



FAG

6020-2Z-L069-C3

Deep groove ball bearing

Deep groove ball bearing 60...-2Z, single row, shields, steel sheet metal cage

Technical information



Your current product variant

|                                  |              |                                                                     |
|----------------------------------|--------------|---------------------------------------------------------------------|
| Type of Sealing                  | 2Z           | Non-contact shield on both sides                                    |
| Cage                             | JN           | Steel sheet metal                                                   |
| Tolerance class                  | PN           | Normal (ISO 492:2023)                                               |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150°                             |
| Lubricant                        | L069         | Low noise high-temperature grease, interchangeable with grease L207 |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN                                   |
| Bore type                        | Z            | Cylindrical                                                         |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 100 mm      | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 24 mm       | Width                             |
| C <sub>r</sub>  | 64.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 54.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.050 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.100 1/min | Reference speed                   |
| ≈m              | 1,29 kg     | Weight                            |



Mounting dimensions

|             |        |                                      |
|-------------|--------|--------------------------------------|
| $d_{a\min}$ | 107 mm | Minimum diameter shaft shoulder      |
| $D_{a\max}$ | 143 mm | Maximum diameter of housing shoulder |
| $r_{a\max}$ | 1,5 mm | Maximum fillet radius                |

Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 1,5 mm    | Minimum chamfer dimension    |
| $D_1$      | 134,12 mm | Shoulder diameter outer ring |
| $D_2$      | 137,3 mm  | Caliber diameter outer ring  |
| $d_1$      | 116,2 mm  | Shoulder diameter inner ring |

Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °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                   |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication                             |
|  | Sealed on both sides                           |