



FAG

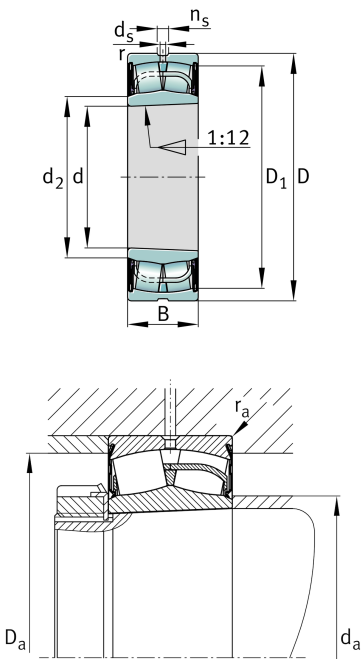
WS2220-E1-XL-K-2RSR

Spherical Roller Bearing

Spherical roller bearing WS222..-E1-XL-K-2RSR, symmetric with cage guidance ring

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                         |
|---------------------------|--------------|-----------------------------------------|
| 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 feature     | Standard     |                                         |
| Type of Seal              | 2RSR         | Seals on both sides, normal temperature |
| Sealing - excess width    | WS           | Sealing - excess width                  |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 100 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 55 mm       | Width                             |
| C <sub>r</sub>  | 430.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 475.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 53.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 1.140 1/min | Limiting speed                    |
| ≈m              | 5,5 kg      | Masa                              |



### Mounting dimensions

|              |          |                                       |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 112 mm   | Minimum diameter shaft shoulder       |
| $d_{a \max}$ | 115 mm   | Maximum diameter of shaft shoulder    |
| $D_{a \max}$ | 169,1 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 2,1 mm   | Maximum recess radius                 |
| $d_{b \min}$ | 108 mm   | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 8 mm     | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                                    |
|------------|----------|------------------------------------|
| $r_{\min}$ | 2,1 mm   | Minimum chamfer dimension          |
| $D_1$      | 169,1 mm | Bore diameter outer ring           |
| $d_2$      | 115 mm   | Raceway diameter of the inner 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. |
| $T_{\max}$ | 100 °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 |
| $Y_1$ | 2,84 | Dynamic axial load factor                                                            |
| $Y_2$ | 4,23 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,78 | Static axial load factor                                                             |

### Additional information

|            |                   |
|------------|-------------------|
| H2220-T-WS | Adapter sleeve    |
| AH2220-WS  | Withdrawal sleeve |



## Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna