

**FAG****22236-E1A-XL-K-M**

Spherical Roller Bearing

Spherical roller bearing 222...-E1A-XL-K-M,
symmetric 2 outer ribs**X-life**

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---------------------------|
| Design | E1A | Without central rip |
| Bore type | K | Tapered, taper 1:12 |
| Cage | M | Brass Cage |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication facility | Standard | |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 180 mm | Bore diameter |
| D | 320 mm | Outside diameter |
| B | 86 mm | Width |
| C _r | 1.360.000 N | Basic dynamic load rating, radial |
| C _{0r} | 1.680.000 N | Basic static load rating, radial |
| C _{ur} | 153.000 N | Fatigue load limit, radial |
| n _G | 2.470 1/min | Limiting speed |
| n _{gr} | 1.670 1/min | Reference speed |
| m | 28,81 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 197 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 303 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 3 mm | Maximum recess radius |
| $d_{a \max}$ | 211 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 191 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 18 mm | Minimum cavity width of the sleeve |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 4 mm | Minimum chamfer dimension |
| D_1 | 285,9 mm | Bore diameter outer ring |
| d_2 | 211,3 mm | Raceway diameter of the inner 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 | 0,25 | 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

| | |
|---------|-------------------|
| H3136 | Adapter sleeve |
| AH2236G | Withdrawal sleeve |



Characteristics

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