



FAG

23264-BEA-XL-MB1-C3

Spherical Roller Bearing

Spherical roller bearing 232...-BEA-XL-MB1, symmetric 2 outer ribs with rib washer

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|-----------------------------------|
| Design | BEA | With lose center lip ring |
| Bore type | Z | Cylindrical |
| Cage | MB1 | Solid brass cage |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 320 mm | Bore diameter |
| D | 580 mm | Outside diameter |
| B | 208 mm | Width |
| C_r | 4.650.000 N | Basic dynamic load rating, radial |
| C_{0r} | 7.000.000 N | Basic static load rating, radial |
| C_{ur} | 510.000 N | Fatigue load limit, radial |
| n_G | 1.060 1/min | Limiting speed |
| n_{gr} | 510 1/min | Reference speed |
| $\approx m$ | 238 kg | Weight |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 340 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 560 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm | Maximum recess radius |



Dimensions

| | | |
|-----------|----------|-----------------------------|
| r_{min} | 5 mm | Minimum chamfer dimension |
| D_1 | 490,4 mm | Bore diameter outer ring |
| d_s | 12,5 mm | Diameter lubrication hole |
| n_s | 23,5 mm | Width of lubricating groove |










Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,35 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 1,91 | Dynamic axial load factor |
| Y_2 | 2,85 | Dynamic axial load factor |
| Y_0 | 1,87 | Static axial load factor |

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