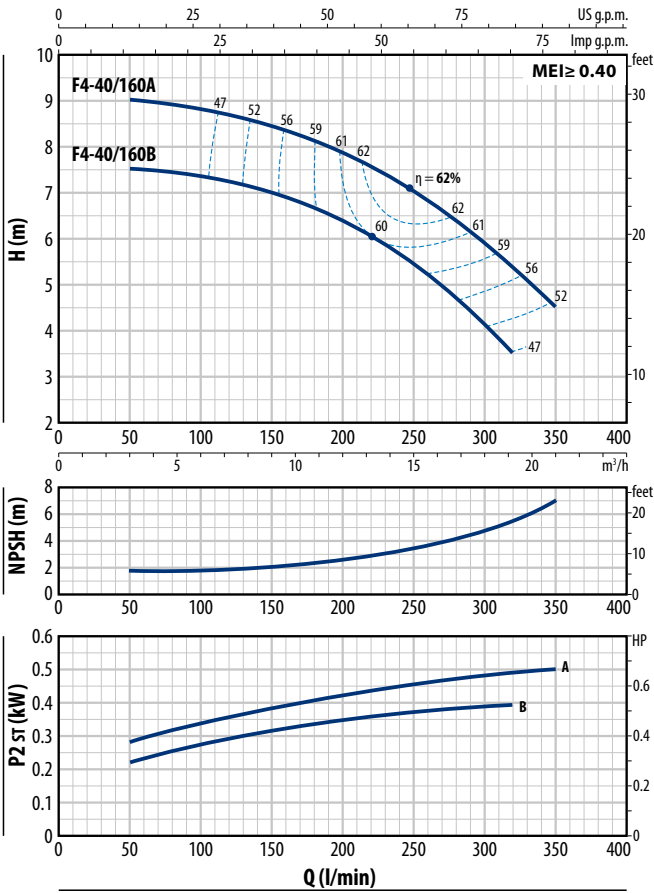
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-40

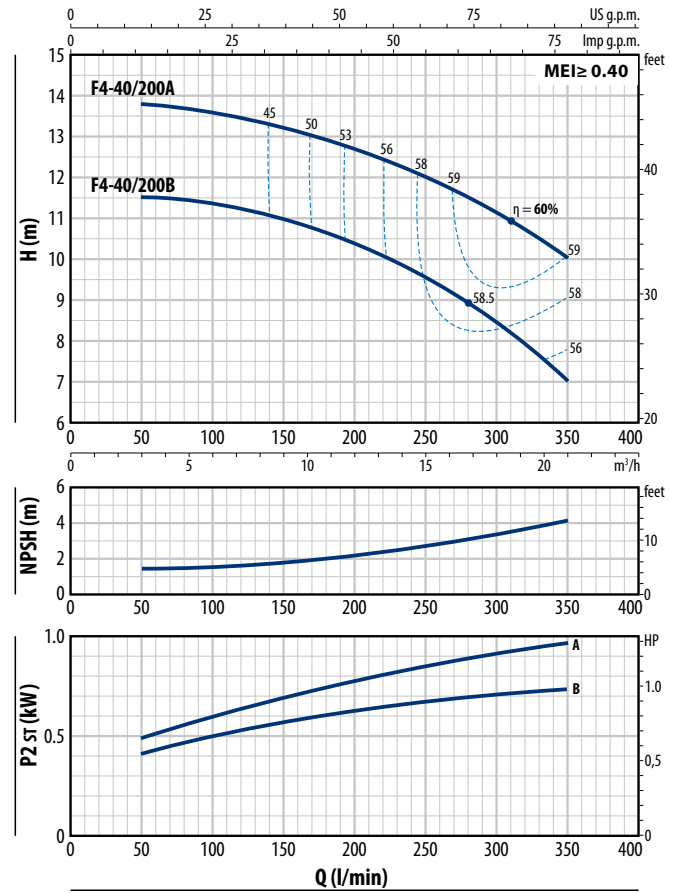
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

## F4-40/160



## F4-40/200



## F4-40/160

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

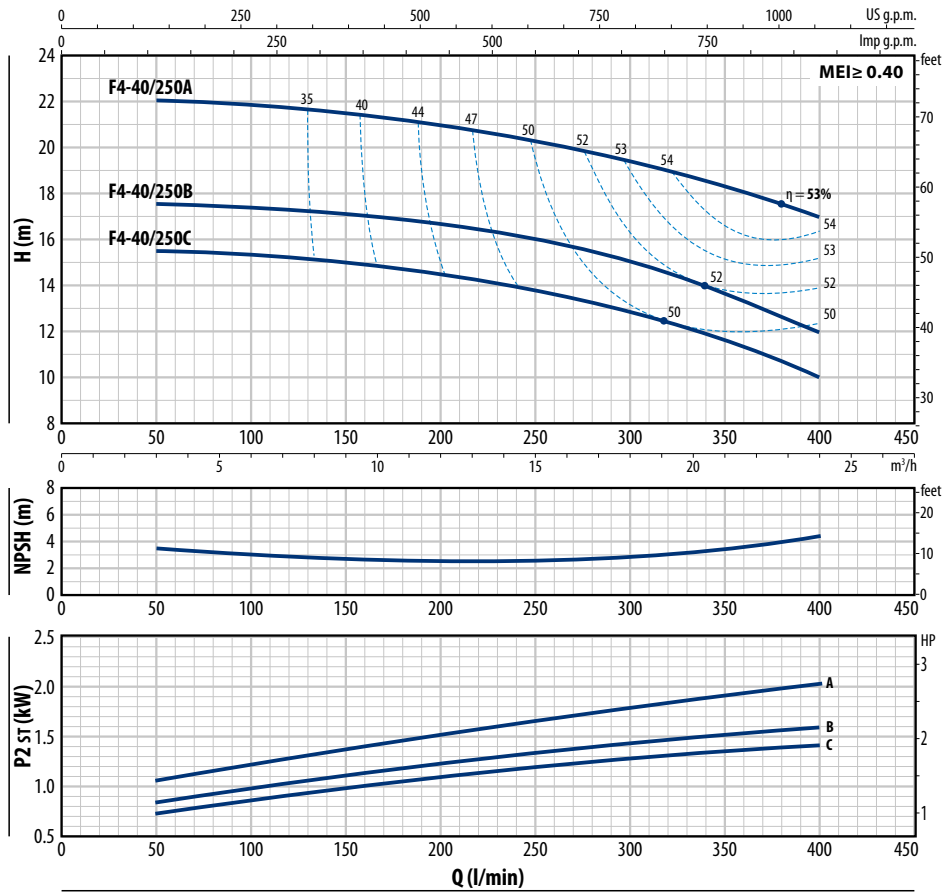
## F4-40/200

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate												
	kW	HP		m <sup>3</sup> /h	3	6	9	12	15	18	21					
Three-phase			l/min	<b>50</b>	<b>100</b>	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>						
<b>F4-40/200B</b>	0.75	1	H m	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 = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## F4-40/250



## F4-40/250

TYPE Three-phase	POWER (P <sub>2</sub> )		Q	Flow rate (l/min)							
	kW	HP		3	6	9	12	15	18	21	24
F4-40/250C	1.1	1.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

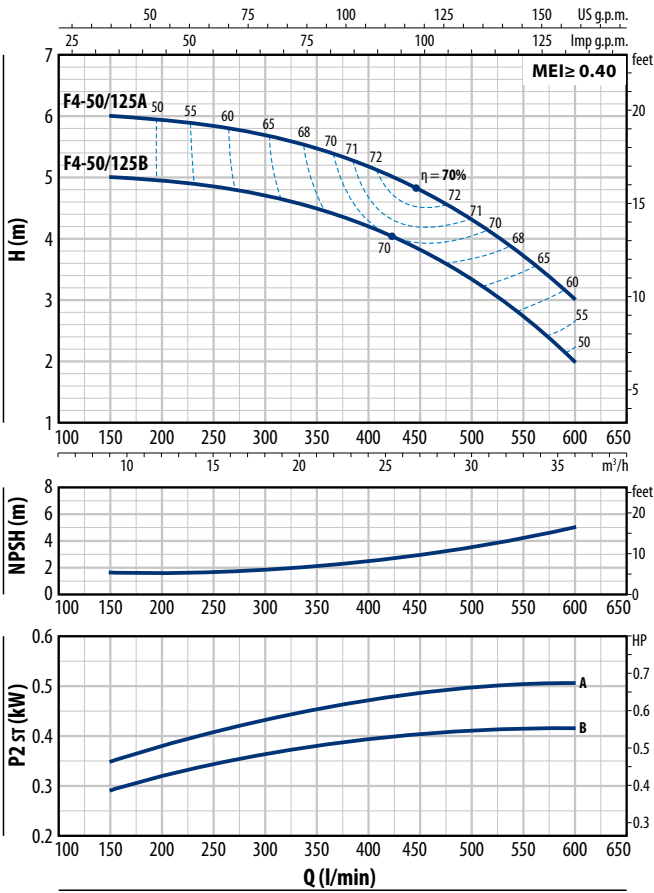
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-50

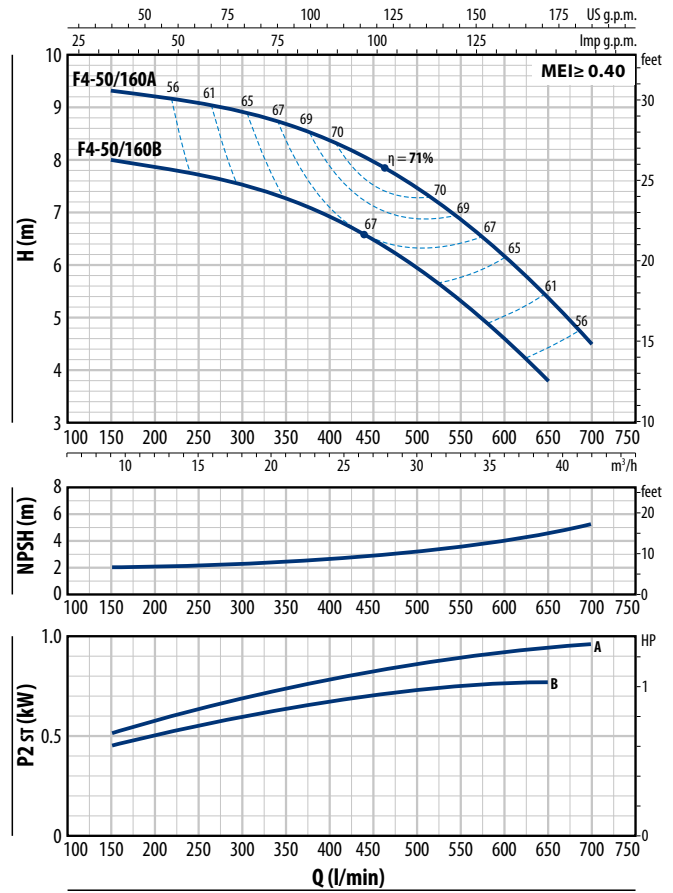
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

## F4-50/125



## F4-50/160



## F4-50/125

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	9	12	15	17	21	24	27	30	33	36	
Three-phase			l/min	150	200	250	300	350	400	450	500	550	600		
F4-50/125B	0.55	0.75	H m	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		

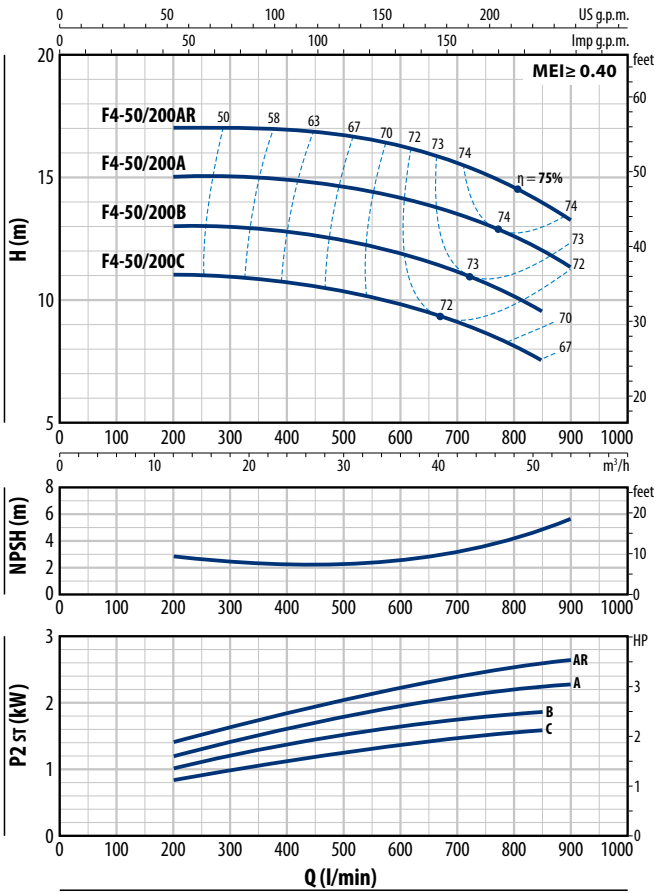
## F4-50/160

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate													
	kW	HP		m <sup>3</sup> /h	9	12	15	17	21	24	27	30	33	36	39	42	
Three-phase			l/min	150	200	250	300	350	400	450	500	550	600	650	700		
F4-50/160B	0.75	1	H m	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		9.3	9.2	9.1	8.9	8.7	8.4	8	7.4	6.8	6.2	5.4	4.5		

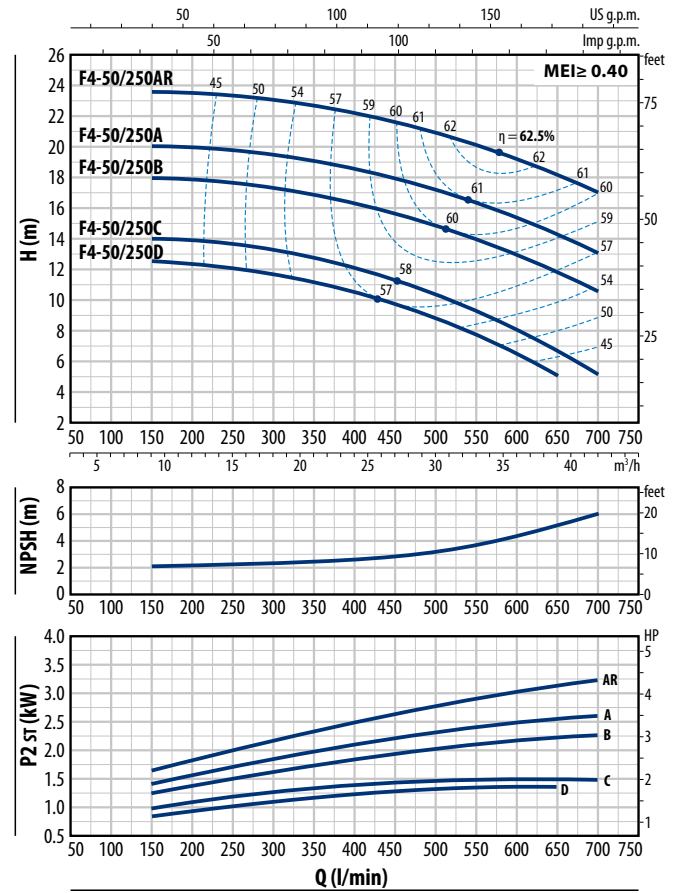
Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

### F4-50/200



### F4-50/250



### F4-50/200

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	12	17	24	30	36	42	48	51	54		
Three-phase			l/min	<b>200</b>	<b>300</b>	<b>400</b>	<b>500</b>	<b>600</b>	<b>700</b>	<b>800</b>	<b>850</b>	<b>900</b>			
F4-50/200C	1.5	2	H m	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			

### F4-50/250

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate													
	kW	HP		m <sup>3</sup> /h	9	12	15	18	21	24	27	30	33	36	39	42	
Three-phase			l/min	<b>150</b>	<b>200</b>	<b>250</b>	<b>300</b>	<b>350</b>	<b>400</b>	<b>450</b>	<b>500</b>	<b>550</b>	<b>600</b>	<b>650</b>	<b>700</b>		
F4-50/250D	1.1	1.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

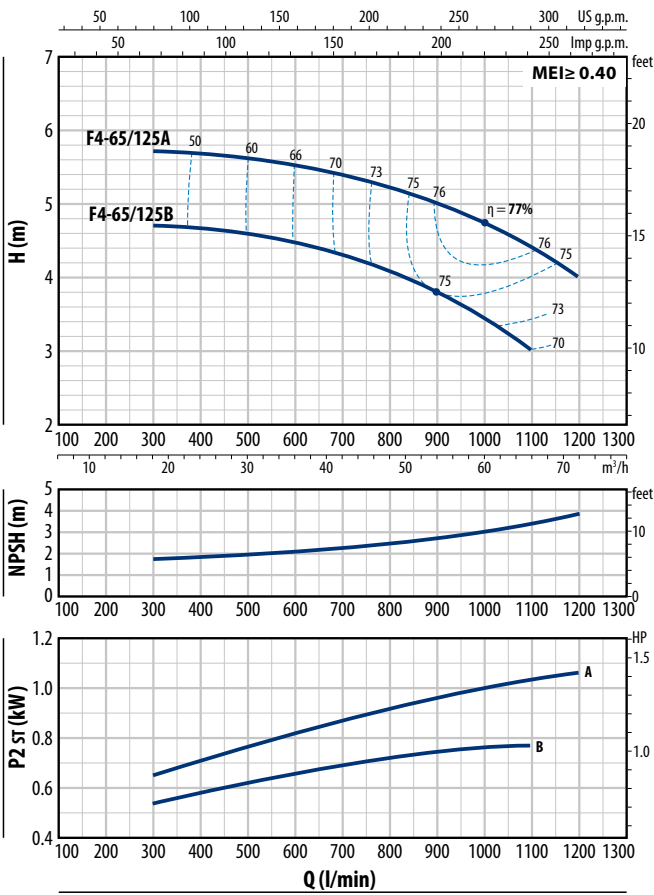
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-65

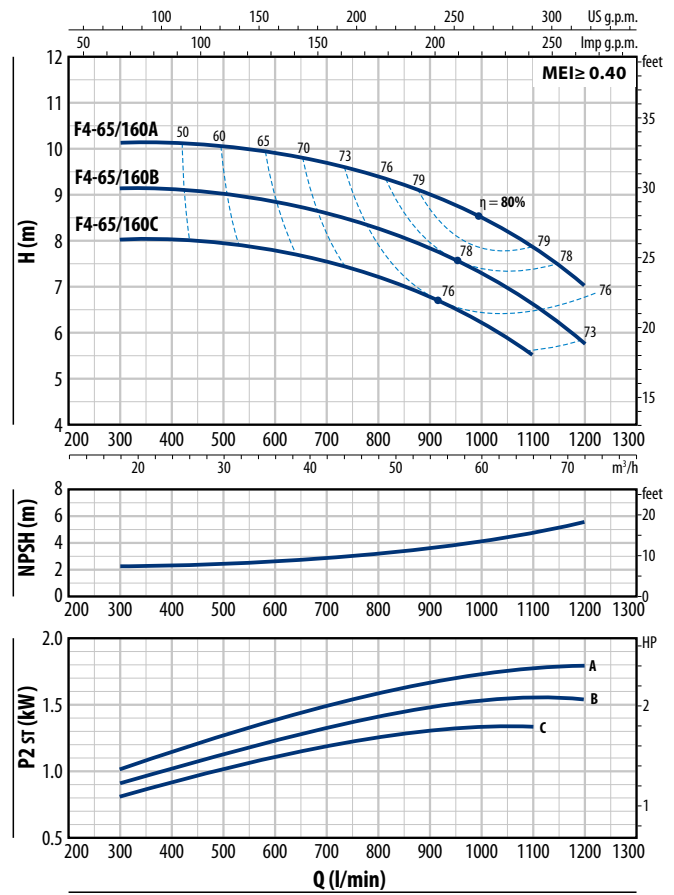
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

## F4-65/125



## F4-65/160



## F4-65/125

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	18	24	30	36	42	48	54	60	66	72	
Three-phase			l/min	300	400	500	600	700	800	900	1000	1100	1200		
F4-65/125B	0.75	1	H m		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	

## F4-65/160

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	18	24	30	36	42	48	54	60	66	72	
Three-phase			l/min	300	400	500	600	700	800	900	1000	1100	1200		
F4-65/160C	1.1	1.5	H m		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	

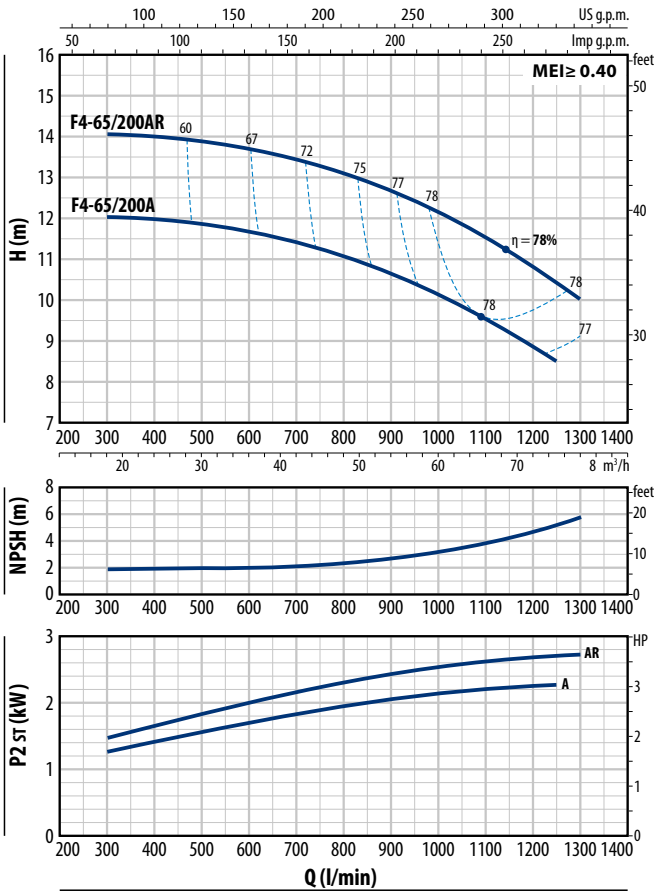
Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

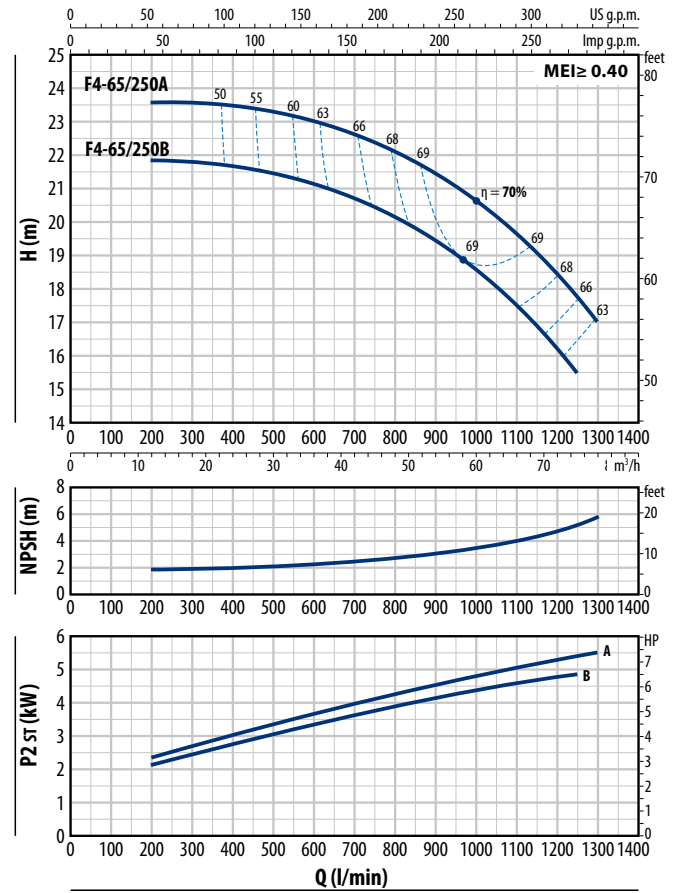
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

### F4-65/200



### F4-65/250



### F4-65/200

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

### F4-65/250

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate (m³/h)													
	kW	HP		12	18	24	30	36	42	48	54	60	66	72	75	78	
Three-phase			l/min	200	300	400	500	600	700	800	900	1000	1100	1200	1250	1300	
F4-65/250B	4	5.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

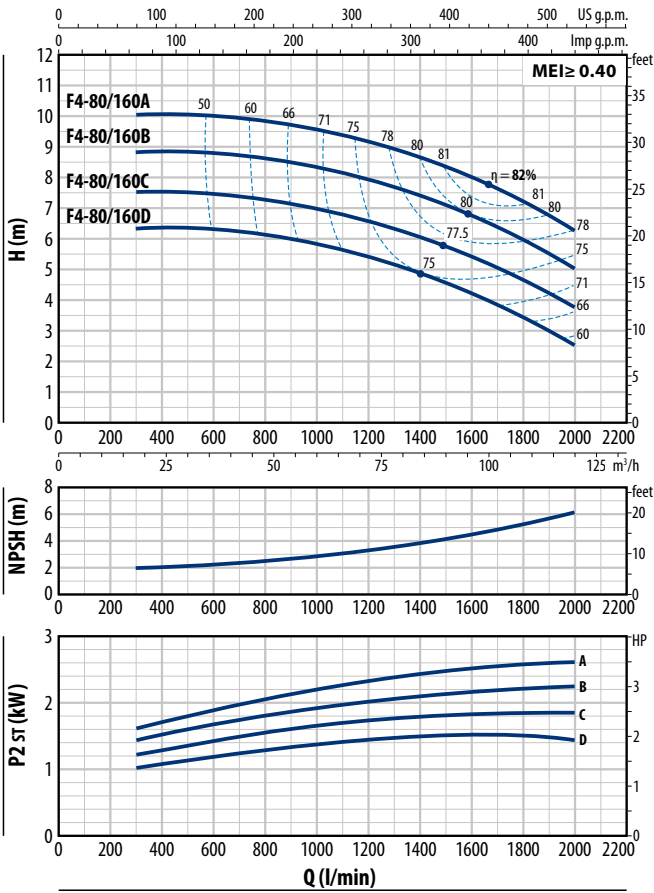
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-80

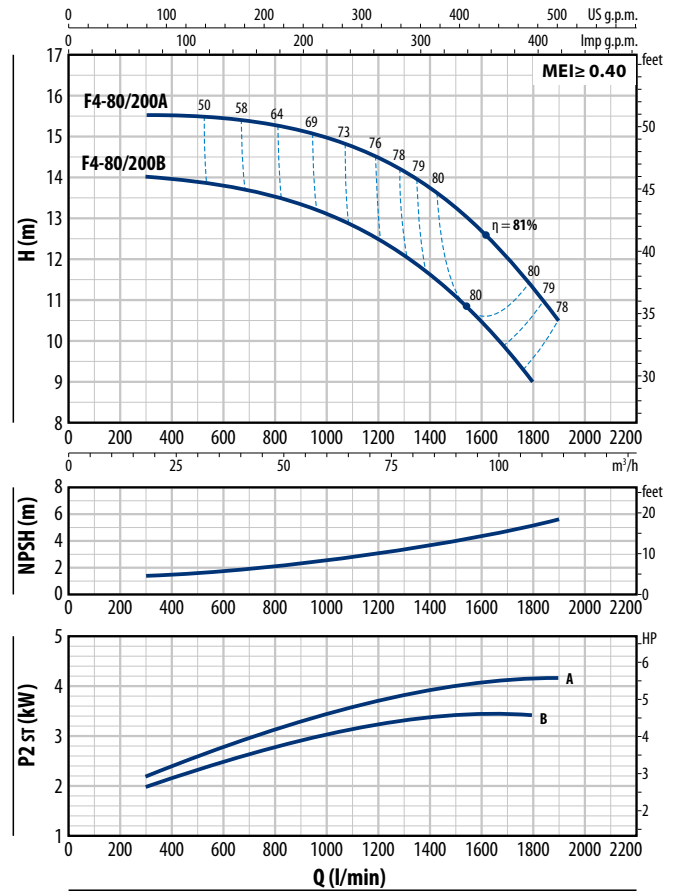
CURVE E DATI DI PRESTAZIONE – n = 1450 min<sup>-1</sup>

HS = 0 m 50 Hz

## F4-80/160



## F4-80/200



## F4-80/160

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	18	24	36	48	60	72	84	96	108	120	
Three-phase			l/min	300	400	600	800	1000	1200	1400	1600	1800	2000		
F4-80/160D	1.5	2	H m	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		

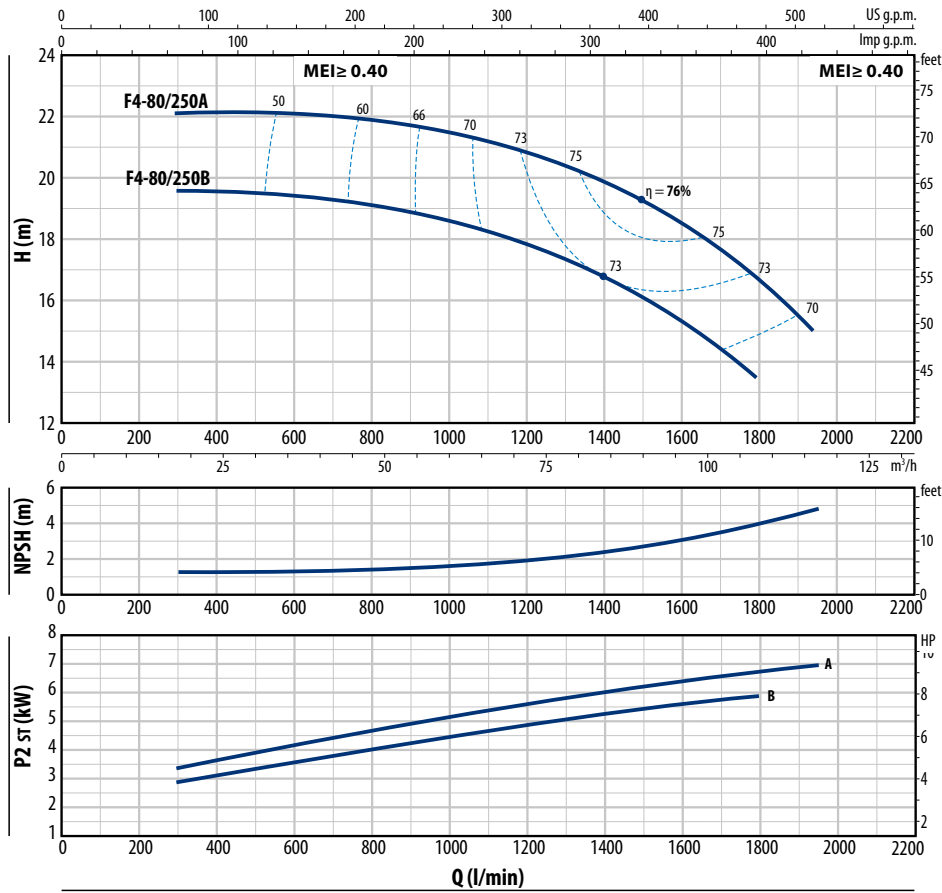
## F4-80/200

TYPE	POWER (P <sub>2</sub> )		Q	Flow rate										
	kW	HP		m <sup>3</sup> /h	18	24	36	48	60	72	84	96	108	114
Three-phase			l/min	300	400	600	800	1000	1200	1400	1600	1800	1900	
F4-80/200B	4	5.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

### F4-80/250



### F4-80/250

TYPE	POWER (P <sub>2</sub> )		Q	18	24	36	48	60	72	84	96	108	117
	kW	HP		300	400	600	800	1000	1200	1400	1600	1800	1950
F4-80/250B	5.5	7.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

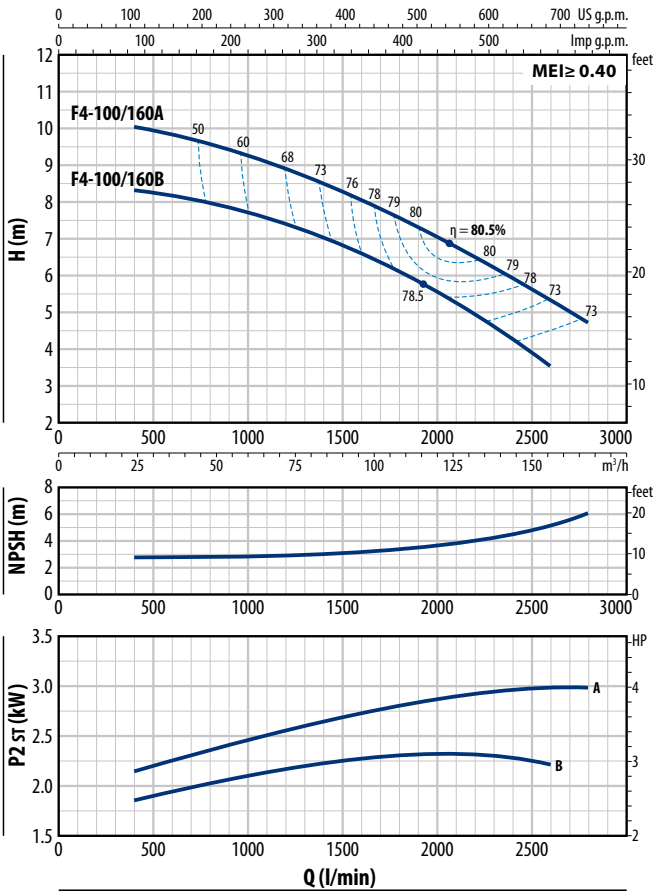
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

# F4-100

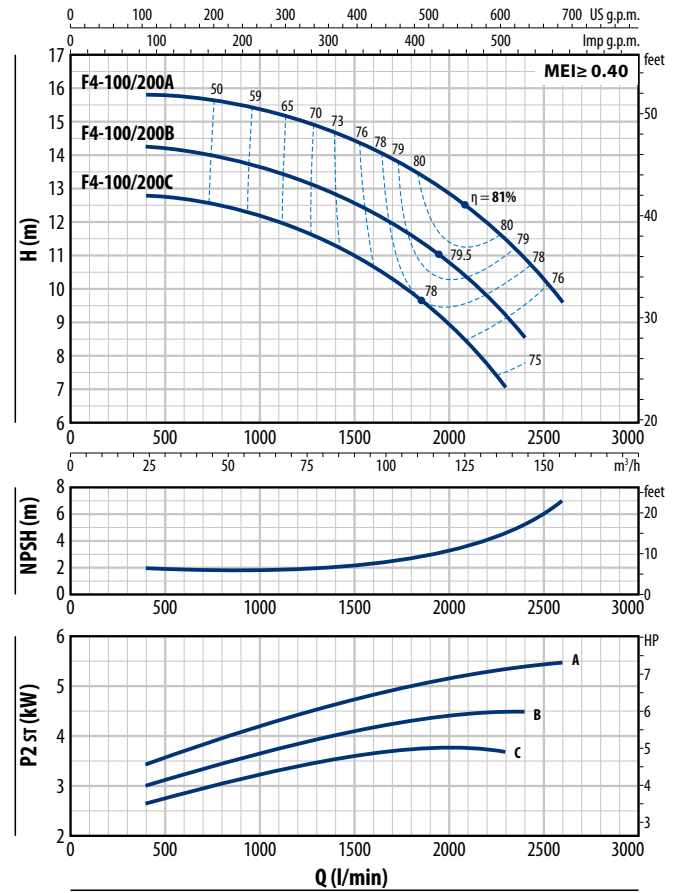
CURVE E DATI DI PRESTAZIONE – n= 1450 min<sup>-1</sup>

HS= 0 m 50 Hz

## F4-100/160



## F4-100/200



## F4-100/160

TYPE	POWER (P <sub>2</sub> )		Q	Flow Rate											
	kW	HP		m <sup>3</sup> /h	24	48	72	96	120	144	156	168			
Three-phase			l/min	<b>400</b>	<b>800</b>	<b>1200</b>	<b>1600</b>	<b>2000</b>	<b>2400</b>	<b>2600</b>	<b>2800</b>				
F4-100/160B	2.2	3	H m	8.3	8	7.5	6.5	5.5	4.2	3.5					
F4-100/160A	3	4		10	9.5	9	8	7	6	5.2	4.7				

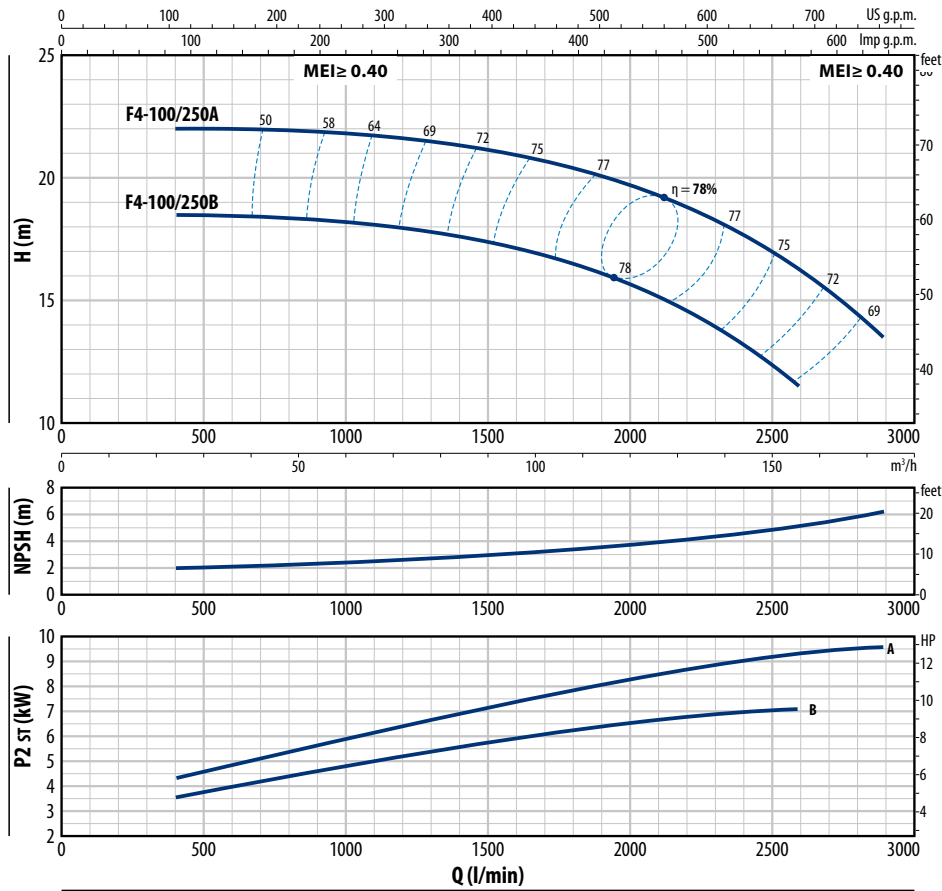
## F4-100/200

TYPE	POWER (P <sub>2</sub> )		Q	Flow Rate													
	kW	HP		m <sup>3</sup> /h	24	36	48	60	72	84	96	108	120	138	144	156	
Three-phase			l/min	<b>400</b>	<b>600</b>	<b>800</b>	<b>1000</b>	<b>1200</b>	<b>1400</b>	<b>1600</b>	<b>1800</b>	<b>2000</b>	<b>2300</b>	<b>2400</b>	<b>2600</b>		
F4-100/200C	4	5.5	H m	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 = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

### F4-100/250



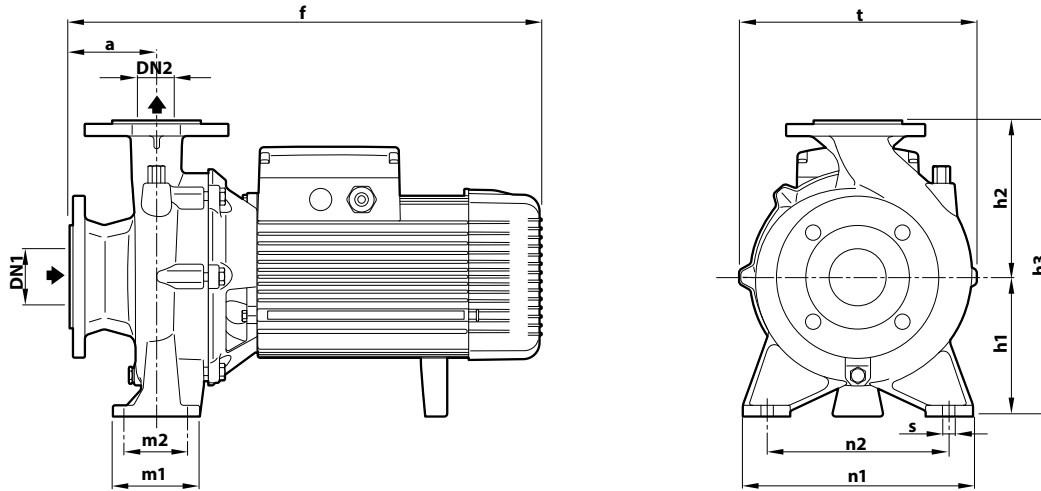
### F4-100/250

TYPE	POWER (P <sub>2</sub> )		Q	24	36	48	60	72	84	96	108	120	132	144	156	174
	kW	HP		m <sup>3</sup> /h	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	2600
Three-phase																
<b>F4-100/250B</b>	7.5	10	H m	18.5	18.5	18.3	18.2	18	17.5	17.1	16.5	15.7	14.5	13.2	11.5	
<b>F4-100/250A</b>	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 = Flow rate H = Total manometric head HS = Suction height

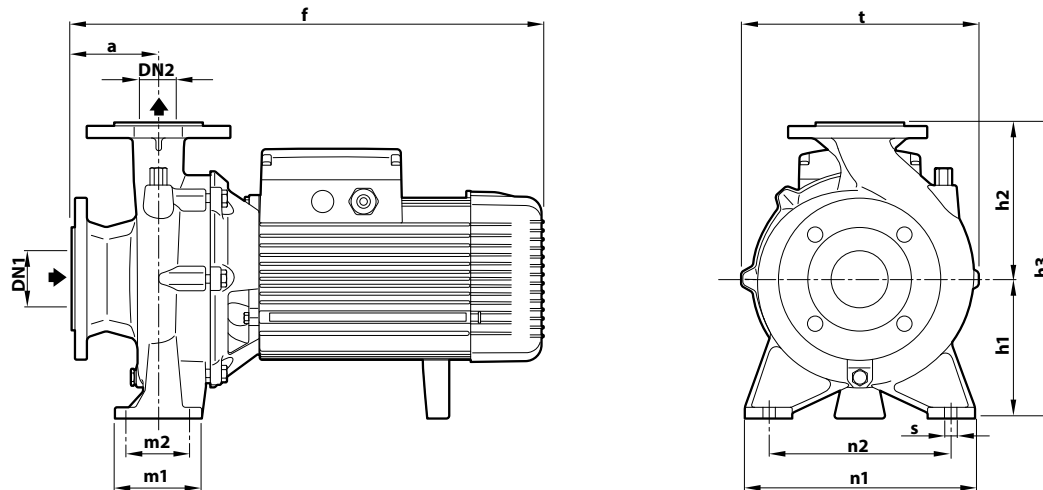
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

## DIMENSIONS AND WEIGHT



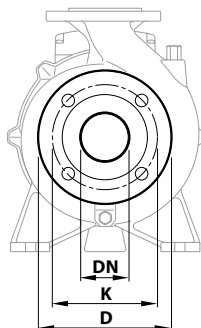
TYPE	PORTS		DIMENSIONS mm											kg							
	DN1	DN2	a	f	h3	h1	h2	t	n2	n1	m1	m2	s								
<b>Three-phase</b>																					
F4-32/160B	50	32	80	412	292	132	160	242	190	240	100	70	14	31.2							
F4-32/160A																				31.2	
F4-32/200B																					43.0
F4-32/200A							478	340						160	180	270			95		43.5
F4-32/200BH																					37.9
F4-32/200AH																42.4					
F4-32/250C					100	531	405	180	225	330	250	320		125	95		64.1				
F4-32/250B																	63.1				
F4-32/250A							581										68.7				
F4-40/160B			65	40	80	412	292	132	160	240	190	240		100	70	14	32.5				
F4-40/160A																		32.9			
F4-40/200B					100	498	340	160	180	275	212	265					46.0				
F4-40/200A																	46.2				
F4-40/250C							531	405	180	225	328	250	320	125	95			60.1			
F4-40/250B																		60.1			
F4-40/250A							581											72.4			
F4-50/125B	65	50	80	431	292	132	160	242	190	240	100	70	14	32.2							
F4-50/125A																			32.2		
F4-50/160B							498	340		180				269						44.4	
F4-50/160A					100	538		160			212	265					59.2				
F4-50/200C																	68.3				
F4-50/200B							589	360		200	316							68.5			
F4-50/200A																		68.8			
F4-50/200AR																		59.9			
F4-50/250D						531											63.3				
F4-50/250C					100												68.7				
F4-50/250B							405	180	225	337	250	320		125	95			69.1			
F4-50/250A							581											78.0			
F4-50/250AR																					
F4-65/125B			80	65	80	520	340		180	291	212	280		125	95	14	50.2				
F4-65/125A																					50.4
F4-65/160C					100	542		160									55.0				
F4-65/160B							360		200	300								58.7			
F4-65/160A							592											65.0			
F4-65/200A							595	405	180	225	340	250	320					72.0			
F4-65/200AR																		78.4			
F4-65/250B					100	680	450	200	250	373	280	360	160	120	18		111.2				
F4-65/250A																	139.6				

## DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm											kg
	DN1	DN2	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
<b>Three-phase</b>														
<b>F4-80/160D</b>	<b>100</b>	<b>80</b>	125	574	405	180	225	330	250	320	125	95	14	66.0
<b>F4-80/160C</b>				624										67.3
<b>F4-80/160B</b>				624	70.0									
<b>F4-80/160A</b>				624	76.4									
<b>F4-80/200B</b>				709	100.0									
<b>F4-80/200A</b>				709	130.2									
<b>F4-80/250B</b>				727	123.0									
<b>F4-80/250A</b>				727	137.6									
<b>F4-100/160B</b>	<b>125</b>	<b>100</b>	125	638	480	200	280	362	280	360	160	120	18	96.2
<b>F4-100/160A</b>				711										97.0
<b>F4-100/200C</b>				711	124.1									
<b>F4-100/200B</b>				711	116.0									
<b>F4-100/200A</b>				711	122.0									
<b>F4-100/250B</b>				747	143.0									
<b>F4-100/250A</b>				747	156.0									

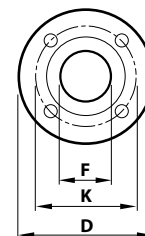
## PORT FLANGES



DN FLANGE	D	K	HOLES	
mm	mm	mm	N°	Ø (mm)
<b>32</b>	140	100	4	18
<b>40</b>	150	110		
<b>50</b>	165	125		
<b>65</b>	185	145		
<b>80</b>	200	160	8	18
<b>100</b>	220	180		
<b>125</b>	250	210		

## COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)



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

## ABSORPTION

TYPE	VOLTAGE	
	230 V - $\Delta$	400 V - $\text{Y}$
<b>Three-phase</b>		
<b>F4-32/160B</b>	1.9 A	1.1 A
<b>F4-32/160A</b>	2.2 A	1.3 A
<b>F4-32/200B</b>	3.6 A	2.1 A
<b>F4-32/200A</b>	4.0 A	2.3 A
<b>F4-32/200BH</b>	3.3 A	1.9 A
<b>F4-32/200AH</b>	3.5 A	2.0 A
<b>F4-32/250C</b>	5.7 A	3.3 A
<b>F4-32/250B</b>	7.3 A	4.2 A
<b>F4-32/250A</b>	9.5 A	5.5 A
<b>F4-40/160B</b>	1.7 A	1.0 A
<b>F4-40/160A</b>	2.8 A	1.6 A
<b>F4-40/200B</b>	3.6 A	2.1 A
<b>F4-40/200A</b>	4.2 A	2.4 A
<b>F4-40/250C</b>	5.5 A	3.2 A
<b>F4-40/250B</b>	6.1 A	3.5 A
<b>F4-40/250A</b>	9.5 A	5.5 A
<b>F4-50/125B</b>	2.2 A	1.3 A
<b>F4-50/125A</b>	2.6 A	1.5 A
<b>F4-50/160B</b>	3.3 A	1.9 A
<b>F4-50/160A</b>	4.2 A	2.4 A
<b>F4-50/200C</b>	6.1 A	3.5 A
<b>F4-50/200B</b>	8.0 A	4.6 A
<b>F4-50/200A</b>	9.0 A	5.2 A
<b>F4-50/200AR</b>	10.6 A	6.1 A
<b>F4-50/250D</b>	4.8 A	2.8 A
<b>F4-50/250C</b>	5.9 A	3.4 A
<b>F4-50/250B</b>	9.9 A	5.7 A
<b>F4-50/250A</b>	11.1 A	6.4 A
<b>F4-50/250AR</b>	11.8 A	6.8 A
<b>F4-65/125B</b>	3.6 A	2.1 A
<b>F4-65/125A</b>	4.5 A	2.6 A
<b>F4-65/160C</b>	5.2 A	3.0 A
<b>F4-65/160B</b>	5.9 A	3.4 A
<b>F4-65/160A</b>	7.8 A	4.5 A

TYPE	VOLTAGE	
	230 V - $\Delta$	400 V - $\text{Y}$
<b>Three-phase</b>		
<b>F4-65/200A</b>	9.0 A	5.2 A
<b>F4-65/200AR</b>	11.8 A	6.8 A
<b>F4-65/250B</b>	17.3 A	10.0 A
<b>F4-65/250A</b>	21.7 A	13.5 A
<b>F4-80/160D</b>	5.9 A	3.4 A
<b>F4-80/160C</b>	10.0 A	5.8 A
<b>F4-80/160B</b>	10.2 A	5.9 A
<b>F4-80/160A</b>	10.6 A	6.1 A
<b>F4-80/200B</b>	13.8 A	8.0 A
<b>F4-80/200A</b>	18.2 A	10.5 A
<b>F4-80/250B</b>	20.8 A	12.5 A
<b>F4-80/250A</b>	25.6 A	14.8 A
<b>F4-100/160B</b>	9.0 A	5.2 A
<b>F4-100/160A</b>	13.0 A	7.5 A
<b>F4-100/200C</b>	14.2 A	8.2 A
<b>F4-100/200B</b>	17.8 A	10.3 A
<b>F4-100/200A</b>	20.8 A	12.0 A
<b>F4-100/250B</b>	26.8 A	15.5 A
<b>F4-100/250A</b>	34.1 A	19.7 A

## MATERIALS AND COMPONENTS

<b>1 Pump body</b>	Cast iron, fitted with inlet and outlet flanged ports			
<b>2 Cover</b>	Cast iron			
<b>3 Impeller</b>	Brass	for F4-32/160 - 32/200 - 40/160 - 40/200 - 50/125 - 50/160		
	Cast iron	for F4-32/250 - 40/250 - 50/200 - 50/250 - 65/125 - 65/160 - 65/200 - 65/250 F4-80/160 - 80/200 - 80/250 - 100/160 - 100/200 - 100/250		
<b>4 Mechanical seal</b>	Water pump	Seal	Shaft	Materials
	F4-32/160	<b>FN-20</b>	Ø 20 mm	Graphite / Ceramic / NBR
	F4-40/160			
	F4-50/125			
	F4-32/200	<b>FN-24</b>	Ø 24 mm	Graphite / Ceramic / NBR
	F4-40/200			
	F4-50/160			
	F4-65/125	<b>FN-32 NU</b>	Ø 32 mm	Graphite / Ceramic / NBR
	F4-50/200			
	F4-65/200			
	F4-80/160	<b>FN-38</b>	Ø 38 mm	Graphite / Ceramic / NBR
	F4-100/160			
	F4-32/250			
	F4-40/250	<b>FN-40 NU</b>	Ø 40 mm	Graphite / Ceramic / NBR
F4-50/250				
F4-65/250				
F4-80/200	<b>FN-45 NU</b>	Ø 45 mm	Graphite / Ceramic / NBR	
F4-100/200				
F4-80/250				
F4-100/250				
<b>5 Motor shaft</b>	Stainless steel <b>AISI 431</b>			
<b>6 Electric motor</b>	<b>F4:</b> 4-pole three-phase 230/400 V - 50 Hz			
	※ The pumps are equipped with high-efficiency motors (IEC 60034-30-1) class <b>IE3</b> Continuous running duty <b>S1</b>			

