





FAG

24138-BE-XL-K30 

Spherical Roller Bearing

Spherical roller bearings 241...-BE-K30, main dimensions to DIN 635-2, with tapered bore, taper 1:30

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | BE           | With lose center lip ring |
| Bore type                 | K30          | Tapered, taper 1:30       |
| Cage                      | JPB          | Sheet metal cage          |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication feature     | Standard     |                           |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 190 mm      | Bore diameter                     |
| D               | 320 mm      | Outside diameter                  |
| B               | 128 mm      | Width                             |
| C <sub>r</sub>  | 1.680.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 2.550.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 232.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.850 1/min | Limiting speed                    |
| n <sub>gr</sub> | 880 1/min   | Reference speed                   |
| ≈m              | 40,41 kg    | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 204 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 306 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2,5 mm | Maximum recess radius                |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 3 mm     | Minimum chamfer dimension          |
| $D_1$      | 271,6 mm | Bore diameter outer ring           |
| $d_2$      | 217,4 mm | Raceway diameter of the inner ring |
| $d_s$      | 6,3 mm   | Diameter lubrication hole          |
| $n_s$      | 12,2 mm  | Width of lubricating groove        |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,37 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 1,82 | Dynamic axial load factor                                                            |
| $Y_2$ | 2,7  | Dynamic axial load factor                                                            |
| $Y_0$ | 1,78 | Static axial load factor                                                             |

### Additional information

|         |                   |
|---------|-------------------|
| AH24138 | Withdrawal sleeve |
|---------|-------------------|



## Właściwości

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