



FAG

22220-E1A-XL-M

Spherical Roller Bearing

Spherical roller bearing 222...-E1A-XL-M,  
symmetric 2 outer ribs

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Design                    | E1A          | Without central rip       |
| Bore type                 | Z            | Cylindrical               |
| Cage                      | M            | Brass Cage                |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication feature     | Standard     |                           |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 100 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 46 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>  | 4.550 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.150 1/min | Reference speed                   |
| ≈m              | 4,931 kg    | Masa                              |

Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 112 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 168 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm | Maximum recess radius                |



Dimensions

|                  |          |                                    |
|------------------|----------|------------------------------------|
| r <sub>min</sub> | 2,1 mm   | Minimum chamfer dimension          |
| D <sub>1</sub>   | 161,4 mm | Bore diameter outer ring           |
| d <sub>2</sub>   | 119 mm   | Raceway diameter of the inner ring |
| d <sub>s</sub>   | 4,8 mm   | Diameter lubrication hole          |
| n <sub>s</sub>   | 9,5 mm   | Width of lubricating groove        |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 200 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,24 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,84 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 4,23 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,78 | Static axial load factor                                                         |

Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Nieosiowość statyczna             |