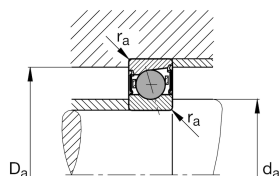
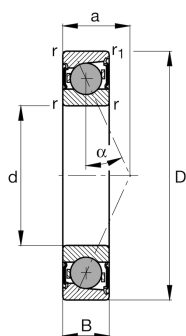
**FAG****HCS7009-E-T-P4S-UL**

## 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 $25^\circ$                                         |
| Sealing                 | 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               | 45 mm        | Bore diameter                         |
| D               | 75 mm        | Outside diameter                      |
| B               | 16 mm        | Width                                 |
| $C_r$           | 11.600 N     | Basic dynamic load rating, radial     |
| $C_{0r}$        | 6.800 N      | Basic static load rating, radial      |
| $C_{ur}$        | 550 N        | Fatigue load limit, radial            |
| $n_G$<br>Grease | 30.000 1/min | Limiting speed for grease lubrication |
| $\approx m$     | 0,247 kg     | Masa                                  |



Mounting dimensions

|                     |        |                                                   |
|---------------------|--------|---------------------------------------------------|
| d <sub>a</sub>      | 51 mm  | Diameter shaft shoulder                           |
| d <sub>a</sub>      | h12    | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>      | 69 mm  | Shoulder diameter outer ring                      |
| D <sub>a</sub>      | H12    | Shoulder diameter outer ring clearance            |
| r <sub>a max</sub>  | 1 mm   | Maximum recess radius                             |
| r <sub>a1 max</sub> | 0,3 mm | Maximum recess radius                             |
| a                   | 22 mm  | Distance between the apexes of the pressure cones |

Dimensions

|                    |      |                           |
|--------------------|------|---------------------------|
| r <sub>min</sub>   | 1 mm | Minimum chamfer dimension |
| r <sub>1 min</sub> | 1 mm | Minimum chamfer dimension |
| α                  | 25 ° | Contact angle             |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 80 °C  | Operating temperature max. |

Additional information

|                   |          |                       |
|-------------------|----------|-----------------------|
| F <sub>V L</sub>  | 48 N     | Preload force light   |
| F <sub>V M</sub>  | 143 N    | Preload force medium  |
| F <sub>V H</sub>  | 286 N    | Preload force heavy   |
| K <sub>aE L</sub> | 137 N    | Lift-off force light  |
| K <sub>aE M</sub> | 417 N    | Lift-off force medium |
| K <sub>aE H</sub> | 848 N    | Lift-off force heavy  |
| c <sub>a L</sub>  | 84 N/μm  | Axial rigidity light  |
| c <sub>a M</sub>  | 125 N/μm | Axial rigidity medium |
| c <sub>a H</sub>  | 161 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne