





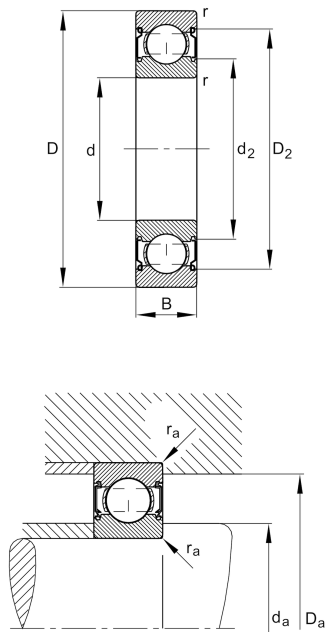
FAG

6313-C-Z-C3

Deep groove ball bearing

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

Technical information



Your current product variant

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Changed internal design          | C            | GenerationC                             |
| Sealing                          | Z            | Non-contact shield on one Side          |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | P6           | Class6 (P6), better than PN             |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150° |
| 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               | 65 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 33 mm       | Width                             |
| C <sub>r</sub>  | 101,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 60,000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 4,100 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 7,300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 7,000 1/min | Reference speed                   |
| ≈m              | 2.024 kg    | Weight                            |



Mounting dimensions

|         |        |                                      |
|---------|--------|--------------------------------------|
| d a min | 77 mm  | Minimum diameter shaft shoulder      |
| D a max | 128 mm | Maximum diameter of housing shoulder |
| r a max | 2.1 mm | Maximum fillet radius                |

Dimensions

|       |           |                              |
|-------|-----------|------------------------------|
| r min | 2.1 mm    | Minimum chamfer dimension    |
| D 1   | 118.22 mm | Shoulder diameter outer ring |
| D 2   | 121.4 mm  | Caliber diameter outer ring  |
| d 1   | 87.73 mm  | Shoulder diameter inner ring |
| d 2   | 85.59 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 | 13.2 | Calculation factor |
|-----|------|--------------------|

Characteristics

|                                                                                     |                              |
|-------------------------------------------------------------------------------------|------------------------------|
|  | Radial load                  |
|  | Axial load in one direction  |
|  | Axial load in two directions |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Sealed on one side           |