

**FAG****6310-C-Z-HRS-L100-C3**

Deep groove ball bearing

Deep groove ball bearing 63...-C-Z-HRS, single row, Generation C, shield/seal, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |  |
|----------------------------------|--------------|--|
| Changed internal design          | C            | GenerationC  |
| Type of Seal                     | Z-HRS        | Non-contact shield on one Side, Contact seal on the other side |
| Cage                             | JN           | Steel sheet metal  |
| Tolerance class                  | P6           | Class6 (P6), better then PN                                    |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150°                        |
| Lubricant                        | L100         | Grease (L100/customer specific)                                |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN                              |
| Bore type                        | Z            | Cylindrical  |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 50 mm       | Bore diameter                     |
| D               | 110 mm      | Outside diameter                  |
| B               | 27 mm       | Width                             |
| C <sub>r</sub>  | 68.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 38.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.650 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.800 1/min | Limiting speed                    |
| ≈m              | 1,076 kg    | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 61 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 99 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm  | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 2 mm     | Minimum chamfer dimension    |
| $D_1$      | 92,1 mm  | Shoulder diameter outer ring |
| $D_2$      | 95,22 mm | Caliber diameter outer ring  |
| $d_1$      | 68,64 mm | Shoulder diameter inner ring |
| $d_2$      | 66,74 mm | Caliber diameter inner ring  |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 100 °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                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |