

Technical features

Power supply

Three-phase voltage from 220V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity

4 poles.

Conformity with European Directives

Low Voltage 2006/95/EC,
ATEX 94/9/EC.

Reference Regulations

IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 61241-0, IEC/EN 61241-1,
EN 60034-1.

Controls

The components that affect protection are 100% accurately controlled and recorded.

Functioning

Continual service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force

Proportioned for a centrifugal force equal to 5000 Kgf. (49 KN), with eccentric weights not included, to be made by the user.

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

Insulation class

Class F (155°C).

Tropicalization

Standard with "drop by drop" trickle system.

Ambient temperature

From -10°C to +40°C, on request it is possible to have vibrators for maximum ambient temperatures of +55°C in temperature class T3.

Vibrator thermal protection

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

Fixing of the vibrator

In all positions and therefore without restriction.

Lubrication

All vibrators are 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 may be applied.

Electrical connection box

The size guarantees passage of tools used for fixing the vibrator to the vibrating machine. The electrical connection must be carried out using the relative connectors inserted inside the connection box. 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 requirements of vibrating machines. Insulated windings using "drop by drop" system with class H resin. The rotor is die cast aluminium.

Casing

In spheroidal cast iron to have high strength and optimal elasticity. An external earthing screw is located on the casing as prescribed by Regulation IEC/EN 60079-0.

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 Italtvibras, suitable to support both high radial and axial loads.

Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress.

Eccentric weights

Not envisioned, to be made and mounted by the user.

Weight covers

Not envisioned.

Painting

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

Stainless steel protection

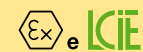
On request, corrosion high grade protection (stainless steel micro suspensions in a polyurethanic paint) is available.

4 poles - 1500/1800 rpm

	Description			Mechanical specifications						Electrical specifications										
	Code	Type	Poles	Centrifugal force				Weight kg	Temp. class (G)	Temp. class (D)	Max input power W		Power rating W		Max. current A		t _E (s)	I _s /I _n		
				rpm	kg	kN	50 Hz				60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	400 V 50 Hz			460 V 60 Hz	
three- phase	6E1223	VB 15/2510-D-E	4	1500	1800	2500	2500	24.5	24.5	68	T3 T4	150°C	1700 1220	1800 1350	1390 1030	1480 1100	2.85 2.38	2.80 2.30	7 6	6.70 7.76
	6E1378	VB 15/5000E-LM	4	1500	1800	5000	5000	49.0	49.0	101	T3	135°C	3200	3700	2560	2800	5.70	5.45	6	7.00

t_E (s) = set time t_E from IEC/EN 60079-7. I_s/I_n = ratio between start-up current and maximum current.

VB-E



4 poles - 1500/1800 rpm

		Dimensional specifications (mm)											
	Type	Fig.	A	øB	C	D	E	F°	G	H	I	L	Cable entry thread
three-phase	VB 15/2510-D-E	H	517.5	281	152.5	30	26	14	85.3	136.6	35	108	M32x1.5
	VB 15/5000E-LM	H	555	342	208	48	48	25	106.5	110	60.5	70	M32x1,5

