

**FAG****6012**

## Deep groove ball bearing

Deep groove ball bearing 60, single row, steel sheet metal cage

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| Sealing                          | Without      | Not sealed                              |
| Cage                             | JN           | Steel sheet metal                       |
| Tolerance class                  | PN           | Normal (PN)                             |
| Dimensional / heat stabilization | S0           | Rings dimensional stabilized up to 150° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | CN (Group N) | Normal internal clearance               |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 60 mm        | Bore diameter                     |
| D        | 95 mm        | Outside diameter                  |
| B        | 18 mm        | Width                             |
| $C_r$    | 31.500 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 23.200 N     | Basic static load rating, radial  |
| $C_{ur}$ | 1.230 N      | Fatigue load limit, radial        |
| $n_G$    | 10.100 1/min | Limiting speed                    |
| $n_{gr}$ | 7.600 1/min  | Reference speed                   |
| $m$      | 0,402 kg     | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 66 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 89 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius                |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 1,1 mm    | Minimum chamfer dimension    |
| $D_1$      | 83,88 mm  | Shoulder diameter outer ring |
| $D_2$      | 85,98 mm  | Caliber diameter outer ring  |
| $d_1$      | 71,325 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 15,6 | Calculation factor |
|-------|------|--------------------|

### Characteristics

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