

**FAG****HS7006-E-T-P4S-UL**

## High speed spindle bearing

High speed spindle bearing HS70...-E,  
adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , restricted tolerances

## Informacje techniczne



## Twoja aktualna wersja produktu

|                         |         |                                                                  |
|-------------------------|---------|------------------------------------------------------------------|
| Contact angle           | E       | Contact angle $25^\circ$                                         |
| Sealing                 | Without | Not sealed                                                       |
| 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                                                    |

## Main Dimensions &amp; Performance Data

|                 |              |                                       |
|-----------------|--------------|---------------------------------------|
| d               | 30 mm        | Bore diameter                         |
| D               | 55 mm        | Outside diameter                      |
| B               | 13 mm        | Width                                 |
| $C_r$           | 7.800 N      | Basic dynamic load rating, radial     |
| $C_{0r}$        | 4.050 N      | Basic static load rating, radial      |
| $C_{ur}$        | 425 N        | Fatigue load limit, radial            |
| $n_G$<br>Grease | 34.000 1/min | Limiting speed for grease lubrication |
| $n_G$ Oil       | 53.000 1/min | Limiting speed for oil lubrication    |
| $n_G$           | 53.000 1/min | Limiting speed                        |
| $\approx m$     | 0,124 kg     | Masa                                  |





### Mounting dimensions

|                |         |                                                   |
|----------------|---------|---------------------------------------------------|
| $d_a$          | 36 mm   | Diameter shaft shoulder                           |
| $d_a$          | h12     | Diameter shaft shoulder clearance                 |
| $D_a$          | 49 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                             |
| $E_{tk \min}$  | 39,7 mm | Minimum diameter injection pitch                  |
| $E_{tk \max}$  | 40,9 mm | Maximum diameter injection pitch                  |
| $E_{tk1 \min}$ | 37,9 mm | Minimum diameter injection pitch                  |
| $E_{tk1 \max}$ | 40,9 mm | Maximum diameter injection pitch                  |
| $a$            | 16,4 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 |
| $\alpha$     | 25 ° | Contact angle             |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 100 °C | Operating temperature max. |



Additional information

|           |          |                       |
|-----------|----------|-----------------------|
| $F_{VL}$  | 48 N     | Preload force light   |
| $F_{VM}$  | 143 N    | Preload force medium  |
| $F_{VH}$  | 286 N    | Preload force heavy   |
| $K_{aEL}$ | 138 N    | Lift-off force light  |
| $K_{aEM}$ | 423 N    | Lift-off force medium |
| $K_{aEH}$ | 865 N    | Lift-off force heavy  |
| $c_{aL}$  | 61 N/μm  | Axial rigidity light  |
| $c_{aM}$  | 91 N/μm  | Axial rigidity medium |
| $c_{aH}$  | 119 N/μm | Axial rigidity heavy  |

Właściwości

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Obciążenie promieniowe
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Obciążenie osiowe jednokierunkowe
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Smarowanie smarem
- 

Smarowanie olejem
- 

Bez uszczelnienia