



FAG

61844-C2

Deep groove ball bearing

Deep groove ball bearing 618, single row, steel sheet metal cage

Technical information



Your current product variant

|                                  |              |                                         |
|----------------------------------|--------------|-----------------------------------------|
| Type of Sealing                  | Without      | Not sealed                              |
| Cage                             | JN           | Steel sheet metal                       |
| 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        | C2 (Group 2) | Internal clearance smaller 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>  | 3.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.320 1/min | Reference speed                   |
| ≈m              | 2,459 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                   |