



FAG

6311-M-J20GA-C3

Deep groove ball bearing

Deep groove ball bearing 63...-M-J20GA,  
single row, solid brass cage, ceramic coated

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                               |
|----------------------------------|--------------|-----------------------------------------------|
| Type of Seal                     | Without      | Not sealed                                    |
| Cage                             | M            | Solid brass cage, rolling element guided      |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                         |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150°       |
| Lubricant                        | Without      | Bearing not greased                           |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN             |
| Bore type                        | Z            | Cylindrical                                   |
| Coating                          | J20GA        | Current insulation, outer ring ceramic coated |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 55 mm        | Bore diameter                     |
| D               | 120 mm       | Outside diameter                  |
| B               | 29 mm        | Width                             |
| C <sub>r</sub>  | 83.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 47.500 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.250 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 11.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 7.100 1/min  | Reference speed                   |
| ≈m              | 1,61 kg      | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 66 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 109 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm   | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension    |
| $D_1$      | 101,4 mm | Shoulder diameter outer ring |
| $d_1$      | 75,2 mm  | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 12,9 | Calculation factor |
|-------|------|--------------------|

### Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Bez uszczelnienia                 |
|  | Izolowane                         |