

2CP

Centrifugal twin-impeller pumps

-  Clean water
-  Domestic use
-  Civil use
-  Industrial use



PERFORMANCE RANGE

- Flow rate up to **450 l/min** (27 m³/h)
- Head up to **112 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. working pressure **11 bar**
- 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



CERTIFICATIONS

Company with management system certified DNV
ISO 9001: QUALITY
ISO 14001: ENVIRONMENT

INSTALLATION AND USE

Suitable for use with clean water and with liquids that are not chemically aggressive towards the materials from which the pump is made. The high performance and adaptability to a wide range of applications make them the ideal choice in domestic, civil and industrial applications, in particular for the distribution of water in combination with pressure tanks for boosting pressure in the network and for firefighting sets.

The pump should be installed in an enclosed environment or sheltered from inclement weather.

OPTIONS AVAILABLE ON REQUEST

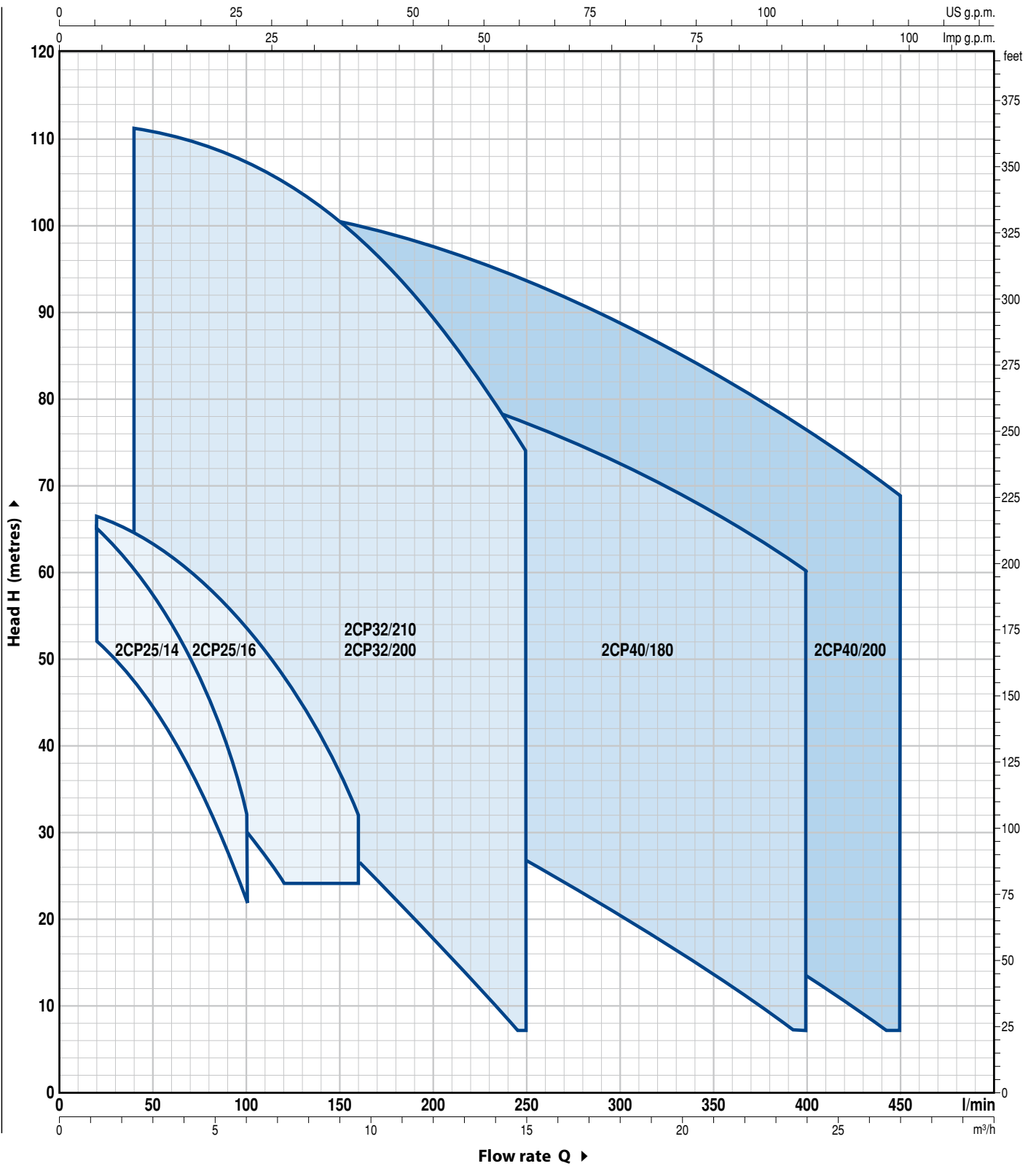
- Special mechanical seal
- Other voltages
- IPX5 class protection for:
 - 2CP32/200 – 2CP40/180
 - 2CP32/210 – 2CP40/200

GUARANTEE

2 years subject to terms and conditions

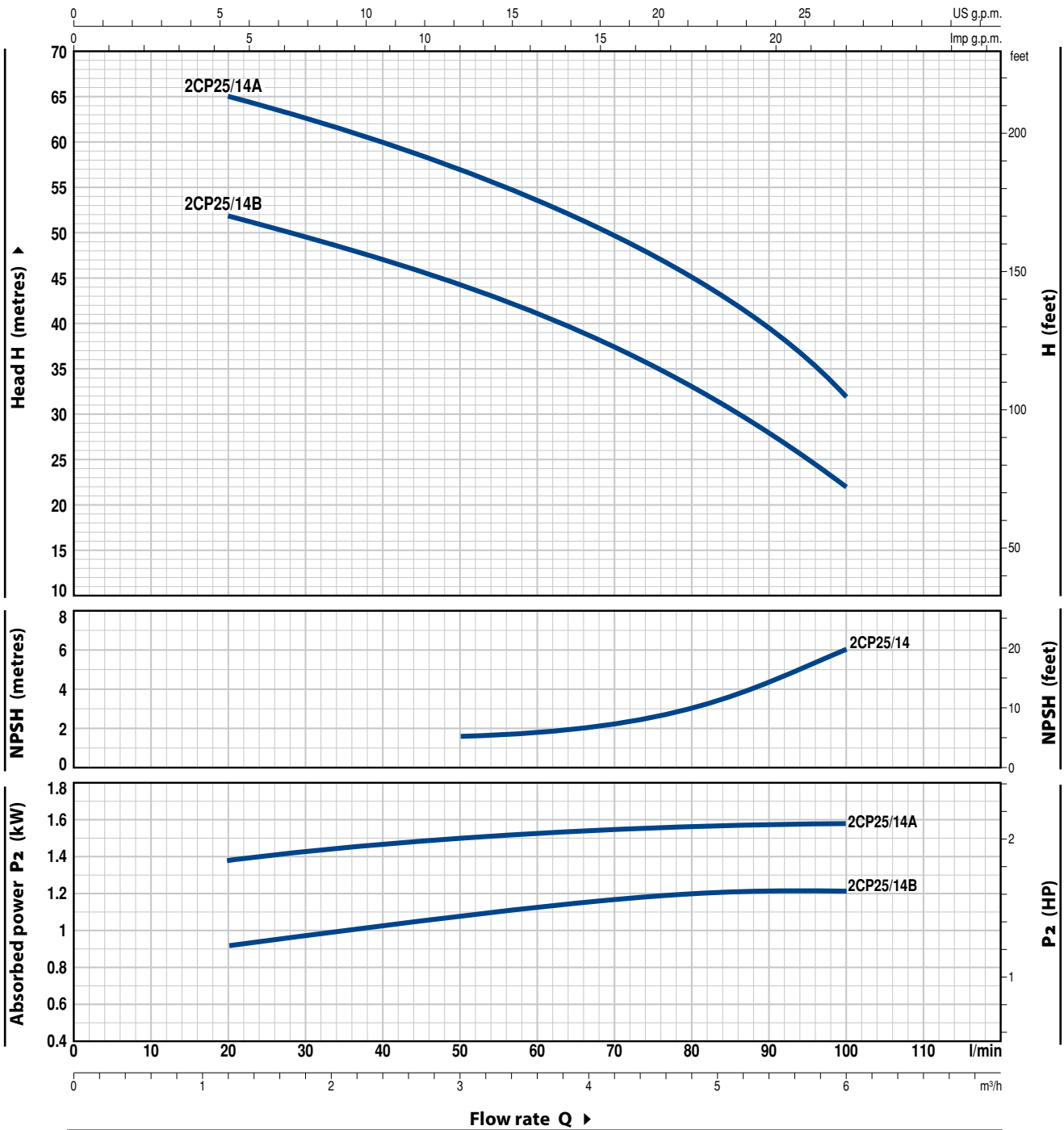
PERFORMANCE RANGE

60 Hz n= 3450 rpm HS= 0 m



CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL		POWER (P ₂)			Q											
Single-phase	Three-phase	kW	HP	▲		m ³ /h	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
					l/min	0	20	30	40	50	60	70	80	90	100	
2CPm 25/14B	2CP 25/14B	1.1	1.5	IE2	H metres	54	52	50	47.5	44.5	41	37	33	28	22	
2CPm 25/14A	2CP 25/14A	1.5	2	IE3		67	65	62	60	57	54	50	45	40	32	

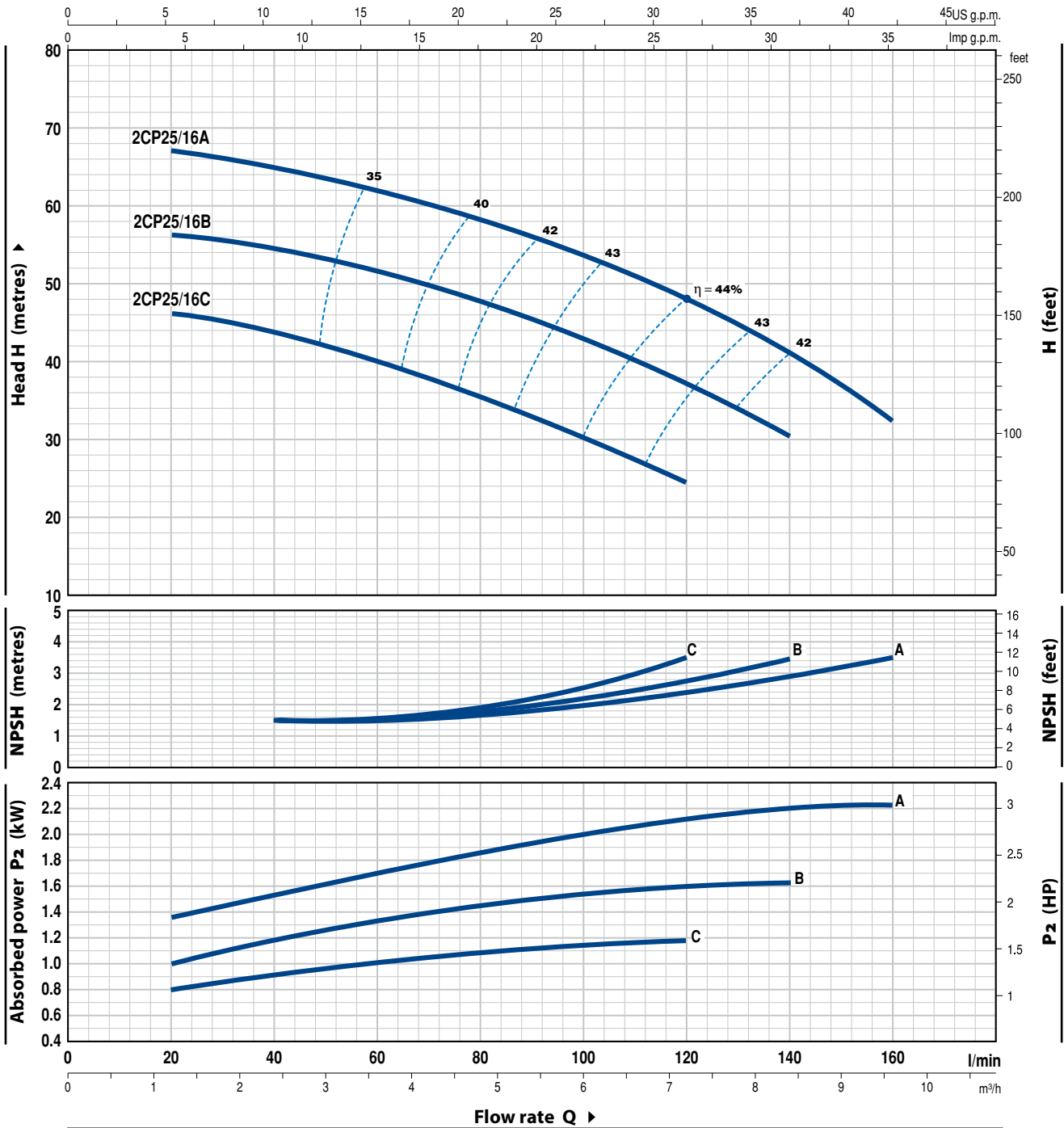
Q = Flow rate H = Total manometric head HS = Suction height

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

▲ Performance class of the three-phase motor (IEC-60034-30)

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL		POWER (P ₂)			Q	Flow rate															
Single-phase	Three-phase	kW	HP	▲		m ³ /h	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	8.4	9.6	
					l/min	0	20	30	40	50	60	70	80	90	100	110	120	140	160		
2CPm 25/16C	2CP 25/16C	1.1	1.5	IE2	H metres	47	46	45	44	42	40	38	35	33	30	27	24				
2CPm 25/16B	2CP 25/16B	1.5	2	IE3		58	56	55	54	53	51	49	47	45	43	40	37	30			
2CPm 25/16A	2CP 25/16A	2.2	3			68	67	65.5	64.5	63	62	60	58	56	54	51	48	41	32		

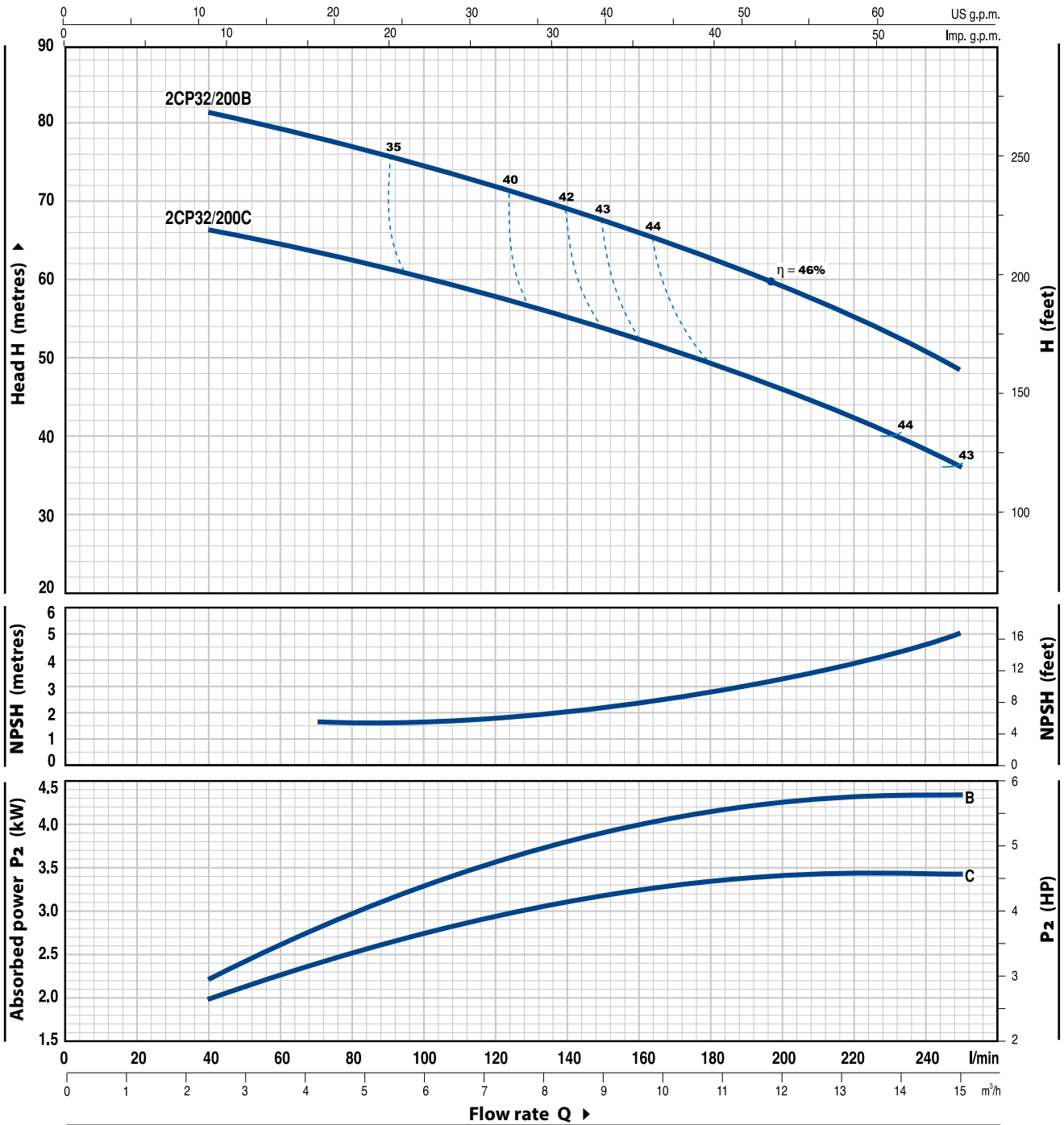
Q = Flow rate H = Total manometric head HS = Suction height

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

▲ Performance class of the three-phase motor (IEC-60034-30)

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		▲	Q	Flow rate														
	kW	HP			m ³ /h	0	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.5	8.4	9.6	10.8	12.0
Three-phase				l/min	0	40	50	60	70	80	90	100	110	125	140	160	180	200	250
2CP 32/200C	3	4	IE3	H metres	70	66.5	65.5	65	64	63	62	60.5	59	57	55	52	49.5	46.5	36
2CP 32/200B	4	5.5		H metres	85	81	80	79	78	77	76	75	74	72	69	66	62	58	49

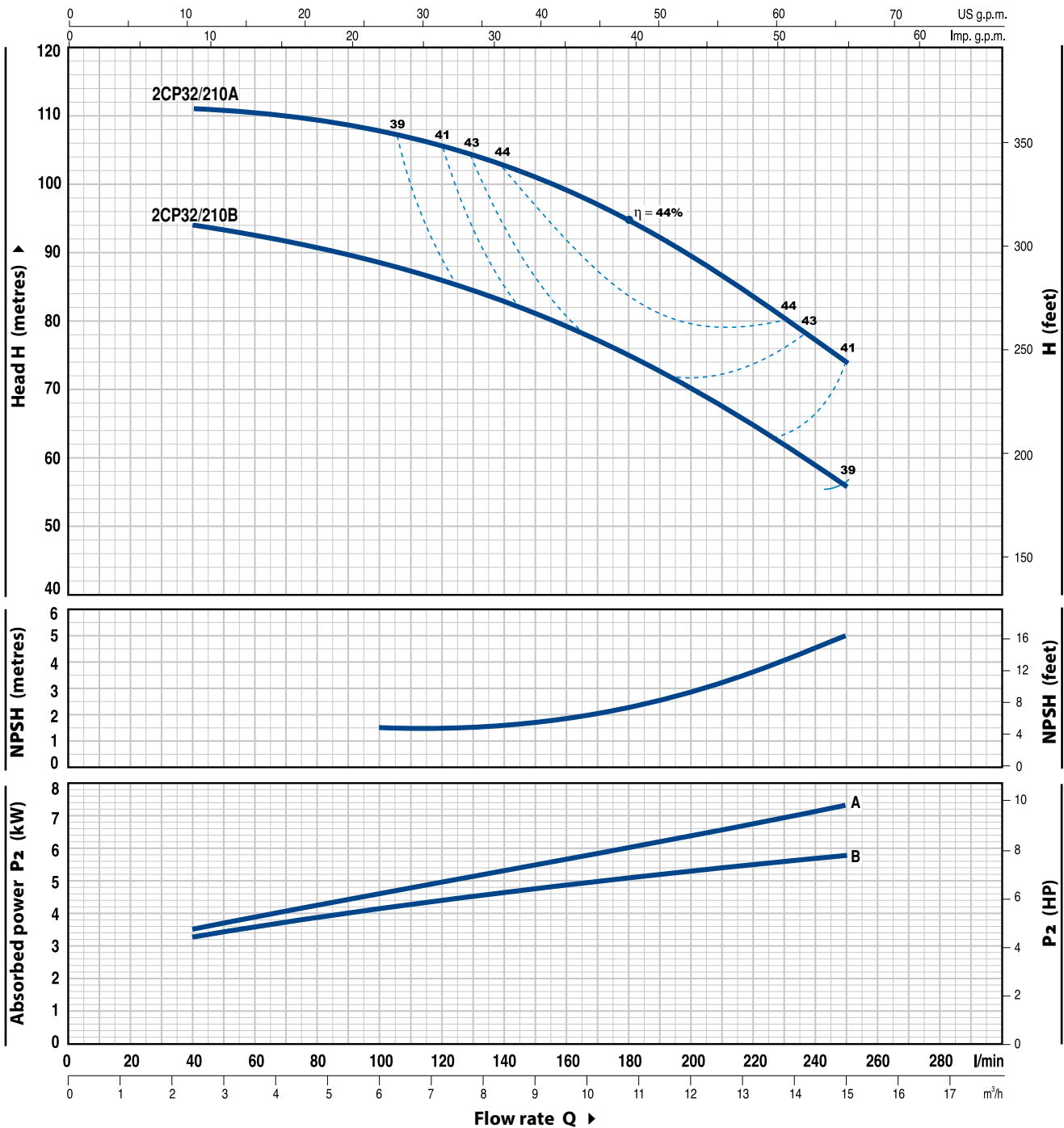
Q = Flow rate H = Total manometric head HS = Suction height

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

▲ Performance class of the three-phase motor (IEC-60034-30)

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		▲	Q	Flow rate Q														
	kW	HP			0	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.5	8.4	9.6	10.8	12.0	15.0
Three-phase				l/min	0	40	50	60	70	80	90	100	110	125	140	160	180	200	250
2CP 32/210B	5.5	7.5	IE3	H metres	94	94	93.5	93	92	91	90	89	87	85	83	79	75	70	56
2CP 32/210A	7.5	10				112	111	110.8	110.5	110.3	110	109	108	107	105	102	99	94	89

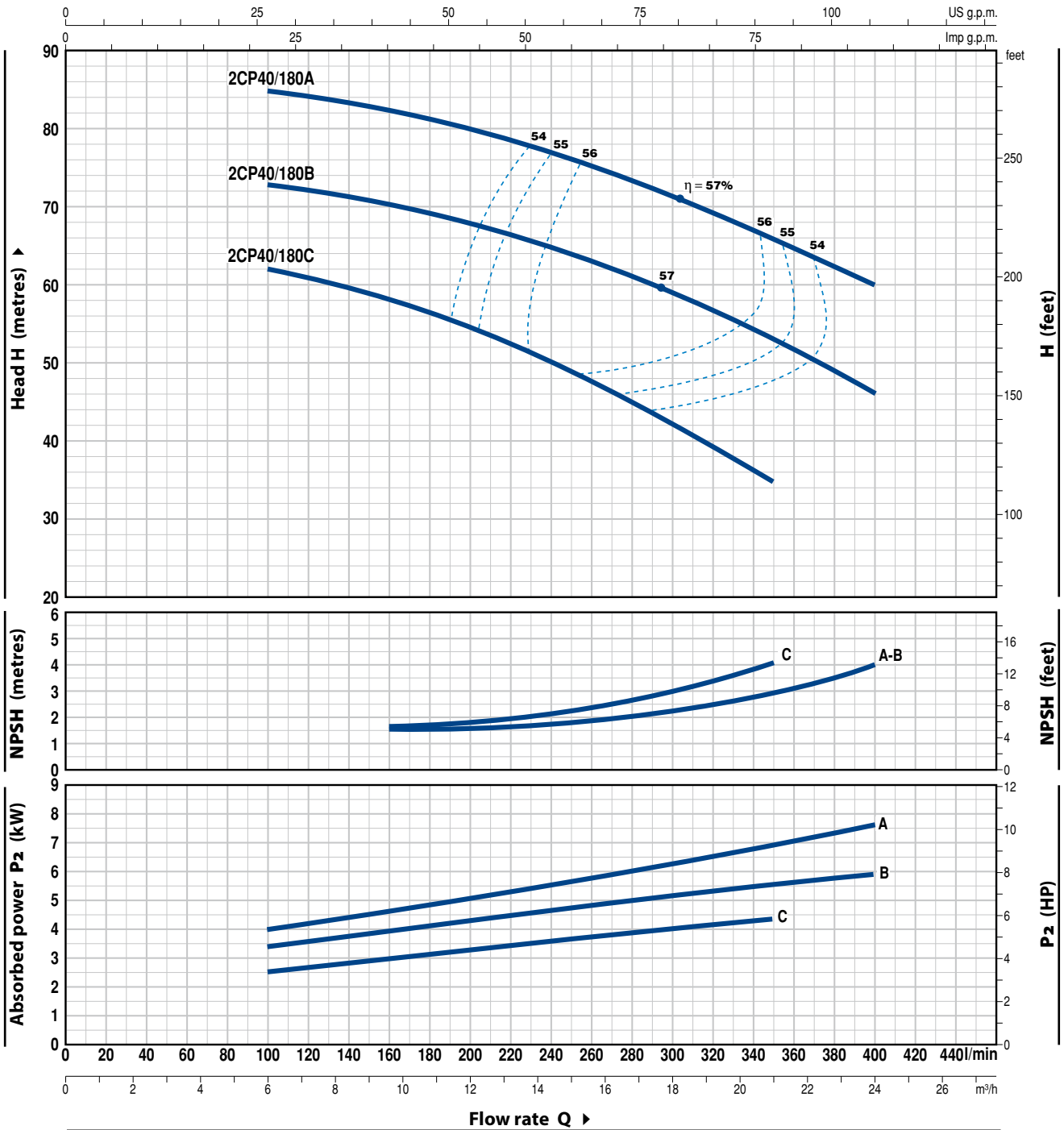
Q = Flow rate H = Total manometric head HS = Suction height

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

▲ Performance class of the three-phase motor (IEC-60034-30)

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n= 3450 rpm HS= 0 m



MODEL	POWER (P ₂)		▲	Q	m ³ /h														
	kW	HP			0	6.0	6.6	7.5	8.4	9.6	10.8	12.0	15.0	18.0	21.0	24.0			
Three-phase				Q	0	100	110	125	140	160	180	200	250	300	350	400			
2CP 40/180C	4	5.5	IE3	H metres	64	62	61	60	59	58	56	54.5	49	43	35				
2CP 40/180B	5.5	7.5		76	73	72.5	72	71	70	69	67.5	64	59.5	54	46				
2CP 40/180A	7.5	10		88	85	84.5	84	83	82	81	79.5	76	72	67	60				

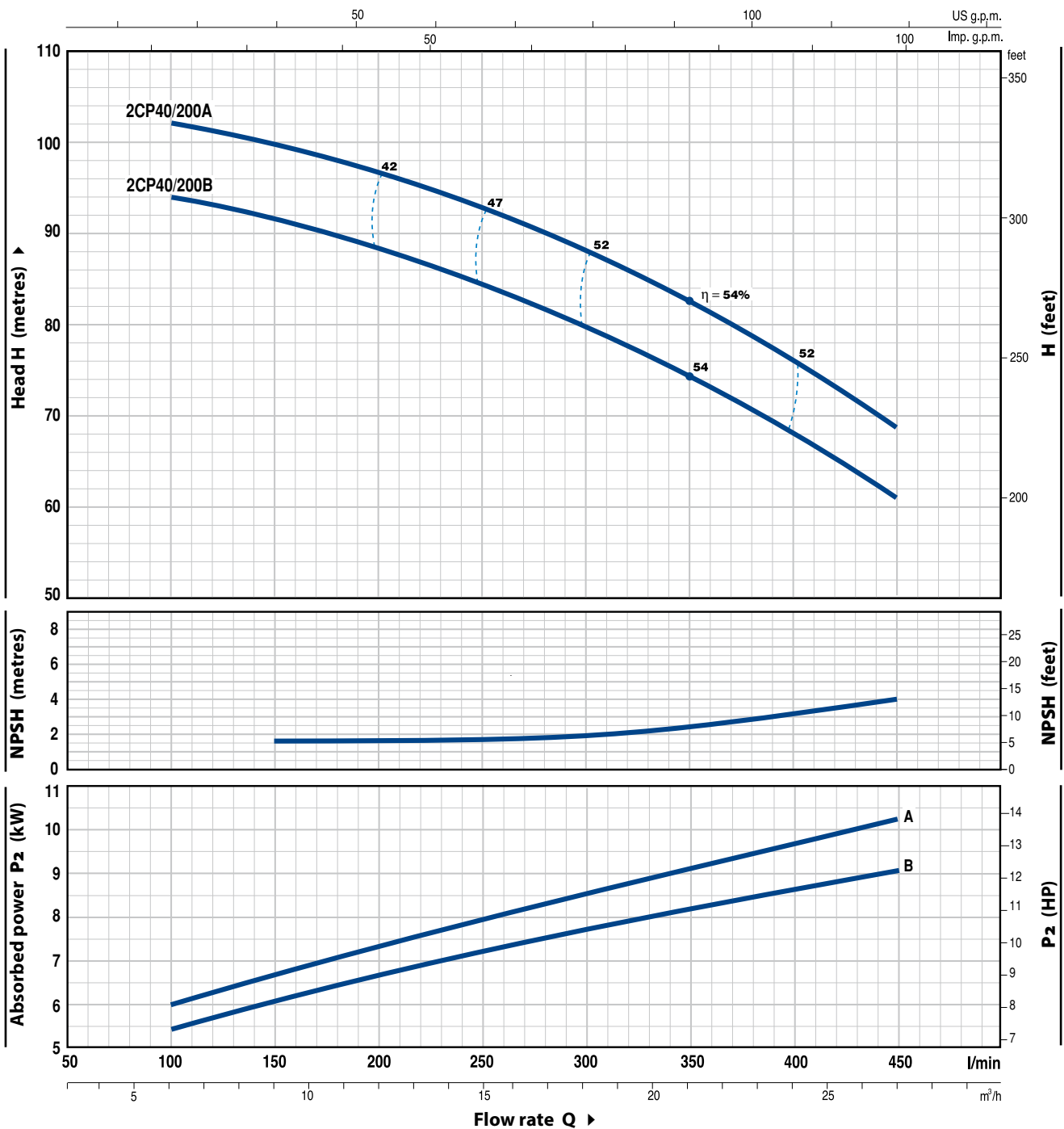
Q = Flow rate H = Total manometric head HS = Suction height

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

▲ Performance class of the three-phase motor (IEC-60034-30)

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 rpm HS = 0 m



MODEL	POWER (P ₂)		▲	Q	Flow rate												
	kW	HP			0	6.0	9	10.8	12.0	15.0	18.0	21.0	24.0	27.0			
Three-phase					0	100	150	180	200	250	300	350	400	450			
2CP 40/200B	9.2	12.5	IE3	H metres	97	94	92	90	88	85	80	74	68	61			
2CP 40/200A	11	15			105	102	100	98	97	93	88	83	76	69			

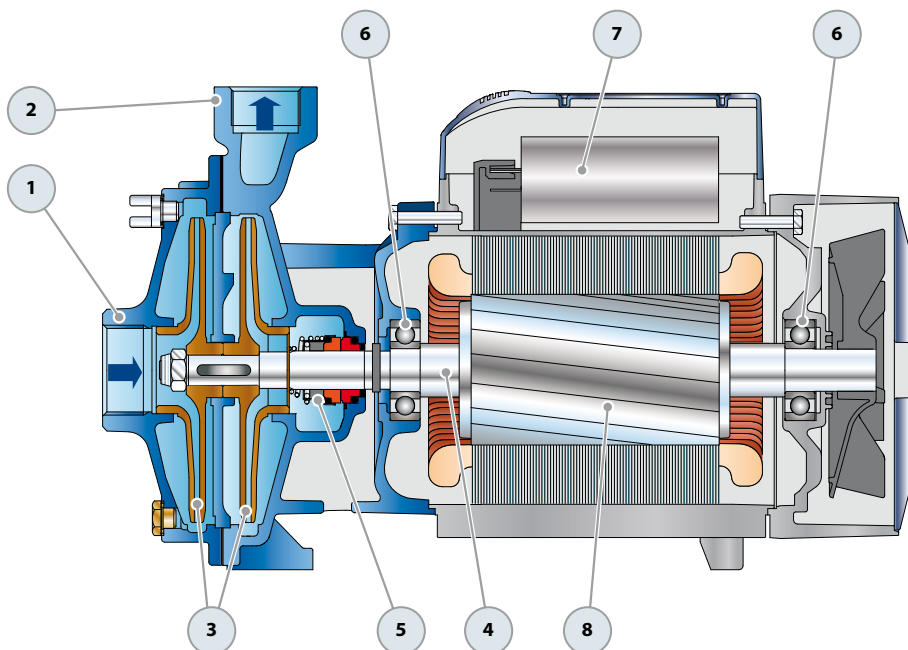
Q = Flow rate H = Total manometric head HS = Suction height

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

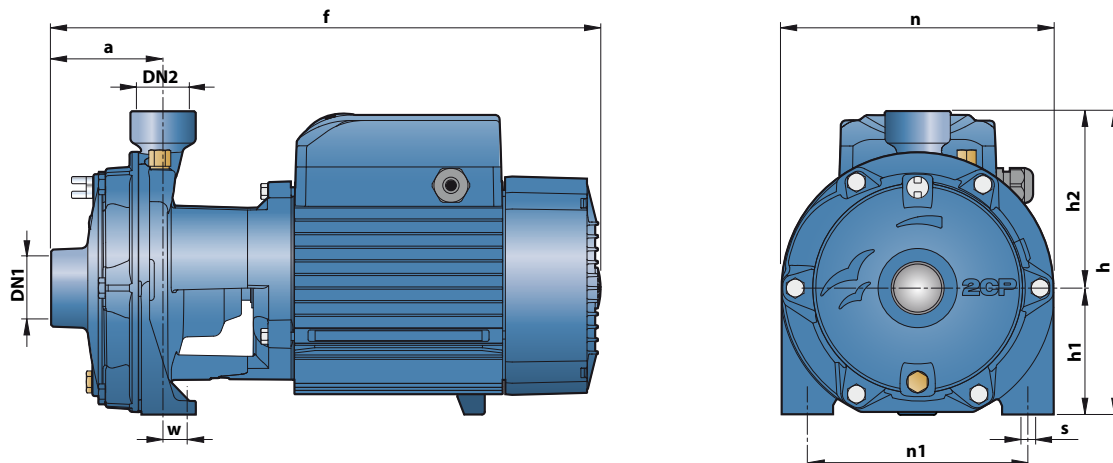
▲ Performance class of the three-phase motor (IEC-60034-30)

POS. COMPONENT CONSTRUCTION CHARACTERISTICS

1	SUCTION BODY	Cast iron complete with threaded suction port in compliance with ISO 228/1					
2	DELIVERY BODY	Cast iron complete with threaded suction port in compliance with ISO 228/1					
3	IMPELLERS	Brass					
4	MOTOR SHAFT	Stainless steel EN 10088-3 - 1.4104					
5	MECHANICAL SEAL	<i>Pump</i>	<i>Seal</i>	<i>Shaft</i>	<i>Materials</i>		
		<i>Model</i>	<i>Model</i>	<i>Diameter</i>	<i>Stationary ring</i>	<i>Rotational ring</i>	<i>Elastomer</i>
		2CP 25/14	FN-18	Ø 18 mm	Graphite	Ceramic	NBR
		2CP 25/16					
		2CP 32/200	FN-20	Ø 20 mm	Graphite	Ceramic	NBR
		2CP 32/210					
		2CP 40/180	FN-24	Ø 24 mm	Graphite	Ceramic	NBR
2CP 40/200							
2CP 40/200	FN-32 NU	Ø 32 mm	Graphite	Ceramic	NBR		
6	BEARINGS	<i>Pump</i>	<i>Model</i>				
		2CP 25/14	6204 ZZ - C3 / 6204 ZZ - C3				
		2CP 25/16					
		2CP 32/200	6206 ZZ - C3 / 6206 ZZ - C3				
		2CP 32/210	6306 ZZ - C3 / 6206 ZZ - C3				
		2CP 40/180					
		2CP 40/200	6308 ZZ - C3 / 6308 ZZ - C3				
7	CAPACITOR	<i>Pump</i>	<i>Capacitance</i>				
		<i>Single-phase</i>	<i>(220 V)</i>	<i>(110 V or 127 V)</i>			
		2CPm 25/14B	25 µF - 450 VL	60 µF - 250 VL			
		2CPm 25/16C	45 µF - 450 VL	80 µF - 250 VL			
		2CPm 25/14A					
		2CPm 25/16B	50 µF - 450 VL	-			
2CPm 25/16A							
8	ELECTRIC MOTOR	<p>2CPm: single-phase 220 V - 60 Hz with thermal overload protector incorporated into the winding. 2CP: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz</p> <p>➔ The three-phase pumps are fitted with high performance motors up to P2=1.1kW in class IE2 and from P2=1.5kW in class IE3 (IEC 60034-30)</p> <ul style="list-style-type: none"> - Insulation: class F - Protection: IP X4 					



DIMENSIONS AND WEIGHT



MODEL		PORTS		DIMENSIONS mm									kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	n	n1	w	s	1~	3~
2CPm 25/14B	2CP 25/14B	1½"	1"	82	404	223	93	130	200	162	17	10	19.3	18.8
2CPm 25/14A	2CP 25/14A					261	110	151	225	185	26	11	24.6	23.5
2CPm 25/16C	2CP 25/16C					223	93	130	200	162	17	10	19.3	18.6
2CPm 25/16B	2CP 25/16B					261	110	151	225	185	26	11	24.4	23.3
2CPm 25/16A	2CP 25/16A					434/404	261	110	151	225	185	26	11	27.1
-	2CP 32/200C	1½"	1¼"	95	464	304	132	172	266	206	19	14	-	38.0
-	2CP 32/200B												-	43.0
-	2CP 32/210B												-	54.0
-	2CP 32/210A	2"	1½"	108	542	334	139	195	292	232	21	14	-	61.0
-	2CP 40/180C												-	49.0
-	2CP 40/180B												-	54.0
-	2CP 40/180A												-	60.0
-	2CP 40/200B												-	90.0
-	2CP 40/200A	110	566	355	160	195	298	-	91.0					

ABSORPTION

MODEL	VOLTAGE		
	220 V	110 V	127 V
Single-phase	220 V	110 V	127 V
2CPm 25/14B	8.0 A	16.0 A	14.7 A
2CPm 25/14A	11.0 A	22.0 A	20.2 A
2CPm 25/16C	7.7 A	15.4 A	14.1 A
2CPm 25/16B	11.0 A	22.0 A	20.2 A
2CPm 25/16A	14.5 A	-	-

MODEL	VOLTAGE			
	220 V	380 V	220 V	440 V
Three-phase	220 V	380 V	220 V	440 V
2CP 25/14B	6.2 A	3.6 A	6.6 A	3.2 A
2CP 25/14A	8.3 A	4.8 A	7.5 A	4.0 A
2CP 25/16C	6.2 A	3.6 A	6.6 A	3.2 A
2CP 25/16B	8.3 A	4.8 A	7.5 A	4.0 A
2CP 25/16A	10.4 A	6.0 A	8.6 A	4.7 A
2CP 32/200C	14.4 A	8.3 A	14.4 A	9.0 A
2CP 32/200B	21.7 A	12.5 A	19.9 A	12.6 A
2CP 32/210B	25.0 A	14.5 A	23.0 A	13.8 A
2CP 32/210A	33.8 A	19.5 A	32.0 A	19.5 A
2CP 40/180C	19.9 A	11.5 A	19.0 A	12.9 A
2CP 40/180B	25.0 A	14.5 A	23.0 A	13.8 A
2CP 40/180A	33.7 A	19.5 A	31.0 A	19.0 A
2CP 40/200B	35.0 A	20.0 A	33.0 A	18.0 A
2CP 40/200A	40.0 A	23.0 A	40.0 A	22.0 A

PALLETIZATION

MODEL		GROUPAGE	CONTAINER
Single-phase	Three-phase	n. pumps	n. pumps
2CPm 25/14B	2CP 25/14B	50	70
2CPm 25/14A	2CP 25/14A	50	70
2CPm 25/16C	2CP 25/16C	50	70
2CPm 25/16B	2CP 25/16B	50	70
2CPm 25/16A	-	35	49
-	2CP 25/16A	50	70
-	2CP 32/200C	18	24
-	2CP 32/200B	18	24
-	2CP 32/210B	12	16
-	2CP 32/210A	12	16
-	2CP 40/180C	12	16
-	2CP 40/180B	12	16
-	2CP 40/180A	12	16
-	2CP 40/200B	6	9
-	2CP 40/200A	6	9