



FAG

6414-C3

Deep groove ball bearing

Deep groove ball bearing 64, single row, steel  
sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Sealing                          | Without      | Not sealed                              |
| 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        | C3 (Group 3) | Internal clearance larger than CN       |
| Bore type                        | Z            | Cylindrical                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 70 mm       | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 42 mm       | Width                             |
| C <sub>r</sub>  | 141.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 97.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 6.000 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.200 1/min | Reference speed                   |
| ≈m              | 5,06 kg     | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 86 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 164 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 2,5 mm | Maximum fillet radius                |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 3 mm      | Minimum chamfer dimension    |
| $D_1$      | 151,58 mm | Shoulder diameter outer ring |
| $d_1$      | 114,38 mm | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,3 | Calculation factor |
|-------|------|--------------------|

### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia