



FAG

**22216-E1A-XL-K-M-C3**

## 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 | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication             | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 33 mm       | Width                             |
| C <sub>r</sub>  | 250.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 270.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 34.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.550 1/min | Reference speed                   |
| m               | 2,031 kg    | Weight                            |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 91 mm  | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 129 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 2 mm   | Maximum recess radius                 |
| $d_{a \max}$ | 94 mm  | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 85 mm  | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm  | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension          |
| $D_1$      | 126,8 mm | Bore diameter outer ring           |
| $d_2$      | 94,9 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

|       |      |  |
|-------|------|--|
| $e$   | 0,22 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,14 | Dynamic axial load factor  |
| $Y_2$ | 4,67 | Dynamic axial load factor  |
| $Y_0$ | 3,07 | Static axial load factor   |

### Additional information

|       |                   |
|-------|-------------------|
| H316  | Adapter sleeve    |
| AH316 | Withdrawal sleeve |



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Dynamic angular error and misalignment