

## Standardised “EN 733” stainless steel pumps

 Clean water

 Industrial use



### PERFORMANCE RANGE

- Flow rate up to **2200 l/min** (132 m<sup>3</sup>/h)
- Head up to **38 m**

### APPLICATION LIMITS

- Manometric suction lift up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Max. pressure in pump body **10 bar** (PN10)
- Continuous service **S1**

### CONSTRUCTION AND SAFETY STANDARDS

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

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



Pump body dimensions in compliance with **EN 733**

**EU REGULATION N. 547/2012**

### INSTALLATION AND USE

- Water supply
- Pressure boosting
- Irrigation
- Water circulation in air-conditioning units
- Cleaning sets
- Firefighting sets
- Industrial applications
- Agricultural applications

Suitable for use with clean, aggressive liquids that are chemically compatible with the materials from which the pump is made.

Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

### OPTIONS AVAILABLE ON REQUEST

- Special mechanical seal
- Other voltages or 60 Hz frequency
- Compatibility with hotter or colder liquids
- Compatibility with hotter or colder environments

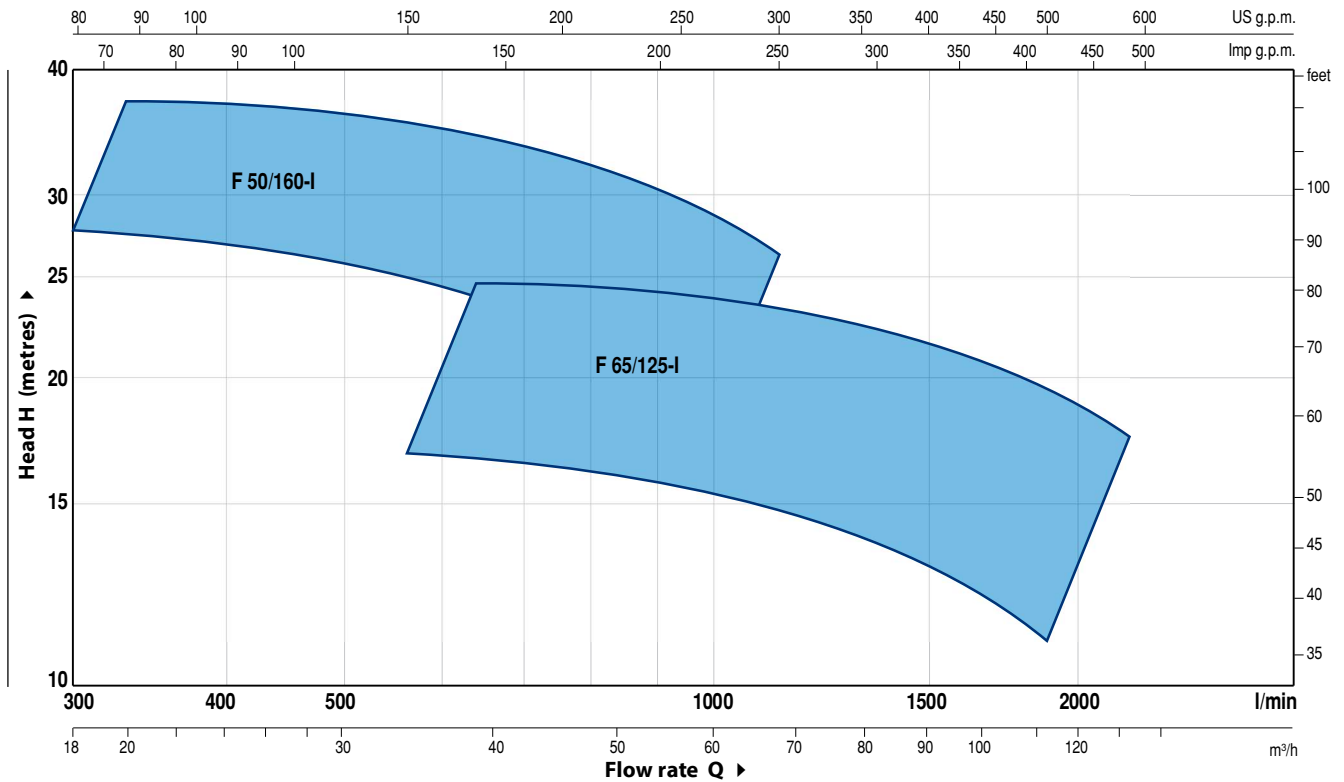
### CERTIFICATIONS

Company with management system certified DNV  
ISO 9001: QUALITY



## PERFORMANCE RANGE

50 Hz n= 2900 min<sup>-1</sup>



## PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup>

MODEL	POWER (P <sub>2</sub> )			PERFORMANCE	
	kW	HP	▲	Q l/min	H metres
F 50/160C-I	4	5.5	IE3	300 – 1000	27 – 16
F 50/160B-I	5.5	7.5		300 – 1100	32 – 21
F 50/160A-I	7.5	10		300 – 1100	37 – 27
F 65/125C-I	4	5.5	IE3	600 – 1800	16 – 11
F 65/125B-I	5.5	7.5		600 – 2000	18 – 13
F 65/125A-I	7.5	10		600 – 2200	23 – 18

Q = Flow rate

H = Total manometric head

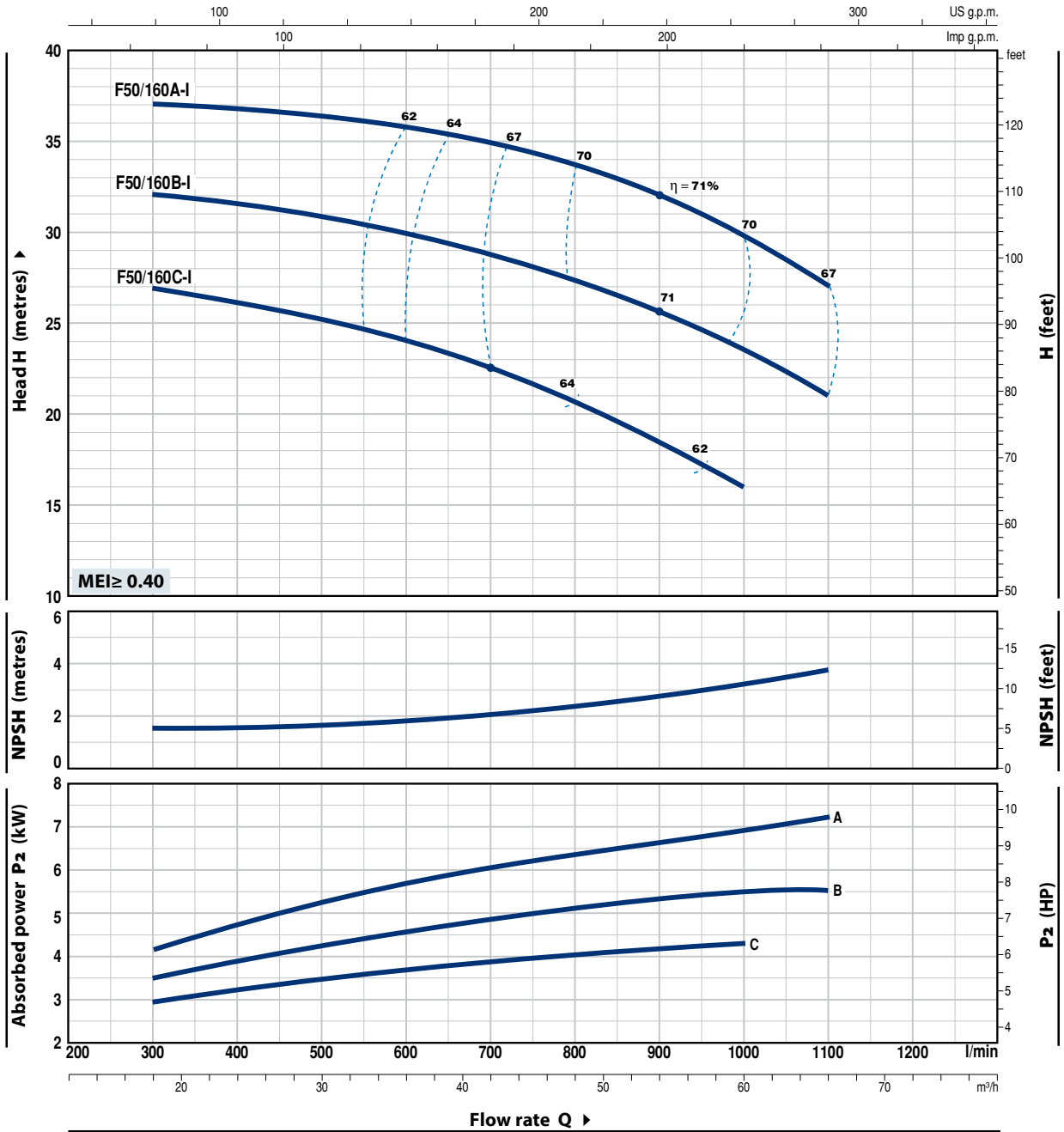
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

▲ Three-phase motor efficiency class (IEC 60034-30-1)

# F50/160-I

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup> HS= 0 m



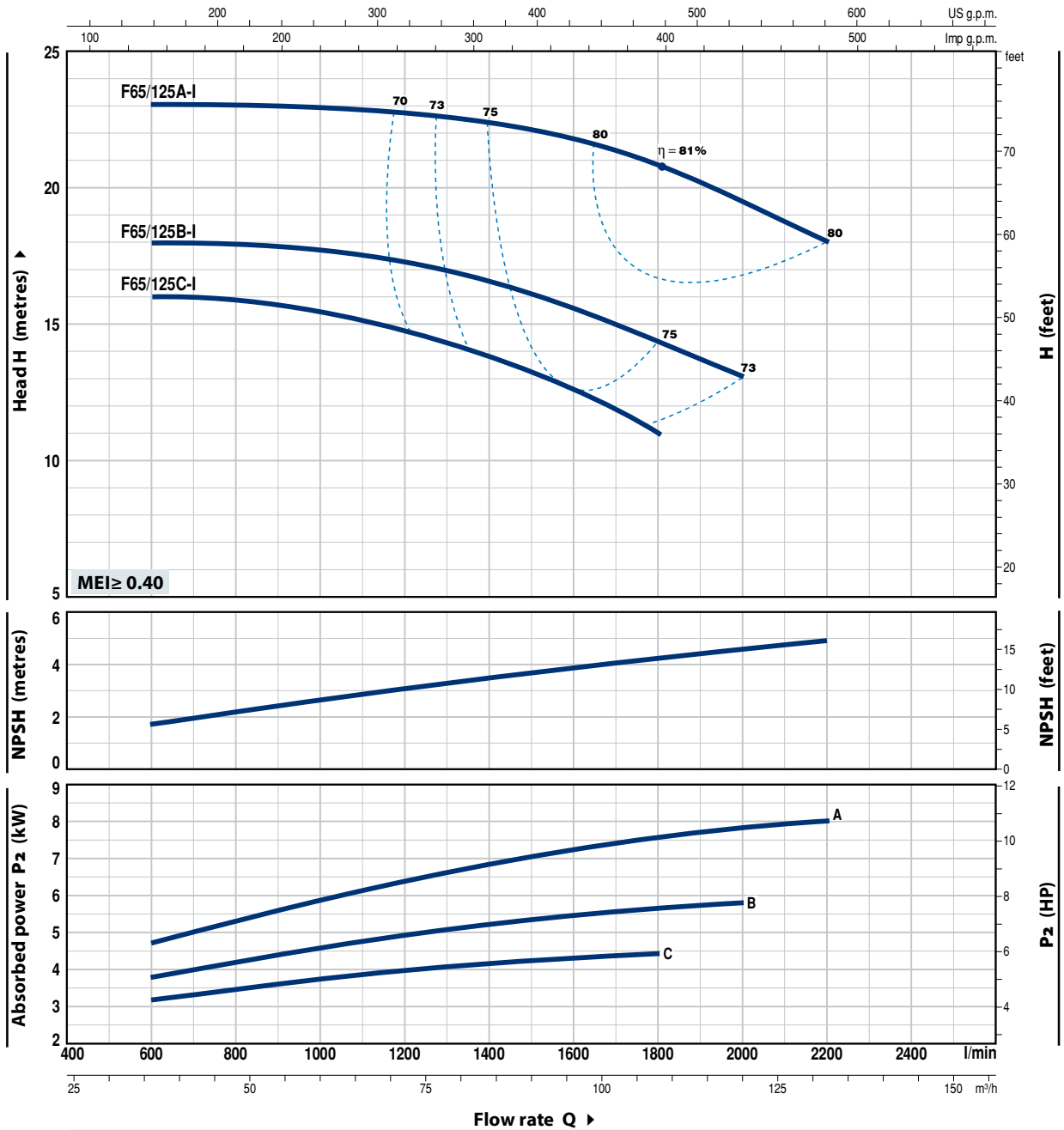
MODEL	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	0	18	24	30	36	42	48	54	60	66	
Three-phase			l/min	0	300	400	500	600	700	800	900	1000	1100		
F 50/160C-I	4	5.5	H me- tres	27	27	26.5	25	24.5	23	20	18.5	16			
F 50/160B-I	5.5	7.5		33	32	31.7	31	30	29	27	26	24	21		
F 50/160A-I	7.5	10		38	37	36.8	36.5	36	34	33	32	30	27		

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

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 min<sup>-1</sup> HS= 0 m



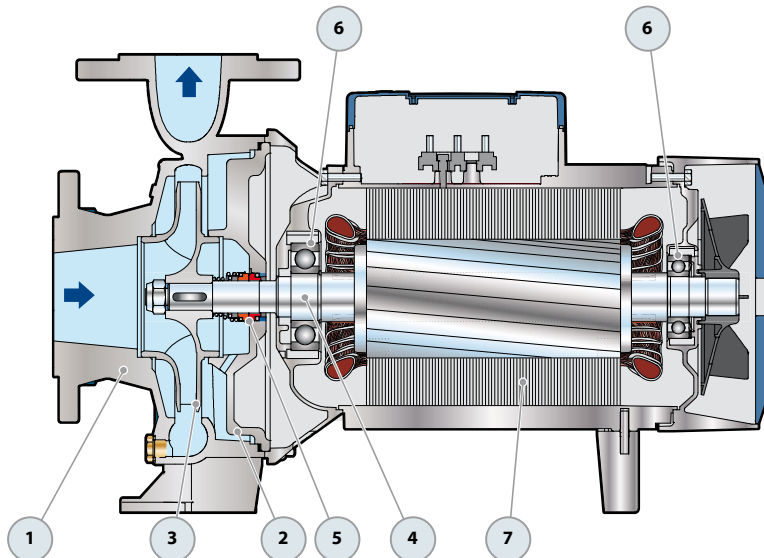
MODEL	POWER (P <sub>2</sub> )		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	0	36	48	60	72	84	96	108	120	132	
Three-phase			l/min	0	600	800	1000	1200	1400	1600	1800	2000	2200		
F 65/125C-I	4	5.5	H me- tres	16	16	16	15.5	14.5	13.5	12.5	11				
F 65/125B-I	5.5	7.5		18	18	18	18	17	16.5	15.5	14.5	13			
F 65/125A-I	7.5	10		23	23	23	23	22.5	22.5	22	21	19.5	18		

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

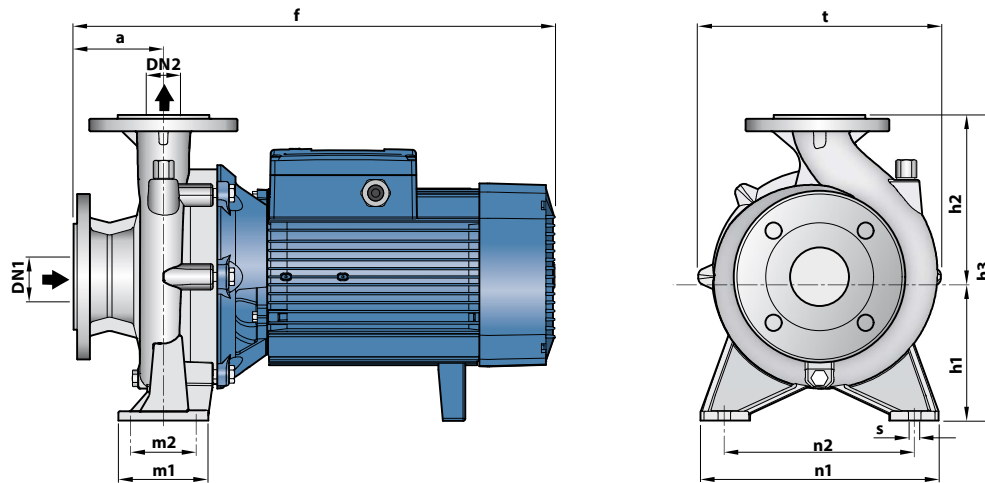
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

## POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	<b>PUMP BODY</b>	Stainless steel AISI 316 complete with flanged suction and delivery ports					
2	<b>BODY BACKPLATE</b>	Stainless steel AISI 316					
3	<b>IMPELLER</b>	Stainless steel AISI 316					
4	<b>MOTOR SHAFT</b>	Stainless steel AISI 316L					
5	<b>MECHANICAL SEAL</b>	<i>Pump Model</i>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Materials</i> <i>Rotational ring</i>	<i>Elastomer</i>
		F50/160-I F65/125-I	FN-24SV	Ø 24 mm	Silicon carbide	Silicon carbide	Viton
6	<b>BEARINGS</b>	<i>Pump Model</i>	<i>Model</i>				
		F50/160-I F65/125-I	6307 ZZ-C3 / 6206 ZZ-C3				
7	<b>ELECTRIC MOTOR</b>	<b>F:</b> three-phase 230/400 V - 50 Hz for 4 kW 400/690 V - 50 Hz from 5.5 to 7.5 kW ➔ <b>The three-phase pumps are fitted with high performance motors in class IE3 (IEC 60034-30-1)</b> – Insulation: class F – Protection: IP 55					



## DIMENSIONS AND WEIGHT



MODEL	DIMENSIONS mm													kg		
	Three-phase	DN1	DN2	a	f	h3	h1	h2	t	n2	n1	m1	m2		s	
F 50/160C-I					489											<b>50.2</b>
F 50/160B-I	65	50	100	535					269		265	100	70	14	<b>54.0</b>	
F 50/160A-I				511	340	160	180	212								
F 65/125C-I	80	65	100	557					291		280	125	95		<b>62.6</b>	
F 65/125B-I																<b>67.7</b>
F 65/125A-I																

## ABSORPTION

MODEL	VOLTAGE			
	Three-phase	230-240 V	400-415 V	690-720 V
F 50/160C-I		<b>15.8 A</b>	<b>9.1 A</b>	<b>5.3 A</b>
F 50/160B-I		-	<b>12.3 A</b>	<b>7.1 A</b>
F 50/160A-I		-	<b>15.5 A</b>	<b>8.9 A</b>
F 65/125C-I		<b>17.3 A</b>	<b>10.0 A</b>	<b>5.8 A</b>
F 65/125B-I		-	<b>12.0 A</b>	<b>7.0 A</b>
F 65/125A-I		-	<b>16.5 A</b>	<b>9.5 A</b>