

# **MICRO**



The MICRO series has been designed for continual industrial service in processes where a reduced centrifugal force and reduced overall vibrator size are required.

MICRO vibrators are used in numerous applications in feeding, transport, screening, sizing, separation processes, compaction in the automatic machines used in the chemical industry, food industry, pharmaceuticals, packaging and automation in general. The MICRO series has been conceived to guarantee higher performance in all conditions and environments and complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive powders. In particular, the MICRO series can be used in area 22.

# Category: II 3 D

Level of protection: tD A22 IP65 Temperature class: T 100°C Area of use: 22

# **Technical features**

# **Power supply**

Three-phase voltage from 24V to 480V, 50/60Hz or single phase 100-130V, 50/60Hz and 200-240V, 50/60Hz (in the standard singlephase version, the capacitor is already included in a case along the power supply cable); suitable for use with an inverter from 20 to 60Hz to the base frequency with constant torque load profile.

### Polarity 2 poles.

Conformity with European Directives ATEX 94/9/CE; Low voltage 2006/95/CE.

# Reference Regulations IEC/EN 61241-0, IEC/EN 61241-1,

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 65 Kgf. (638 N), with centrifugal force adjustable from 0 to 100%. Mechanical protection IP 65 according to IEC 529, EN 60529.

Insulation class Class F (155°C).

**Tropicalization** Standard on all vibrators.

**Environmental temperature** From -20°C to +40°C.

**Fixing of the vibrator** In all positions and therefore without restriction.

# Lubrication

Prelubricated bearings. They don't need further lubrication or maintenance (lubrication "FOR

# **Electric motor**

LIFE").

Three-phase and single-phase asynchronous type. The M3/4 model can only be supplied in the single-phase version and does not require a capacitor. Models M3/20 and M3/45 can be supplied both in three-phase and single-phase versions. The capacitor is already included in a case along the power supply cable.

#### Casing

In high-tensile light aluminium alloy with polished surface.

## **Eccentric weights**

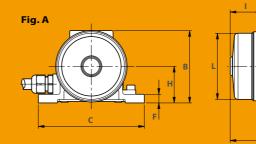
Thin plate-type, allow step-by-step adjustment through variation of the number of weights mounted or their rotation.

#### Weight covers

In stainless steel AISI 304.

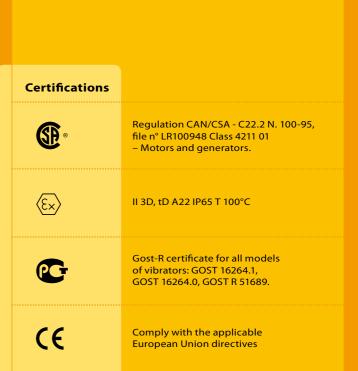
# Other features

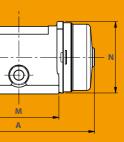
The Micro series standard models are supplied with power supply cable (2 meters for M3/20-S02, M3/45-S02 and 1 meter for M3/4-S02) and, in the models requiring it, a capacitor inserted into a special enclosure in-line with the cable. CSA certification can be supplied on request. The supplied product is not equipped with a capacitor (neither along the cable nor in other positions), therefore the user must install one as per Standard.

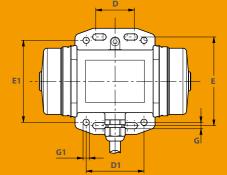


		Description	Description		Mechanical specifications							Electrical specifications			Dimensional specifications (mm)																		
		Æ		Ex II 3D Temp.	Static moment* kgmm		Centrifugal force kg N			N	Weight kg	Max input power W	Max. current		Туре	Fig.		B	c	п	D1	F	F1	F	6	Ho øG1	oles N°	ц			м	Ν	Cable entry thread
	Code	Туре	<b>S₽</b> ∙	class	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz 60 Hz	z 50 Hz	380/ 50/6	480 V 50 Hz																			thread
ee- ase	600449	M3/20-S02		100°C	2.0	2.0	20	29	196	284	1.97 1.97	35	0.	.15	M3/20-S02	Α	157	75	110	25-40	60	92	85	9	6.5	6.5	8	38	33	69	83	74	M16x1.5
축면	600450	M3/45-S02		100°C	4.5	4.5	45	65	441	638	2.20 2.20	45	0.16		M3/45-S02	Α	172	75	110	25-40	60	92	85	9	6.5	6.5	8	38	40.5	69	83	74	M16x1.5
	220/240 V 110/115 V 50/60 Hz 50/60 Hz																			/													
ase	600448	M3/4-S02		100°C	0.4	0.4	4	6	39	59	0.92 0.92	24	0.13	0.30	M3/4-S02	Α	113	66.5	90	25-40	-	75	-	9	5.5	-	4	34	25	60	59	65	M12x1.5
le-ph	600449	M3/20-S02		100°C	2.0	2.0	20	29	196	284	1.97 1.97	35	0.17	0.42	M3/20-S02	Α	157	75	110	25-40	60	92	85	9	6.5	6.5	8	38	33	69	83	74	M16x1.5
sing	600450	M3/45-S02		100°C	4.5	4.5	45	65	441	638	2.20 2.20	45	0.20	0.46	M3/45-S02	Α	172	75	110	25-40	60	92	85	9	6.5	6.5	8	38	40.5	69	83	74	M16x1.5

The CSA version can be supplied on request and does not envision supply of the condenser..









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