



FAG

23040-E1A-XL-M-C3

Spherical Roller Bearing

Spherical roller bearings 230...E1A, main dimensions to DIN 635-2

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | E1A          | Without central rip               |
| Bore type                 | Z            | Cylindrical                       |
| Cage                      | M            | Brass Cage                        |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication feature     | Standard     |                                   |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 200 mm      | Bore diameter                     |
| D               | 310 mm      | Outside diameter                  |
| B               | 82 mm       | Width                             |
| C <sub>r</sub>  | 1.270.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.800.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 206.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.330 1/min | Limiting speed                    |
| n <sub>gr</sub> | 1.550 1/min | Reference speed                   |
| ≈m              | 22,6 kg     | Masa                              |

Mounting dimensions

|                    |          |                                      |
|--------------------|----------|--------------------------------------|
| d <sub>a min</sub> | 210,2 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 299,8 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm   | Maximum recess radius                |



Dimensions

|           |          |                             |
|-----------|----------|-----------------------------|
| $r_{min}$ | 2,1 mm   | Minimum chamfer dimension   |
| $D_1$     | 281,6 mm | Bore diameter outer ring    |
| $d_s$     | 8 mm     | Diameter lubrication hole   |
| $n_s$     | 15 mm    | Width of lubricating groove |

Temperature range

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

Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,23 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 2,9  | Dynamic axial load factor                                                            |
| $Y_2$ | 4,31 | Dynamic axial load factor                                                            |
| $Y_0$ | 2,83 | Static axial load factor                                                             |

Właściwości

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