



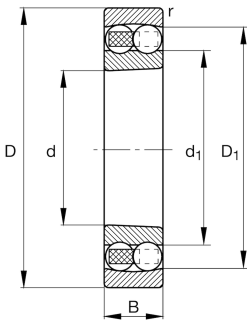
FAG

2220-K-M-C3

Self-aligning ball bearing

Self-aligning ball bearing 22..-K-M, tapered bore taper 1:12, solid brass cage

Informacje techniczne



Twoja aktualna wersja produktu

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Bore type                 | K            | Tapered, taper 1:12               |
| Sealing                   | Without      | Not sealed                        |
| Cage                      | M            | Solid brass cage, ball guided     |
| Tolerance class           | PN           | Normal (ISO 492:2023)             |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Lubricant                 | Without      | Bearing not greased               |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 100 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 46 mm       | Width                             |
| C <sub>r</sub>  | 98.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 40.500 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.180 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.700 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.900 1/min | Reference speed                   |
| m               | 5,11 kg     | Masa                              |



Mounting dimensions

|                    |        |                                       |
|--------------------|--------|---------------------------------------|
| d <sub>a min</sub> | 112 mm | Minimum diameter shaft shoulder       |
| d <sub>a max</sub> | 120 mm | Maximum diameter shaft shoulder       |
| D <sub>a max</sub> | 168 mm | Maximum diameter of housing shoulder  |
| d <sub>b min</sub> | 108 mm | Minimum cavity diameter of the sleeve |
| B <sub>a min</sub> | 8 mm   | Minimum cavity width of the sleeve    |
| r <sub>a max</sub> | 2,1 mm | Maximum fillet radius                 |

Dimensions

|                  |           |                              |
|------------------|-----------|------------------------------|
| r <sub>min</sub> | 2,1 mm    | Minimum chamfer dimension    |
| D <sub>1</sub>   | 156,85 mm | Shoulder diameter outer ring |
| d <sub>1</sub>   | 124,36 mm | Shoulder diameter inner ring |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 150 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,27 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y <sub>1</sub> | 2,33 | Dynamic axial load factor                                                        |
| Y <sub>2</sub> | 3,61 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 2,45 | Static axial load factor                                                         |

Additional information

|      |                |
|------|----------------|
| H320 | Adapter sleeve |
|------|----------------|



## Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Nieosiowość statyczna



Nieosiowość dynamiczna