

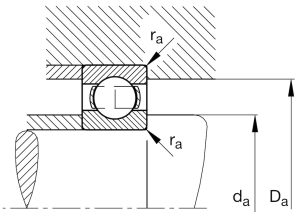
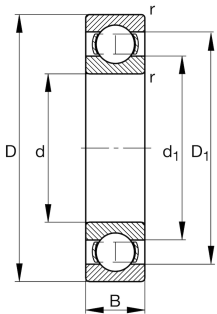
FAG

61844-M-C3

Deep groove ball bearing

Deep groove ball bearing 618...-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 | 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                              |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 220 mm      | Bore diameter                     |
| D               | 270 mm      | Outside diameter                  |
| B               | 24 mm       | Width                             |
| C <sub>r</sub>  | 78,000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 97,000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 3,650 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 4,150 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2,320 1/min | Reference speed                   |
| ≈m              | 3.125 kg    | Weight                            |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 227 mm | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 263 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 1.5 mm | Maximum fillet radius                |

Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 1.5 mm    | Minimum chamfer dimension    |
| $D_1$      | 255 mm    | Shoulder diameter outer ring |
| $d_1$      | 235.85 mm | Shoulder diameter inner ring |

Temperature range

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

Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 15.8 | Calculation factor |
|-------|------|--------------------|

Characteristics

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