


Vibrating Motor



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Vibrating Motor

AMIT ELECTRICALS is a manufacturer, exporter, and supplier of vibrating motors. The external vibrator is a three-phase or single-phase synchronous motor with eccentric (unbalanced) weights mounted at the ends of the rotor shaft. The rotating shaft generates centrifugal forces, and the vibration can be adjusted by moving the weights. Also known as vibratory motors, unbalanced motors, vibro motors, or vibrating motors, these devices help in various machine applications such as compacting, conveying, and assorting.

I Specifications

RANGE OF PRODUCTIONS (3 Phase)

- ✓ 0.25 to 15 HP (0.18 to 11 kW)
- ✓ Pole : 2, 4, 6, 8, 10 & 12
- ✓ Voltage : $415 \pm 5\%$, $50 \text{ Hz} \pm 3\%$
- ✓ Different voltages and frequencies are also available such as 220, 380, 460, 525 in 50 or 60 Hz.

RANGE OF PRODUCTIONS (1 Phase)

- ✓ 0.25 to 2.0 HP
- ✓ Pole : 2, 4
- ✓ Voltage : $215 \pm 5\%$, $50 \text{ Hz} \pm 5\%$
- ✓ On customer request we also supply 110 volts on 50 / 60 Hz.

I Frame

- ✓ Robust, rugged cast iron frame with integral feet.

I Ratings

- ✓ All vibrating motors are continuous (S1) rated.

I Design

- ✓ A vibratory motor is a three-phase synchronous motor with unbalanced weights on the rotor shaft.
- ✓ Rotation of the shaft creates centrifugal force, generating vibrations.
- ✓ Vibration intensity is adjustable by repositioning the unbalanced weights.

I Vibration Proof Motor Winding

- ✓ Vibratory motors use Class F insulation for safe, continuous operation at high ambient temperatures.
- ✓ The motor is tropicalized for reliable performance in humid or harsh environments.
- ✓ Designed to operate efficiently across a wide voltage range.

I Protection

- ✓ Ingress Protection (IP-44) as defined in IS : 4691.
- ✓ IP-54 and IP-55 on request.

I Insulation

- ✓ Class "F" insulation as standard feature.
- ✓ Class "H" insulation on request.

I Rotor

- ✓ High-pressure E.C. grad aluminum die-cast.
- ✓ Rotor is dynamically balanced. Low amplitude of vibration & noise.

I Shaft

- ✓ Made from high-carbon steel for exceptional strength and rigidity.
- ✓ Rotor is securely locked with a positive joint to prevent movement under full load torque.

I Bearing & Lubrication

- ✓ Bearings are selected for long life in continuous operation.
- ✓ Motors are permanently lubricated; large models allow re-lubrication.
- ✓ Special grease is used for vibration resistance.

I Enclosure

- ✓ Supplied with enclosure T.E.S.C. (Totally Enclosed Surface Cooled).

I Thermal Overload Protection

- ✓ T.O.P. (Thermal Overload Protector) switch on customer demand.
- ✓ Added safety against overload protection.

I Earthing Terminals

- ✓ Minimum 2 earthing terminals provided.

I Paints

- ✓ Semi glossy synthetic enamel paint.
- ✓ Special paint is available on request.

I Application

- ✓ Vibratory motors are used across various industries, including mining, food, construction, pharma, ceramic, foundry, steel, chemical, recycling, and plastic industries.

I Features

- ✓ Highly efficient
- ✓ Economical price
- ✓ Durable
- ✓ Precision design
- ✓ Smooth finishing
- ✓ Long Life



 <https://www.youtube.com/watch?v=JTdTPp0LXgU>

