

**FAG****618/670-M**

Deep groove ball bearing

Deep groove ball bearing 618..-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 (ISO 492:2023)                    |
| Dimensional / heat stabilization | S1           | Rings dimensional stabilized up to 200°  |
| Lubricant                        | Without      | Bearing not greased                      |
| Radial internal clearance        | CN (Group N) | Normal internal clearance                |
| Bore type                        | Z            | Cylindrical                              |

## Main Dimensions &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 670 mm      | Bore diameter                     |
| D        | 820 mm      | Outside diameter                  |
| B        | 69 mm       | Width                             |
| $C_r$    | 445.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 910.000 N   | Basic static load rating, radial  |
| $C_{ur}$ | 19.300 N    | Fatigue load limit, radial        |
| $n_G$    | 1.250 1/min | Limiting speed                    |
| $n_{gr}$ | 760 1/min   | Reference speed                   |
| $m$      | 76 kg       | Weight                            |



### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 684,6 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 805,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 3 mm     | Maximum fillet radius                |

### Dimensions

|            |          |                              |
|------------|----------|------------------------------|
| $r_{\min}$ | 4 mm     | Minimum chamfer dimension    |
| $D_1$      | 774,3 mm | Shoulder diameter outer ring |
| $d_1$      | 719,8 mm | Shoulder diameter inner ring |

### Temperature range

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

### Calculation factors

|       |      |                    |
|-------|------|--------------------|
| $f_0$ | 15,9 | Calculation factor |
|-------|------|--------------------|

### Characteristics

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