TECHNICAL PARAMETERS  Vibration exciter S 59327/*-640

Rated peak force Sine /Random /Shock 1) 27000/27000/80000 N
Frequency range 5 - 2000 Hz
Main resonance frequency > 1900 Hz
Max. displacement Peak-Peak 50.8 mm
Max. velocity Sine/Random/Shock 2.0/1.8/2.5 m/s
Max. acceleration Sine/Random/Shock 66/50/131 g
Suspension stiffness 150 N/mm
Effective moving mass 40.5 kg
Max. weight tested 610 kg
Weight with trunnion RIT/AIT/LB* 2350/2700/2250 kg
Magnet. stray field std./low degaussing <2/<1 mT
Armature diameter 640 mm
Required compressed air supply (load-dependent) 600-1000 kPa
Interlocks Temperature, displacement, cooling air, overcurrent, compressed air

1) theoretical maximum shock value. Depends on payload, amplifier, shock and shock width
* RIT, AIT or LB

SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
Vibration exciter 27 kN
Trunnion mount (AIT, RIT or LB)
Power amplifier 37.5 kVA
Cooling blower
Frequency converter
Connection cables (each 10 m)
Power cables (10 m)
for amplifier (CEE 63 connector) and
cooling blower (CEE 32 connector)
Blower hose ø150 mm (5 m)
Compressed-air hose NW 7,2 (Standard) (5 m)

Options:
 Different hole pattern of armature
 (different pitch diameter and/or thread inserts)
at customers request

Options:
AIT-trunnion mount
with integrated vibration isolation
RIT-trunnion mount
Low degaussing kit to further reduce stray magnetic field
Airglide-option (Shaker movable on air cushions)
Wheels&Rails (incl. 3m rails)
ThermobARRIER (-40°C to +140°C)
Chamber leadthrough
Climatic chamber support kit
Remote control (Software)
Silencers
for cooling blower (Noise reduction 9 - 15 dB(A))
Acoustic enclosure
for cooling blower (Noise reduction 5 - 23 dB(A))
Water-cooled acoustic enclosure
for cooling blower (Noise reduction 30 dB(A))
Cable extension
Factory acceptance test

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

Features:
Vibration isolation < 3 Hz (AIT)
< 6 Hz (RIT;LB)
Coarse filter unit
Fully automatic pneumatic load compensation
AIT flexible
Automatic centering of the AIT-System and
the armature
Degauss kit to reduce stray magnetic field
Made in Germany
Servicehotline

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Subject to modifications
TECHNICAL PARAMETERS Amplifier A 3 08 3 057

Output power max.
Frequency range
Voltage max.
Current max.
Signal input voltage max. (switchable)
Distortion
Signal to noise ratio
Field voltage, max.
Field current, max.
Weight
Dimensions (WxHxD)
Power supply (Standard)
Recommended fuse protection (Standard)
Max. power consumption at 400 V
Interlocks:
Features:
High Signal to noise ratio of >90 dB
Field supply integrated
Mains switch and integrated line filter
ESD-monitoring (Protection of the system against damage)
Field voltage/field current variable according to customer spec.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output power</td>
<td>37500 VA</td>
</tr>
<tr>
<td>Frequency range</td>
<td>DC - 4 kHz</td>
</tr>
<tr>
<td>Voltage max.</td>
<td>150 V</td>
</tr>
<tr>
<td>Current max.</td>
<td>375 A</td>
</tr>
<tr>
<td>Signal input voltage max.</td>
<td>2.5/5/10 V</td>
</tr>
<tr>
<td>Distortion</td>
<td>&lt; 0.7 %</td>
</tr>
<tr>
<td>Signal to noise ratio</td>
<td>&gt; 90 dB</td>
</tr>
<tr>
<td>Field voltage, max.</td>
<td>105 V</td>
</tr>
<tr>
<td>Field current, max.</td>
<td>75 A</td>
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<tr>
<td>Weight</td>
<td>640 kg</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>600 x 2200 x 800 mm</td>
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<tr>
<td>Power supply (Standard)</td>
<td>3~/N/PE 400 V±5% 50 Hz, CEE 63</td>
</tr>
<tr>
<td>Recommended fuse protection (Standard)</td>
<td>63 A slow</td>
</tr>
<tr>
<td>Max. power consumption at 400 V</td>
<td>28 kVA</td>
</tr>
<tr>
<td>Interlocks:</td>
<td>Overload, temperature, clipping and more</td>
</tr>
<tr>
<td>Features:</td>
<td>High Signal to noise ratio of &gt;90 dB</td>
</tr>
<tr>
<td>Field supply integrated</td>
<td>Noise-button</td>
</tr>
<tr>
<td>Mains switch and integrated line filter</td>
<td>Input voltage analyzer</td>
</tr>
<tr>
<td>ESD-monitoring (Protection of the system against damage)</td>
<td>Voltage clipping limiter to avoid clipping</td>
</tr>
<tr>
<td>Field voltage/field current variable according to customer spec.</td>
<td>3 sigma peak current</td>
</tr>
</tbody>
</table>

TECHNICAL PARAMETERS Cooling blower TB 7/FU/11

Volume flow rate
Total pressure difference
Power
Frequency
Hose diameter
Hose length (Std.)
Weight
Dimensions (WxHxD)
Sound pressure level, max.
Frequency converter (fixation to wall):
Weight
Dimensions (WxHxD)
Power supply (variable):
Recommended fuse protection (Standard)
Max. power consumption at 400 V
Options:
Silencer TB 7/FU-SI (Noise reduction 9 - 15 dB(A))
Dimensions (LxD): 1120 x 280 mm
Noise-button
Field supply integrated
Input voltage analyzer
Voltage clipping limiter to avoid clipping
3 sigma peak current
Field voltage/field current variable according to customer spec.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume flow rate</td>
<td>max. 1920 m³/h</td>
</tr>
<tr>
<td>Total pressure difference</td>
<td>max. 10.2 - 10.6 kPa</td>
</tr>
<tr>
<td>Power</td>
<td>11 kW</td>
</tr>
<tr>
<td>Frequency</td>
<td>105 Hz</td>
</tr>
<tr>
<td>Hose diameter</td>
<td>150 mm</td>
</tr>
<tr>
<td>Hose length (Std.)</td>
<td>5 m</td>
</tr>
<tr>
<td>Weight</td>
<td>157 kg</td>
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<tr>
<td>Dimensions (WxHxD)</td>
<td>625 x 700 x 537 mm</td>
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<tr>
<td>Sound pressure level, max.</td>
<td>102 dB(A)</td>
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<td>Frequency converter (fixation to wall):</td>
<td>30 kg</td>
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<tr>
<td>Weight</td>
<td>380 x 600 x 350 mm</td>
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<tr>
<td>Dimensions (WxHxD)</td>
<td>3~/PE 400 V±5% 50 Hz, CEE 32</td>
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<tr>
<td>Recommended fuse protection (Standard)</td>
<td>35 A slow</td>
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<tr>
<td>Max. power consumption at 400 V</td>
<td>17.5 kVA</td>
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<tr>
<td>Options:</td>
<td>Silencer TB 7/FU-SI (Noise reduction 9 - 15 dB(A))</td>
</tr>
<tr>
<td>Dimensions (LxD):</td>
<td>1120 x 280 mm</td>
</tr>
<tr>
<td>Noise-button</td>
<td>Field supply integrated</td>
</tr>
<tr>
<td>Input voltage analyzer</td>
<td>Voltage clipping limiter to avoid clipping</td>
</tr>
<tr>
<td>3 sigma peak current</td>
<td>Field voltage/field current variable according to customer spec.</td>
</tr>
</tbody>
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