



FAG

6310-C-Z-C3

Deep groove ball bearing

Deep groove ball bearing 63.-C-Z, single row, Generation C, shield , steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Changed internal design          | C            | GenerationC                             |
| Sealing                          | Z            | Non-contact shield on one Side          |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | P6           | Class 6 (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                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 50 mm       | Bore diameter                     |
| D               | 110 mm      | Outside diameter                  |
| B               | 27 mm       | Width                             |
| C <sub>r</sub>  | 68.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 38.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.650 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.500 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.400 1/min | Reference speed                   |
| ≈m              | 1,052 kg    | Masa                              |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a\ min}$ | 61 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 99 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2 mm  | Maximum fillet radius                |

### Dimensions

|             |          |                              |
|-------------|----------|------------------------------|
| $r_{\ min}$ | 2 mm     | Minimum chamfer dimension    |
| $D_1$       | 92,1 mm  | Shoulder diameter outer ring |
| $D_2$       | 95,22 mm | Caliber diameter outer ring  |
| $d_1$       | 68,64 mm | Shoulder diameter inner ring |
| $d_2$       | 66,74 mm | Caliber diameter inner ring  |

### Temperature range

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

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,1 | Calculation factor |
|-------|------|--------------------|

### Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Uszczelnienie jednostronne        |