Modal Vibration Test System TV 56280-M/LSS

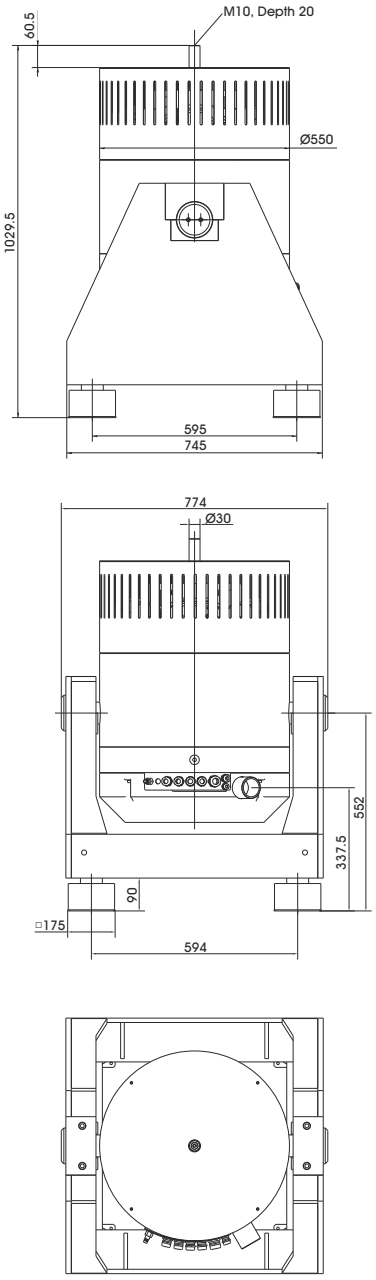
TECHNICAL PARAMETERS Modal exciter S 56280-M/LSS

Rated peak force $Sine_{pk}$/$Random_{RMS}$ [1]	8000/6000 N
Frequency range	1 - 2000 Hz
Main resonance frequency (free-swinging)	>2500 Hz
Max. displacement Peak-Peak [2]	100 mm
Max. velocity	2.0 m/s
Suspension stiffness	electronically adjustable
Effective moving mass	12.0 kg
Total mass	850 kg
Coupling thread	M10
Interlocks	Field coil temperature, displacement, cooling air, overcurrent



1) Random force according to ISO 5344:2004
2) only with foundation mounting
For long-term tests, the load must be reduced to 80 %. Continuous operation at maximum load can cause damage.

S 56280-M/LSS (Example drawing) Dimensions in mm



SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
Modal exciter
Trunnion mount
Power amplifier
Cooling blower
Connection cables (each 5 m)
Power cables (5 m)
for amplifier (CEE 32 connector)
Blower hose ø140 mm (5 m)

Options:
Wheels&Rails (incl. 3m rails)
Squeak&Rattle (Silent operation without blower)
Remote control (Software)
ASM-Mode (Auto Shutdown Manager)
Silencer
for cooling blower (Noise reduction 3 - 6 dB(A))
Acoustic enclosure
for cooling blower (Noise reduction 5 - 23 dB(A))
Cable extension
Factory acceptance test

Options:
TIRA EMS Energy Management System
Operation with temperature-controlled cooling blower (and optional with variable field strength)

Features:
Vibration isolation < 6 Hz
Coarse filter unit
Fully automatic electronic load compensation
Electronic zero point regulation with adjustable stiffness
Automatic centering of the armature
4 Sigma Peak current
Made in Germany
Servicehotline

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TECHNICAL PARAMETERS Amplifier Chameleon-T

Max. output power$_{RMS}$ (factory-set)	15000 VA
Frequency range	DC - 5 kHz
Voltage$_{RMS}$, max.	212 V
Current$_{RMS}$, max. (factory-set)	40-100 A
Signal input voltage$_{PK}$	±10 V
Total Harmonic Distortion (THD, at 70A$_{RMS}$, 200 Hz)	< 0.2 %
Signal to noise ratio	> 85 dB
Field voltage (factory-set)	140-280 V
Field current (factory-set)	6-8 A
Total mass	330 kg
Dimensions (WxHxD)	600 x 1740 x 800 mm
Power supply (Standard)	3~ / N / PE 400 V±5% 50 Hz, CEE 32
Recommended fuse protection	32 A slow
Max. power consumption at 400 V (incl. blower)	17 kVA
Interlocks:	Overload, Temperature, Displacement, Cooling air, Phase monitoring, Emergency stop

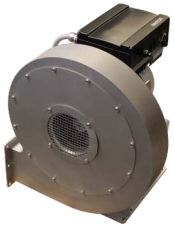
Features:
Field supply integrated
Field voltage/Field current variable
according to customer spec.
4 Sigma peak current
Electronic zero-point-regulation (TMC)
Mains switch and integrated line filter
Color Touch Screen

TECHNICAL PARAMETERS Cooling blower TB 9 FUK

Max. volume flow rate	1080 m³/h
Total pressure difference	9 kPa
Motor output	4 kW
Max. frequency	90 Hz
Hose diameter	140 mm
Hose length (Std.)	5 m
Total mass	60 kg
Dimensions (WxHxD)	505 x 598 x 464 mm
Max. sound pressure level	99 dB(A)
Power supply (standard)	by amplifier rack
Max. current consumption at 400 V	7.9 A

Options:
Silencer TB 9-SI (Noise reduction 3 - 6 dB(A))
Dimensions (LxD): 1012 x 150 mm
Mass: 1.2 kg
Acoustic enclosure TB 9-AE (Noise reduction 5 - 23 dB(A))
Dimensions (WxHxD): 1250 x 1393 x 1470 mm
Mass: 103 kg
Hose length according to customers request (up to 10 m)





Cooling blower TB 9 FUK



Silencer TB 9-SI
(optional)



Acoustic enclosure TB 9-AE
(optional)

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