TIRA Schwingtechnik
Vibration Test Systems

Digital Amplifier A 3 01 11 042

TECHNICAL PARAMETERS Amplifier A 3 01 11 042

Max. ouput power$_{RMS}$	22.5 kVA
Frequency range	DC - 5000 Hz
Voltage$_{RMS}$, max.	212 V
Current$_{RMS}$, max.	200 A
Signal input voltage$_{PK}$	±10 V
Total Harmonic Distortion (at 70A$_{RMS}$, 200 Hz)	< 0.2 %
Signal to noise ratio	> 85 dB
Field power suppy	internal
Field voltage	140 V
Field current	8 A
Total mass	450 kg
Dimensions (WxHxD)	600 x 2200 x 800 mm
Power supply	3~ / N / PE 400 V±5% 50 Hz, CEE 63
Recommended fuse protection	63 A slow
Max. power consumption at 400 V	31 kVA (incl.blower supply)
(at operation with vibration test system TV 57315, blower TB 120 FUK)	
Interlocks:	Overload, Temperature, Displacement, Cooling air, Compressed air, Phase monitoring, Emergency stop



Features:
- TIRA Digital amplifiers can be adapted to almost all shakers existing on the market
- Low distortion factor of up to < 0.2 %
- High clock frequency power modules of 102 kHz ±5%
- Multifunctional LC-touch screen display
- Error indication and system parameters are shown in plain text
- Safety management monitors temperature, overcurrent, overtravel and air supply of the vibration test system
- Inputs for additional safety functions from external sources
- Adjustable current limit
- Adjustable output voltage offset
- Field power supply integrated
- Integrated mains switch and line filter
- Field voltage/current variable according to customer specification
- 4 Sigma peak current
- Energy-saving mode on request
- Power cable length 5 m (Standard) with CEE 63 connector (variable according to customer specification)

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Subject to modifications