

**FAG****6018-2Z-C3** [↗](#)

Deep groove ball bearing

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

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| 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                        | GA13         | Ball bearing and insert bearing grease  |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN       |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 90 mm       | Bore diameter                     |
| D           | 140 mm      | Outside diameter                  |
| B           | 24 mm       | Width                             |
| $C_r$       | 62.000 N    | Basic dynamic load rating, radial |
| $C_{0r}$    | 49.500 N    | Basic static load rating, radial  |
| $C_{ur}$    | 3.000 N     | Fatigue load limit, radial        |
| $n_G$       | 5.600 1/min | Limiting speed                    |
| $n_{gr}$    | 5.600 1/min | Reference speed                   |
| $\approx m$ | 1,23 kg     | Weight                            |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 97 mm  | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 133 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius                |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 1,5 mm    | Minimum chamfer dimension    |
| $D_1$      | 124,48 mm | Shoulder diameter outer ring |
| $D_2$      | 126,8 mm  | Caliber diameter outer ring  |
| $d_1$      | 106,2 mm  | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -20 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 15,5 | 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                           |