



FAG

21314-E1-XL-K-TVPB

Spherical Roller Bearing

Spherical roller bearings 213...E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1           | Without central rip       |
| Bore type                 | K            | Tapered, taper 1:12       |
| Cage                      | TVPB         | Plastic cage              |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication             | Standard     |                           |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 70 mm       | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 35 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> | 3.950 1/min | Reference speed                   |
| ≈m              | 2,916 kg    | Masa                              |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 82 mm  | Minimum diameter shaft shoulder       |
| D <sub>a max</sub> | 138 mm | Maximum diameter of housing shoulder  |
| r <sub>a max</sub> | 2,1 mm | Maximum recess radius                 |
| B <sub>a min</sub> | 6 mm   | Minimum cavity width of the sleeve    |
| d <sub>a max</sub> | 94 mm  | Maximum diameter of shaft shoulder    |
| d <sub>b min</sub> | 75 mm  | Minimum cavity diameter of the sleeve |

Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 2,1 mm   | Minimum chamfer dimension          |
| D <sub>1</sub>   | 126,2 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 94,9 mm  | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 3,2 mm   | Diameter lubrication hole          |
| n <sub>s</sub>   | 6,5 mm   | Width of lubricating groove        |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,22 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 3,14 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,67 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 3,07 | Static axial load factor                                                         |

Additional information

|        |                   |
|--------|-------------------|
| H314   | Adapter sleeve    |
| AH314G | Withdrawal sleeve |



### Właściwości

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