

PQ 3000

Pump with peripheral impeller



PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3 m³/h)
- Head up to **180 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 **18 bar**
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

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



CERTIFICATIONS



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 hydraulic characteristics of this pump, coupled with its compactness, make it suitable for use in the industrial applications. The pump should be installed in an enclosed environment, or at least sheltered from inclement weather.

PATENTS - TRADE MARKS - MODELS

- Motor bracket: patent n° IT1243605

OPTIONALS AVAILABLE ON REQUEST

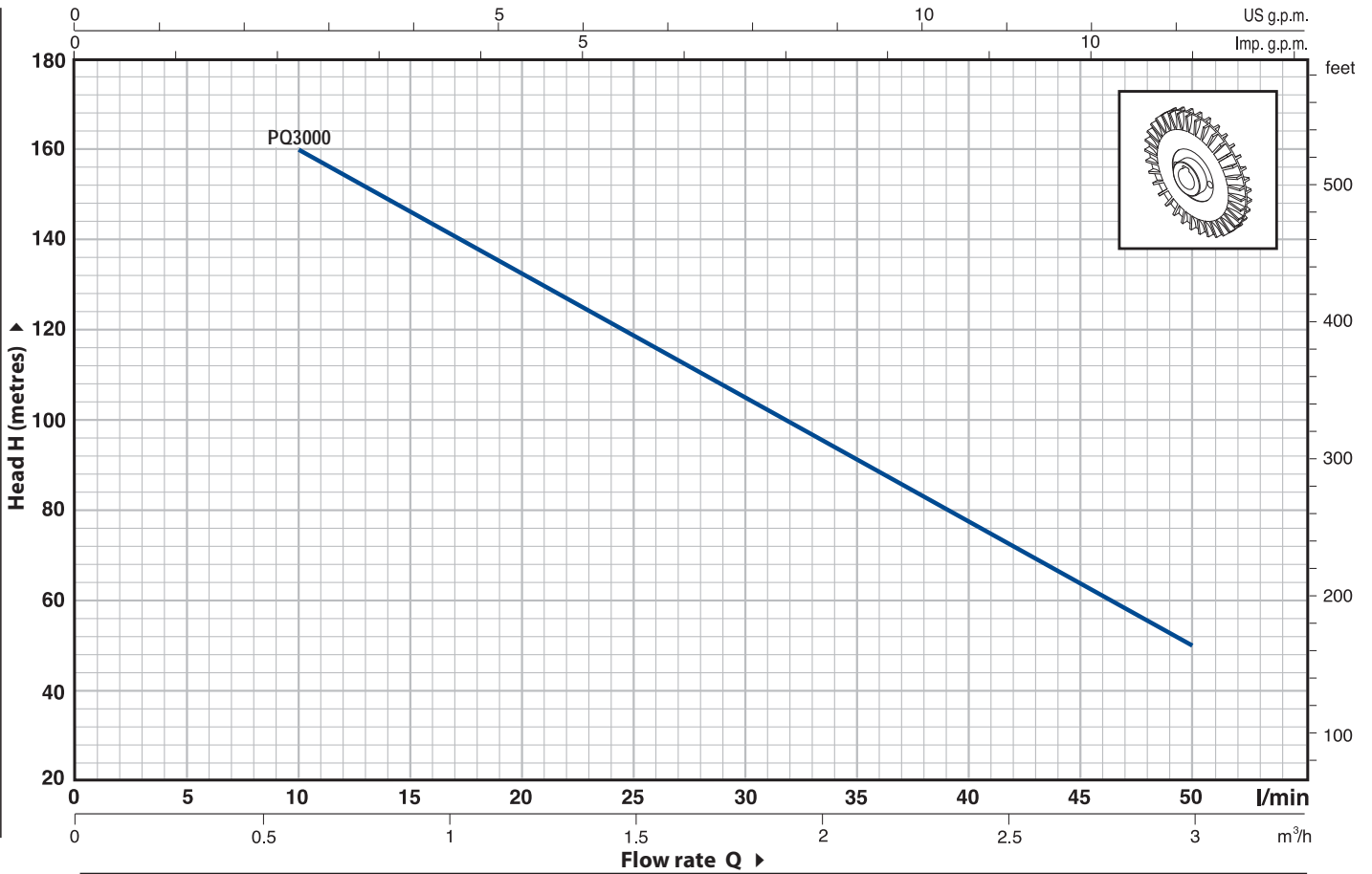
- Special mechanical seal
- EN 10088-3 - 1.4401 (AISI 316) stainless steel motor shaft
- Other voltages or 60 Hz frequency

GUARANTEE

1 year subject to terms and conditions

CHARACTERISTIC CURVES AND PERFORMANCE DATA

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



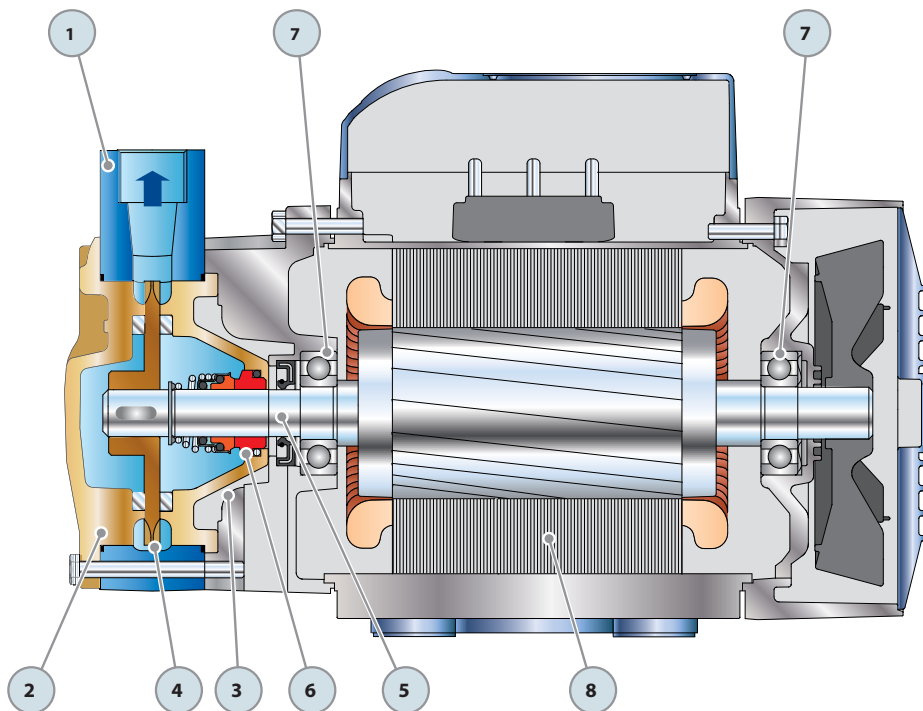
| MODEL | POWER | | Q | Flow rate | | | | | | | | | |
|----------------|-------|----|----------|-----------|-----|-----|-----|-----|-----|-----|-----|------|-----|
| | kW | HP | | 0 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 |
| Three-phase | | | | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| PQ 3000 | 2.2 | 3 | H metres | 180 | 160 | 145 | 132 | 118 | 105 | 92 | 78 | 63.5 | 50 |

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

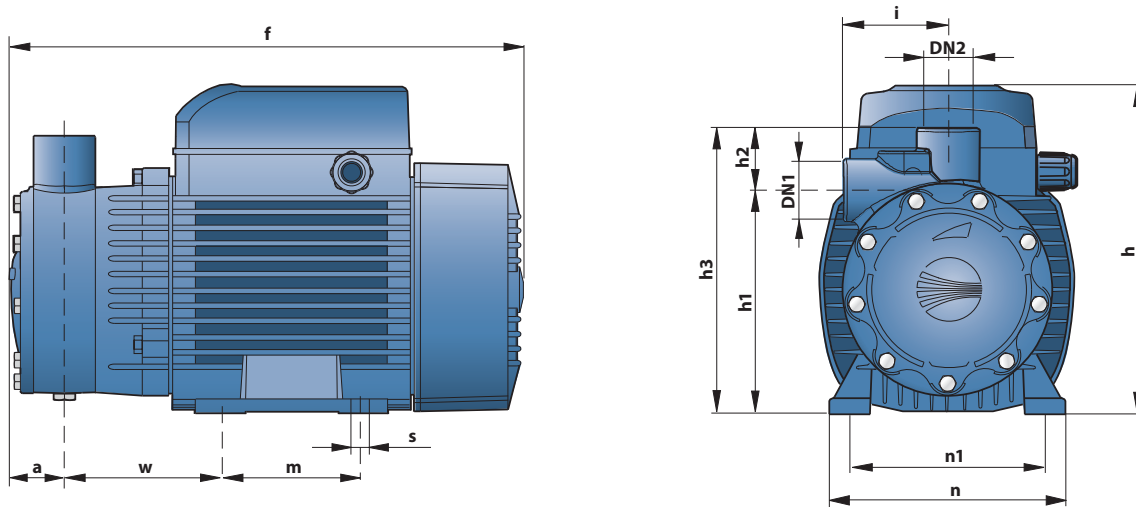
Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

PQ 3000

| POS. | COMPONENT | CONSTRUCTION CHARACTERISTICS | | | | |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|------------------------|------------------|
| 1 | PUMP BODY | Cast iron, complete with threaded ports in compliance with ISO 228/1 | | | | |
| 2 | BODY PLATE | Brass, with stainless steel shim disc | | | | |
| 3 | MOTOR BRACKET | Aluminium, with brass insert and stainless steel shim disc that reduces the risk of impeller seizure | | | | |
| 4 | IMPELLER | Bronze, with peripheral radial vanes | | | | |
| 5 | MOTOR SHAFT | Stainless steel EN 10088-3 - 1.4104 | | | | |
| 6 | MECHANICAL SEAL | <i>Seal</i> | <i>Shaft</i> | <i>Materials</i> | | |
| | | <i>Model</i> | <i>Diameter</i> | <i>Stationary ring</i> | <i>Rotational ring</i> | <i>Elastomer</i> |
| | | FN-18 NU | Ø 18 mm | Graphite | Ceramic | NBR |
| 7 | BEARINGS | 6204 ZZ - C3 / 6204 ZZ - C3 | | | | |
| 8 | ELECTRIC MOTOR | PQ 3000: three-phase 230/400 V - 50 Hz. ⇒ Pump fitted with the three-phase motor option offers IE2 (IEC 60034-30) class high performance – Insulation: H class. – Protection: IP 55. | | | | |



DIMENSIONS AND WEIGHT



| MODEL | PORTS | | DIMENSIONS mm | | | | | | | | | | | kg | | |
|-------------|-------|-----|---------------|-----|-----|-----|----|-----|----|-----|-----|-----|----|----|-------------|----|
| | DN1 | DN2 | a | f | h | h1 | h2 | h3 | i | m | n | n1 | w | | s | |
| Three-phase | | | | | | | | | | | | | | | | 3~ |
| PQ 3000 | ¾" | ¾" | 34 | 329 | 212 | 142 | 38 | 180 | 65 | 100 | 164 | 125 | 97 | 9 | 18.8 | |

ABSORPTION

| MODEL | VOLTAGE (three-phase) | | | |
|---------|-----------------------|--------------|---------------|--------------|
| | Three-phase | 230 V | 400 V | 240 V |
| PQ 3000 | 11.5 A | 6.6 A | 10.8 A | 6.2 A |

PALLETIZATION

| MODEL | GROUPAGE | | | CONTAINER | | |
|---------|-----------|--------|------|-----------|--------|------|
| | n° pumps | H (mm) | kg | n° pumps | H (mm) | kg |
| PQ 3000 | 72 | 1840 | 1380 | 84 | 2114 | 1600 |

