



FAG

231/500-BEA-XL-MB1-H40

Spherical Roller Bearing

Spherical roller bearing 231...-BEA-XL-MB1-H40, symmetric 2 outer ribs with rib washer

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                      |
|---------------------------|--------------|--------------------------------------|
| Design                    | BEA          | With lose center lip ring            |
| Bore type                 | Z            | Cylindrical                          |
| Cage                      | MB1          | Solid brass cage                     |
| Radial internal clearance | CN (Group N) | Normal internal clearance            |
| Relubrication             | H40          | Without lubricating groove and holes |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 500 mm       | Bore diameter                     |
| D               | 830 mm       | Outside diameter                  |
| B               | 264 mm       | Width                             |
| C <sub>r</sub>  | 8.300.000 N  | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 13.900.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 890.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 690 1/min    | Limiting speed                    |
| n <sub>gr</sub> | 350 1/min    | Reference speed                   |
| ≈m              | 578,5 kg     | Masa                              |

Mounting dimensions

|                    |        |                                 |
|--------------------|--------|---------------------------------|
| d <sub>a min</sub> | 532 mm | Minimum diameter shaft shoulder |
| D <sub>a max</sub> | 798 mm |                                 |
| r <sub>a max</sub> | 6 mm   | Maximum recess radius           |



Dimensions

|                  |          |                           |
|------------------|----------|---------------------------|
| r <sub>min</sub> | 7,5 mm   | Minimum chamfer dimension |
| D <sub>1</sub>   | 723,1 mm | Bore diameter outer ring  |

Temperature range

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

Calculation factors

|                |      |                           |
|----------------|------|---------------------------|
| e              | 0,31 |                           |
| Y <sub>1</sub> | 2,2  | Dynamic axial load factor |
| Y <sub>2</sub> | 3,27 | Dynamic axial load factor |
| Y <sub>0</sub> | 2,15 | Static axial load factor  |

Właściwości

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