

**FAG****7038-MP-UA**

Angular contact ball bearing

Angular contact ball bearing 70..-MP, single row, solid brass cage



## Technical information

**Your current product variant**

|  |         |   |
|--|---------|---|
| Type of Seal   | Without | Not sealed                                      |
| Cage   | MP      | Solid brass cage, ball guided                   |
| Tolerance class                                      | PN      | Normal (PN)                                     |
| Dimensional / heat stabilization                     | S1      | Rings dimensional stabilized up to 200°         |
| Bearing with matched conditions for fitting in pairs | UA      | Bearing set with small axial internal clearance |
| Lubricant  | Without | Bearing not greased                             |

**Main Dimensions & Performance Data**

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 190 mm      | Bore diameter                     |
| D           | 290 mm      | Outside diameter                  |
| B           | 46 mm       | Width                             |
| $C_r$       | 228.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 310.000 N   | Basic static load rating, radial  |
| $C_{ur}$    | 10.400 N    | Fatigue load limit, radial        |
| $n_G$       | 3.350 1/min | Limiting speed                    |
| $n_{gr}$    | 2.390 1/min | Reference speed                   |
| $\approx m$ | 10,299 kg   | Weight                            |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{a \min}$  | 200,2 mm | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 279,8 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 284 mm   | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 2,1 mm   | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 1 mm     | Maximum fillet radius of housing     |

### Dimensions

|              |           |   |
|--------------|-----------|---|
| $r_{\min}$   | 2,1 mm    | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 1,1 mm    | Minimum chamfer dimension                         |
| $D_1$        | 254,1 mm  | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 228,04 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 92,3 mm   | Distance between the apexes of the pressure cones |
| $\alpha$     | 30 °      | Contact angle                                     |

### Temperature range

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

### Additional information

|            |                  |  |
|------------|------------------|--|
| $A_{\min}$ | 80 $\mu\text{m}$ | Axial clearance per set min.                     |
| Tol (+)    | 16 $\mu\text{m}$ | Tolerance for axial clearance or preload per set |

### Characteristics

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