

**FAG****6318-2RSR**

Deep groove ball bearing

Deep groove ball bearing 63...-2RSR, single row, seals, steel sheet metal cage

## Technical information

**Your current product variant**

|                                  |              |   |
|----------------------------------|--------------|---|
| Sealing                          | 2RSR         | Contact seal 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        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

**Main Dimensions & Performance Data**

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 90 mm       | Bore diameter                     |
| D               | 190 mm      | Outside diameter                  |
| B               | 43 mm       | Width                             |
| C <sub>r</sub>  | 142.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 102.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 5.900 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.170 1/min | Limiting speed                    |
| m               | 5,5 kg      | Weight                            |

**Mounting dimensions**

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a min</sub> | 104 mm | Minimum diameter shaft shoulder      |
| D <sub>a max</sub> | 176 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub> | 2,5 mm | Maximum fillet radius                |



### Dimensions

|           |           |                              |
|-----------|-----------|------------------------------|
| $r_{min}$ | 3 mm      | Minimum chamfer dimension    |
| $D_1$     | 157,18 mm | Shoulder diameter outer ring |
| $D_2$     | 160,74 mm | Caliber diameter outer ring  |
| $d_1$     | 123,3 mm  | Shoulder diameter inner ring |







### Temperature range

|           |        |                            |
|-----------|--------|----------------------------|
| $T_{min}$ | -20 °C | Operating temperature min. |
| $T_{max}$ | 100 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 13,9 | Calculation factor |
|-------|------|--------------------|

### Characteristics

-   $F_r$  Radial load
-   $F_a$  Axial load in one direction
-   $F_a$  Axial load in two directions
-   $L_h$  Lifetime lubrication, freedom from maintenance
-  Grease Lubrication
-  Sealed on both sides