Clean water

Industrial use

PERFORMANCE RANGE

- Flow rate up to **2900 l/min** (174 m³/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

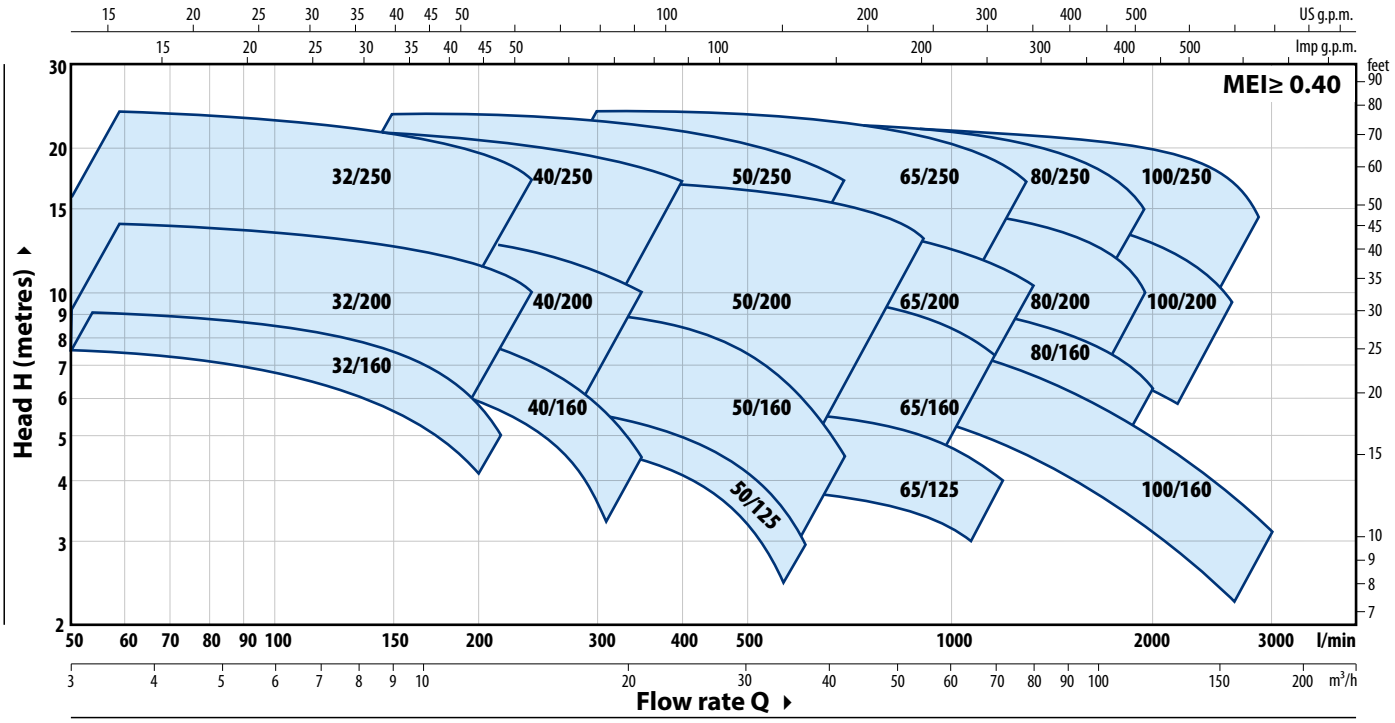
- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum pressure in the pump body **10 bar (PN10)**

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^{-1} 50 Hz



PERFORMANCE DATA – n= 1450 min^{-1} 50 Hz

TYPE	POWER (P2)		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 (P2)		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

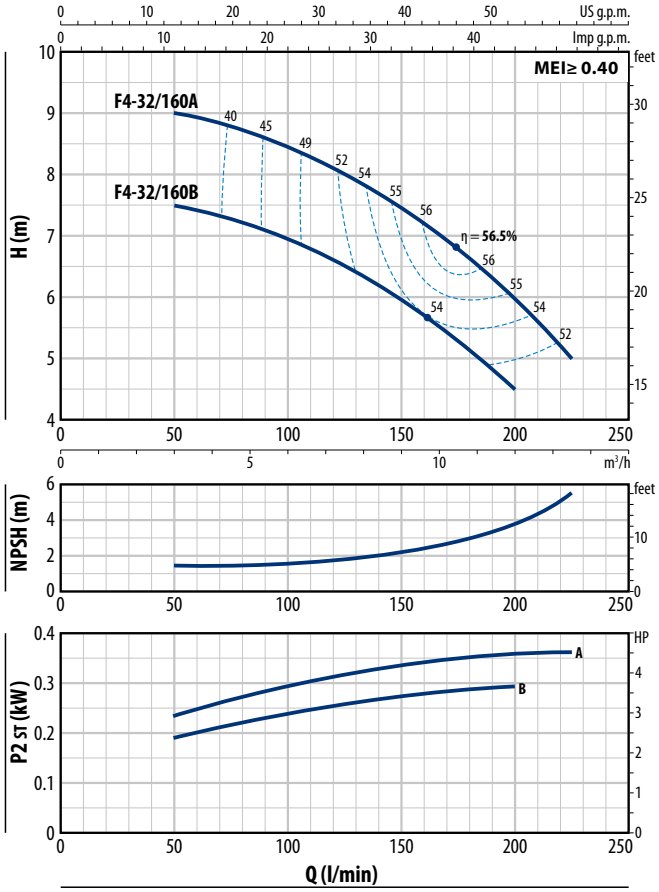
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F4-32

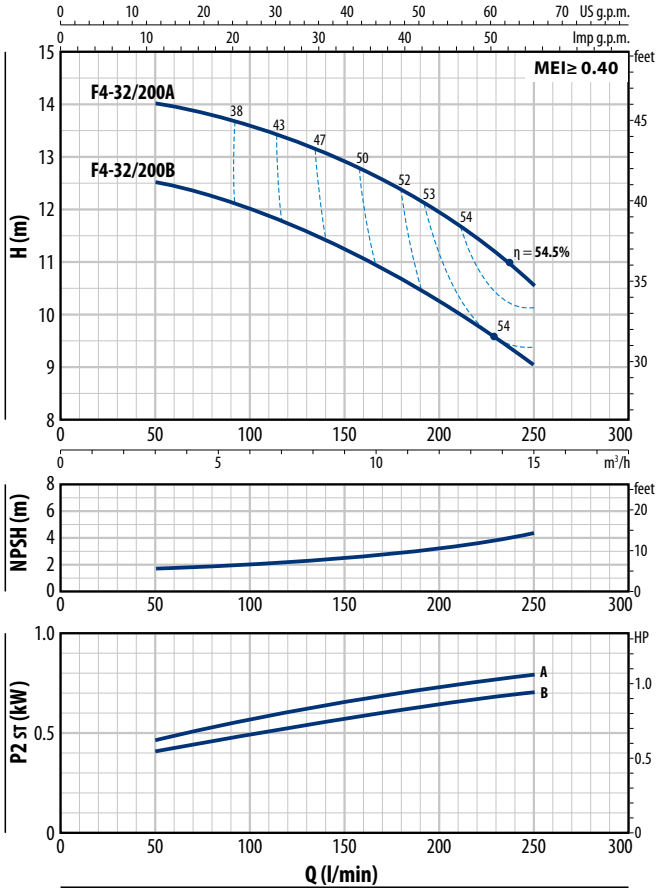
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-32/160



F4-32/200



F4-32/160

TYPE	POWER (P2)		Q m³/h	3	4.5	6	7.5	9	10.8	12	13.5
Three-phase	kW	HP	l/min	**50**	**75**	**100**	**125**	**150**	**180**	**200**	**225**
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 (P2)		Q m³/h	3	6	9	12	15
Three-phase	kW	HP	l/min	**50**	**100**	**150**	**200**	**250**
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

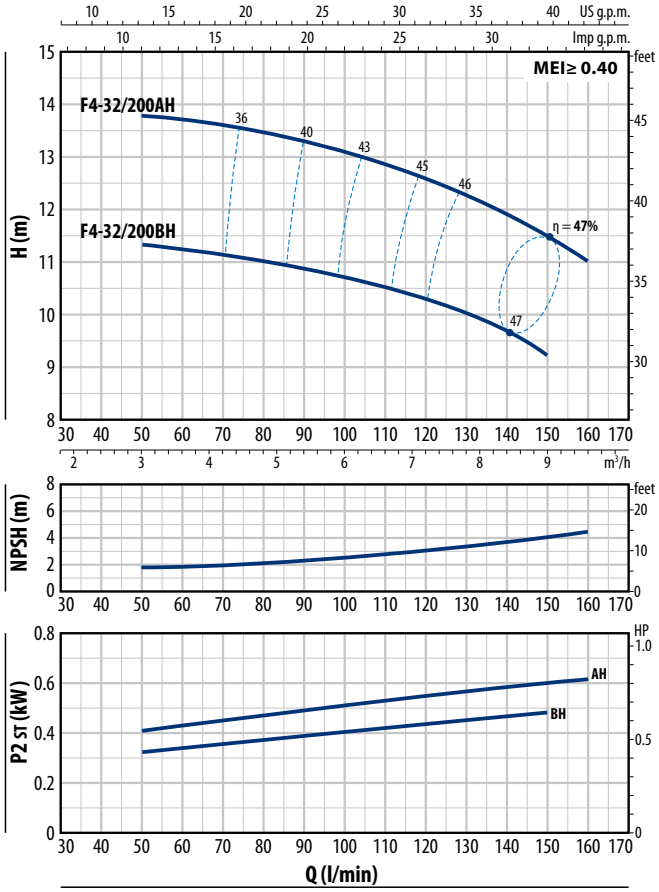
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

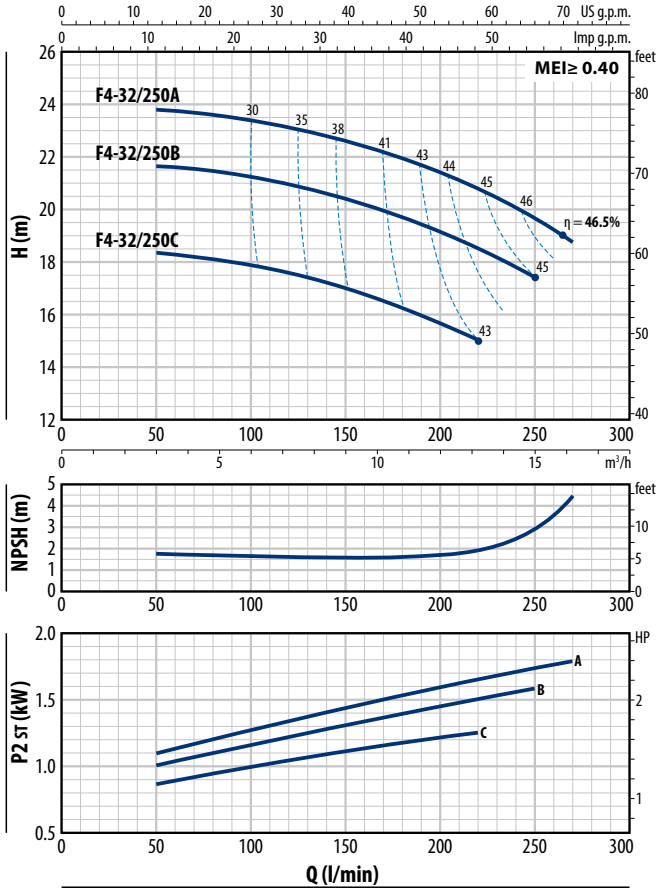
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-32/200H



F4-32/250



F4-32/200H

TYPE	POWER (P2)		Q m³/h	3	4.2	5.4	6.6	7.8	9	9.6
Three-phase	kW	HP	l/min	**50**	**70**	**90**	**110**	**130**	**150**	**160**
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 (P2)		Q m³/h	3	4.5	6	7.5	9	10.5	13.2	15	16.2
Three-phase	kW	HP	l/min	**50**	**75**	**100**	**125**	**150**	**175**	**220**	**250**	**270**
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

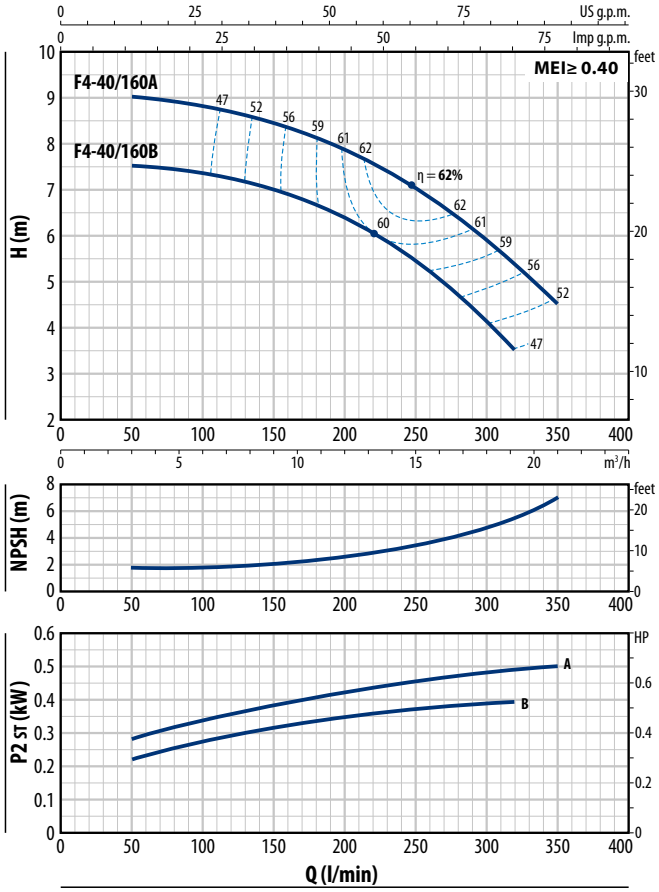
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F4-40

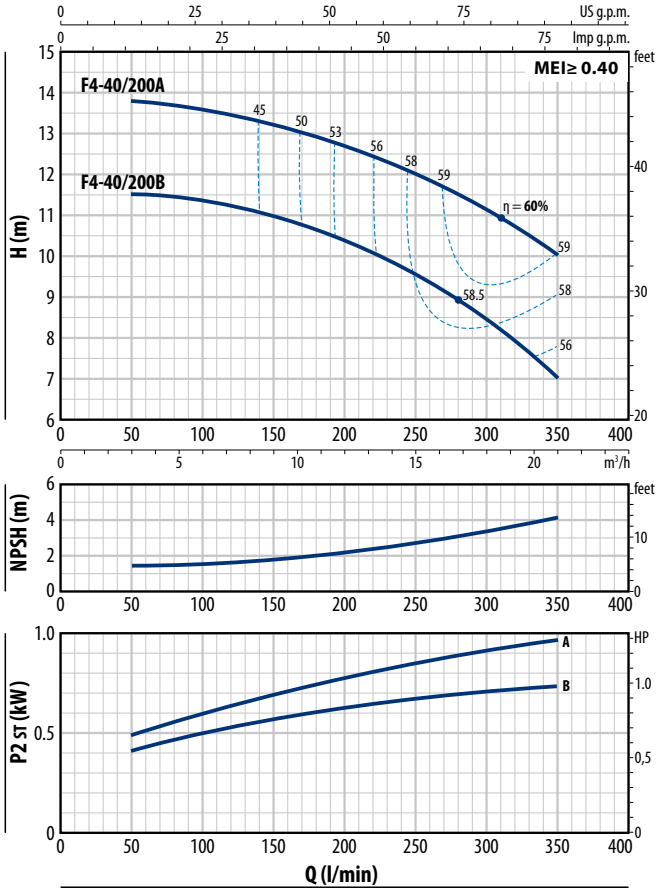
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-40/160



F4-40/200



F4-40/160

TYPE	POWER (P2)		Q m³/h	3	6	9	12	15	18	19.2	21
Three-phase	kW	HP	l/min	**50**	**100**	**150**	**200**	**250**	**300**	**320**	**350**
F4-40/160B	0.37	0.5	H m	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

F4-40/200

TYPE	POWER (P2)		Q m³/h	3	6	9	12	15	18	21
Three-phase	kW	HP	l/min	**50**	**100**	**150**	**200**	**250**	**300**	**350**
F4-40/200B	0.75	1	H m	11.5	11.4	11	10.4	9.5	8.5	7
F4-40/200A	1.1	1.5		13.8	13.6	13.2	12.7	12	11.1	10

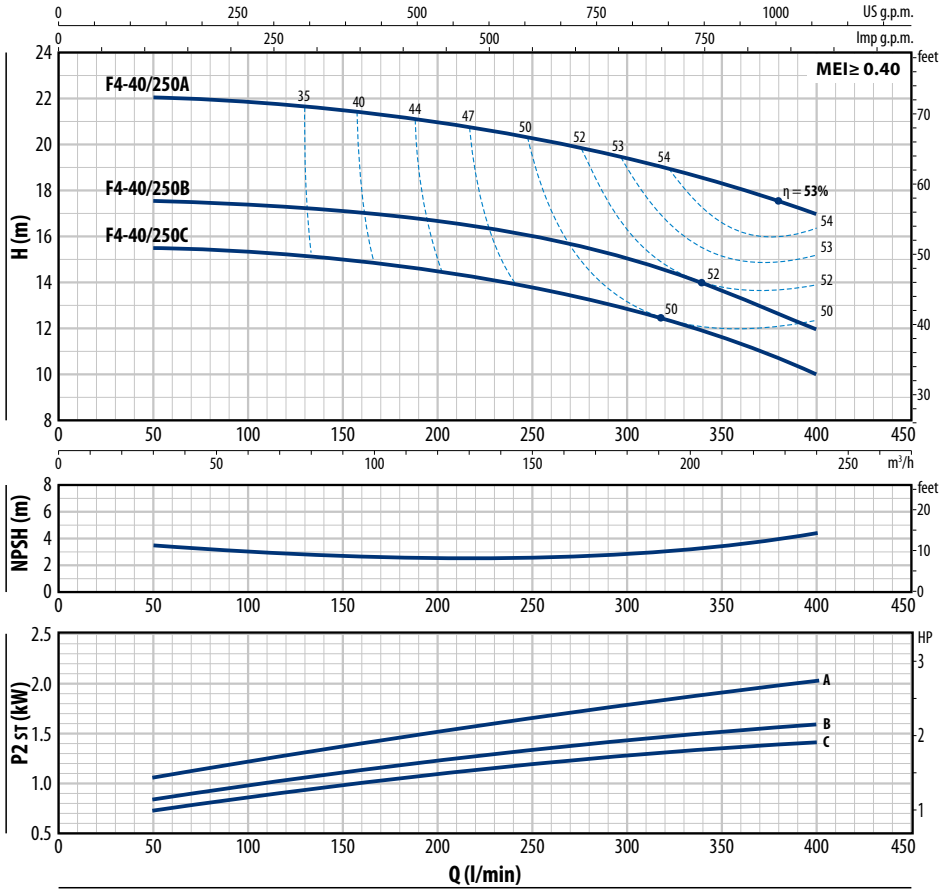
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-40/250



F4-40/250

TYPE	POWER (P2)		Q m³/h	3	6	9	12	15	18	21	24
Three-phase	kW	HP	l/min	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
F4-40/250C	1.1	1.5		15.5	15.2	15	14.5	13.6	12.9	11.5	10
F4-40/250B	1.5	2	**H** m	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

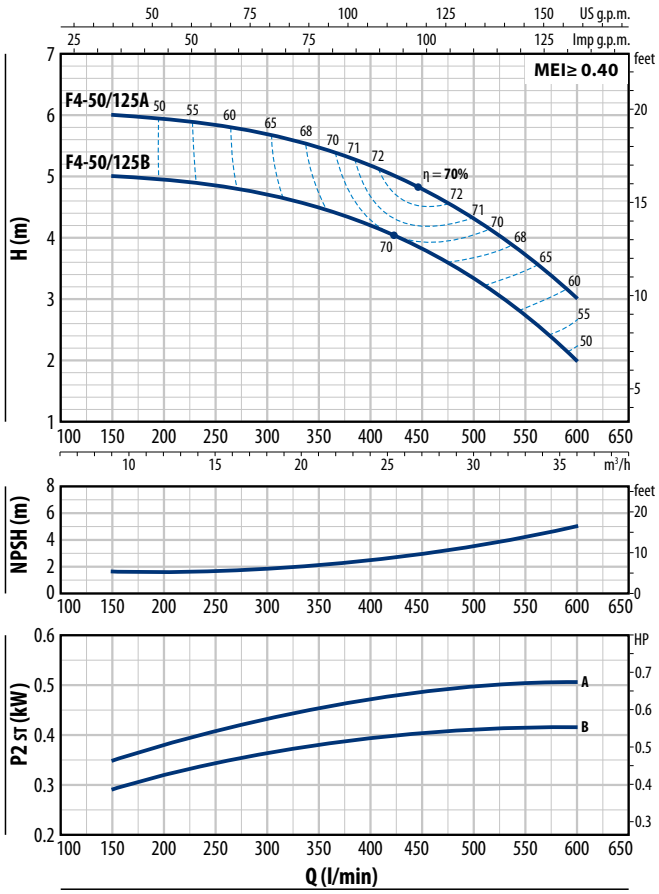
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F4-50

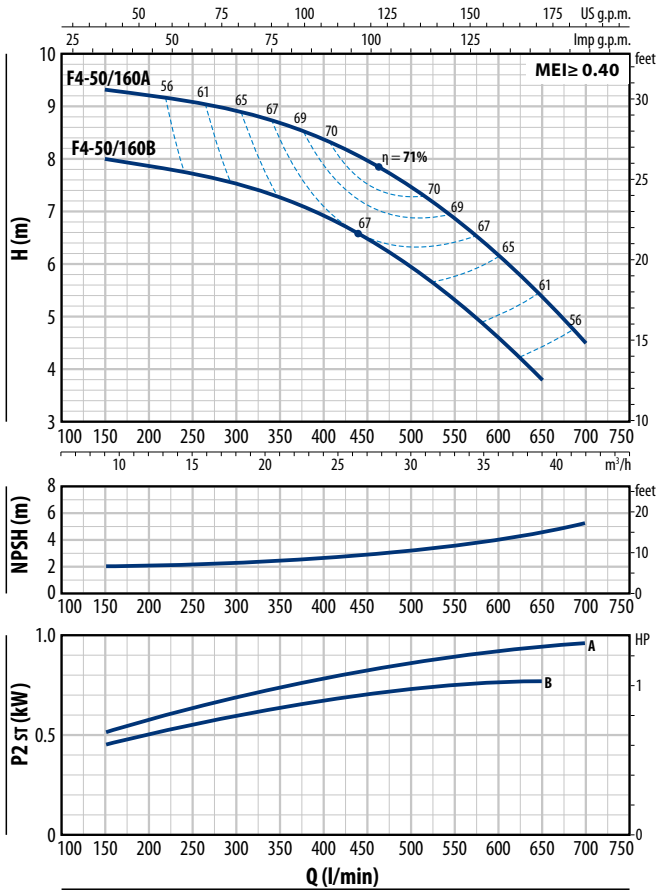
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-50/125



F4-50/160



F4-50/125

TYPE	POWER (P2)		Q m³/h	9	12	15	17	21	24	27	30	33	36
Three-phase	kW	HP	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 (P2)		Q m³/h	9	12	15	17	21	24	27	30	33	36	39	42
Three-phase	kW	HP	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

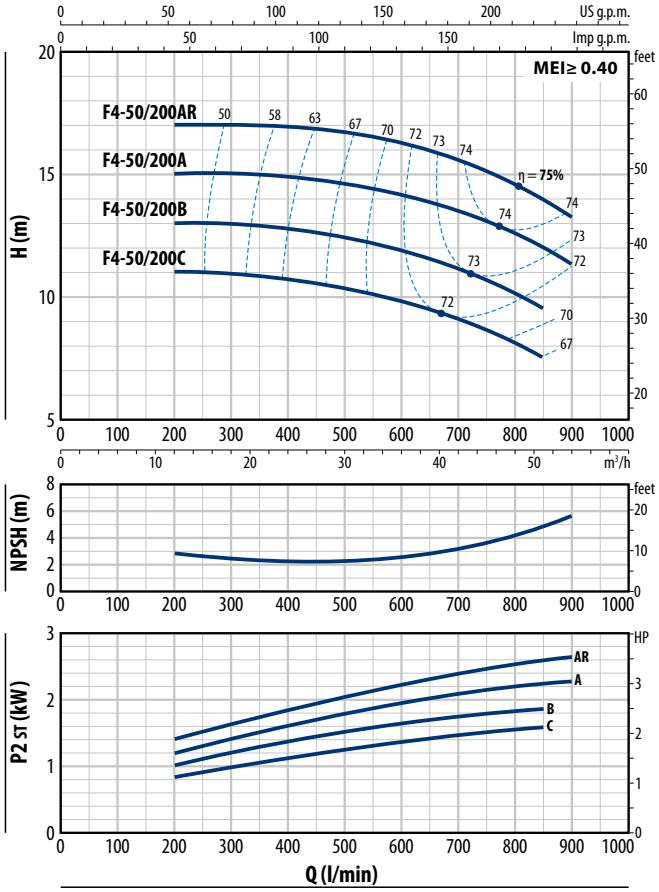
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

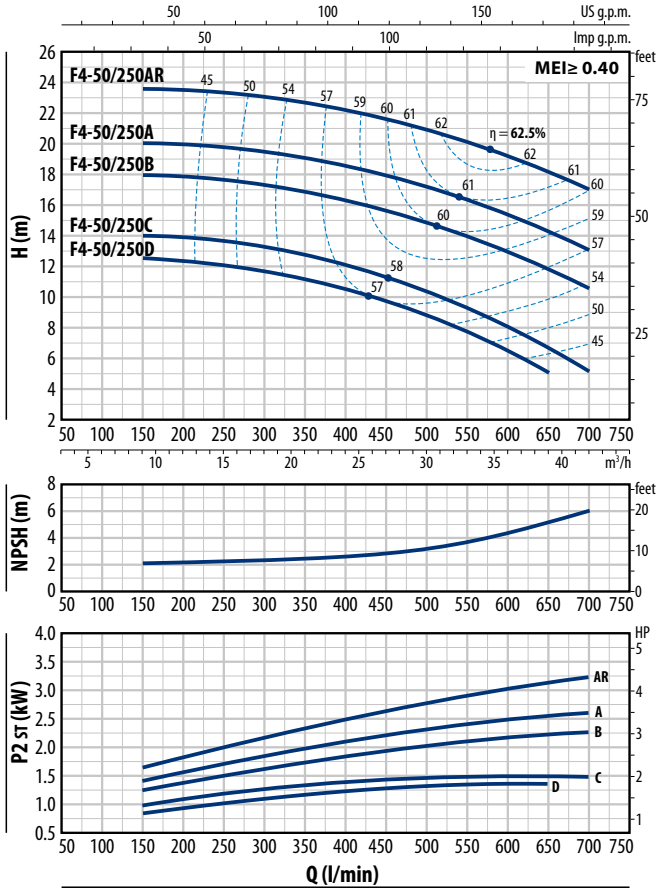
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-50/200



F4-50/250



F4-50/200

TYPE	POWER (P2)		Q m³/h	12	17	24	30	36	42	48	51	54
Three-phase	kW	HP	l/min	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**850**	**900**
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 (P2)		Q m³/h	9	12	15	18	21	24	27	30	33	36	39	42
Three-phase	kW	HP	l/min	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**550**	**600**	**650**	**700**
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

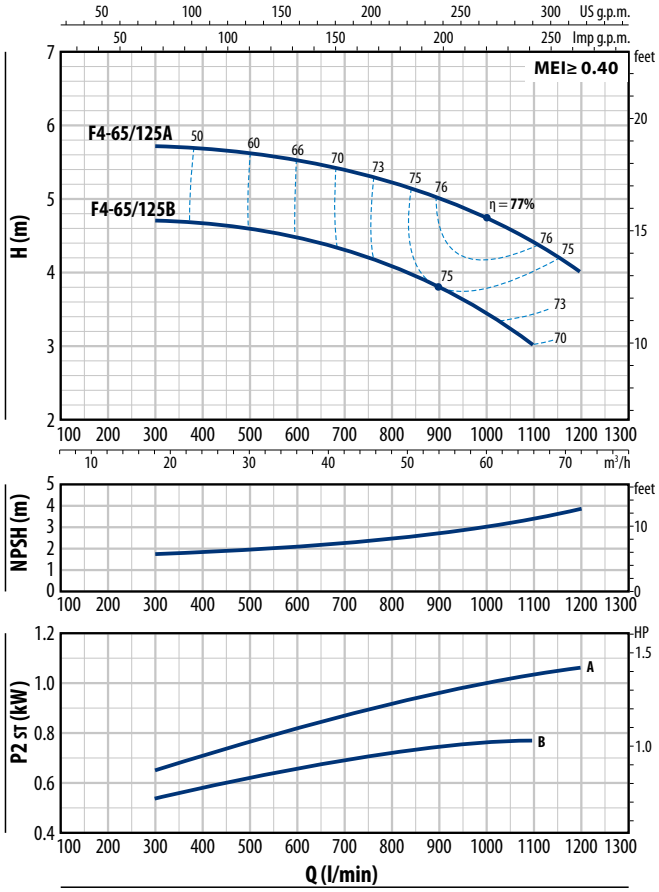
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F4-65

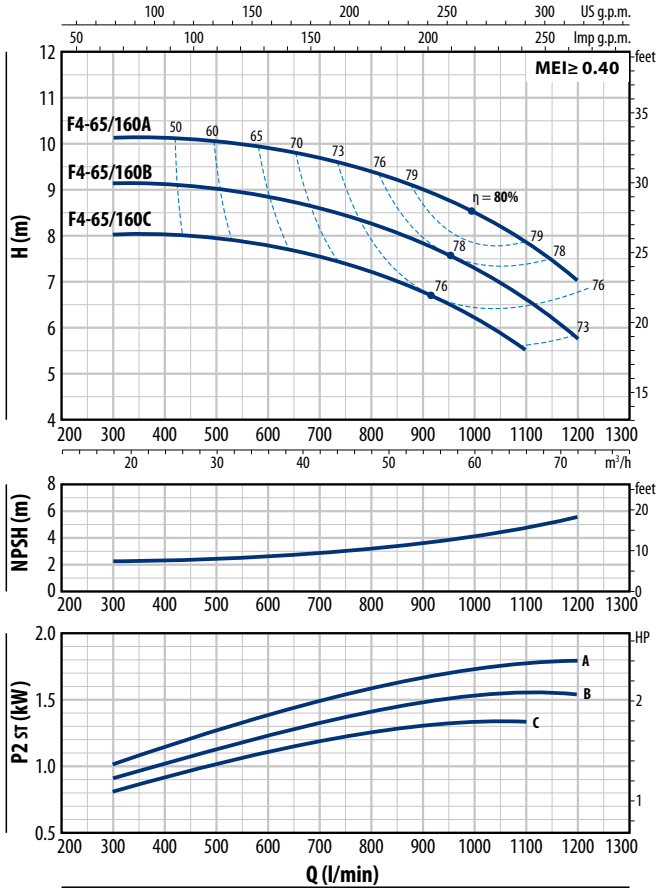
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-65/125



F4-65/160



F4-65/125

TYPE	POWER (P2)		Q m³/h	18	24	30	36	42	48	54	60	66	72
Three-phase	kW	HP	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 (P2)		Q m³/h	18	24	30	36	42	48	54	60	66	72
Three-phase	kW	HP	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

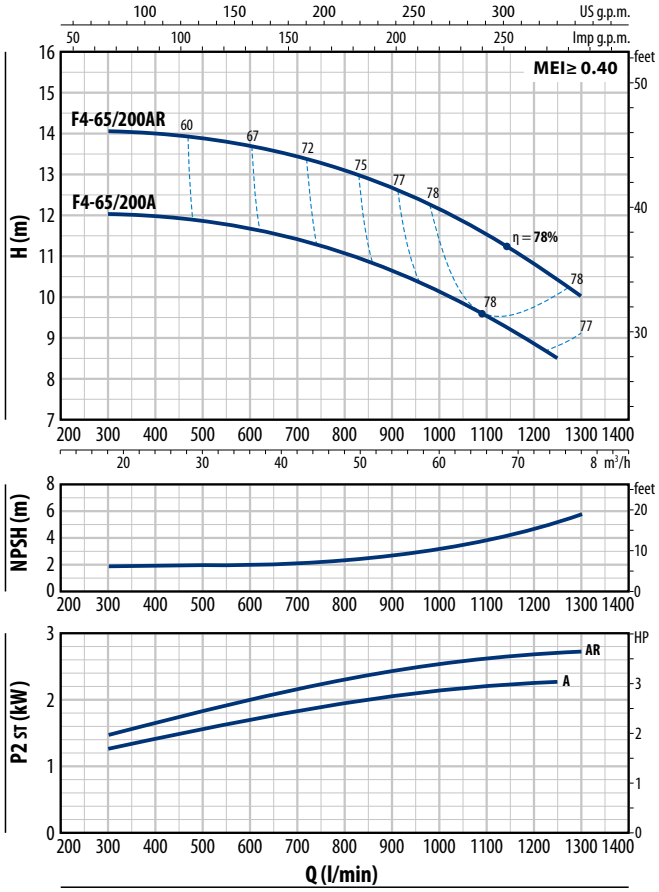
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

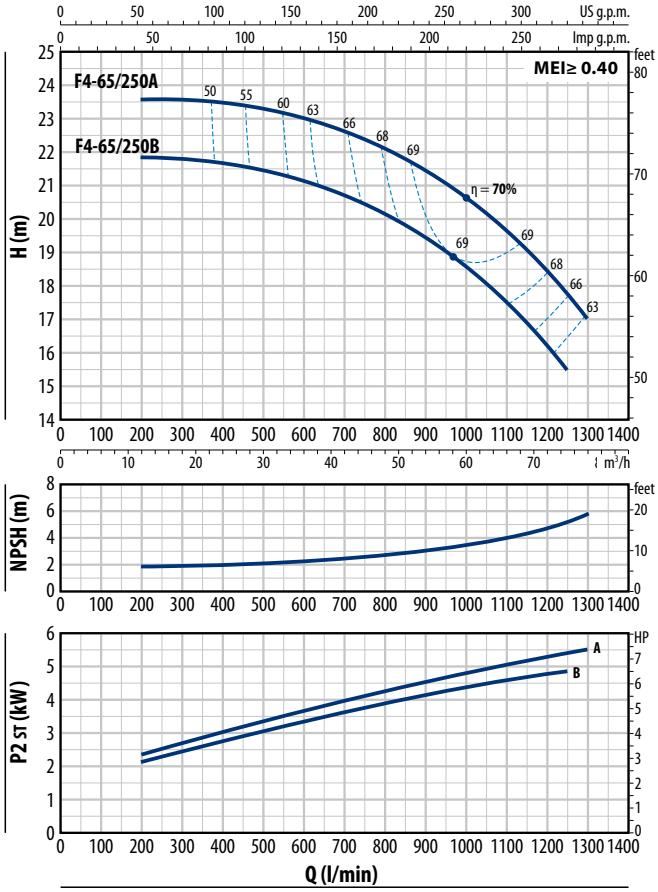
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-65/200



F4-65/250



F4-65/200

TYPE	POWER (P2)		Q m³/h	18	24	30	36	42	48	54	60	66	72	75	78
Three-phase	kW	HP	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 (P2)		Q m³/h	12	18	24	30	36	42	48	54	60	66	72	75	78
Three-phase	kW	HP	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

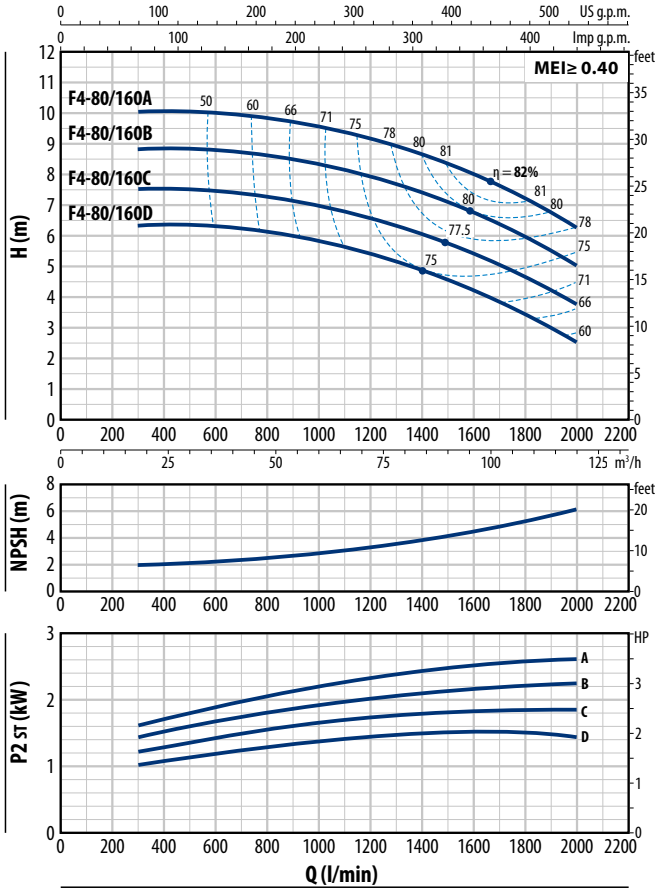
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

F4-80

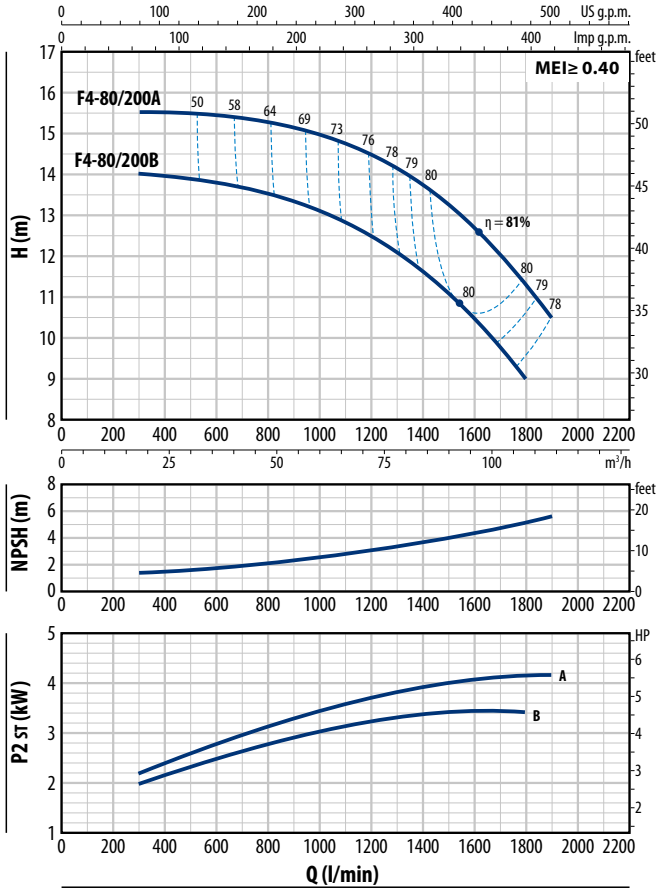
CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-80/160



F4-80/200



F4-80/160

TYPE	POWER (P2)		Q	m³/h	18	24	36	48	60	72	84	96	108	120
Three-phase	kW	HP		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 (P2)		Q	m³/h	18	24	36	48	60	72	84	96	108	114
Three-phase	kW	HP		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

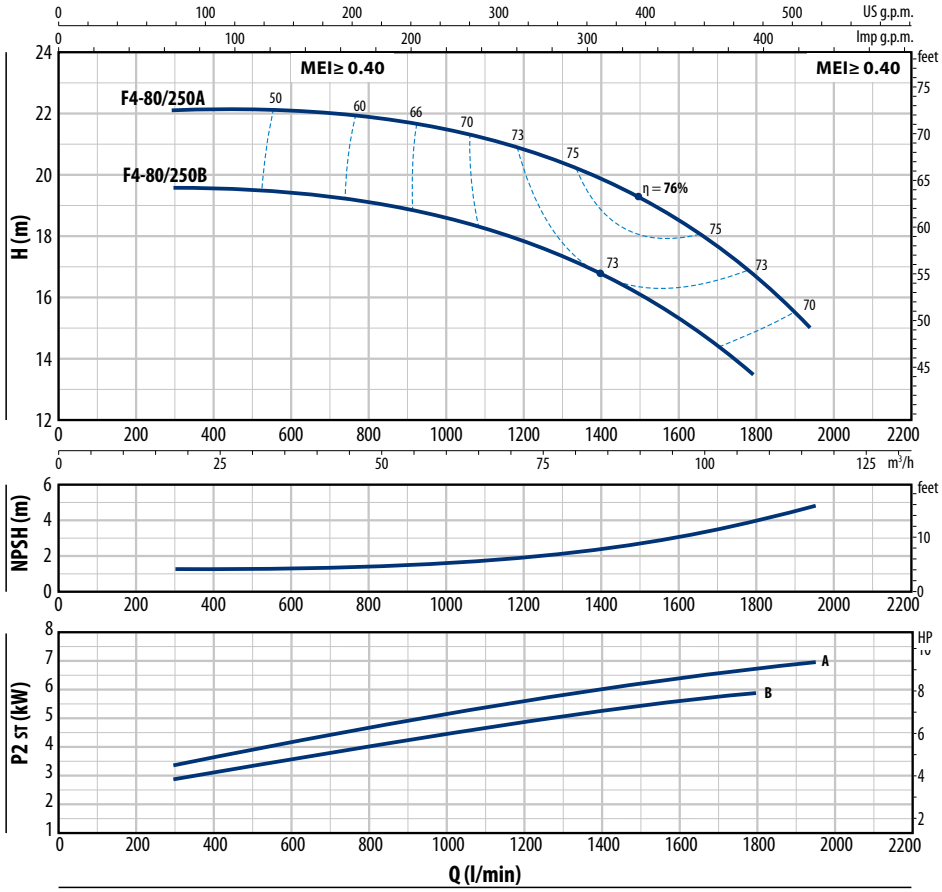
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-80/250



F4-80/250

TYPE	POWER (P2)		Q	m³/h	18	24	36	48	60	72	84	96	108	117
Three-phase	kW	HP		l/min	**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

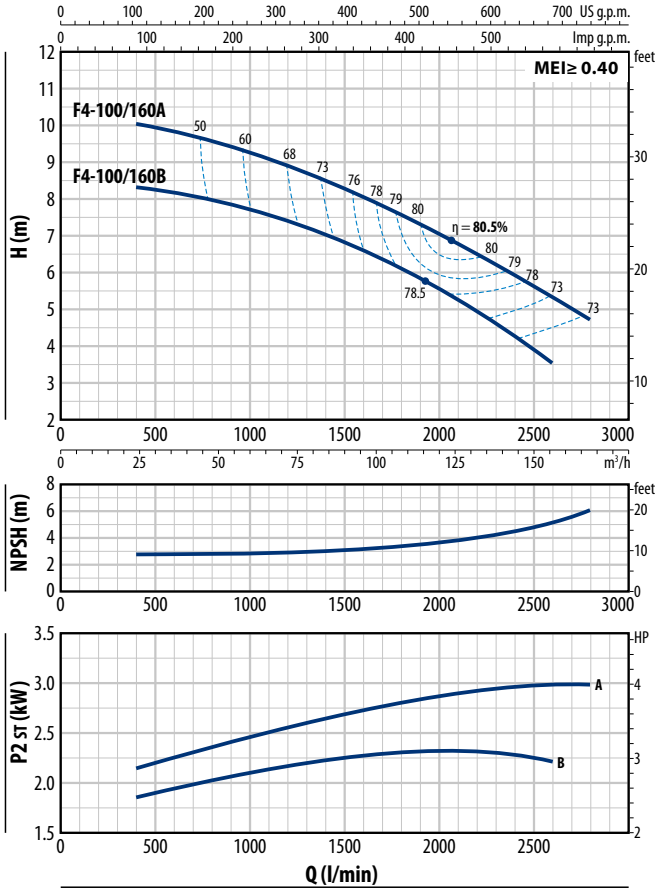
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

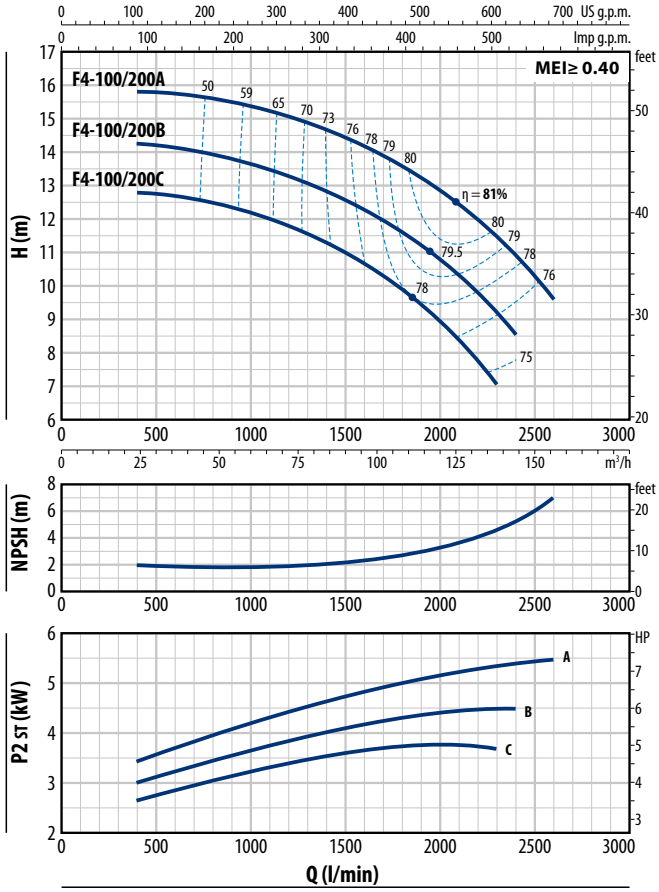
F4-100

CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1} **HS= 0 m** **50 Hz**

F4-100/160



F4-100/200



F4-100/160

TYPE	POWER (P2)		Q m³/h	24	48	72	96	120	144	156	168
Three-phase	kW	HP	l/min	**400**	**800**	**1200**	**1600**	**2000**	**2400**	**2600**	**2800**
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 (P2)		Q m³/h	24	36	48	60	72	84	96	108	120	138	144	156
Three-phase	kW	HP	l/min	**400**	**600**	**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**	**2300**	**2400**	**2600**
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

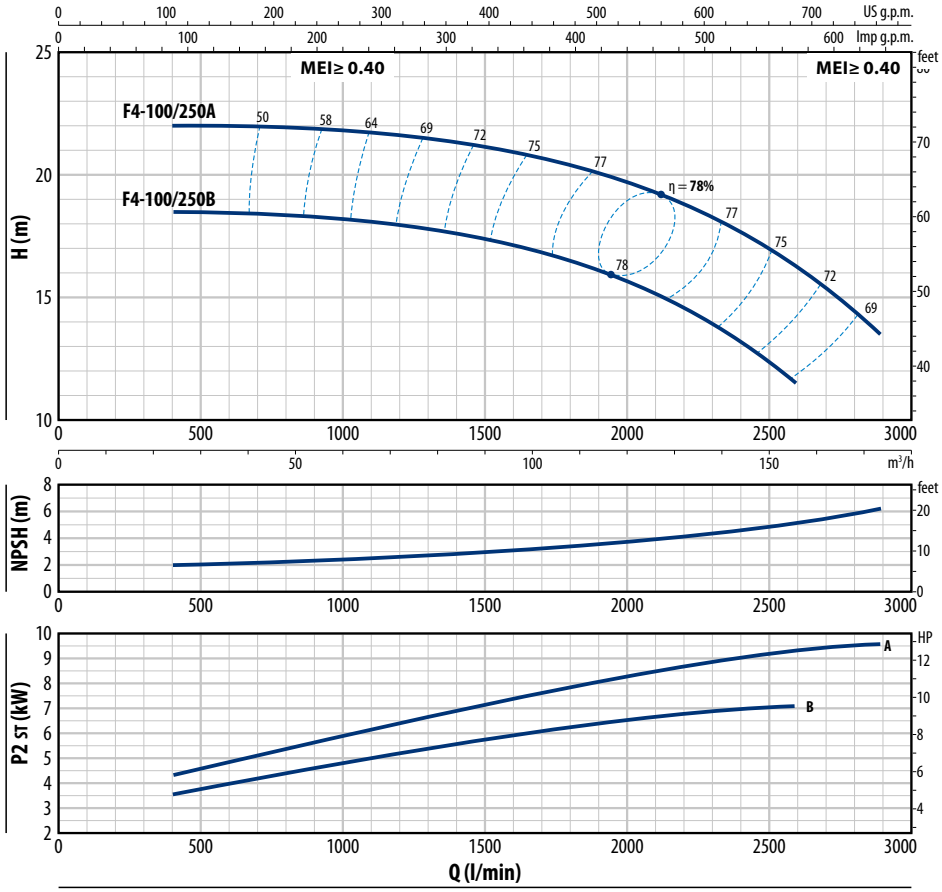
Q = Flow rate **H** = Total manometric head **HS** = Suction height

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

CURVE E DATI DI PRESTAZIONE – n= 1450 min^{-1}

HS= 0 m **50 Hz**

F4-100/250



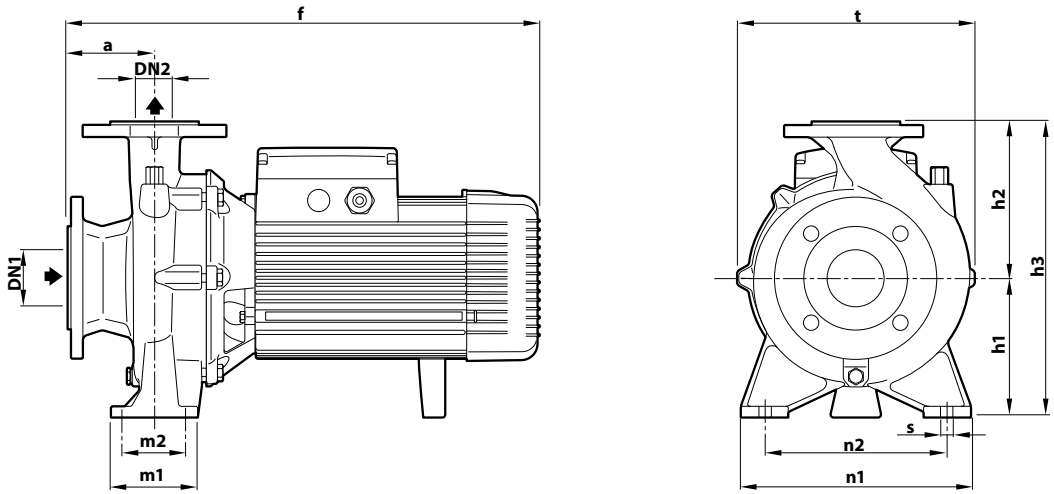
F4-100/250

TYPE	POWER (P2)		Q m³/h	24	36	48	60	72	84	96	108	120	132	144	156	174
Three-phase	kW	HP	Q l/min	**400**	**600**	**800**	**1000**	**1200**	**1400**	**1600**	**1800**	**2000**	**2200**	**2400**	**2600**	**2900**
F4-100/250B	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	
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 = Flow rate **H** = Total manometric head **HS** = Suction height

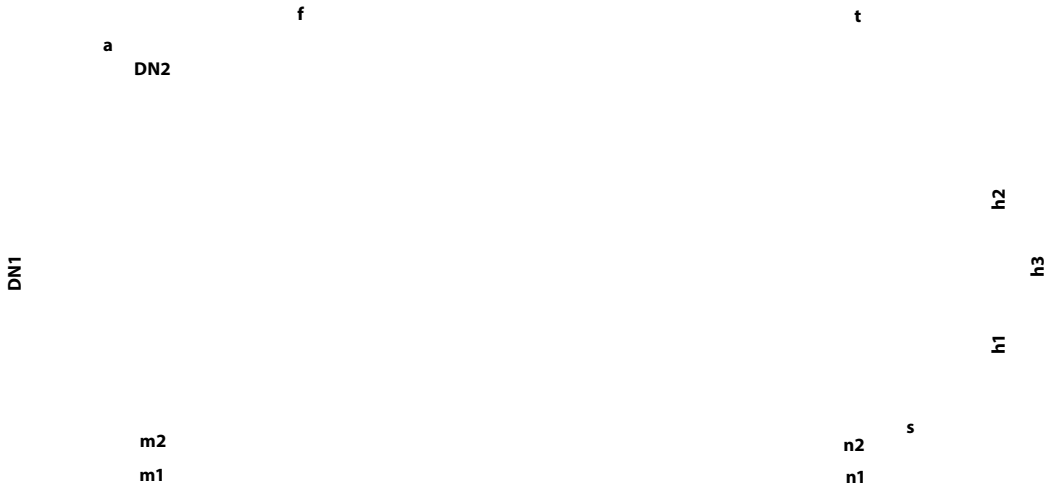
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

DIMENSIONS AND WEIGHT



TYPE	PORTS		DIMENSIONS mm										kg
Three-phase	**DN1**	**DN2**	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
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				478	340	160	180	270			95			43.0
F4-32/200A														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**	100	431	292	132	160	242	190	240	100	70	14	32.2
F4-50/125A														32.2
F4-50/160B				498	340	160	180	269	212	265				44.4
F4-50/160A														44.6
F4-50/200C				538	360		200	316						59.2
F4-50/200B				589										68.3
F4-50/200A														68.5
F4-50/200AR														68.8
F4-50/250D				531	405	180	225	337	250	320	125	95		59.9
F4-50/250C														63.3
F4-50/250B				581										68.7
F4-50/250A														69.1
F4-50/250AR														78.0
F4-65/125B	**80**	**65**	100	520	340	160	180	291	212	280	125	95	14	50.2
F4-65/125A														50.4
F4-65/160C				542	360		200	300						55.0
F4-65/160B														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				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
Three-phase	**DN1**	**DN2**	a	f	h3	h1	h2	t	n2	n1	m1	m2	s	
F4-80/160D	**100**	**80**	125	574	405	180	225	330	250	320	125	95	14	66.0
F4-80/160C				624										67.3
F4-80/160B														70.0
F4-80/160A														76.4
F4-80/200B				709	430		250	360	280	345				100.0
F4-80/200A														130.2
F4-80/250B				727	480	200	280	405	315	400	160	120	18	123.0
F4-80/250A														137.6
F4-100/160B	**125**	**100**	125	638	480	200	280	362	280	360	160	120	18	96.2
F4-100/160A														97.0
F4-100/200C				711				391						124.1
F4-100/200B														116.0
F4-100/200A														122.0
F4-100/250B			140	747	505	225		422	315	400				143.0
F4-100/250A														156.0

PORT FLANGES

DN FLANGE mm	D mm	K mm	HOLES N°	HOLES 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		

COUNTER-FLANGE

(CAN BE ORDERED SEPARATELY)

DN FLANGE mm	F COUNTER-FLANGE	D mm	K mm	HOLES N°	HOLES 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		

ABSORPTION

TYPE	VOLTAGE	
Three-phase	**230 V - Δ**	**400 V - Y**
F4-32/160B	1.9 A	1.1 A
F4-32/160A	2.2 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	3.3 A	1.9 A
F4-32/200AH	3.5 A	2.0 A
F4-32/250C	5.7 A	3.3 A
F4-32/250B	7.3 A	4.2 A
F4-32/250A	9.5 A	5.5 A
F4-40/160B	1.7 A	1.0 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	5.5 A	3.2 A
F4-40/250B	6.1 A	3.5 A
F4-40/250A	9.5 A	5.5 A
F4-50/125B	2.2 A	1.3 A
F4-50/125A	2.6 A	1.5 A
F4-50/160B	3.3 A	1.9 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	10.6 A	6.1 A
F4-50/250D	4.8 A	2.8 A
F4-50/250C	5.9 A	3.4 A
F4-50/250B	9.9 A	5.7 A
F4-50/250A	11.1 A	6.4 A
F4-50/250AR	11.8 A	6.8 A
F4-65/125B	3.6 A	2.1 A
F4-65/125A	4.5 A	2.6 A
F4-65/160C	5.2 A	3.0 A
F4-65/160B	5.9 A	3.4 A
F4-65/160A	7.8 A	4.5 A

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

MATERIALS AND COMPONENTS

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