

**FAG****61884-MA-C3**

Deep groove ball bearing

Deep groove ball bearing 618..-MA, single row, solid brass cage

## Technical information



## Your current product variant

|                                  |              |   |
|----------------------------------|--------------|---|
| Type of Seal                     | Without      | Not sealed                              |
| Cage                             | MA           | Solid brass cage, outer ring guided     |
| Tolerance class                  | PN           | Normal (PN)                             |
| Dimensional / heat stabilization | S1           | Rings dimensional stabilized up to 200° |
| 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        | 420 mm      | Bore diameter                     |
| D        | 520 mm      | Outside diameter                  |
| B        | 46 mm       | Width                             |
| $C_r$    | 224.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 345.000 N   | Basic static load rating, radial  |
| $C_{ur}$ | 9.500 N     | Fatigue load limit, radial        |
| $n_G$    | 2.060 1/min | Limiting speed                    |
| $n_{gr}$ | 1.260 1/min | Reference speed                   |
| $m$      | 22,9 kg     | Weight                            |



### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 430,2 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 509,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2,1 mm   | Maximum fillet radius                |

### Dimensions

|            |           |                              |
|------------|-----------|------------------------------|
| $r_{\min}$ | 2,1 mm    | Minimum chamfer dimension    |
| $D_1$      | 487,2 mm  | Shoulder diameter outer ring |
| $d_1$      | 454,25 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 | Calculation factor |
|-------|----|--------------------|

### Characteristics

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