

**FAG****B7036-C-T-P4S-UL**

## Spindle bearing

Spindle bearing B70..-C, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , restricted tolerances

## Technical information



## Your current product variant

|                         |         |  |
|-------------------------|---------|--|
| Preload                 | L       | Preload light  |
| Contact angle           | C       | Contact angle 15°  |
| Tolerance class         | P4S     | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Sealing                 | Without | Not sealed   |
| Cage                    | T       | Laminated fabric cage  |
| Arrangement bearing set | U       | Single bearing   |

## Main Dimensions &amp; Performance Data

|                 |             |                                       |
|-----------------|-------------|---------------------------------------|
| d               | 180 mm      | Bore diameter                         |
| D               | 280 mm      | Outside diameter                      |
| B               | 46 mm       | Width                                 |
| $C_r$           | 248.000 N   | Basic dynamic load rating, radial     |
| $C_{0r}$        | 203.000 N   | Basic static load rating, radial      |
| $C_{ur}$        | 14.200 N    | Fatigue load limit, radial            |
| $n_G$<br>Grease | 4.800 1/min | Limiting speed for grease lubrication |
| $n_G$<br>Oil    | 7.500 1/min | Limiting speed for oil lubrication    |
| $\approx m$     | 8,639 kg    | Weight                                |





### Mounting dimensions

|                |          |   |
|----------------|----------|---|
| $d_a$          | 196 mm   | Diameter shaft shoulder                           |
| $d_a$          | h12      | Diameter shaft shoulder clearance                 |
| $D_a$          | 264 mm   | Shoulder diameter outer ring                      |
| $D_a$          | H12      | Shoulder diameter outer ring clearance            |
| $r_{a \max}$   | 2,1 mm   | Maximum recess radius                             |
| $r_{a1 \max}$  | 1 mm     | Maximum recess radius                             |
| $E_{tk \min}$  | 210,9 mm | Minimum diameter injection pitch                  |
| $E_{tk \max}$  | 221,9 mm | Maximum diameter injection pitch                  |
| $E_{tk1 \min}$ | 210,9 mm | Minimum diameter injection pitch                  |
| $E_{tk1 \max}$ | 221,9 mm | Maximum diameter injection pitch                  |
| $a$            | 53,8 mm  | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                           |
|--------------|--------|---------------------------|
| $r_{\min}$   | 2,1 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 2,1 mm | Minimum chamfer dimension |
| $\alpha$     | 15 °   | Contact angle             |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |



### Additional information

|           |                |                       |
|-----------|----------------|-----------------------|
| $F_{VL}$  | 1.502 N        | Preload force light   |
| $F_{VM}$  | 4.659 N        | Preload force medium  |
| $F_{VH}$  | 9.263 N        | Preload force heavy   |
| $K_{aEL}$ | 4.601 N        | Lift-off force light  |
| $K_{aEM}$ | 15.309 N       | Lift-off force medium |
| $K_{aEH}$ | 32.375 N       | Lift-off force heavy  |
| $c_{aL}$  | 179 N/ $\mu$ m | Axial rigidity light  |
| $c_{aM}$  | 295 N/ $\mu$ m | Axial rigidity medium |
| $c_{aH}$  | 416 N/ $\mu$ m | Axial rigidity heavy  |

### Characteristics

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