Axlebox Bearings
for Rail Vehicles in Desert Operation
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Product features

• Ready-to-fit bearing unit, lubricated and sealed
• Axlebox bearing acc. to EN12080, EN12081, EN12082
• Combined felt ring and gap seal
• Bearing unit with rib ring
• Coated bearing rings

Technical advantages

• Alternative thermal/hydraulic assembly/disassembly
• Expanded leak test for use under adverse operating conditions
• Extended testing of fatigue strength
• Robust design
• Low bearing friction

Source: www.siemens.com/press
Customer benefits

- Long bearing operating life
- Lower operating temperature
- Use under desert conditions
- High operational reliability

Available types

F-611285.ASG120-Z*
F-808268.03.ZL

Applications

Metro axlebox bearing

Performance test according to DIN EN 12082

Test rig arrangement for axlebox housings

### Graph

- Limit value for max 1% of the elementary trips (excluding the first 20 elementary trips)
- Limit value for max 2% of the elementary trips (excluding the first 20 elementary trips)
- max delta OR and HBD temp. if the OR-temp is ≤ 50°C

<table>
<thead>
<tr>
<th>Temperature [°C]</th>
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<tbody>
<tr>
<td>max OR temp.</td>
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<tr>
<td>max HBD temp.</td>
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<table>
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<tr>
<th>Cycles [-]</th>
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<tbody>
<tr>
<td>0</td>
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<tr>
<td>25</td>
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<tr>
<td>50</td>
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<tr>
<td>75</td>
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<tr>
<td>100</td>
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<tr>
<td>125</td>
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### Performance Test Parameters

- Velocity: 100 km/h +10%
- d_min: 0.77 m
- Speed: ± 758 rpm
- Radial Load: 73.5 kN
- Axial Load: ± 13.8 kN
- Number of Cycles: 125
- Mileage: 102422 km (real)
- Mileage: 103125 km (theoretically)