



### 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 60034-1  
IEC 60034-1  
CEI 2-3



Pump body dimensions in compliance with: **EN 733**  
**REGULATION (EU) N. 547/2012**

### CERTIFICATIONS



### INSTALLATION AND USE

- Water supply
- Pressure boosting
- Irrigation
- Water circulation in climatization sets
- 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. The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

### OPTIONALS AVAILABLE ON REQUEST

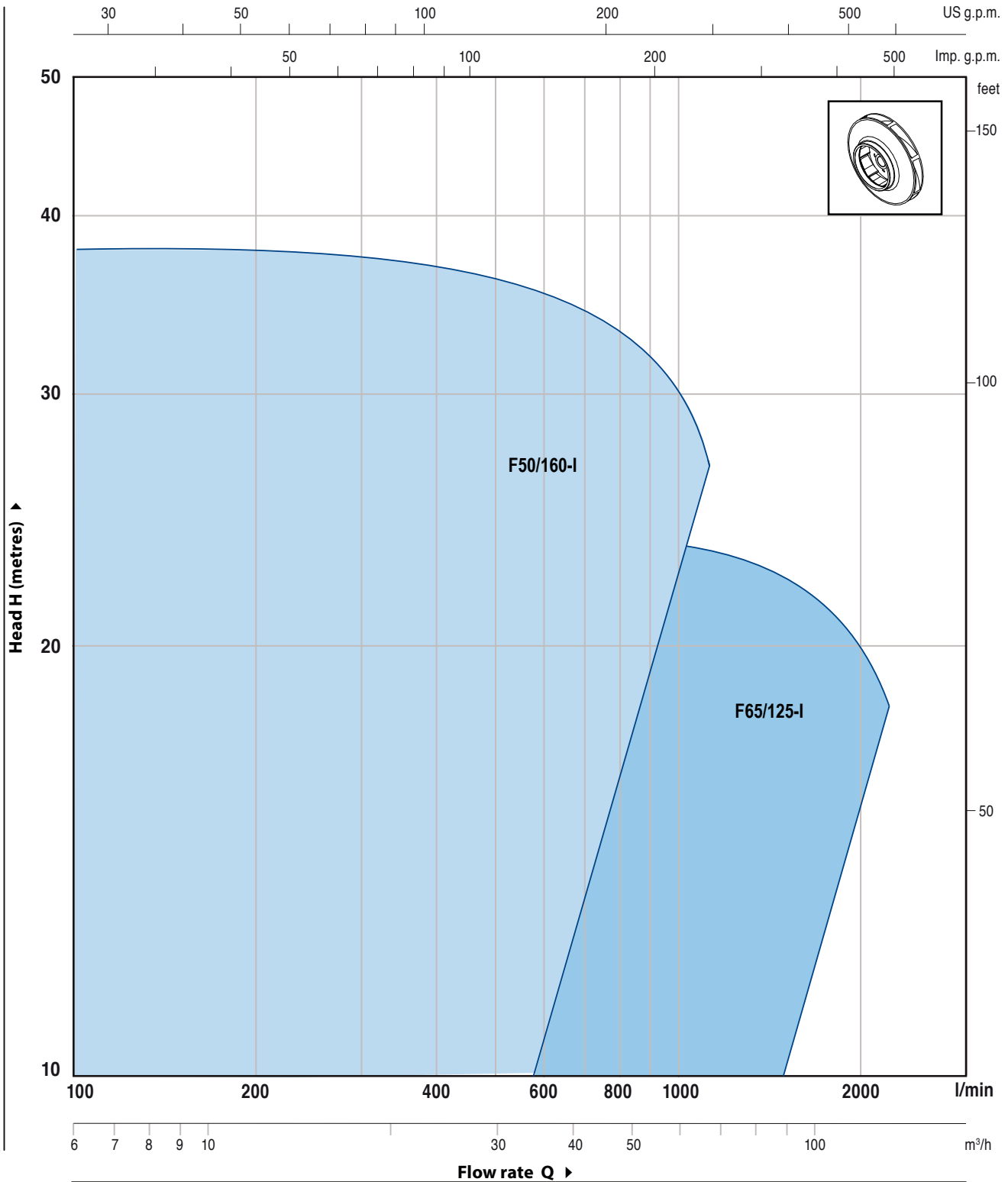
- Special mechanical seal
- Other voltages or 60 Hz frequency
- Compatibility with hotter or colder liquids
- Compatibility with hotter or colder ambients

### GUARANTEE

2 years subject to terms and conditions

**PERFORMANCE RANGE**

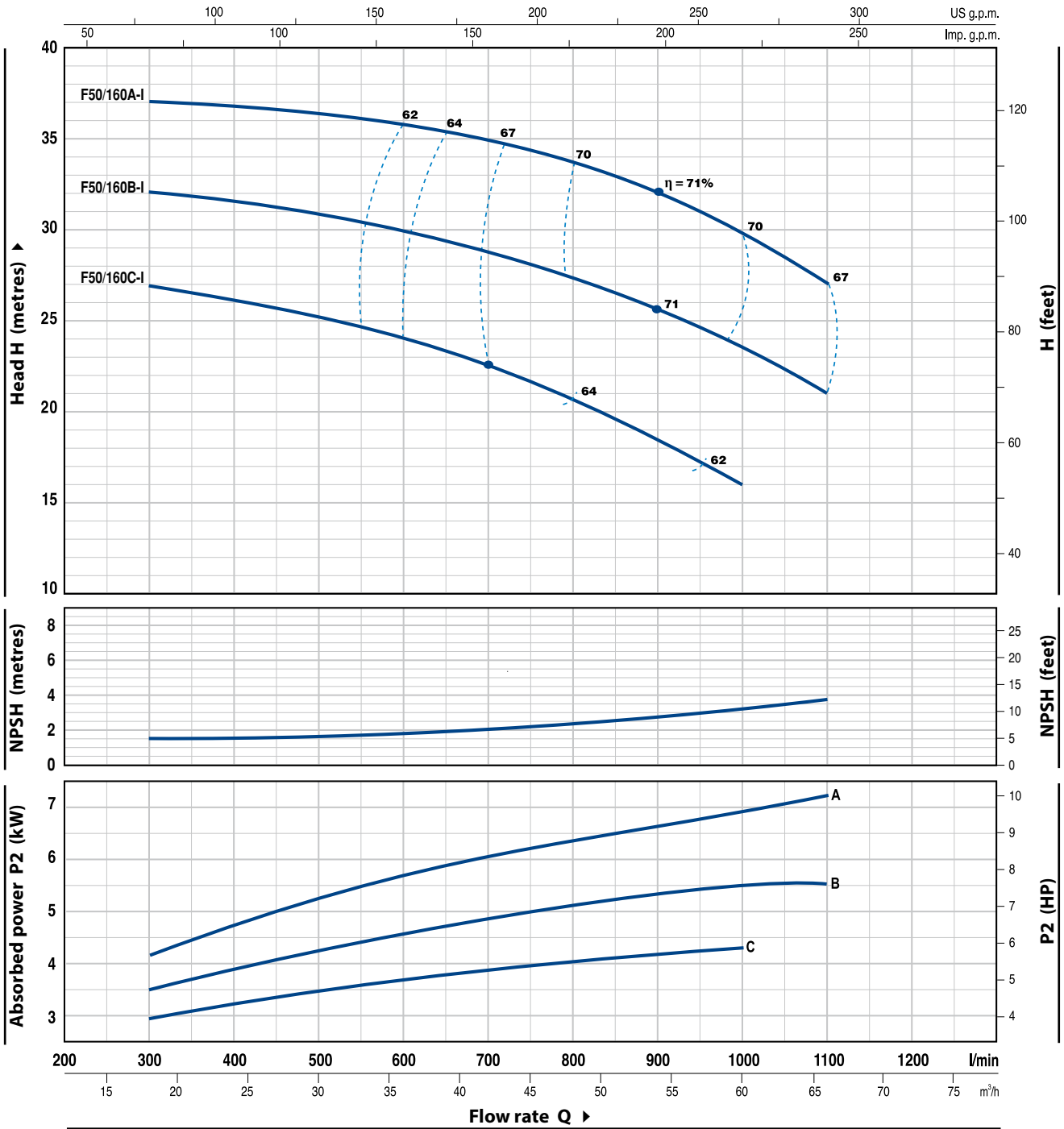
**50 Hz n= 2900 1/min HS= 0 m**



# F50/160-I

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min HS= 0 m



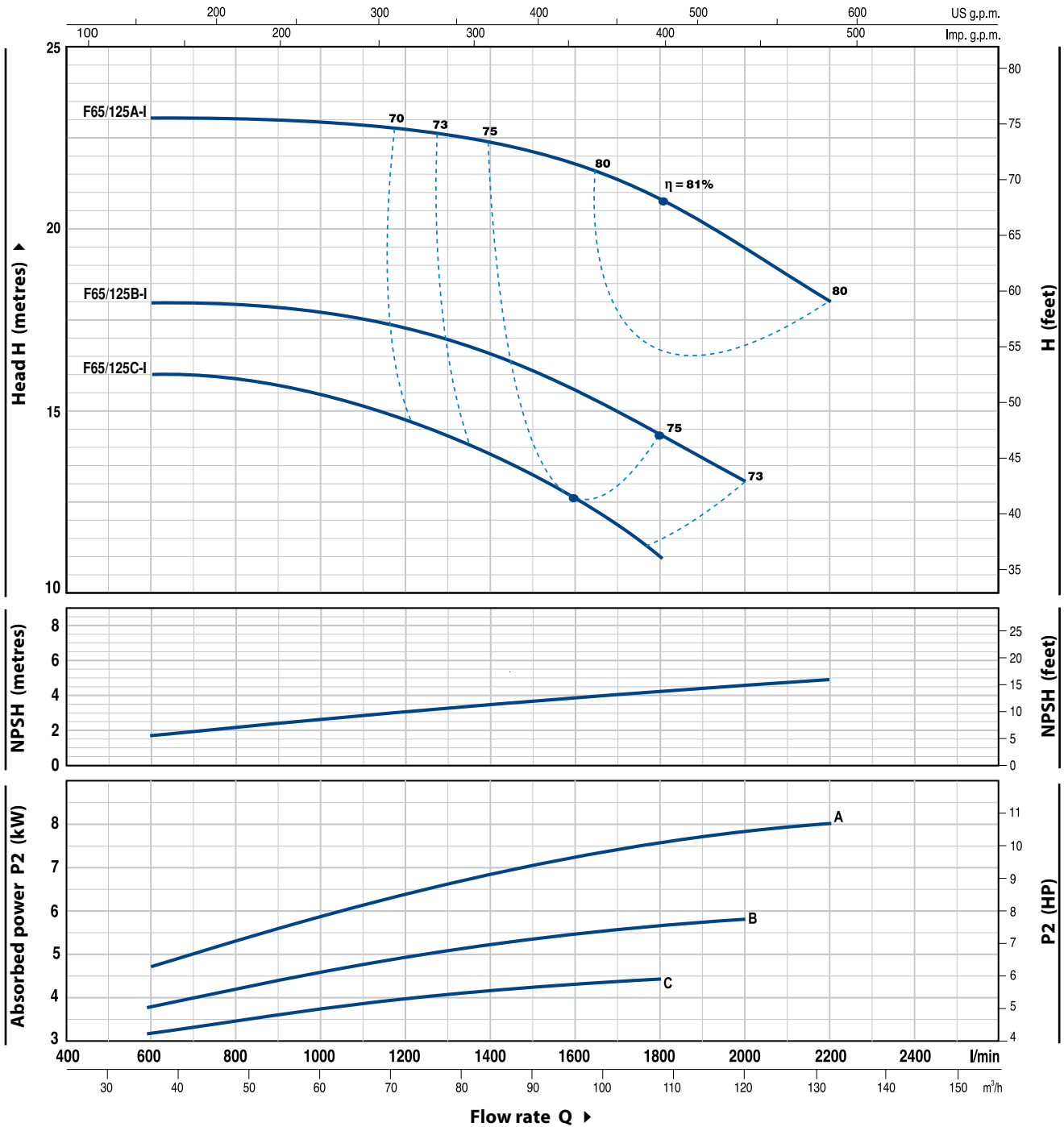
MODEL	POWER		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	0	18	24	30	36	42	48	54	60	66	
Three-phase			l/min	0	300	400	500	600	700	800	900	1000	1100		
F 50/160C-I	4	5.5	H metres	27	27	26.5	25	24.5	23	20	18.5	16			
F 50/160B-I	5.5	7.5		33	32	31.7	31	30	29	27	26	24	21		
F 50/160A-I	7.5	10		38	37	36.8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

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

50 Hz n= 2900 1/min HS= 0 m

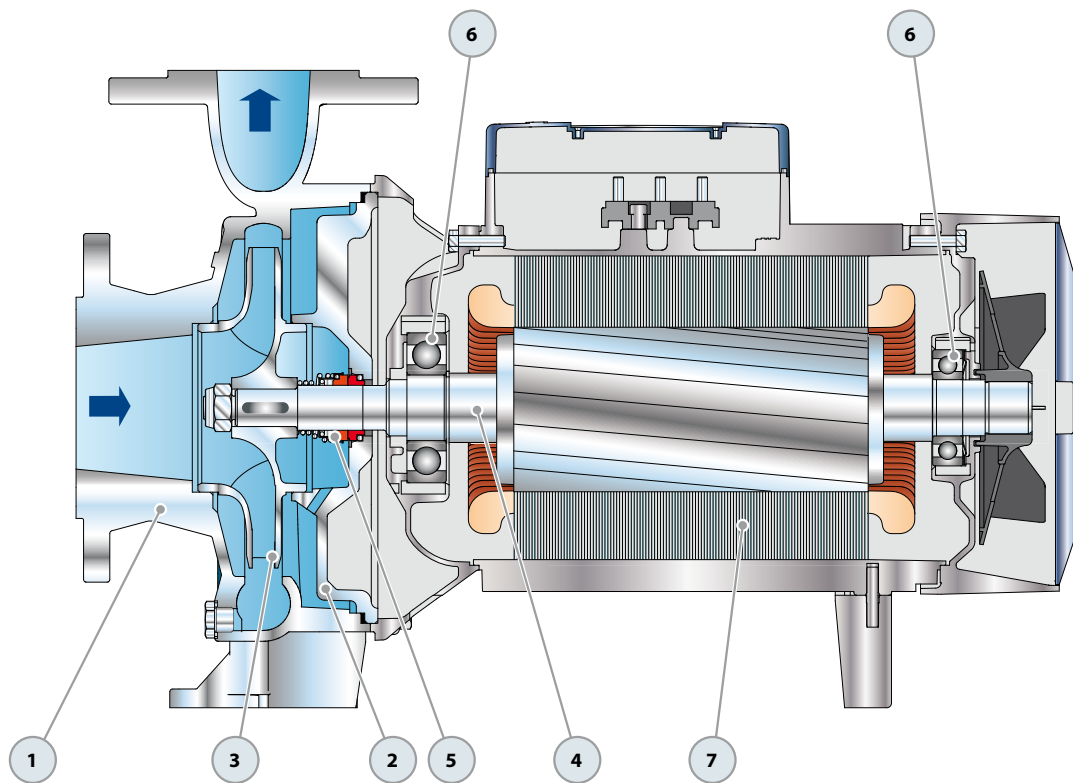


MODEL	POWER		Q	Flow rate											
	kW	HP		m³/h	0	36	48	60	72	84	96	108	120	132	
Three-phase			l/min	0	600	800	1000	1200	1400	1600	1800	2000	2200		
F 65/125C-I	4	5.5	H metres	16	16	16	15.5	14.5	13.5	12.5	11				
F 65/125B-I	5.5	7.5		18	18	18	18	17	16.5	15.5	14.5	13			
F 65/125A-I	7.5	10		23	23	23	23	22.5	22.5	22	21	19.5	18		

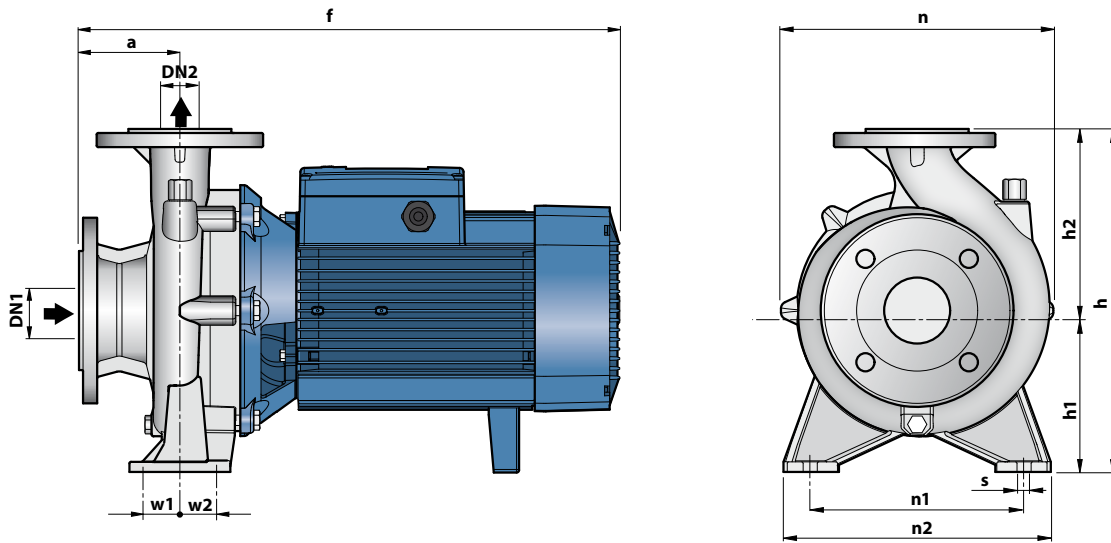
Q = Flow rate H = Total manometric head HS = Suction height

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

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS					
1	PUMP BODY	Stainless steel AISI 316, complete with flanged suction and delivery ports					
2	BODY BACKPLATE	Stainless steel AISI 316					
4	IMPELLER	Stainless steel AISI 316					
5	MOTOR SHAFT	Stainless steel AISI 316					
6	MECHANICAL SEAL	<i>Pump Model</i>	<i>Seal Model</i>	<i>Shaft Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		F50/160-I F65/125-I	FN-24SV	Ø 24 mm	Silicon carbide	Silicon carbide	Viton
7	BEARINGS	<i>Pump Model</i>	<i>Model</i>				
		F50/160-I F65/125-I	6307 ZZ - C3 / 6206 ZZ - C3				
9	ELECTRIC MOTOR	F: three-phase 230/400 V - 50 Hz for 4 kW. 400/690 V - 50 Hz from 5.5 to 7.5 kW. <b>⇒ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance</b> – Insulation: F class. – Protection: IPX5.					



## DIMENSIONS AND WEIGHT



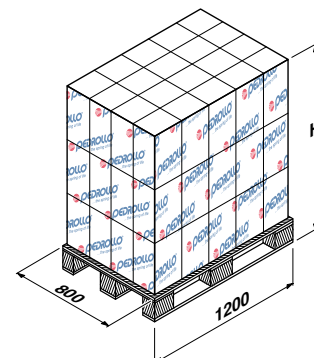
MODEL	PORTS		DIMENSIONS mm										kg 3~	
	DN1	DN2	a	f	h	h1	h2	n	n1	n2	w1	w2		s
Three-phase														
F 50/160C-I	65	50	100	489	340	160	180	269	212	265	35	35	14	50.2
F 50/160B-I				535										54.0
F 50/160A-I				511										65.5
F 65/125C-I	80	65	100	511	340	160	180	291	212	280	47.5	47.5	14	62.6
F 65/125B-I				557										67.7
F 65/125A-I				557										72.9

## ABSORPTION

MODEL	VOLTAGE (three-phase)		
	230÷240 V	400÷415 V	690÷720 V
Three-phase			
F 50/160C-I	15.8 A	9.1 A	5.3 A
F 50/160B-I	-	12.3 A	7.1 A
F 50/160A-I	-	15.5 A	8.9 A
F 65/125C-I	17.5 A	10.0 A	5.8 A
F 65/125B-I	-	12.0 A	7.0 A
F 65/125A-I	-	16.5 A	9.5 A

## PALLETIZATION

MODEL	GROUPAGE			CONTAINER		
	n° pumps	H (mm)	kg 3~	n° pumps	H (mm)	kg 3~
Three-phase						
F 50/160C-I	12	1535	619	16	2000	820
F 50/160B-I	12	1535	665	16	2000	881
F 50/160A-I	12	1535	802	16	2000	1064
F 65/125C-I	12	1535	768	16	2000	1018
F 65/125B-I	12	1535	829	16	2000	1100
F 65/125A-I	12	1535	891	16	2000	1183



## **REGULATION (EU) N. 547/2012**

- Minimum efficiency index  $MEI \geq 0,10$  for water pumps according to the (EU) Regulation current from the 1th of January 2013.
- The benchmark for most efficient water pumps is  $MEI \geq 0,70$ .
- The efficiency of a pump with a trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.
- The operation of this water pump with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.
- Information on benchmark efficiency is available [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts).