

TECHNICAL PARAMETERS Vibration exciter S 51140

Rated peak force Sine _{pk} /Random _{RMS} ¹	400/311 N
Frequency range	2 - 6500 Hz
Main resonance frequency	>5500 Hz
Max. displacement Peak-Peak ²	20 mm
Max. velocity	1.5 m/s
Max. acceleration Sine/Random	100/50 g
Suspension stiffness	5 N/mm
Effective moving mass	0.4 kg
Total mass	18 kg
Armature diameter	60 mm

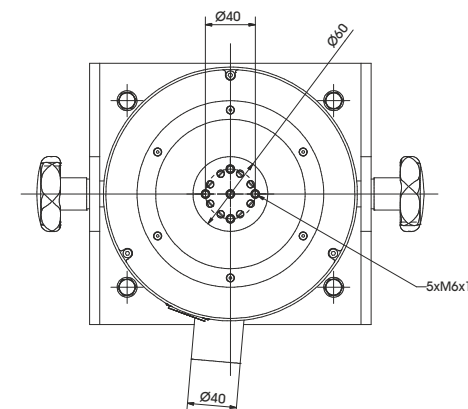
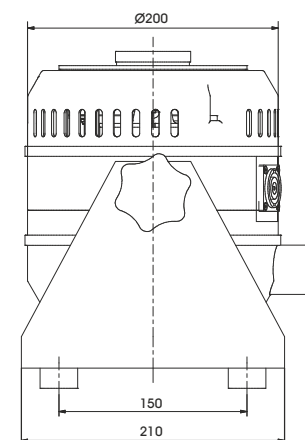
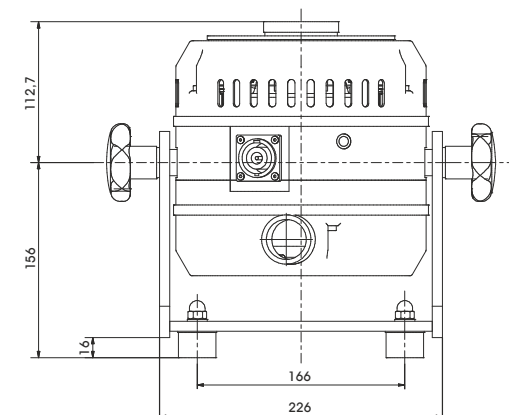
1) Random force according to ISO 5344:2004

2) Payload has an impact on the possible maximum displacement

For long-term tests, the load must be reduced to 80 %. Continuous operation at maximum load can cause damage.



S 51140 (Example drawing) Dimensions in mm



SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:

Vibration exciter
Trunnion mount
Power amplifier
Cooling blower
Connection cable (5 m)
Power cable amplifier (1.5 m)
Blower hose Ø40 mm (3 m)

Options:

Different thread inserts of armature
at customers request
Rack for mounting the amplifier
Degauss kit to reduce stray magnetic field
Silencer
for cooling blower (Noise reduction up to 8 dB(A))
Acoustic enclosure
for cooling blower (Noise reduction 15 - 23 dB(A))
Modal adapter M6
Stinger (see Modal brochure for details)
Cable extension
Factory acceptance test

Features:

Vibration isolation
Coarse filter unit
High cross-axial stiffness
Light weight construction by using
rare earth magnet
Minimum maintenance effort
Made in Germany
Servicehotline

TECHNICAL PARAMETERS Amplifier BDA 1300

Output power _{RMS} , max.	1300 VA
Frequency range	DC - 25 kHz
Voltage-/Current mode	yes/yes
Voltage _{RMS} , max.	72 V
Current _{RMS} , max.	18 A
Signal input voltage _{PK}	3.5 V
Distortion	< 0.1 %
Signal to noise ratio	> 90 dB(A)
Total mass	22 kg
Dimensions (WxHxD)	440 x 90 x 450 mm
Power supply (Standard)	1 ~ / N / PE 230 V±5% 50 Hz, CEE 7/7
Recommended fuse protection (Standard)	16 A slow
Max. power consumption at 230 V	1.22 kVA
Interlocks:	Overload, temperature, clipping

Features:

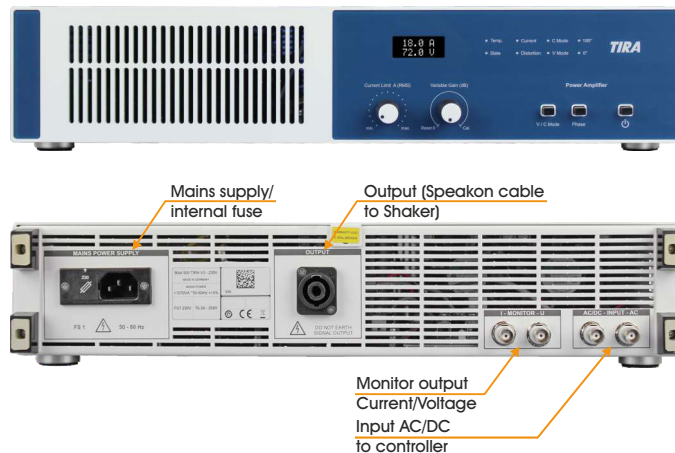
- High Signal to noise ratio of >90 dB(A)
- Monitoring output of voltage and current

TECHNICAL PARAMETERS Cooling blower TB 0140

Volume flow rate	max. 140 m³/h
Total pressure difference	max. 150 mbar
Power	1.1 kW
Frequency	50 Hz
Hose diameter	40 mm
Hose length (Std.)	3 m
Total mass	16 kg
Dimensions (WxHxD)	286 x 302 x 292 mm
Sound pressure level, max.	max. 63 dB(A)
Power supply (Standard)	1 ~ / N / PE 230 V±5% 50 Hz, CEE 7/7
Max. current consumption at 400 V	7.3 A

Options:

- Silencer (Noise reduction up to 8 dB(A))
 - Dimensions (LxD): 308 x 82 mm
 - Mass: 0.2 kg
- Acoustic enclosure (Noise reduction 15 - 23 dB(A))
 - Dimensions (WxHxD): 860 x 760 x 650 mm
 - Mass: 45 kg
- Hose length according to customers request (up to 10 m)



Cooling blower TB 0140



Silencer TB 0140-SI
(optional)



Acoustic enclosure TB 0140-AE
(optional)