



FAG

6309-N

Deep groove ball bearing

Deep groove ball bearing 63.-N, single row, ring groove, steel sheet metal cage



Informacje techniczne

Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Sealing                          | Without      | Not sealed                              |
| Design, bearing outer ring       | N            | Ring groove for snap ring               |
| Cage                             | JN           | Steel sheet metal                       |
| 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        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 45 mm       | Bore diameter                     |
| D               | 100 mm      | Outside diameter                  |
| B               | 25 mm       | Width                             |
| C <sub>r</sub>  | 56.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 31.500 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.240 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.500 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.200 1/min | Reference speed                   |
| ≈m              | 0,87 kg     | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 54 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 91 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension    |
| $D_1$      | 83,3 mm  | Shoulder diameter outer ring |
| $D_2$      | 85,64 mm | Caliber diameter outer ring  |
| $d_1$      | 62,26 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                 |