

PQ-Bs

Pumps with peripheral impeller



PERFORMANCE RANGE

- Flow rate up to **50 l/min** (3.0 m³/h)
- Head up to **90 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



CERTIFICATIONS



INSTALLATION AND USE

Suitable for use with clean water that does not contain abrasive particles and 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.

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
- Registered Italian model n° 72753

OPTIONALS AVAILABLE ON REQUEST

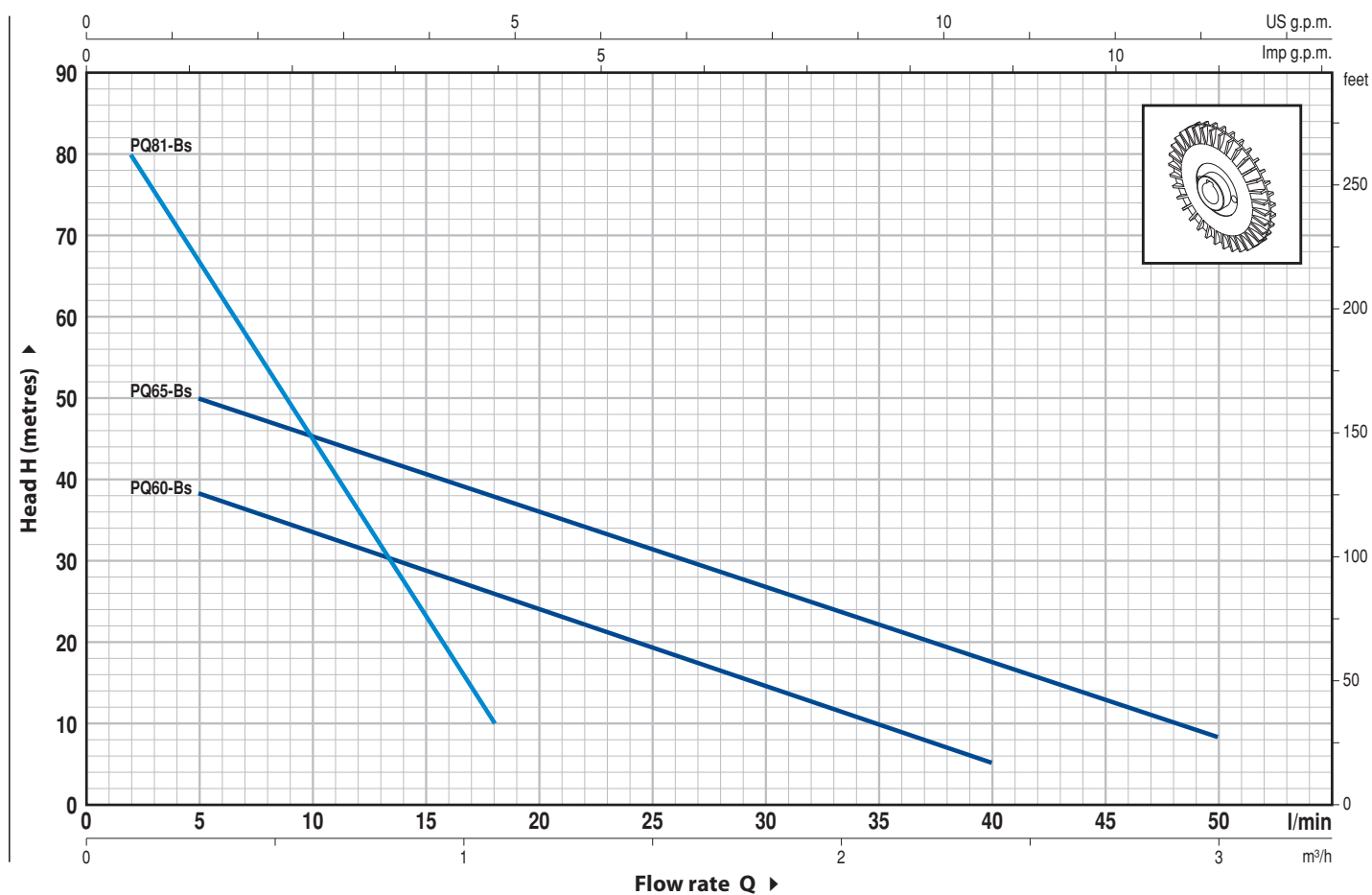
- Special mechanical seal
- Other voltages or 60 Hz frequency

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 | | | | | | | | | | | | |
|--------------|-------------|-------|------|----------|-----------|----|------|------|-----|------|-----|-----|-----|-----|-----|--|--|
| Single-phase | Three-phase | kW | HP | | m³/h | 0 | 0.3 | 0.6 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 2.4 | 3.0 | | |
| PQm 60-Bs | PQ 60-Bs | 0.37 | 0.50 | H metres | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | | | |
| PQm 65-Bs | PQ 65-Bs | 0.50 | 0.70 | | 40 | 38 | 33.5 | 29 | 24 | 19.5 | 15 | 10 | 5 | | | | |
| | | | | | 55 | 50 | 45.5 | 40.5 | 36 | 31 | 27 | 22 | 17 | 8 | | | |

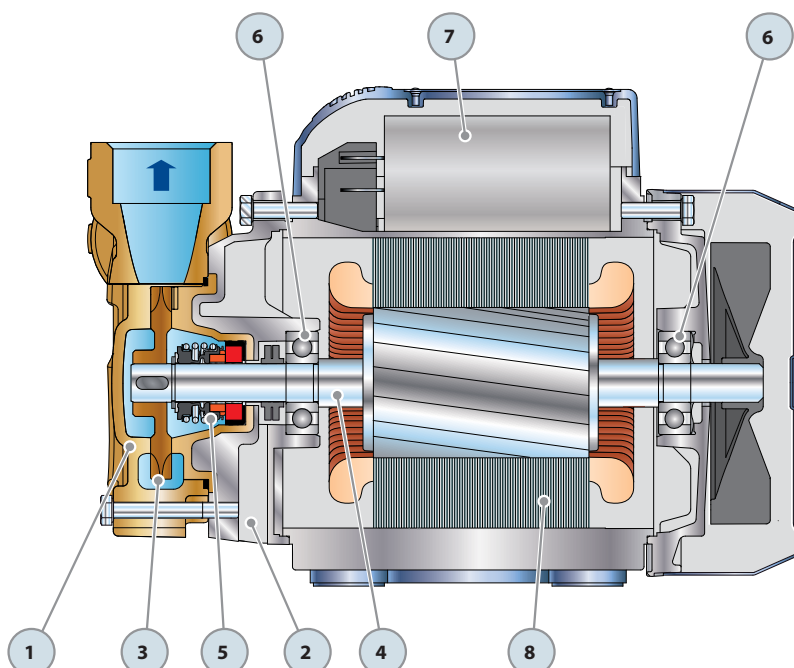
| MODEL | | POWER | | Q | Flow rate | | | | | | | | | | |
|--------------|-------------|-------|------|----------|-----------|----|------|------|------|------|------|------|------|------|------|
| Single-phase | Three-phase | kW | HP | | m³/h | 0 | 0.12 | 0.24 | 0.36 | 0.48 | 0.60 | 0.72 | 0.84 | 0.96 | 1.08 |
| PQm 81-Bs | PQ 81-Bs | 0.50 | 0.70 | H metres | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | |
| | | | | | 90 | 80 | 71 | 63 | 54 | 45 | 37 | 28 | 19 | 10 | |

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

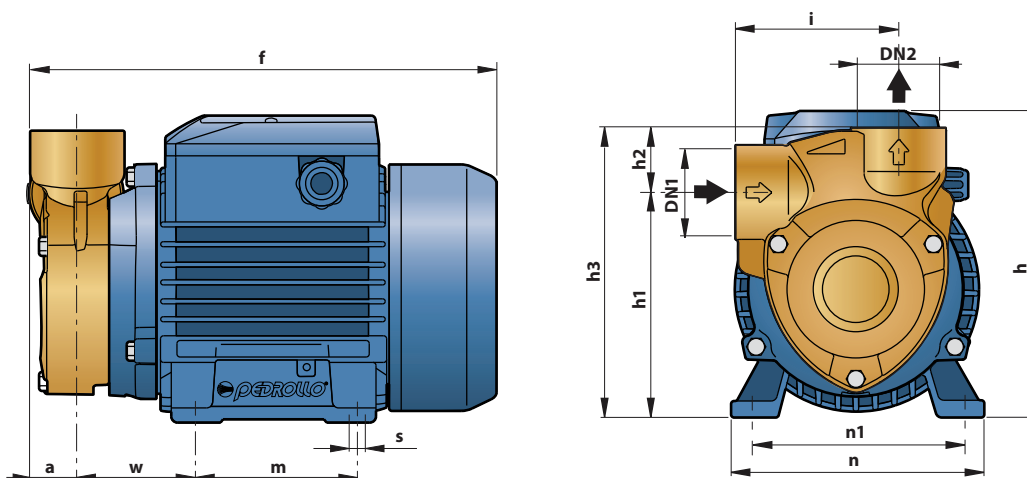
Tolerance of characteristic curves in compliance with EN ISO 9906 App. A.

| POS. | COMPONENT | CONSTRUCTION CHARACTERISTICS | | | | |
|------|-----------------|--|-------------------------|------------------------|------------------------|------------------|
| 1 | PUMP BODY | Brass, complete with threaded ports in compliance with ISO 228/1 | | | | |
| 2 | MOTOR BRACKET | Aluminium with brass insert (patented), reduces the risk of impeller seizure | | | | |
| 3 | IMPELLER | Brass, with peripheral radial vanes | | | | |
| 4 | MOTOR SHAFT | Stainless steel EN 10088-3 - 1.4104 | | | | |
| 5 | 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> |
| | | MG1-12 | Ø 12 mm | Silicon carbide | Graphite | NBR |
| 6 | BEARINGS | <i>Model</i> 6201 ZZ / 6201 ZZ | | | | |
| 7 | CAPACITOR | <i>Pump</i> | <i>Capacitance</i> | | | |
| | | <i>Single-phase</i> | <i>(230 V or 240 V)</i> | <i>(110 V)</i> | | |
| | | PQm 60-Bs | 10 µF 450 VL | 25 µF 250 VL | | |
| | | PQm 65-Bs | 14 µF 450 VL | 30 µF 250 VL | | |
| | | PQm 81-Bs | 14 µF 450 VL | 30 µF 250 VL | | |

- 8 ELECTRIC MOTOR** PQm: single-phase 230 V - 50 Hz with thermal overload protector built-in to the winding.
 PQ: three-phase 230/400 V - 50 Hz.
- ⇒ Pumps fitted with the three-phase motor option offer IE2 (IEC 60034-30) class high performance
- Insulation: F class.
 - Protection: IP 44.



DIMENSIONS AND WEIGHT



| 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~ |
| PQm 60-Bs | PQ 60-Bs | 1" | 1" | 22 | 190 | 145 | 101 | 30 | 131 | 76 | 55 | 118 | 96 | 53 | 7 | 5.4 | 5.4 |
| PQm 65-Bs | PQ 65-Bs | | | 23 | 223 | 152 | 108 | 30 | 138 | 76 | 80 | 120 | 100 | 53 | | 6.7 | 6.2 |
| PQm 81-Bs | PQ 81-Bs | ½" | ½" | 18 | 220 | 152 | 119 | 23 | 141 | 71 | 80 | 120 | 100 | 58 | | 6.5 | 6.1 |

ABSORPTION

| MODEL | VOLTAGE (single-phase) | | |
|--------------|------------------------|--------------|--------------|
| | 230 V | 240 V | 110 V |
| Single-phase | 230 V | 240 V | 110 V |
| PQm 60-Bs | 2.6 A | 2.4 A | 5.2 A |
| PQm 65-Bs | 3.7 A | 3.4 A | 7.4 A |
| PQm 81-Bs | 3.4 A | 2.7 A | 5.8 A |

| MODEL | VOLTAGE (three-phase) | | | |
|-------------|-----------------------|---------------|--------------|---------------|
| | 230 V | 400 V | 240 V | 415 V |
| Three-phase | 230 V | 400 V | 240 V | 415 V |
| PQ 60-Bs | 2.0 A | 1.15 A | 1.9 A | 1.1 A |
| PQ 65-Bs | 3.0 A | 1.7 A | 2.8 A | 1.6 A |
| PQ 81-Bs | 2.2 A | 1.3 A | 2.0 A | 1.15 A |

PALLETIZATION

| MODEL | | GROUPAGE | | | | CONTAINER | | | |
|--------------|-------------|------------|--------|------|------|------------|--------|------|------|
| Single-phase | Three-phase | n° pumps | H (mm) | kg | | n° pumps | H (mm) | kg | |
| | | | | 1~ | 3~ | | | 1~ | 3~ |
| PQm 60-Bs | PQ 60-Bs | 240 | 1440 | 1346 | 1346 | 270 | 1600 | 1508 | 1508 |
| PQm 65-Bs | PQ 65-Bs | 240 | 1440 | 1624 | 1514 | 270 | 1600 | 1827 | 1697 |
| PQm 81-Bs | PQ 81-Bs | 192 | 1460 | 1270 | 1190 | 264 | 1960 | 1740 | 1630 |

