

M3 / 65



The M3/65 vibrator represents a particular version deriving from the internal components of the MVSI series, in which the casing has the terminal box on the same side as the fixing base.

The M3/65 was conceived to minimize overall height, for positioning on vibrating machines with little space and, using its multi-hole fixing, to adapt to different drilling spaces.

The M3/65 series complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive powders. In particular, the M3/65 series can be used in areas 21 and 22.

Category: II 2 D
Level of protection: tD A21 IP66
Temperature class: 120°C
EC certificate: LCIE 05 ATEX 6163 X
Areas of use: 21, 22

Technical features

Power supply

Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity

2 poles.

Conformity with European Directives

Low Voltage 73/23/CE; Electromagnetic Compatibility 89/336/CE

Reference Regulations

EN 60034-1, EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2

Functioning

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

Centrifugal force

Up to 88 kgf (863 N).

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Shock-proof protection

IK 08 according to IEC 68, EN 50102.

Insulation class

Class F (155°C).

Tropicalization

Standard with vacuum impregnation.

Environmental temperature

From -30°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator heat protection

On request with PTC thermistor rated heat detectors 130°C (DIN 44081-44082).

Fixing of the vibrator

In all positions and therefore without restriction. The terminal

box is positioned underneath the vibrator, on the same side as the fixing base. Before fixing the vibrator it is therefore necessary to carry out the electric connection to the network power supply.

Lubrication

All vibrators are lubricated in the factory and do not require further lubrication if used in normal operating conditions.

Terminal box

The terminal box is positioned underneath the vibrator, on the same side as the fixing base. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor

Three-phase or single-phase asynchronous type. Insulated windings using vacuum encapsulating. The rotor is die cast aluminium.

Casing

In high-tensile aluminium alloy, with sanded surface.

Bearing flange

Constructed in sintered steel. 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

Thin plate-type, consent step-by-step control using the variation of the number of weights mounted.

Weight covers

In galvanised steel.

Certifications



Regulation CAN/CSA - C22.2 N. 100-95, file n° LR100948 Class 4211 01 – Motors and generators.



Mechanical protection IP66 (EN 60529), shock-proof protection IK 08 (EN 50102)



II 2 D, tD A21 IP66 IEC/EN 61241-0, IEC/EN 61241-1 Certificate n. LCIE 05 ATEX 6163X

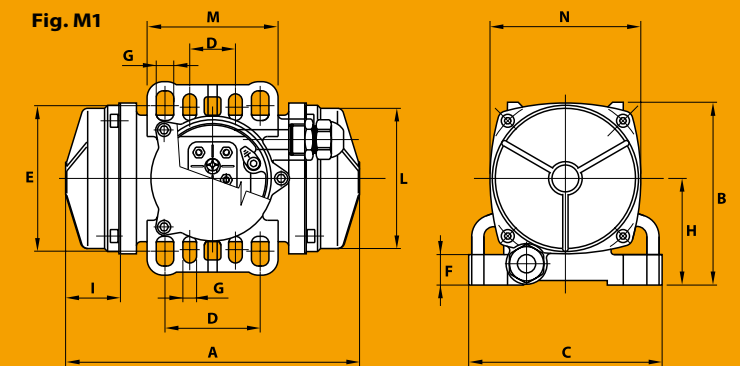


Gost-R certificate for all models of vibrators: GOST 16264.1, GOST 16264.0, GOST R 51689.



Comply with the applicable European Union directives

Fig. M1



2 poles - 3000/3600 rpm

	Description					Mechanical specifications								Electrical specifications									
	Code	Type	SIZE	II2D Temp. class	Ex	Static moment* kgmm		Centrifugal force				Weight				Max input power W		Max. current A				Ia/In	
						50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz		
three-phase	600223	M3/65	00	•	120°C	6.11	6.11	62.0	88.0	0.608	0.863	4.10	4.10	120	120	0.27	0.23	3.43	3.90				
single-phase	600223	M3/65	00	•	120°C	6.11	6.11	62.0	88.0	0.608	0.863	4.10	4.10	110	110	0.56	1.52	2.24	2.24				

* Working moment = 2 x static moment. Ia/In = ratio between start-up current and maximum current.

Type	Fig.	Dimensional specifications (mm)																Cable entry thread
		A	B	C	Multi-hole		Holes				Condenser (µF)							
					D	E	øG	N°	F	H	I	L	M	N	220 V 50 Hz	115 V 60 Hz		
M3/65	M1	193	120	127	30	85	9	4	20	70	36	96	86	99	-	-	M20x1,5	
M3/65	M1	193	120	127	60	100	9	4	20	70	36	96	86	99	10	28	M20x1,5	
					65	85												
					62	106												