

NKM-G / NKP-G

STANDARDISED MONOBLOC CENTRIFUGAL ELECTRIC PUMPS



TECHNICAL DATA

Rotation speed: 1450 - 2900 1/min.

Operating range: from 1 to 460 m³/h with head of up to 96 metres.

Pumped liquid: clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral, with properties similar to water.

Pumped liquid temperature range: from -10°C to +140°C.

Maximum ambient temperature: +40 °C.

Maximum operating pressure: 16 bar - 1600 kPa (for DN 200 max 10 bar).

Flanging: PN 16 DIN 2533 - PN 10 DIN 2532 for DN 200

Protection class: IP55

Insulation class: F

Standard voltage: 230/400 V 50 Hz up to 2,2 kW included
400 V Δ 50 Hz above 2,2 kW

Installation: normally in horizontal or vertical position, provided that the motor is always above the pump.

Special executions on requests: pumps for liquids other than water.
Other voltages and/or frequencies.

APPLICATIONS

Standardised centrifugal monobloc electric pumps with coupling, designed for a wide range of applications, such as:

- Water supply.
- Hot water circulation for the heating system.
- Circulation of cold water for air conditioning and refrigeration systems.
- Transfer of liquids in agricultural, horticultural, and industrial environments.
- Installation of pumping assemblies.

CONSTRUCTION FEATURES OF THE PUMP

Cast iron single stage spiral body complying with DIN-EN 733 (formerly DIN 24255), cast iron support, flanges complying with DIN 2533, and DIN 2532 for DN 200. Cast iron impeller, closed and dynamically balanced, with compensation of the axial thrust through balancing holes, operation on interchangeable wear rings (on request). AISI 304 stainless steel pump shaft.

Seal device: standardised mechanical seal according to DIN 24960 in carbon/silicon carbide with EPDM OR rings.

CONSTRUCTION FEATURES OF THE MOTOR

Closed asynchronous type motor with external ventilation, B3/B5 construction, two poles for NKP and four poles for NKM. Rotor running on ball bearings, largely oversized to ensure low noise and durability. For the protection of the motor, we recommend the use of remote overload cut-outs, in compliance with current local regulations. For liquids with densities higher than water, motors with proportionally higher powers are required.

Construction according to the standard: CEI 2-3.

IE2 motors as standard from 0,75 kW - IE3 ≥ 7,5 kW (IE2 ≥ 7,5 kW only outside the EU)