



FAG

22213-E1-XL-K>A

Spherical Roller Bearing

Spherical roller bearings 222...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Technical information



Your current product variant

| | | |
|---------------------------|--------------|---------------------------|
| Design | E1 | Without central rip |
| Bore type | K | Tapered, taper 1:12 |
| Cage | JPA | Sheet metal cage |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication | Standard | |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 65 mm | Bore diameter |
| D | 120 mm | Outside diameter |
| B | 31 mm | Width |
| C_r | 202.000 N | Basic dynamic load rating, radial |
| C_{0r} | 210.000 N | Basic static load rating, radial |
| C_{ur} | 26.500 N | Fatigue load limit, radial |
| n_G | 7.000 1/min | Limiting speed |
| n_{gr} | 4.200 1/min | Reference speed |
| $\approx m$ | 1,473 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 74 mm | Minimum diameter shaft shoulder |
| $d_{a \max}$ | 79 mm | Maximum diameter of shaft shoulder |
| $D_{a \max}$ | 111 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum recess radius |
| $d_{b \min}$ | 70 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 8 mm | Minimum cavity width of the sleeve |

Dimensions

| | | |
|------------|----------|------------------------------------|
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| D_1 | 107,3 mm | Bore diameter outer ring |
| d_2 | 79,1 mm | Raceway diameter of the inner ring |
| d_s | 3,2 mm | Diameter lubrication hole |
| n_s | 6,5 mm | Width of lubricating groove |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,24 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y_1 | 2,81 | Dynamic axial load factor |
| Y_2 | 4,19 | Dynamic axial load factor |
| Y_0 | 2,75 | Static axial load factor |

Additional information

| | |
|--------|-------------------|
| H313 | Adapter sleeve |
| AH313G | Withdrawal sleeve |



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Static angular error and misalignment



Dynamic angular error and misalignment