



FAG

23196-BEA-XL-MB1-C3

Spherical Roller Bearing

Spherical roller bearing 231...-BEA-XL-MB1, 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 | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 480 mm       | Bore diameter                     |
| D               | 790 mm       | Outside diameter                  |
| B               | 248 mm       | Width                             |
| C <sub>r</sub>  | 7.400.000 N  | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 12.400.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 820.000 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 740 1/min    | Limiting speed                    |
| n <sub>gr</sub> | 375 1/min    | Reference speed                   |
| ≈m              | 482,5 kg     | Masa                              |

Mounting dimensions

|                    |        |                                 |
|--------------------|--------|---------------------------------|
| d <sub>a min</sub> | 512 mm | Minimum diameter shaft shoulder |
| D <sub>a max</sub> | 758 mm |                                 |
| r <sub>a max</sub> | 6 mm   | Maximum recess radius           |



Dimensions

|           |          |                             |
|-----------|----------|-----------------------------|
| $r_{min}$ | 7,5 mm   | Minimum chamfer dimension   |
| $D_1$     | 690,4 mm | Bore diameter outer ring    |
| $d_s$     | 12,5 mm  | Diameter lubrication hole   |
| $n_s$     | 23,5 mm  | Width of lubricating groove |

Temperature range

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

Calculation factors

|       |      |                           |
|-------|------|---------------------------|
| $e$   | 0,3  |                           |
| $Y_1$ | 2,23 | Dynamic axial load factor |
| $Y_2$ | 3,32 | Dynamic axial load factor |
| $Y_0$ | 2,18 | Static axial load factor  |

Właściwości

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