



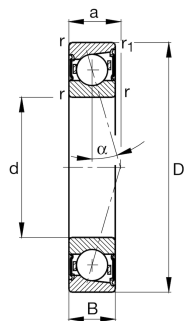
FAG

**B7001-C-2RSD-T-P4S-UL**

Spindle bearing

Spindle bearing B70...-C-2RSD, adjusted, in pairs or sets, contact angle  $\alpha = 15^\circ$ , lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| 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                 | 2RSD | Non-contact sealed on both sides and greased "for life"          |
| Cage                    | T    | Laminated fabric cage                                            |
| Arrangement bearing set | U    | Single bearing                                                   |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 12 mm        | Bore diameter                         |
| D                     | 28 mm        | Outside diameter                      |
| B                     | 8 mm         | Width                                 |
| C <sub>r</sub>        | 4.650 N      | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 1.830 N      | Basic static load rating, radial      |
| C <sub>ur</sub>       | 194 N        | Fatigue load limit, radial            |
| n <sub>G Grease</sub> | 60.000 1/min | Limiting speed for grease lubrication |
| ≈m                    | 20 g         | Masa                                  |



### Mounting dimensions

|               |         |                                                   |
|---------------|---------|---------------------------------------------------|
| $d_a$         | 16,5 mm | Diameter shaft shoulder                           |
| $d_a$         | h12     | Diameter shaft shoulder clearance                 |
| $D_a$         | 24,5 mm | Shoulder diameter outer ring                      |
| $D_a$         | H12     |                                                   |
| $r_{a \max}$  | 0,3 mm  | Maximum recess radius                             |
| $r_{a1 \max}$ | 0,1 mm  | Maximum recess radius                             |
| $a$           | 6,7 mm  | Distance between the apexes of the pressure cones |

### Dimensions

|              |        |                           |
|--------------|--------|---------------------------|
| $r_{\min}$   | 0,3 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,3 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

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 19 N    | Preload force light   |
| $F_{VM}$  | 73 N    | Preload force medium  |
| $F_{VH}$  | 152 N   | Preload force heavy   |
| $K_{aEL}$ | 59 N    | Lift-off force light  |
| $K_{aEM}$ | 242 N   | Lift-off force medium |
| $K_{aEH}$ | 543 N   | Lift-off force heavy  |
| $c_{aL}$  | 15 N/μm | Axial rigidity light  |
| $c_{aM}$  | 27 N/μm | Axial rigidity medium |
| $c_{aH}$  | 39 N/μm | Axial rigidity heavy  |



### Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie dożywotnie, bezobsługowe
-  Smarowanie smarem
-  Uszczelnienie dwustronne