

L0315M-PAS103 - System Datasheet



DESCRIPTION

Air-cooled system ideally suited to testing small-sized electronic parts, connectors, hand-held units and small mechanical assemblies.

- Force 300 kgf (sine and random)
- Continuous displacement 40 mm (1.6 in)
- Useable frequency range 5 - 4500 Hz
- Max static payload 120 kg (264 lb)
- Air-cooled amplifier efficiency > 90%
- Air-isolation mounts to eliminate need for seismic floor
- Degauss coil

OPTIONS AND ACCESSORIES

Sentek Dynamics offers a wide-selection of options and accessories for unique applications and complete turn-key systems.

- Mono-base slip tables in a wide-range of sizes and configurations for maximum over-turning moment and cross-axial restraint
- Thermal barriers for use with environmental test chambers

TECHNICAL INFORMATION L0315M-PAS103

System Performance	Metric	Imperial
Sine Force Peak (kgf / N) Lbf	300 / 2940	660
Random Force rms (kgf / N) Lbf	300 / 2940	660
Shock Force (6 ms) kgf (lbf/N)	600 / 5880	1.320
Useful Frequency Range Hz	5-4500	5-4500
Continuous Displacement pk-pk mm (in)	40	1.6
Shock Displacement pk-pk mm (in)	40	1.6
Max Velocity m/s (in/s)	2	78.7
Max Acceleration Sine Peak m/s ² (g)	980	100

Shaker	MODEL L0315M	
Armature Diameter mm (in)	150	5.9
Armature Material	Mg	Mg
Effective Armature Mass kg (lb)	3	6.6
Armature Insert Pattern PCD mm (in) plus 1 in center	6-60 / 6-120	6-2.362 / 6-4.724
Armature Insert Threads	M8	5/16-18UNC
First Resonant Frequency (bare table) $\pm 5\%$ Hz	3450	3450
Max Static Payload kg (lb)	120	264
Natural Frequency Thrust Axis Hz	< 5	< 5
Stray Flux Density gauss	< 10	< 10
Shaker Weight Uncrated kg (lb)	370	815
Shaker Dimensions Uncrated (W x D x H) mm (in)	720x530x655	28.4x20.9x25.8

Power Amplifier	MODEL PAS103	
Number of Sub-modules Supplied	1	1
Rated Power Output kVA	3	3
Rated Output Voltage V rms	100	100
Rated Output Current A rms	32	32
Number of Cabinets	1	1
Dimensions Uncrated (W x D x H) mm (in)	580x850x950	22.8x33.5x37.4
Amplifier Weight Uncrated kg (lb)	170	374
System Required Power kVA	5	5

Blower Unit	MODEL 350	
Flow rate m ³ /s (ft ³ /s)	0,22	7.76
Standard Air Hose Length m (ft)	4	13.1
Hose Diameter mm (in)	125	4.9
Dimensions (W x D x H) mm (in)	570x380x610	22.4x14.9x24.0
Blower Unit Weight Uncrated kg (lb)	33	72.7

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