

**FAG****23964-K-MB-C5**

Spherical Roller Bearing

Spherical roller bearing 239..-K-MB,
symmetric 3 ribs

Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Bore type | K | Tapered, taper 1:12 |
| Cage | MB | Solid brass cage |
| Radial internal clearance | C5 (Group 5) | Internal clearance larger than C4 |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 320 mm | Bore diameter |
| D | 440 mm | Outside diameter |
| B | 90 mm | Width |
| C_r | 1.310.000 N | Basic dynamic load rating, radial |
| C_{0r} | 2.750.000 N | Basic static load rating, radial |
| C_{ur} | 206.000 N | Fatigue load limit, radial |
| n_G | 1.700 1/min | Limiting speed |
| n_{gr} | 930 1/min | Reference speed |
| $\approx m$ | 39,415 kg | Weight |

Mounting dimensions

| | | |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 332,4 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 427,6 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,5 mm | Maximum recess radius |
| $d_{a \max}$ | 349 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 332 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm | Minimum cavity width of the sleeve |



Dimensions

| | | |
|------------|----------|-----------------------------|
| r_{\min} | 3 mm | Minimum chamfer dimension |
| D_1 | 406,2 mm | Bore diameter outer ring |
| d_s | 9,5 mm | Diameter lubrication hole |
| n_s | 17,7 mm | Width of lubricating groove |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |

Calculation factors

| | | |
|-------|------|--|
| e | 0,19 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 3,62 | Dynamic axial load factor |
| Y_2 | 5,39 | Dynamic axial load factor |
| Y_0 | 3,54 | Static axial load factor |

Additional information

| | |
|-----------|-------------------|
| H3964-HG | Adapter sleeve |
| AH3964G-H | Withdrawal sleeve |



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment