

# F

## Standardised "EN 733" centrifugal pumps



### PERFORMANCE RANGE

- Flow rate up to **6000 l/min** (360 m<sup>3</sup>/h)
- Head up to **95 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**

### CERTIFICATIONS



AN30



NOMTECT-168

### INSTALLATION AND USE

- Water supply
- Pressure boosting
- Irrigation
- Water circulation in climatization sets
- Cleaning sets
- Firefighting sets
- Industrial applications
- Agricultural applications

The pumps must be installed in enclosed places, or at least protected against 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

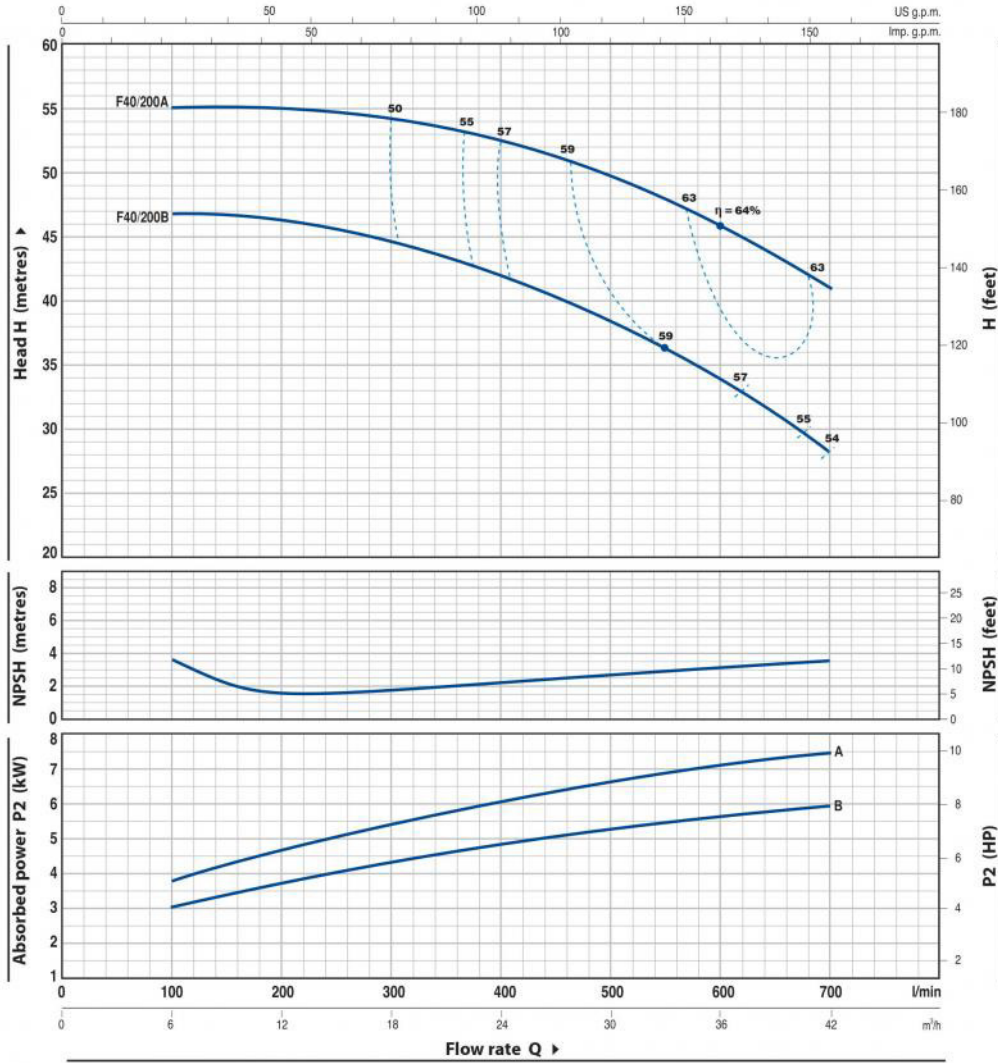
### GUARANTEE

2 years subject to terms and conditions

# F40/200

## CHARACTERISTIC CURVES AND PERFORMANCE DATA

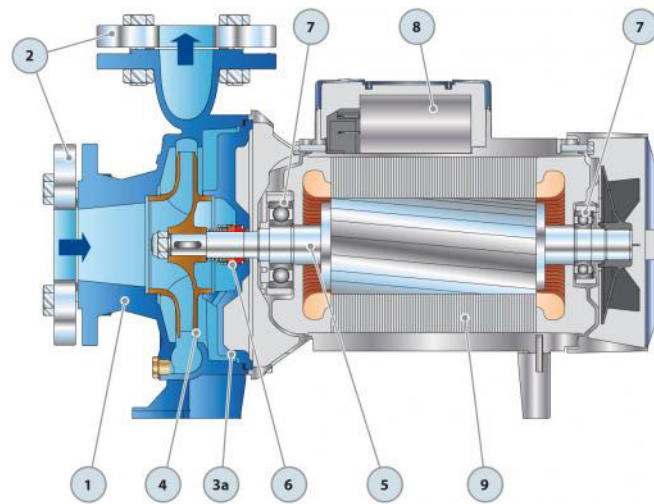
50 Hz n= 2900 1/min HS= 0 m



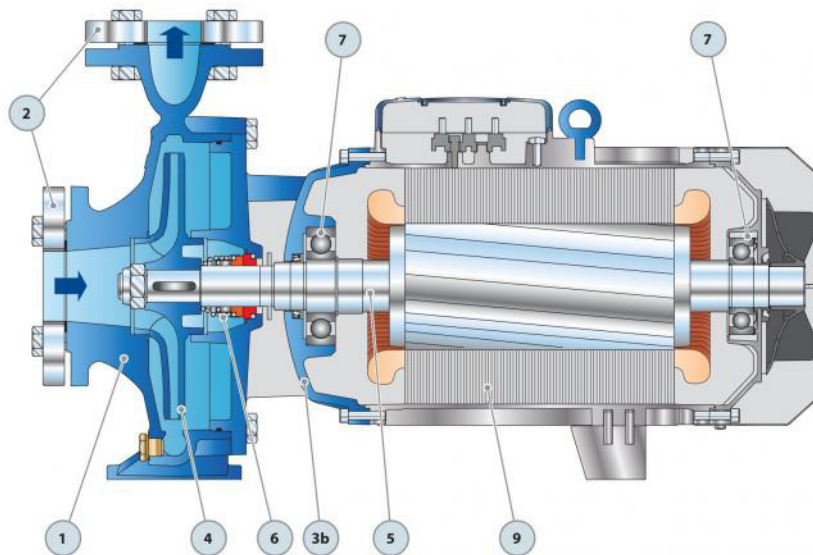
MODEL	POWER		Q	Flow rate											
	kW	HP		m <sup>3</sup> /h	0	6	9	12	15	18	24	30	36	42	
Three-phase			l/min	0	100	150	200	250	300	400	500	600	700		
F 40/200B	5.5	7.5	H metres	48	47	46.5	46	45.5	44.5	42	38	34	28		
F 40/200A	7.5	10		56	55	55	55	54.5	54	52.5	49.5	46	41		

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

Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.



**Single-phase version**



**Three-phase version**

# F

POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS						
1	PUMP BODY	Cast iron, complete with flanged suction and delivery ports						
2	COUNTERFLANGES	Steel, complete with ISO 228/1 thread						
3a	BODY BACKPLATE	Cast iron						
3b	MOTOR BRACKET	Cast iron						
4	IMPELLER	Brass for F32/160, F32/200, F40/160, F40/200, F50/125, F50/160 Cast iron for F40/250, F50/200, F50/250, F65/125, F65/160, F65/200, F65/250, F80/160, F80/200, F80/250, F100/160, F100/200, F100/250						
5	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104						
6	MECHANICAL SEAL	<b>Pump</b>	<b>Seal</b>	<b>Shaft</b>	<b>Materials</b>			
		<i>Model</i>	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>	
		F32/160 F50/125	F40/160	<b>FN-20</b>	Ø 20 mm	Graphite	Ceramic	NBR
		F32/200 F50/160	F40/200 F65/125	<b>FN-24</b>	Ø 24 mm	Graphite	Ceramic	NBR
		F50/200 F65/200 F100/160	F65/160 F80/160	<b>FN-32 NU</b>	Ø 32 mm	Graphite	Ceramic	NBR
		F40/250 F65/250	F50/250 F80/200	<b>FN-38</b>	Ø 38 mm	Graphite	Ceramic	NBR
		F80/250B F80/250A	F100/200 F100/250	<b>FN-40</b> <b>FH-45 NU</b>	Ø 40 mm Ø 45 mm	Graphite	Ceramic	NBR
		7	BEARINGS	<b>Pump</b>	<b>Model</b>	<b>Pump</b>	<b>Model</b>	
				F32/160C F32/160B F40/160C F50/125C	<b>6206 ZZ - C3 / 6204 ZZ</b>	F32/200 F40/200 F50/160 F65/125	<b>6307 ZZ - C3 / 6206 ZZ - C3</b>	
				Fm32/160B F32/160A Fm40/160C F40/160B Fm50/125C F50/125B	<b>6206 ZZ - C3 / 6205 ZZ</b>	F40/250 F50/200 F50/250 F65/160 F65/200 F80/160 F100/160	<b>6310 ZZ - C3 / 6308 ZZ - C3</b>	
		F40/160A F50/125A	<b>6306 ZZ - C3 / 6206 ZZ - C3</b>	F65/250 F80/200 F80/250B F100/200 F80/250A F100/250	<b>6312 ZZ - C3 / 6212 ZZ - C3</b> <b>6314 ZZ - C3 / 6314 ZZ - C3</b>			
8	CAPACITOR	<b>Pump</b>	<b>Capacitance</b>					
		<i>Single-phase</i>	<i>(230 V or 240 V)</i>					
		Fm32/160B	70 µF 450 VL					
		Fm40/160C	70 µF 450 VL					
		Fm50/125C	70 µF 450 VL					
9	ELECTRIC MOTOR	<b>Fm:</b> single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding (up to 1.5 kW) <b>F:</b> three-phase 230/400 V - 50 Hz up to 4 kW 400/690 V - 50 Hz from 5.5 to 75 kW ⇒ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance – Insulation: F class – Protection: IP 55						