

**FAG****6314-RSR**

Deep groove ball bearing

Deep groove ball bearing 63...RSR, single row, seal, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| Type of Seal                     | RSR          | Contact seal on one side                |
| 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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 70 mm       | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 35 mm       | Width                             |
| C <sub>r</sub>  | 115.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 69.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 4.600 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.800 1/min | Limiting speed                    |
| m               | 2,575 kg    | Weight                            |

## Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 82 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 138 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,1 mm | Maximum fillet radius                |



## Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 2,1 mm    | Minimum chamfer dimension    |
| $D_1$      | 126,34 mm | Shoulder diameter outer ring |
| $D_2$      | 130,18 mm | Caliber diameter outer ring  |
| $d_1$      | 94,75 mm  | Shoulder diameter inner ring |

## Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |

## Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,4 | Calculation factor |
|-------|------|--------------------|

## Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Sealed on one side