

**FAG****6330-M-J20AA-C3**

Deep groove ball bearing

Deep groove ball bearing 63.-M-J20AA,  
single row, solid brass cage, ceramic coated

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| Sealing                          | Without      | Not sealed                                    |
| Cage                             | M            | Solid brass cage, rolling element guided      |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                         |
| Dimensional / heat stabilization | S1           | Rings dimensional stabilized up to 200°       |
| Lubricant                        | Without      | Bearing not greased                           |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN             |
| Bore type                        | Z            | Cylindrical                                   |
| Coating                          | J20AA        | Current insulation, outer ring ceramic coated |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 150 mm      | Bore diameter                     |
| D               | 320 mm      | Outside diameter                  |
| B               | 65 mm       | Width                             |
| C <sub>r</sub>  | 300.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 290.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 13.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 3.600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.000 1/min | Reference speed                   |
| ≈m              | 26 kg       | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 167 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 303 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 3 mm   | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 4 mm     | Minimum chamfer dimension    |
| $D_1$      | 266,9 mm | Shoulder diameter outer ring |
| $d_1$      | 205,5 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,7 | Calculation factor |
|-------|------|--------------------|

### Characteristics

|   |                              |
|---|------------------------------|
|  | Radial load                  |
|  | Axial load in one direction  |
|  | Axial load in two directions |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Not sealed                   |
|  | Current insulated            |
|  | Large bearing                |