

**FAG****6210-M-C3**

Deep groove ball bearing

Deep groove ball bearing 62...-M, single row,  
solid brass cage

## Technical information



## Your current product variant

|                                  |              |  |
|----------------------------------|--------------|--|
| Sealing                          | Without      | Not sealed                               |
| Cage                             | M            | Solid brass cage, rolling element guided |
| Tolerance class                  | PN           | Normal (PN)                              |
| Dimensional / heat stabilization | SN           | Rings dimensional stabilized up to 120°  |
| Lubricant                        | Without      | Bearing not greased                      |
| Radial internal clearance        | C3 (Group 3) | Internal clearance larger than CN        |
| Bore type                        | Z            | Cylindrical                              |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 50 mm        | Bore diameter                     |
| D        | 90 mm        | Outside diameter                  |
| B        | 20 mm        | Width                             |
| $C_r$    | 39.000 N     | Basic dynamic load rating, radial |
| $C_{0r}$ | 24.200 N     | Basic static load rating, radial  |
| $C_{ur}$ | 1.460 N      | Fatigue load limit, radial        |
| $n_G$    | 13.700 1/min | Limiting speed                    |
| $n_{gr}$ | 8.200 1/min  | Reference speed                   |
| $m$      | 0,56 kg      | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 57 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 83 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 1,1 mm   | Minimum chamfer dimension    |
| $D_1$      | 77,92 mm | Shoulder diameter outer ring |
| $D_2$      | 80,04 mm | Caliber diameter outer ring  |
| $d_1$      | 62 mm    | Shoulder diameter inner ring |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 14,3 | Calculation factor |
|-------|------|--------------------|

### Characteristics

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