

MVSI-ACC



Shaft projecting from one side

The MVSI-ACC series, deriving directly from the MVSI series, is characterised by the motor shaft projecting from one side, allowing in-line coupling, using a coupling, between two equal vibrators. The MVSI-ACC series is very useful for manufacturers of large screens and vibrating machines, or for plants that require very high centrifugal force values.

With two vibrators of the MVSI-ACC series coupled in line, it is possible to arrive at a centrifugal force of 50.000 Kgf (490kN). Italtibras technical staff can help the user in the choice of the coupling as well as in the application of the vibrators.



Technical features

Power supply

Three-phase voltage from 230V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency, with constant torque load profile.

Polarity

6 standard poles, other polarities on request.

Conformity with European Directives

Low voltage 73/23/CE; Electromagnetic Compatibility 89/336/CE, ATEX 94/9/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.

Centrifugal force

Range extended up to 50000 Kgf. (490 KN) for the couple of vibrators, 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), class H (180°C) on request.

Tropicalization

Standard on all vibrators, with vacuum impregnation or with "drop by drop" trickle system.

Environmental temperature

From -30°C to +60°C. Versions for

higher or lower temperatures are available on request.

Vibrator heat protection

With PTC rated thermistor heat detectors 130°C (DIN 44081-44082). On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator

In all positions and therefore without restriction. Linear coupling using dynamic joint between the two vibrators.

Lubrication

All vibrators are correctly lubricated in the factory and do not require further lubrication if used in normal operating conditions. In heavy duty operating conditions periodical re-lubrication methods may be applied.

Terminal box

Large fixed electrical connections. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor

Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to vibrating machines. Insulated windings using "drop by drop" trickle system with class H resin. The rotor is die cast aluminium.

Casing

In ductile cast iron to guarantee sturdiness and elasticity. Patented shape that improves heat dispersion and lowers normal working temperature at full load.

Bearing flange

Constructed in ductile cast iron. The geometry of the flange transmits the load to the casing uniformly.

Bearings

Custom made with particular geometry, especially designed for Italtibras, suitable to support both high radial and axial loads.

Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress. Projecting from one side to allow linear coupling using a joint.

Eccentric weights

Allow continual adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum cen-

trifugal force. A patented system (patent N°MO98A000194), called ARS, prevents adjustment errors.

Weight covers

In aluminium alloy, from the shaft exit side the weight cover is sectioned: it is made up from two halves, which guarantee opening even after coupling between the two vibrators.

Painting

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

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)



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



Comply with the applicable European Union directives

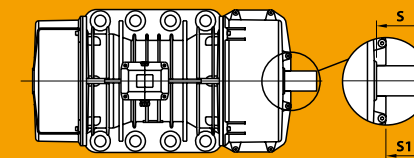
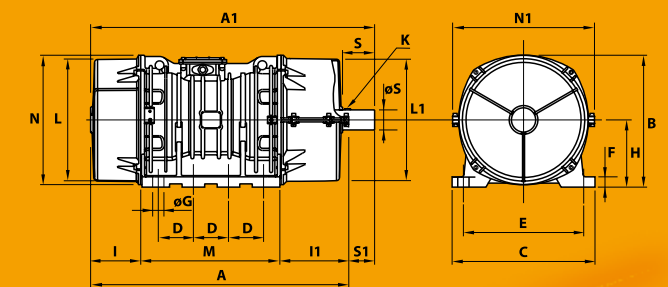


Fig. T



6 poles - 1000/1200 rpm

	Description		SIZE	CSA	Mechanical specifications						Electrical specifications						Dimensional specifications (mm)																								
	Code	Type			Static moment* kgmm		Centrifugal force kN				Weight kg		Max input power W		Max. current A		Ia/In		Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	A1	L1	I1	N1	øS	Shaft extension			Cable entry thread
					50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	380 V 50 Hz	460 V 60 Hz	50 Hz	60 Hz							øG	N°												S	S1	k key	
three-phase	602301	MVSI 10/15000-S90-ACC	105	□	12662	8700	14155	14004	139	137	649	611	10600	11270	19.0	18.0	5.88	5.78	T	1030	526	570	140	480	45	8	41	268	200	486	545	516	1133	490	270	566	80	128	103	22x14x50	M32x1,5
	602300	MVSI 10/17500-S90-ACC	105	□	15500	10439	17327	16804	170	165	711	662	13000	19700	24.5	23.0	5.71	5.96	T	1070	526	570	140	480	45	8	41	268	240	486	545	516	1179	490	270	566	80	134	109	22x14x70	M32x1,5
	602319	MVSI 10/22000-S90-ACC	110	□	20025	12553	22386	20208	220	198	933	903	19000	19000	33.0	25.5	4.67	5.88	T	1175	607	610	140	520	45	8	38	297	297.5	542	510	582	1234	546	322.5	616	105	90.5	59	28x16x70	M32x1,5
	602313	MVSI 10/25000-S90-ACC	110	□	22364	-	25000	-	245	-	970	-	19000	-	33.0	-	4.67	-	T	1175	607	610	140	520	45	8	38	297	297.5	542	510	582	1270	546	322.5	616	105	126.5	95	28x16x70	M32x1,5

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

Ia/In = ratio between start-up current and maximum current.