





FAG

23148-BE-XL-K-C4 

Spherical Roller Bearing

Spherical roller bearings 231...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | BE           | With lose center lip ring         |
| Bore type                 | K            | Tapered, taper 1:12               |
| Cage                      | JPB          | Sheet metal cage                  |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 240 mm      | Bore diameter                     |
| D               | 400 mm      | Outside diameter                  |
| B               | 128 mm      | Width                             |
| C <sub>r</sub>  | 2.130.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 3.150.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 255.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.700 1/min | Limiting speed                    |
| n <sub>gr</sub> | 970 1/min   | Reference speed                   |
| ≈m              | 60,43 kg    | Masa                              |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 257 mm | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 276 mm | Maximum diameter of shaft shoulder    |
| $D_{a \max}$ | 383 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 3 mm   | Maximum recess radius                 |
| $d_{b \min}$ | 254 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 11 mm  | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 4 mm     | Minimum chamfer dimension          |
| $D_1$      | 349,9 mm | Bore diameter outer ring           |
| $d_2$      | 275,9 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

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,31 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,18 | Dynamic axial load factor                                                            |
| $Y_2$ | 3,24 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,13 | Static axial load factor                                                             |

### Additional information

|        |                   |
|--------|-------------------|
| H3148X | Adapter sleeve    |
| AH3148 | Withdrawal sleeve |



## Właściwości

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