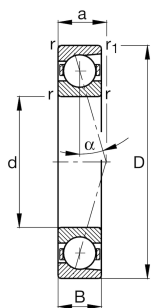


**FAG****B7009-E-T-P4S-UL** 

## Spindle bearing

Spindle bearing B70..-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , restricted tolerances

## Informacje techniczne



## Twoja aktualna wersja produktu

|                         |         |                                                                  |
|-------------------------|---------|------------------------------------------------------------------|
| Preload class           | L       | Preload light                                                    |
| Contact angle           | E       | Contact angle $25^\circ$                                         |
| Tolerance class         | P4S     | Tolerance class P4S, FAG standard better than P4 to ISO 492:2023 |
| Type of Seal            | Without | Not sealed                                                       |
| Cage                    | T       | Laminated fabric cage                                            |
| 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                                 |
| $C_r$              | 26.500 N     | Basic dynamic load rating, radial     |
| $C_{0r}$           | 14.200 N     | Basic static load rating, radial      |
| $C_{ur}$           | 1.500 N      | Fatigue load limit, radial            |
| $n_G$<br>Grease    | 17.000 1/min | Limiting speed for grease lubrication |
| $n_{G\text{ Oil}}$ | 26.000 1/min | Limiting speed for oil lubrication    |
| $\approx m$        | 232 g        | 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     |                                                   |
| r <sub>a</sub> max   | 1 mm    | Maximum recess radius                             |
| r <sub>a1</sub> max  | 0,3 mm  | Maximum recess radius                             |
| E <sub>tk</sub> min  | 54,3 mm | Minimum diameter injection pitch                  |
| E <sub>tk</sub> max  | 57,3 mm | Maximum diameter injection pitch                  |
| E <sub>tk1</sub> min | 54,3 mm | Minimum diameter injection pitch                  |
| E <sub>tk1</sub> max | 57,3 mm | Maximum diameter injection pitch                  |
| a                    | 22 mm   | Distance between the apexes of the pressure cones |

Dimensions

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

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 100 °C | Operating temperature max. |



Additional information

|           |                |                       |
|-----------|----------------|-----------------------|
| $F_{VL}$  | 208 N          | Preload force light   |
| $F_{VM}$  | 763 N          | Preload force medium  |
| $F_{VH}$  | 1.622 N        | Preload force heavy   |
| $K_{aEL}$ | 606 N          | Lift-off force light  |
| $K_{aEM}$ | 2.308 N        | Lift-off force medium |
| $K_{aEH}$ | 5.082 N        | Lift-off force heavy  |
| $c_{aL}$  | 115 N/ $\mu$ m | Axial rigidity light  |
| $c_{aM}$  | 189 N/ $\mu$ m | Axial rigidity medium |
| $c_{aH}$  | 259 N/ $\mu$ m | Axial rigidity heavy  |

Właściwości

- 

Obciążenie promieniowe
- 

Obciążenie osiowe jednokierunkowe
- 

Smarowanie smarem
- 

Smarowanie olejem
- 

Bez uszczelnienia