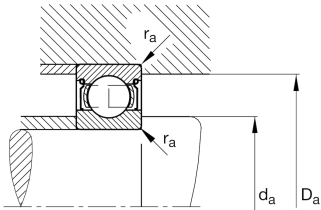
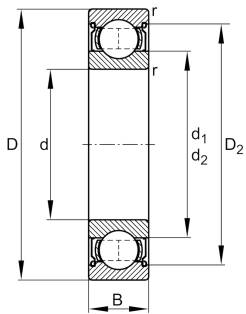


**FAG****6307-Z**

## Deep groove ball bearing

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

## Technical information



## Your current product variant

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Sealing                          | Z            | Non-contact shield on one Side          |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (PN)                             |
| Dimensional / heat stabilization | SN           | Rings dimensional stabilized up to 120° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 35 mm        | Bore diameter                     |
| D               | 80 mm        | Outside diameter                  |
| B               | 21 mm        | Width                             |
| C <sub>r</sub>  | 35,500 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 19,100 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 1,290 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 12,300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 9,900 1/min  | Reference speed                   |
| ≈m              | 0.455 kg     | Weight                            |



Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a\ min}$ | 44 mm  | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 71 mm  | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1.5 mm | Maximum fillet radius                |

Dimensions

|             |         |                              |
|-------------|---------|------------------------------|
| $r_{\ min}$ | 1.5 mm  | Minimum chamfer dimension    |
| $D_{\ 1}$   | 65.6 mm | Shoulder diameter outer ring |
| $D_{\ 2}$   | 67.6 mm | Caliber diameter outer ring  |
| $d_{\ 1}$   | 49.3 mm | Shoulder diameter inner ring |

Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -30 °C | Operating temperature min. |
| $T_{\ max}$ | 120 °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 |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Sealed on one side           |