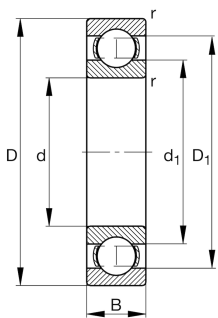
**FAG****6317-M-C3** 

## Deep groove ball bearing

Deep groove ball bearing 63...-M, single row,  
solid brass cage

## Technical information



## Your current product variant

|                                  |              |                                          |
|----------------------------------|--------------|------------------------------------------|
| Sealing                          | Without      | Not sealed                               |
| Cage                             | M            | Solid brass cage, rolling element guided |
| Tolerance class                  | PN           | Normal (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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 85 mm       | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 41 mm       | Width                             |
| C <sub>r</sub>  | 141,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 97,000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 6,000 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6,600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5,300 1/min | Reference speed                   |
| ≈m              | 5.05 kg     | Weight                            |



Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 99 mm  | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 166 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2.5 mm | Maximum fillet radius                |

Dimensions

|                  |           |                              |
|------------------|-----------|------------------------------|
| r <sub>min</sub> | 3 mm      | Minimum chamfer dimension    |
| D <sub>1</sub>   | 151.58 mm | Shoulder diameter outer ring |
| d <sub>1</sub>   | 114.36 mm | Shoulder diameter inner ring |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 150 °C | Operating temperature max. |

Calculation factors

|                |      |                    |
|----------------|------|--------------------|
| f <sub>0</sub> | 13.3 | Calculation factor |
|----------------|------|--------------------|

Characteristics

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