

**FAG****6317-C4**

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 | S0 | Rings dimensional stabilized up to 150° |
| Lubricant | Without | Bearing not greased |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Bore type | Z | Cylindrical |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 85 mm | Bore diameter |
| D | 180 mm | Outside diameter |
| B | 41 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} | 5,300 1/min | Reference speed |
| $\approx m$ | 4.25 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 99 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 166 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 | 114.36 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