



Designed for continual industrial service, the M3 series has its terminal board box under the electric vibrator to occupy as little space as possible and a low center of gravity, a more compact design and well protected electric contacts.

Multi-holed clamping means M3 electric vibrators can adapt to the different drilling axle bases.

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

Category: II 2 D

Level of protection: t D 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 480V, to 50Hz or 60Hz or single-phase 100-130V to 60Hz and 200-240V to 50Hz (single-phase types are supplied without capacitor); suitable frequency from 20 to the plate frequency, with constant torque, with frequency variator.

Polarity

2 poles standard.

Conformity with European Directives

ATEX 94/9/CE, Low voltage 2006/95/CE.

Reference Regulations

IEC / EN 61241-0, IEC / EN 61241-1, EN 60034-1.

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

Range extended to 311 Kg_f. (3.05 kN), with centrifugal force adjustable from 0 to 100%.

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 -20°C to +40°C.

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.

Lubrication

Pre-lubricated bearings. They don't need further lubrication or maintenance (lubrication "FOR LIFE").

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 fine 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

Allow you to reduce maximum centrifugal force to zero in a simple way.

Weight covers

In high-tensile aluminium alloy, with fine sanded surface.

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)



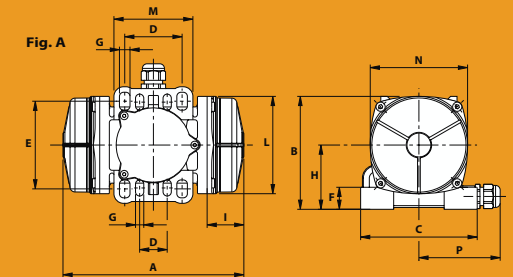
II 2 D, tD A21 IP66 IEC/EN 61241-0, IEC/EN 61241-1 Certificate n. LCIE 05 ATEX 6163X



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



Comply with the applicable European Union directives



2 poles - 3000/3600 rpm

	Description				Mechanical specifications								Electrical specifications					
	Code	Type	SIZE	I12D Temp. class	Static moment* kgmm		Centrifugal force kg				Weight kg		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	400 V 50 Hz	460 V 60 Hz	50 Hz	60 Hz
three-phase	600467	M3/65-S02	00	• 120°C	6.43	6.43	64.7	93.1	0.635	0.913	4.3	4.3	120	120	0.27	0.23	3.43	3.90
	600465	M3/105-S02	00	• 120°C	9.64	9.64	97.0	140	0.950	1.37	5.2	5.2	180	180	0.35	0.30	2.68	3.00
	600462	M3/205-S02	00	• 120°C	21.0	21.0	211	304	2.07	2.98	6.0	6.0	180	180	0.35	0.30	2.68	3.00
	600461	M3/305-S02	00	• 120°C	31.0	21.0	311	304	3.05	2.98	6.3	6.0	180	180	0.35	0.30	2.68	3.00
single-phase	600467	M3/65-S02	00	• 120°C	6.43	6.43	64.7	93.1	0.635	0.913	4.3	4.3	110	110	0.56	1.52	2.24	2.24
	600465	M3/105-S02	00	• 120°C	9.64	9.64	97.0	140	0.950	1.37	5.2	5.2	165	165	0.75	1.52	1.67	2.24
	600462	M3/205-S02	00	• 120°C	21.0	21.0	211	304	2.07	2.98	6.0	6.0	165	165	0.75	1.52	1.67	2.24
	600461	M3/305-S02	00	• 120°C	31.0	21.0	311	304	3.05	2.98	6.3	6.0	165	165	0.75	1.52	1.67	2.24

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

Type	Fig.	Dimensional specifications (mm)																
		A	B	C	Multi-hole		Holes		F	H	I	ØL	M	N	P	Condenser (µF)	Cable entry thread	
					D	E	øG	N°								220 V 50 Hz	115 V 60 Hz	
M3/65-S02	A	197																
M3/105-S02	A	211	123	127	30 - 60 65 - 62	85 - 100 85 - 106	9	4	24	70	40	106	86	106	88,5	-	-	M20x1,5
M3/205-S02	A	235									47							
M3/305-S02	A	235									59							
M3/65-S02	A	197	123	127	30 - 60 65 - 62	85 - 100 85 - 106	9	4	24	70	40	106	86	106	88,5	10	28	M20x1,5
M3/105-S02	A	211									47							
M3/205-S02	A	235									59							
M3/305-S02	A	235									59							