

**FAG****16040-C4**

Deep groove ball bearing

Deep groove ball bearing 160, 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 (ISO 492:2023)                   |
| Dimensional / heat stabilization | S1           | Rings dimensional stabilized up to 200° |
| Lubricant                        | Without      | Bearing not greased                     |
| Radial internal clearance        | C4 (Group 4) | Internal clearance larger than C3       |
| Bore type                        | Z            | Cylindrical                             |

## Main Dimensions &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 200 mm      | Bore diameter                     |
| D        | 310 mm      | Outside diameter                  |
| B        | 34 mm       | Width                             |
| $C_r$    | 186.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 202.000 N   | Basic static load rating, radial  |
| $C_{ur}$ | 7.500 N     | Fatigue load limit, radial        |
| $n_G$    | 2.850 1/min | Limiting speed                    |
| $n_{gr}$ | 2.470 1/min | Reference speed                   |
| $m$      | 9 kg        | Weight                            |



### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 208,8 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 301,2 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm     | Maximum fillet radius                |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 2 mm      | Minimum chamfer dimension    |
| $D_1$      | 276,5 mm  | Shoulder diameter outer ring |
| $d_1$      | 244,35 mm | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 16,4 | Calculation factor |
|-------|------|--------------------|

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed