

**FAG****6414-C3**

Deep groove ball bearing

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

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| 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 &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 70 mm       | Bore diameter                     |
| D        | 180 mm      | Outside diameter                  |
| B        | 42 mm       | Width                             |
| $C_r$    | 141.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 97.000 N    | Basic static load rating, radial  |
| $C_{ur}$ | 6.000 N     | Fatigue load limit, radial        |
| $n_G$    | 5.000 1/min | Limiting speed                    |
| $n_{gr}$ | 5.200 1/min | Reference speed                   |
| $m$      | 5,06 kg     | Weight                            |



### 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 |
|-------|------|--------------------|

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed