

Technical features

Power supply

In direct current at 12 or 24V.

Conformity with European Directives

Electromagnetic compatibility 2004/108/EC,
Low Voltage 2006/95/EC.

Functioning

Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and our operating conditions. For detailed information contact our technical assistance office.

Centrifugal force

Range extended up to 1520 Kgf. (14,9 KN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

Ambient temperature

From -20°C to +40°C.

Fixing of the vibrator

In all positions and therefore without restriction.

Lubrication

Sealed ball bearings, lubricated "for life".

Terminal box

On MF models it's positioned underneath the vibrator, on the same side as the fixing base.

Electric motor

Direct current with permanent magnet poles. The rotor is a wound brush-type with collector.

Casing

In high-tensile aluminium alloy.

Bearing flange

Constructed in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress.

Eccentric weights

Enable continuous adjustment of the centrifugal force. This adjustment is facilitated by a graduated scale that expresses the maximum centrifugal force. A patented system (patent N°MO98A000194) called ARS prevents adjustment errors.

Weight covers

In alluminum alloy for models 3/100-MF, 3/200-MF and 3/500; in AISI 304 stainless steel for models 3/1200 and 3/1500.

Painting

Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 200°C. Tested in salt spray for 500 hours.

Other features

All MVCC electric vibrators have been tested in semi-anechoic chamber to verify conformity with the standards and directives on electromagnetic compatibility. The MVCC series is supplied with a special high-resistance synthetic rubber power supply cable measuring 2.5 m.

| | Description | | Mechanical specifications | | | | Electrical specifications | | | |
|-------------|-------------|----------------------|---------------------------|------------------------|-------------------|-------------|---------------------------|-------------------|------|------|
| | Code | Type | rpm | Static moment* kgmm | Centrifugal force | | Max input power W | Max. current A | | |
| | | | | | kg | kN | | 12 V | 24 V | |
| three-phase | 600411 | MVCC 3/100-MF | 3000 | 12.0 | 120 | 11.9 | 5.0 | 100 | 8.0 | 4.0 |
| | 600428 | MVCC 3/200-MF | 3000 | 21.0 | 211 | 2.07 | 6.0 | 190 | 16.0 | 8.0 |
| | 600469 | MVCC 3/500 | 3000 | 49.9 | 503 | 4.93 | 13.1 | 270 | 22.5 | 11.3 |
| | 600405 | MVCC 3/1200 | 3600 | 78.0 | 1130 | 11.1 | 20.8 | 530 | - | 22.0 |
| | 600464 | MVCC 3/1500 | 3600 | 105 | 1520 | 14.9 | 21.5 | 530 | - | 22.0 |

* Working moment = 2 x static moment.

Dimensional specifications (mm)

| Fig. | A | B | C | Holes | | | | F | H | I | L | M | N | P | Cable entry thread | | | |
|-------------|----|-----|-------|-------|--------------|-----------------|------------|-------------|---------------|------|----|-----|-----|-----|--------------------|---------|----|---------|
| | | | | D | E | øG | N° | | | | | | | | | | | |
| three-phase | MB | 206 | 146.5 | 162 | 65-74** | 80-115-135 | 140-106** | 110-135-115 | 13-9-11-11-11 | 4 | 25 | 88 | 46 | 103 | 157 | 117 | 82 | M20x1.5 |
| | MB | 263 | 146.5 | 162 | 65-74-80-115 | 140-106-110-135 | 13-9-11-13 | 4 | 25 | 88 | 46 | 103 | 140 | 117 | 82 | M20x1.5 | | |
| | A | 288 | 203 | 167 | 105 | 140 | 13 | 4 | 30 | 82.5 | 65 | 145 | 140 | 160 | - | M25x1.5 | | |
| | A | 308 | 214.5 | 205 | 120 | 170 | 17 | 4 | 45 | 93.5 | 63 | 168 | 160 | 182 | - | M25x1.5 | | |
| | A | 308 | 214.5 | 205 | 120 | 170 | 17 | 4 | 45 | 93.5 | 63 | 168 | 160 | 182 | - | M25x1.5 | | |

** Slot.

Fig. A

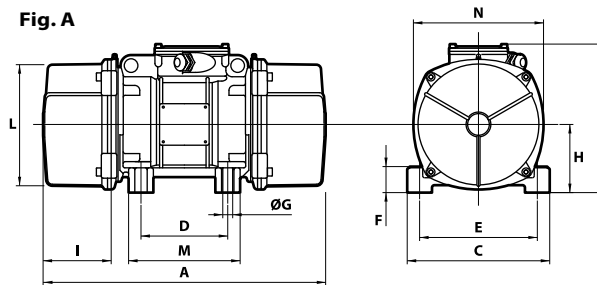


Fig. MB

