



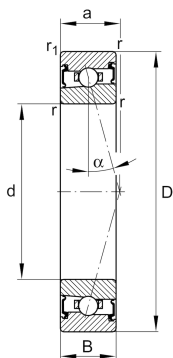
FAG

HSS7002-C-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HSS70...-C, 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

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| Contact angle           | C    | Contact angle $15^\circ$                                         |
| Type of Seal            | 2RSD | Non-contact sealed on both sides and greased "for life"          |
| Cage                    | T    | Laminated fabric cage                                            |
| Tolerance class         | P4S  | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Arrangement bearing set | U    | Single bearing                                                   |
| Preload class           | L    | Preload light                                                    |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |               |                                       |
|-----------------------|---------------|---------------------------------------|
| d                     | 15 mm         | Bore diameter                         |
| D                     | 32 mm         | Outside diameter                      |
| B                     | 9 mm          | Width                                 |
| C <sub>r</sub>        | 3.450 N       | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 1.480 N       | Basic static load rating, radial      |
| C <sub>ur</sub>       | 157 N         | Fatigue load limit, radial            |
| n <sub>G</sub> Grease | 70.000 1/min  | Limiting speed for grease lubrication |
| n <sub>G</sub>        | 110.000 1/min | Limiting speed                        |
| ≈m                    | 0,033 kg      | Masa                                  |



### Mounting dimensions

|               |        |                                                   |
|---------------|--------|---------------------------------------------------|
| $d_a$         | 19 mm  | Diameter shaft shoulder                           |
| $d_a$         | h12    | Diameter shaft shoulder clearance                 |
| $D_a$         | 29 mm  | Shoulder diameter outer ring                      |
| $D_a$         | H12    | Shoulder diameter outer ring clearance            |
| $r_{a\ max}$  | 0,3 mm | Maximum recess radius                             |
| $r_{a1\ max}$ | 0,1 mm | Maximum recess radius                             |
| $a$           | 7,6 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

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 13 N    | Preload force light   |
| $F_{VM}$  | 38 N    | Preload force medium  |
| $F_{VH}$  | 75 N    | Preload force heavy   |
| $K_{aEL}$ | 38 N    | Lift-off force light  |
| $K_{aEM}$ | 120 N   | Lift-off force medium |
| $K_{aEH}$ | 251 N   | Lift-off force heavy  |
| $c_{aL}$  | 14 N/μm | Axial rigidity light  |
| $c_{aM}$  | 22 N/μm | Axial rigidity medium |
| $c_{aH}$  | 30 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne