



FAG

22260-BEA-XL-K-MB1-C3

Spherical Roller Bearing

Spherical roller bearing 222...-BEA-XL-K-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 | K | Tapered, taper 1:12 |
| Cage | MB1 | Solid brass cage |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 300 mm | Bore diameter |
| D | 540 mm | Outside diameter |
| B | 140 mm | Width |
| C_r | 3.100.000 N | Basic dynamic load rating, radial |
| C_{0r} | 4.250.000 N | Basic static load rating, radial |
| C_{ur} | 360.000 N | Fatigue load limit, radial |
| n_G | 1.500 1/min | Limiting speed |
| n_{gr} | 900 1/min | Reference speed |
| m | 135,2 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 320 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 520 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 4 mm | Maximum recess radius |
| $d_{a \max}$ | 352 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 318 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 32 mm | Minimum cavity width of the sleeve |

Dimensions

| | | |
|------------|----------|-----------------------------|
| r_{\min} | 5 mm | Minimum chamfer dimension |
| D_1 | 470,5 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 | 0,25 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,71 | Dynamic axial load factor |
| Y_2 | 4,04 | Dynamic axial load factor |
| Y_0 | 2,65 | Static axial load factor |

Additional information

| | |
|---------|-------------------|
| H3160 | Adapter sleeve |
| AH2260G | 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