

**FAG****6306-C-C3>V**

Deep groove ball bearing

Deep groove ball bearing 63...C, single row,
Generation C, steel sheet metal cage

Technical information



Your current product variant

| | | |
|----------------------------------|--------------|---|
| Version code | >V | Not marked on bearing |
| Changed internal design | C | GenerationC |
| Type of Seal | Without | Not sealed |
| Cage | JN | Steel sheet metal |
| Tolerance class | P6 | Class 6 (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| 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 | 30 mm | Bore diameter |
| D | 72 mm | Outside diameter |
| B | 19 mm | Width |
| C _r | 33.500 N | Basic dynamic load rating, radial |
| C _{0r} | 16.200 N | Basic static load rating, radial |
| C _{ur} | 1.120 N | Fatigue load limit, radial |
| n _G | 15.100 1/min | Limiting speed |
| n _{gr} | 11.500 1/min | Reference speed |
| ≈m | 0,329 kg | Weight |



Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 37 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 65 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|------------------------------|
| r_{\min} | 1,1 mm | Minimum chamfer dimension |
| D_1 | 60,3 mm | Shoulder diameter outer ring |
| D_2 | 63,28 mm | Caliber diameter outer ring |
| d_1 | 43,8 mm | Shoulder diameter inner ring |
| d_2 | 41,44 mm | Caliber diameter inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|----|--------------------|
| f_0 | 13 | Calculation factor |
|-------|----|--------------------|

Characteristics

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