



### Construction

Vertical close-coupled peripheral (regenerative) pumps with submerged turbine impeller, seal-less, reversible.  
 Port dimension to EN 12157.  
 Submerged depth 170 mm.

### Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials. For the reduced dimensions, these pumps are very well suited for use with temperature, controllers chillers, and air-conditioning machines and systems.

### Operating conditions

Liquid temperature: - with water up to 90 °C.  
 - oil up to 150 °C.  
 Max. kinematic viscosity: 20 mm<sup>2</sup>/s at 50 °C (2,9 °E).  
 Ambient temperature: up to 40 °C.  
 Max. depression 0,9 bar.  
 Continuous duty.

### Motor

2-pole induction motor, 50 Hz (n ≈ 2900 rpm).  
**B-VT**: three-phase 230/400 V ± 10% (220-240 / 380-415 V).  
 Insulation class F.  
 Protection IP 54.  
 Constructed in accordance with: EN 60034-1.

### Materials

Components	Materials
Pump casing	Bronze G-Cu Sn 10 EN 1982
Casing cover	Bronze G-Cu Sn 10 EN 1982
Impeller	Brass P- Cu Zn Pb 2 UNI 5705
Shaft	Chrome steel 1.4104 EN 10088 (AISI 430)
Bearing sleeve	Corrosion-resistant Cr-Mo steel
Bearing in the casing	Polymer
Screws	Cr-Ni steel 1.4301 EN 10088 (AISI 304)

### Special features on request

- Terminal box arrangement 2-3-4 in accordance with EN 12157.
- Oil temperature up to 180 °C.
- Other voltages.
- Frequency 60 Hz.
- Protection IP 55.

### Characteristic Curves with water at 20 °C (ν = 1 mm<sup>2</sup>/s) n ≈ 2900 rpm



