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FANGZHNHT FANGZHNHT

MF84ZZ Flange Bearing User Manual

Brand: FANGZHNHT | Model: FANGZHNHT

1. Product Overview

The MF84ZZ Flange Bearing is a miniature, double-shielded ball bearing designed for applications requiring precise rotational movement in compact spaces. This 10-piece set features a flanged outer ring for easier mounting and positioning.

Key Features:

- **Item:** SMF84ZZ
- **Structure:** Deep Groove Ball Bearing
- **Material:** Chrome Steel
- **Dimensions:** Bore Diameter (d): 4mm, Outer Diameter (D): 8mm, Width (B): 3mm
- **Closures:** Double Metal Shielded (ZZ) for protection against dust and debris.
- **Lubrication:** Pre-greased for immediate use.
- **Grades:** ABEC-7 for high precision and smooth operation.



Figure 1: A collection of MF84ZZ miniature flanged bearings, showcasing their compact size and design.



Figure 2: Detailed view of the MF84ZZ bearings, showing the metal shields and the integrated flange for mounting.

2. Specifications

Attribute	Value
Item Model Number	FANGZHNHT
Structure	Deep Groove
Material	Chrome Steel
Bore Diameter (d)	4mm
Outer Diameter (D)	8mm
Width (B)	3mm
Closures	Metal Shielded (ZZ)

Attribute	Value
Lubrication	Grease
Magnetic	Little
Hardness	58HRC
Corrosion Resistance	General
Clearance	C0
Grades	ABEC-7
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces

3. Setup and Installation

Proper installation is crucial for the longevity and performance of your MF84ZZ bearings. Follow these general guidelines for setup:

1. **Preparation:** Ensure the mounting area is clean, dry, and free from any dust, debris, or old lubricant.
2. **Handling:** Handle bearings with clean hands or gloves to prevent contamination. Avoid dropping or impacting the bearings.
3. **Mounting:**
    - For shaft mounting, apply even pressure to the inner ring.
    - For housing mounting, apply even pressure to the outer ring (specifically the flange for these bearings).
    - Never apply force to the shields or the opposite ring, as this can damage the bearing.
    - Use appropriate tools (e.g., bearing press, soft hammer with a sleeve) to ensure even pressure during installation.
4. **Alignment:** Ensure the bearing is properly aligned with the shaft and housing to prevent premature wear and excessive load.
5. **Securing:** Secure the bearing in place using appropriate fasteners or retaining methods for your specific application. The flange design aids in axial positioning.

Note: Always refer to the specific design requirements of your application for precise installation procedures.

4. Operating Guidelines

To ensure optimal performance and lifespan of your MF84ZZ bearings, adhere to the following operating guidelines:

- **Load Capacity:** Do not exceed the specified dynamic and static load ratings for the bearing. Overloading can lead to premature failure.
- **Speed Limits:** Operate within the recommended speed limits. Excessive speeds can generate heat and reduce bearing life.
- **Temperature:** Avoid operating in extreme temperatures outside the bearing's design range. High temperatures can degrade lubricant and material properties.
- **Vibration and Shock:** Minimize excessive vibration and shock loads, as these can damage the bearing components.
- **Contamination:** While shielded, prolonged exposure to harsh environments with excessive dust, moisture, or corrosive agents should be avoided.
- **Lubrication:** These bearings are pre-greased and generally considered "lubricated for life" in many applications. Avoid

adding external lubricants unless specifically required by your application and compatible with the existing grease.

5. Maintenance

MF84ZZ bearings are designed for low maintenance due to their shielded and pre-lubricated nature. However, regular inspection can help identify potential issues early.

- **Visual Inspection:** Periodically inspect the bearings for signs of wear, corrosion, or damage to the shields.
- **Noise and Vibration:** Listen for unusual noises (grinding, squealing) or feel for excessive vibration during operation, which may indicate bearing distress.
- **Temperature Monitoring:** If possible, monitor the operating temperature. An unexpected increase in temperature can signal a problem.
- **Cleaning:** If the external surfaces become dirty, gently wipe them clean. Do not use high-pressure washes or solvents that could force contaminants past the shields.
- **Replacement:** Replace bearings that show signs of significant wear, damage, or excessive play to prevent damage to other components in your system.

6. Troubleshooting

If you encounter issues with your MF84ZZ bearings, consider the following common problems and their potential solutions:

Problem	Possible Cause	Solution
Excessive Noise (Grinding/Squealing)	Contamination, improper installation, wear, insufficient lubrication (rare for shielded bearings).	Inspect for contamination; re-install correctly; replace if worn.
Excessive Heat	Overload, excessive speed, misalignment, improper lubrication.	Reduce load/speed; check alignment; replace if damaged.
Short Bearing Life	Improper installation, overloading, contamination, misalignment, excessive vibration.	Review installation procedures; ensure operating conditions are within limits; protect from contaminants.
Rough Rotation / Play	Internal damage, wear, contamination.	Replace the bearing.

7. Warranty and Support

For specific warranty information or technical support regarding your FANGZHNHT MF84ZZ Flange Bearings, please refer to the product packaging or contact the manufacturer directly.
Manufacturer: FANGZHNHT
Date First Available: November 9, 2024
For general inquiries or further assistance, please visit the product page on Amazon or contact Amazon customer service.

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