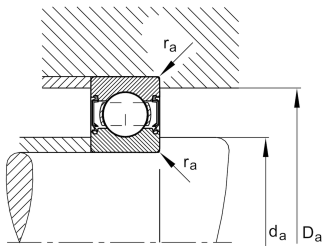
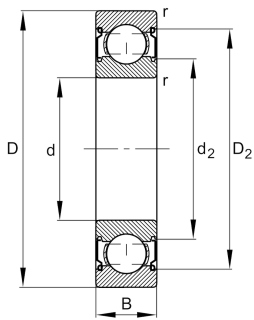


**FAG****6309-C-2Z-L237-C4>V** [🔗](#)

## Deep groove ball bearing

Deep groove ball bearing 63...-C-2Z, single row, Generation C, shields, 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                     | 2Z           | Non-contact shield on both sides        |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | P6           | Class 6 (ISO 492:2023)                  |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150° |
| Lubricant                        | L237         | Grease (L237/customer specific)         |
| Radial internal clearance        | C4 (Group 4) | Internal clearance larger than C3       |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 45 mm       | Bore diameter                     |
| D               | 100 mm      | Outside diameter                  |
| B               | 25 mm       | Width                             |
| C <sub>r</sub>  | 62.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 31.500 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.190 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 8.900 1/min | Limiting speed                    |
| n <sub>gr</sub> | 9.100 1/min | Reference speed                   |
| ≈m              | 0,84 kg     | Weight                            |



Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 54 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 91 mm  | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1,5 mm | Maximum fillet radius                |

Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,5 mm   | Minimum chamfer dimension    |
| $D_1$      | 83,6 mm  | Shoulder diameter outer ring |
| $D_2$      | 86,37 mm | Caliber diameter outer ring  |
| $d_1$      | 62,25 mm | Shoulder diameter inner ring |
| $d_2$      | 60,33 mm | Caliber diameter inner ring  |

Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 12,9 | Calculation factor |
|-------|------|--------------------|

Characteristics

|                                                                                     |                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------|
|  | Radial load                                    |
|  | Axial load in one direction                    |
|  | Axial load in two directions                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |