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2009

GENERAL CATALOGUE

PEDROLLO®
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PV

Pump with peripheral impeller

PERFORMANCE RANGE

- Flow rate up to **10 l/min** (0.6 m^3/h)
- **50 Hz**: head up to **42 m**
- **60 Hz**: head up to **55 m**

APPLICATION LIMITS

- Manometric suction lift up to **8 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Max. working pressure **10 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

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

CE

CERTIFICATIONS

АИ30

УкрТЕСТ - 003

INSTALLATION AND USE

Suitable for use with clean water and liquids that are not chemically aggressive towards the materials from which the pump is made. The design of this particularly compact brass pump offers an effective guarantee against the formation of rust and oxidation; as a result they are recommended for use in industrial applications such as cooling and conditioning.
The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

- Motor bracket: patented n° IT1243605
- Registered Community Design n° 342159-0002

OPTIONALS AVAILABLE ON REQUEST

- Special mechanical seal
- EN 10088-3 - 1.4401 (AISI 316) stainless steel motor shaft
- Other voltages
- IP55 class protection

GUARANTEE

2 years subject to terms and conditions

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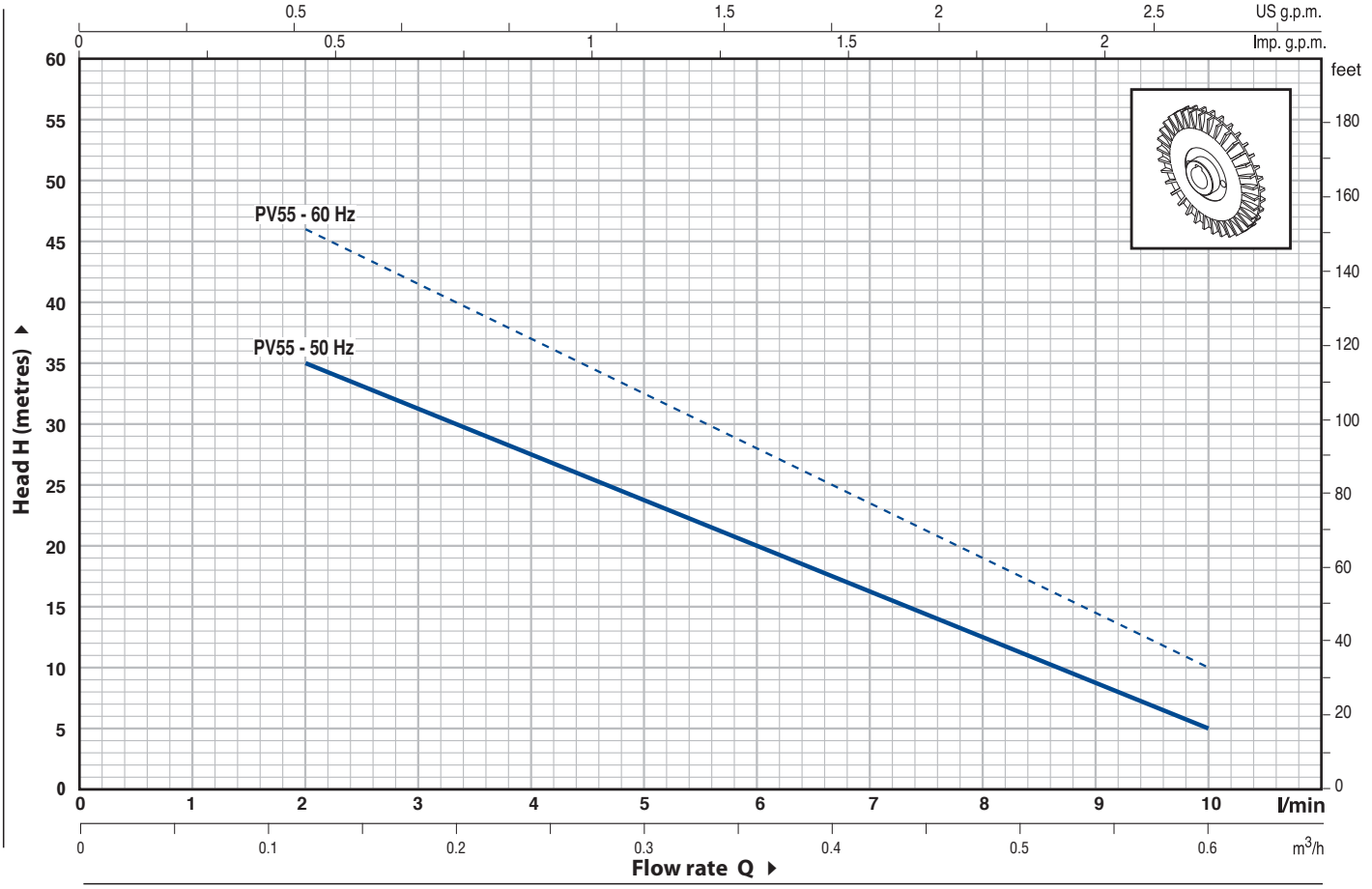
CHARACTERISTIC CURVES AND PERFORMANCE DATA

50/60 Hz **n= 2900/3450 1/min** HS= 0 m



MODEL		POWER		Q										
Single-phase	Three-phase	kW	HP		m³/h	0	0.12	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.60
					l/min	**0**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
PVm 55	**PV 55**	**0.18**	**0.25**	**H** metres	**50 Hz**	42	35	31	27.5	24	20.5	16	12.5	9	5
					60 Hz	55	46	41.5	37	32.5	28	23.5	19	14.5	10

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

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

➠ The **PV 55** pump is designed to work at **50 Hz** and **60 Hz** (see the characteristic curves)

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POS.	COMPONENT	CONSTRUCTION CHARACTERISTICS
1	**PUMP BODY**	Brass, with threaded ports in compliance with ISO 228/1
2	**PUMP BODY BACK-PLATE**	Brass
3	**MOTOR BRACKET**	Aluminium
4	**IMPELLER**	Brass, with peripheral radial vanes
5	**MOTOR SHAFT**	Stainless steel EN 10088-3 - 1.4104
6	**MECHANICAL SEAL**	***Seal*** / ***Shaft*** / *Materials*

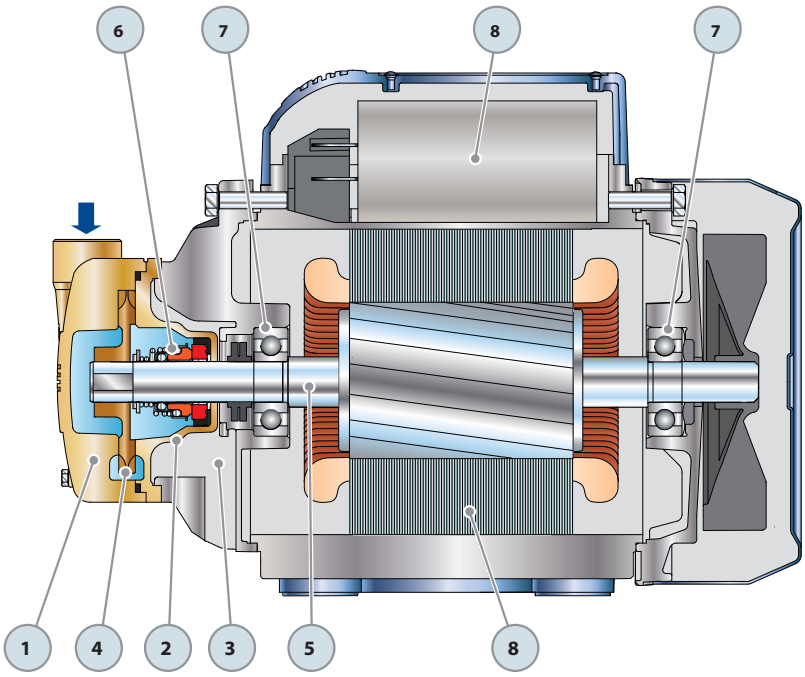
Model	***Diameter***	*Stationary ring*	*Rotational ring*	*Elastomer*
PNL-12E	**Ø 12** mm	Ceramic	Graphite	EPDM

7	**BEARINGS**	**6201 ZZ / 6201 ZZ**

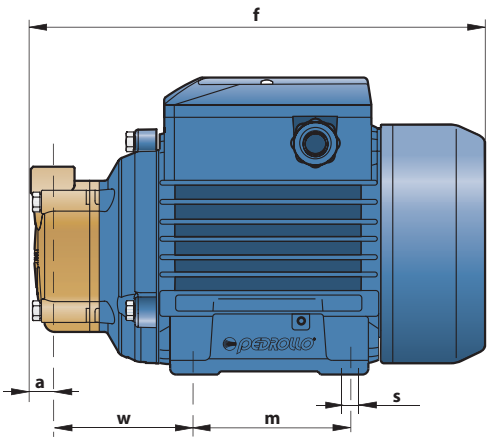
8	**CAPACITOR**	***Capacitance***

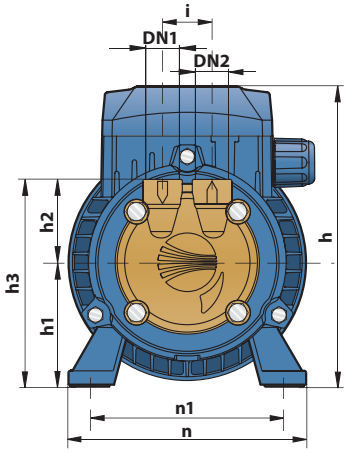
230÷240 V (50÷60 Hz)	***110 V (50÷60 Hz)***
10 µF 450 VL	**25** µF 250 VL

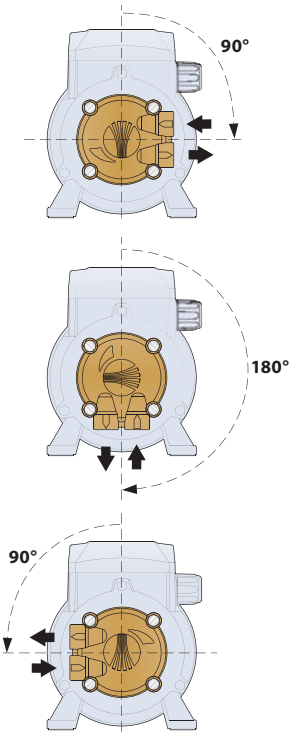
9	**ELECTRIC MOTOR**	**PVm**: single-phase 230 V - 50÷60 Hz with thermal overload protector built-in to the winding. **PV**: three-phase 230/400 V - 50÷60 Hz. ➠ **Pump fitted with the three-phase motor option offers IE2 (IEC 60034-30) class high performance** – Insulation: F class. – Protection: IP 44.



DIMENSIONS AND WEIGHT







When rotating the pump body it is also necessary to rotate the pump body back-plate

MODEL		PORTS		DIMENSIONS mm												kg	
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	i	m	n	n1	w	s	1~	3~
PVm 55	PV 55	¼"	¼"	11	223	152	63	42	105	25	80	120	100	65	7	**4.6**	**4.6**

ABSORPTION

MODEL	VOLTAGE (single-phase)		
Single-phase	230 V	240 V	110 V
PVm 55 (**50Hz**)	**1.6** A	**1.5** A	**3.2** A
PVm 55 (**60Hz**)	**2.0** A	**1.9** A	**4.0** A

MODEL	VOLTAGE (three-phase)	
Three-phase	230 V	400 V
PV 55 (**50Hz**)	**1.7** A	**1.0** A
PV 55 (**60Hz**)	**1.7** A	**1.0** A

PALLETIZATION

MODEL		GROUPAGE				CONTAINER			
		n°	H	kg		n°	H	kg	
Single-phase	Three-phase	pumps	(mm)	1~	3~	pumps	(mm)	1~	3~
PVm 55	PV 55	**192**	1460	910	910	**264**	1960	1240	1240