



FAG

HSS7007-E-T-P4S-UL

High speed spindle bearing

High speed spindle bearing HSS70...-E, adjusted, in pairs or sets, contact angle  $\alpha = 25^\circ$ , lip seals on both sides, non-contact, restricted tolerances

Informacje techniczne



Twoja aktualna wersja produktu

|                         |      |                                                                  |
|-------------------------|------|------------------------------------------------------------------|
| 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                                                   |
| Preload class           | L    | Preload light                                                    |
| Lubricant               | GA21 | Grease for super precision bearings, standard                    |

Main Dimensions & Performance Data

|                       |              |                                       |
|-----------------------|--------------|---------------------------------------|
| d                     | 35 mm        | Bore diameter                         |
| D                     | 62 mm        | Outside diameter                      |
| B                     | 14 mm        | Width                                 |
| C <sub>r</sub>        | 8.400 N      | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 4.700 N      | Basic static load rating, radial      |
| C <sub>ur</sub>       | 500 N        | Fatigue load limit, radial            |
| n <sub>G</sub> Grease | 30.000 1/min | Limiting speed for grease lubrication |
| n <sub>G</sub>        | 45.000 1/min | Limiting speed                        |
| ≈m                    | 0,166 kg     | Masa                                  |



Mounting dimensions

|                     |         |                                                   |
|---------------------|---------|---------------------------------------------------|
| d <sub>a</sub>      | 41 mm   | Diameter shaft shoulder                           |
| d <sub>a</sub>      | h12     | Diameter shaft shoulder clearance                 |
| D <sub>a</sub>      | 56 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                   | 18,3 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>  | 51 N     | Preload force light   |
| F <sub>V M</sub>  | 152 N    | Preload force medium  |
| F <sub>V H</sub>  | 304 N    | Preload force heavy   |
| K <sub>aE L</sub> | 146 N    | Lift-off force light  |
| K <sub>aE M</sub> | 448 N    | Lift-off force medium |
| K <sub>aE H</sub> | 915 N    | Lift-off force heavy  |
| c <sub>a L</sub>  | 68 N/μm  | Axial rigidity light  |
| c <sub>a M</sub>  | 101 N/μm | Axial rigidity medium |
| c <sub>a H</sub>  | 132 N/μm | Axial rigidity heavy  |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie dożywotnie, bezobsługowe



Smarowanie smarem



Uszczelnienie dwustronne