

**FAG****23948-K-MB-C4** [↗](#)

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 | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 240 mm | Bore diameter |
| D | 320 mm | Outside diameter |
| B | 60 mm | Width |
| C_r | 640.000 N | Basic dynamic load rating, radial |
| C_{0r} | 1.370.000 N | Basic static load rating, radial |
| C_{ur} | 96.000 N | Fatigue load limit, radial |
| n_G | 2.440 1/min | Limiting speed |
| n_{gr} | 1.310 1/min | Reference speed |
| $\approx m$ | 12,92 kg | Weight |

Mounting dimensions

| | | |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 250,2 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 309,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm | Maximum recess radius |
| $d_{a \max}$ | 261 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 250 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 11 mm | Minimum cavity width of the sleeve |



Dimensions

| | | |
|------------|----------|-----------------------------|
| r_{\min} | 2,1 mm | Minimum chamfer dimension |
| D_1 | 297,8 mm | Bore diameter outer ring |
| d_s | 6,3 mm | Diameter lubrication hole |
| n_s | 12,2 mm | Width of lubricating groove |

Temperature range

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

Calculation factors










| | | |
|-------|------|--|
| e | 0,17 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 4,05 | Dynamic axial load factor |
| Y_2 | 6,04 | Dynamic axial load factor |
| Y_0 | 3,96 | Static axial load factor |

Additional information

| | |
|--------|-------------------|
| H3948 | Adapter sleeve |
| AH3948 | 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