

**FAG****B7204-C-2RSD-T-P4S-UL**

## Spindle bearing

Spindle bearing B72...-C-2RSD, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , lip seals on both sides, non-contact, restricted tolerances

## Technical information



## Your current product variant

|                         |      |   |
|-------------------------|------|---|
| Preload                 | L    | Preload light   |
| Contact angle           | C    | Contact angle $15^\circ$                                    |
| Tolerance class         | P4S  | Tolerance class P4S, FAG standard better than P4 to DIN 620 |
| Cage                    | T    | Laminated fabric cage                                       |
| Arrangement bearing set | U    | Single bearing  |
| Lubricant               | GA21 | Grease for super precision bearings, standard               |

## Main Dimensions &amp; Performance Data

|                 |              |                                       |
|-----------------|--------------|---------------------------------------|
| d               | 20 mm        | Bore diameter                         |
| D               | 47 mm        | Outside diameter                      |
| B               | 14 mm        | Width                                 |
| $C_r$           | 17.200 N     | Basic dynamic load rating, radial     |
| $C_{0r}$        | 8.000 N      | Basic static load rating, radial      |
| $C_{ur}$        | 850 N        | Fatigue load limit, radial            |
| $n_G$<br>Grease | 32.000 1/min | Limiting speed for grease lubrication |
| $\approx m$     | 112 g        | Weight                                |



### Mounting dimensions

|               |         |   |
|---------------|---------|---|
| $d_a$         | 26,5 mm | Diameter shaft shoulder                           |
| $d_a$         | h12     | Diameter shaft shoulder clearance                 |
| $D_a$         | 40,5 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12     | Shoulder diameter outer ring clearance            |
| $r_{a \max}$  | 1 mm    | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,3 mm  | Maximum recess radius                             |
| $a$           | 11,5 mm | Distance between the apexes of the pressure cones |

### Dimensions

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

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 80 °C  | Operating temperature max. |

### Additional information

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 75 N    | Preload force light   |
| $F_{VM}$  | 248 N   | Preload force medium  |
| $F_{VH}$  | 496 N   | Preload force heavy   |
| $K_{aEL}$ | 234 N   | Lift-off force light  |
| $K_{aEM}$ | 851 N   | Lift-off force medium |
| $K_{aEH}$ | 1.828 N | Lift-off force heavy  |
| $c_{aL}$  | 28 N/μm | Axial rigidity light  |
| $c_{aM}$  | 49 N/μm | Axial rigidity medium |
| $c_{aH}$  | 71 N/μm | Axial rigidity heavy  |



### Characteristics

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Radial load



Axial load in one direction



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides