

TECHNICAL PARAMETERS Vibration exciter S 50009

Rated peak force S_{pk}	9 N
Frequency range	2-20000 Hz
Main resonance frequency	> 13000 Hz
Max. displacement Peak-Peak ¹	3 mm ¹
Max. velocity Sine	1.5 m/s
Max. acceleration Sine	60 g
Suspension stiffness	4 N/mm
Effective moving mass	0.015 kg
Total mass without/with trunnion	1.7 kg / 2.2 kg
Armature coupling thread size	7 mm / M4

1) Specimen mass has an impact on the possible maximum displacement

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:

Vibration exciter
Power amplifier
Connection cable (3 m(9.8 ft))
Power cable (1.5 m(4.9 ft))
for amplifier (CEE 7/7 connector)

Options:

Trunnion mount (see right picture above)
Cable extension
Factory acceptance test

Features:

Vibration isolation
High cross-axial stiffness
Minimum maintenance effort
Made in Germany
Service hotline

TECHNICAL PARAMETERS Power Amplifier BAA 120 (limited for S 50009)

Output power P_{RMS} max.	120 VA
Frequency range (small signal / full power)	DC - 100 kHz / 40 Hz - 25 kHz
Voltage-/Current mode	yes/yes
Voltage P_{RMS} max.	22 V
Current P_{RMS} max.	4 A
Signal input voltage P_{pk}	3.5 V
Distortion THD (frequency range 40 Hz to 5 kHz)	< 0.05 %
Signal to noise ratio	> 100 dB(A)
Total mass	9 kg
Dimensions (WxHxD)	440 x 100 x 290 mm
Power supply (Standard)	1 ~ / N / PE 230 V $\pm$ 5% 50/60 Hz CEE 7/7
Recommended fuse protection (Standard)	16 A slow
Max. power consumption at 230 V	50 VA
Interlocks:	Overload, Temperature, Clipping

Features:

- High Signal to noise ratio of > 100 dB(A)
- Monitoring outputs for voltage and current
- Option for power supply of 100 V or 120 V $\pm$ 5% 50/60 Hz



S 50009 (Example drawing) (mm)

