

**FAG****6307**

## Deep groove ball bearing

Deep groove ball bearing 63, 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 | SN           | Rings dimensional stabilized up to 120° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 35 mm        | Bore diameter                     |
| D        | 80 mm        | Outside diameter                  |
| B        | 21 mm        | Width                             |
| $C_r$    | 35.500 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 19.100 N     | Basic static load rating, radial  |
| $C_{ur}$ | 1.290 N      | Fatigue load limit, radial        |
| $n_G$    | 12.300 1/min | Limiting speed                    |
| $n_{gr}$ | 9.900 1/min  | Reference speed                   |
| $m$      | 0,445 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 44 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 71 mm  | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius                |

### Dimensions

|            |         |                              |
|------------|---------|------------------------------|
| $r_{\min}$ | 1,5 mm  | Minimum chamfer dimension    |
| $D_1$      | 65,6 mm | Shoulder diameter outer ring |
| $D_2$      | 67,6 mm | Caliber diameter outer ring  |
| $d_1$      | 49,3 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

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

### Characteristics

|   |                              |
|---|------------------------------|
|  | Radial load                  |
|  | Axial load in one direction  |
|  | Axial load in two directions |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Not sealed                   |