

Vibration Exciter System

MB Energizer BLACK

Parameter	
Maximum excitation force	Requires cooling, uncooled operation up to 50% of max. excitation force
Sine	2000 N pk
Random	1200 N RMS
Peak force (instantaneous)	4000 N pk
Max. payload, excitation (both vertical and horizontal)	25 kg (55 bs.) vertical; 12 kg (25 lbs.) horizontal
Max. payload with air spring, vertical	90 kg (200 lbs.)
Weight-Armature plus mounting table	9.2 kg (20 lbs.)
Acceleration, 5 kg payload, uncooled	7.2 g's pk (4.3 g's RMS)
Acceleration, 15 kg payload, uncooled	4.0 g's pk (2.4 g's RMS)
Acceleration, 30 kg payload, uncooled	2.5 g's pk (1.5 g's RMS)
Accelerations with forced air cooling	2X uncooled
Mounting table diameter (standard)	250 mm (10")
Surface mounting pattern	50 mm x 50 mm (M6)
Inserts and bolt-hole pattern	M6 (1/4"-28), 50 mm x 50 mm
Frequency range (less with air spring)	DC to 2500 Hz
Operating background noise	Using a typical S&R test profile
Noise rating curve (NR)	NR18
Sound Pressure Level [dB(A)]*	<28 dB(A)
N10 Time Varying Loudness**	<0.2 sone
Stroke pk-pk	50 mm
Suspension driven-axis stiffness	33 kN/m (190 lb/in)
Suspension transverse-axis stiffness	1700 kN/m (9500 lb/in)
Max. displacement at test item, pk-pk	50 mm (2")
Max. velocity, pk	1.5 m/s (60 in/sec)
Weight including trunnion and HMT mounting base	668 kg (1474 lbs.)
Energizer mounting base footprint	609 mm x 483 mm (24" x 19")
Height to top of mounting table	812 mm (32")
CE mark	Yes
Power requirements	6000 watts, max.
Recommended amplifier	P Series Power Amplifiers
Amplifier input power	208, 220, 240 VAC, 50-60 Hz, single phase
Amplifier dimensions, 19" rack; taller cabinets available for PC & instruments	800 mm x 760 mm (31.5" D x 30" H)
Weight of power amplifier	136 kg (300 lbs.)
Temperature and overtravel control	Included

* A-weighted, FAST (125 ms) Sound Pressure level over the complete AUDIO frequency range from 20 Hz to 20 kHz

** N10 Time Varying Loudness in accordance with DIN45631/A1, measured in accordance with GMW14011

NOTE: Specs for Energizers with various ratio lever arms available upon request.

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