Vibration Test System TV 50018

TECHNICAL PARAMETERS Vibration exciter S 50018

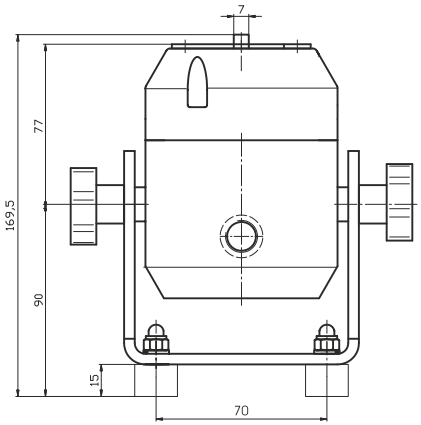
Rated peak force Sine$_{pk}$	18 N
Frequency range	2 - 20000 Hz
Main resonance frequency	>13000 Hz
Max. displacement Peak-Peak[1]	5 mm[1]
Max. velocity Sine	1.5 m/s
Max. acceleration Sine	65 g
Suspension stiffness	4.4 N/mm
Effective moving mass	0.028 kg
Total mass without/with trunnion	3.7 kg / 5.0 kg
Armature coupling thread size	7 mm / M4

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





S 50018 (Example drawing) (mm)

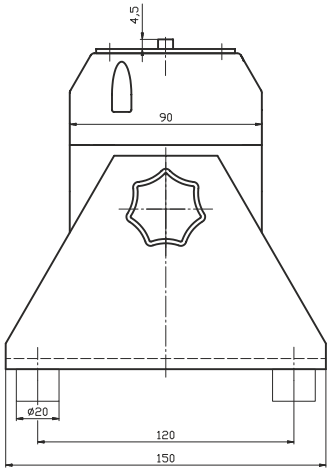


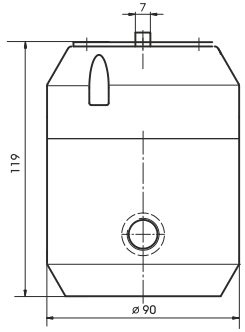
SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

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 BDA 60

Continuous sine output power, max.	60 VA
Frequency range (small signal / full power)	DC - 100 kHz / 40 Hz - 20 kHz
Voltage-/Current mode	yes/no
Voltage$_{RMS}$, max.	22 V
Current$_{RMS}$, max.	4 A
Signal input voltage$_{PK}$ (at 1 khZ sine for max. power)	3.5 V
Distortion THD (frequency range 40 Hz to 20 kHz)	< 0.1 %
Signal to noise ratio	> 100 dB(A)
Total mass	2 kg
Dimensions (W x H x D)	240 x 48 x 226 mm
Power supply	1~ / N / PE 100..230 V±5% 50/60 Hz CEE 7/7
Recommended fuse protection	16 A slow
Max. power consumption	100 VA
Interlocks:	Overcurrent, Temperature

Features:
- High Signal to noise ratio of > 100 dB(A)
- Low Distortion factor (THD) of < 0.1 %





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Subject to modifications