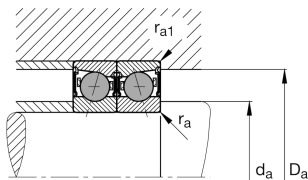
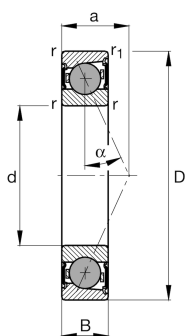
**FAG****HCS7002-E-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HCS70...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , with ceramic balls, lip seals on both sides, non-contact, restricted tolerances

## Informacje techniczne



## Twoja aktualna wersja produktu

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| Preload class           | L    | Preload light                                                    |
| Contact angle           | E    | Contact angle $25^\circ$                                         |
| 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                                                   |

## Main Dimensions &amp; Performance Data

|                 |              |                                       |
|-----------------|--------------|---------------------------------------|
| d               | 15 mm        | Bore diameter                         |
| D               | 32 mm        | Outside diameter                      |
| B               | 9 mm         | Width                                 |
| $C_r$           | 3.250 N      | Basic dynamic load rating, radial     |
| $C_{0r}$        | 1.350 N      | Basic static load rating, radial      |
| $C_{ur}$        | 109 N        | Fatigue load limit, radial            |
| $n_G$<br>Grease | 80.000 1/min | Limiting speed for grease lubrication |
| $\approx m$     | 35 g         | 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                             |
| $a$           | 10 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 |
| $\alpha$     | 25 °   | Contact angle             |

### Temperature range

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

### Additional information

|           |         |                       |
|-----------|---------|-----------------------|
| $F_{VL}$  | 14 N    | Preload force light   |
| $F_{VM}$  | 42 N    | Preload force medium  |
| $F_{VH}$  | 85 N    | Preload force heavy   |
| $K_{aEL}$ | 41 N    | Lift-off force light  |
| $K_{aEM}$ | 124 N   | Lift-off force medium |
| $K_{aEH}$ | 252 N   | Lift-off force heavy  |
| $c_{aL}$  | 34 N/μm | Axial rigidity light  |
| $c_{aM}$  | 50 N/μm | Axial rigidity medium |
| $c_{aH}$  | 65 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne