MVSI-ACC

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 2006/95/EC.

Reference Regulations
EN 60034-1.

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 55 according to IEC 529, EN 60529.

Protection against mechanical impacts
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 encapsulation or with "drop by drop" trickle system.

Ambient temperature
From -20°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator thermal 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 ("FOR LIFE, lubrication"). 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 spheroidal 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 spheroidal cast iron.
The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, 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 centrifugal force. A patented system (patent N° MO98A000194), called ARS, prevents adjustment errors.

Weight covers
In aluminium alloy, from the shaft extension 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.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI-ACC

6 poles - 1000/1200 rpm

	Description				Mechanical specifications								Electrical specifications					
	Code	Type	SIZE		Static moment* kgmm		Centrifugal force kg		Centrifugal force kN		Weight kg		Max input power W		Max. current A 400 V	Max. current A 460 V	I_A/I_N	
					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	602301	**MVSI 10/15000-S02-ACC**	105	□	12662	8700	**14155**	**14004**	**139**	**137**	649	611	10600	11270	19.0	18.0	5.88	5.78
	602300	**MVSI 10/17500-S02-ACC**	105	□	15500	10439	**17327**	**16804**	**170**	**165**	711	662	13000	19700	24.5	23.0	5.71	5.96
	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
	602313	**MVSI 10/25000-S90-ACC**	110	□	22364	14785	**25000**	**23800**	**245**	**233**	970	938	19000	19000	33.0	25.5	4.67	5.88

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.
I_A/I_N = ratio between start-up current and maximum current.

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MVSI-ACC

6 poles - 1000/1200 rpm

		Dimensional specifications (mm)																				
					Holes														Shaft extension			
	Fig.	A	B	C	D	E	øG	N°	F	H	I	L	M	N	A1	L1	I1	N1	øS	S	S1	k key	Cable entry thread
three-phase	T	1030	526	570	140	480	45	8	41	268	200	486	510	516	1133	490	270	566	80	128	103	22x14x50	M32x1,5
	T	1070	526	570	140	480	45	8	41	268	240	486	510	516	1179	490	270	566	80	134	109	22x14x70	M32x1,5
	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
	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

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

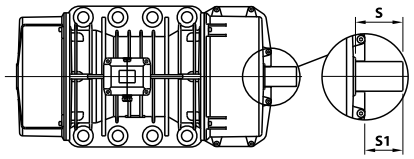
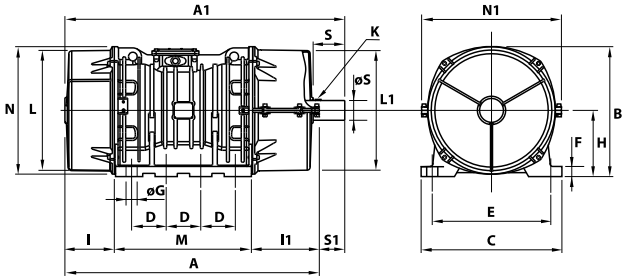


Fig. T



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