

FAG

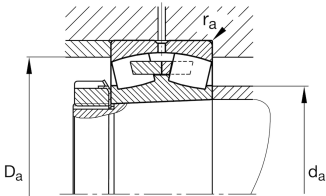
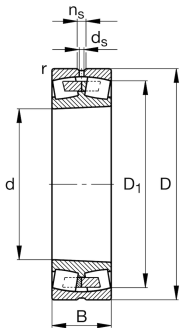
23124-E1A-XL-K-M-C3

Spherical Roller Bearing

Spherical roller bearings 231...-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| 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 feature     | Standard     |                                   |
| Special material          | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter                     |
| D               | 200 mm      | Outside diameter                  |
| B               | 62 mm       | Width                             |
| C <sub>r</sub>  | 630.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 800.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 74.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.290 1/min | Reference speed                   |

|    |          |      |
|----|----------|------|
| ≈m | 7,496 kg | Masa |
|----|----------|------|



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 131 mm | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 189 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 2 mm   | Maximum recess radius                 |
| $d_{a \max}$ | 139 mm | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 128 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 7 mm   | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension   |
| $D_1$      | 177,4 mm | Bore diameter outer ring    |
| $d_s$      | 4,8 mm   | Diameter lubrication hole   |
| $n_s$      | 9,5 mm   | Width of lubricating groove |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,28 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,39 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,56 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,34 | Static axial load factor                                                             |

### Additional information

|         |                   |
|---------|-------------------|
| H3124   | Adapter sleeve    |
| AHX3124 | Withdrawal sleeve |



### Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna