# **PQ-EKO** Pump with peripheral impeller

# **INDUSTRIAL USE**





#### **PERFORMANCE RANGE**

- Flow rate up to **32 l/min** (1.92 m<sup>3</sup>/h)
- Head up to 38 m

#### **APPLICATION LIMITS**

- Manometric suction lift up to 8 m
- Liquid temperature between -10 °C and +90 °C
- Ambient temperature between -10 °C and +50 °C
- Max. working pressure 6 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



CE

#### **INSTALLATION AND USE**

Suitable for use with clean water that does not contain abrasive particles and with liquids that are not chemically aggressive towards the materials from which the pump is made.

The hydraulic characteristics of these pumps, coupled with their compactness, makes them suitable for use in industrial applications. Installation needs to be undertaken in well ventilated closed areas or anyway protected from bad weather.

#### **PATENTS - TRADE MARKS - MODELS**

- Motor bracket: patent n. IT1243605
- Patent Pending n. 102018000010750

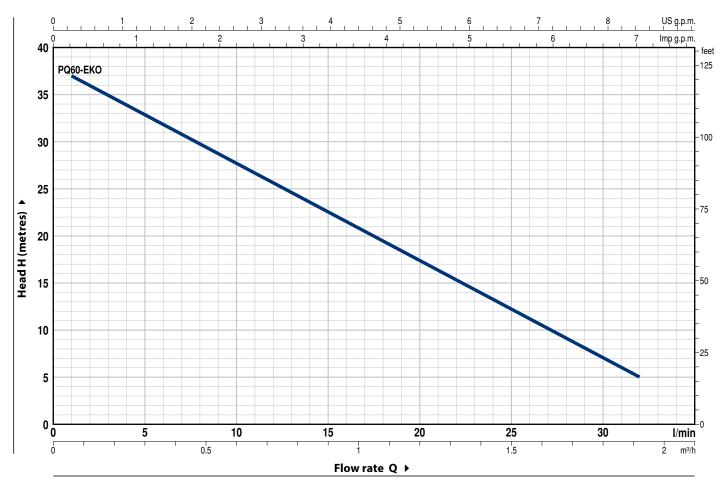
#### **OPTIONS AVAILABLE ON REQUEST**

- Special mechanical seal
- EN 10088-3 1.4401 (AISI 316) stainless steel pump shaft
- Other voltages or 60 Hz frequency



## CHARACTERISTIC CURVES AND PERFORMANCE DATA

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



мо	DEL	PO\	NER (P	2)	m <sup>3</sup> /h	0	0.06	0.3	0.6	0.9	1.2	1.5	1.8	1.92
Single-phase	Three-phase	kW	HP		l/min	0	1	5	10	15	20	25	30	32
PQm 60-EKO	PQ 60-EKO	0.37	0.50	IE3	H metres	38	37	33	27.5	22.5	17.5	12	7	5

 $\mathbf{Q} = Flow rate \ \mathbf{H} = Total manometric head \ \mathbf{HS} = Suction height$ 

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

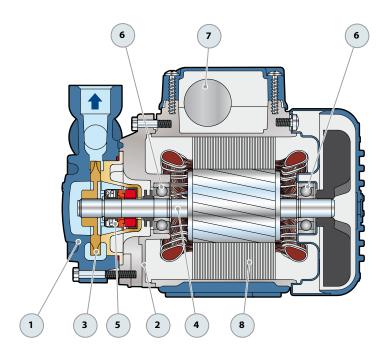
▲ Three-phase motor efficiency class (IEC 60034-30-1)

# **PQ-EKO**

# POS. COMPONENT CONSTRUCTION CHARACTERISTICS

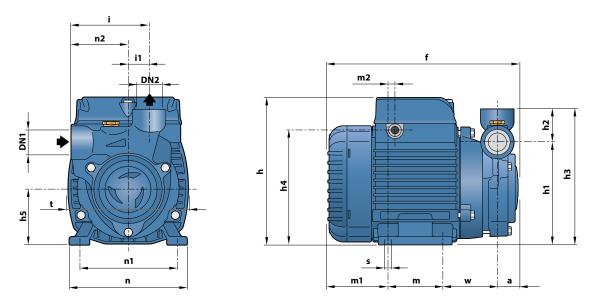
1	PUMP BODY	Cast iron	Cast iron with threaded ports in compliance with ISO 228/1										
2	MOTOR BRACKET	<b>DR BRACKET</b> Aluminium with brass insert (patented), reduces the risk of impeller seizure											
3	IMPELLER	Brass with	n peripheral ra	dial vanes									
4	MOTOR SHAFT	Stainless	steel AISI 431										
5	MECHANICAL SEAL	<b>Seal</b> Model	<b>Shaft</b> Diameter	Stationary ring	Materials Rotational ring	Elastomer							
		AR-12	<b>Ø 12</b> mm	Ceramic	Graphite	NBR							
6	BEARINGS	6201 ZZ /	6201 ZZ										
7	CAPACITOR	Capacita	nce										
		(230 V or 24	0 V)	(110 V)									
		<b>10</b> μF - 45	0 VL	<b>25</b> μF - 450 VL									
8	ELECTRIC MOTOR	PQm-EKO PQ-EKO:		e 230 V - 50 Hz with 1 e 230/400 V - 50 Hz.	thermal overload p	protector incorporate	d into the winding.						
		🗯 The pu	mp is fitted v	vith a high perform	ance motor in cla	ss IE3 (IEC 60034-30	)-1)						
		– Insulatio	on: class F										

– Protection: IP X4





# **DIMENSIONS AND WEIGHT**



мо	DEL	PO	RTS	DIMENSIONS mm							kg													
Single-phase	Three-phase	DN1	DN2	a	f	h	h1	h2	h3	h4	h5	i	i1	m	m1	m2	n	n1	n2	t	w	s	1~	3~
PQm 60-EKO	PQ 60-EKO	1⁄2"	1⁄2"	21	191	145	101	32.5	133.5	112	56	75.5	20	55	62	8	116	94   100	55.5	118	53	7	4.8	4.8

# **ABSORPTION**

MODEL	VOLT	AGE	MODEL	VOLTAGE				
Single-phase	230 V	110 V	Three-phase	230 V	400 V			
PQm 60-EKO	<b>2.5</b> A	<b>5.0</b> A	PQ 60-EKO	<b>2.0</b> A	<b>1.15</b> A			